August 9, 2013

VIA ELECTRONIC MAIL

RECEIVED
AUG 12 2013
Office of the Regional Director
Pacific OCS Region

RKW
BSEE-2013-00179
PAC-2013-00018

Bureau of Ocean Energy Management
Regional FOIA Coordinator
Mail Stop: 7001
770 Paseo Camarillo
Camarillo, CA 93010-6064
Telephone: (805) 389-7502
Fax: (805) 389-7505
BOEMFOIA@boem.gov

Bureau of Safety and Environmental Enforcement, Pacific Region
Regional FOIA Coordinator
Mail Stop: CE 215
770 Paseo Camarillo
Camarillo, CA 93010-6064
Telephone: 805-389-7621
Fax: 805-389-7689
Email: BSEEFOIA@bsee.gov

FREEDOM OF INFORMATION ACT REQUEST

The Center for Biological Diversity ("the Center") is a non-profit, public interest, conservation organization whose mission is to conserve imperiled native species and their threatened habitat and to fulfill the continuing educational goals of its membership and the general public in the process. Consistent with this mission and consistent with the Freedom of Information Act (FOIA), 5 U.S.C. § 552, I respectfully request the following information on behalf of the Center:

- All documents identifying any Pacific OCS wells where hydraulic fracturing has been used.
- All documents containing NEPA analysis or documentation relied upon to permit any well in the Pacific OCS Region that has used or proposes to use hydraulic fracturing technology, including but not limited to lease sale environmental impact statements (EIS) or environmental assessments (EA), exploration EISs or EAs, development EISs or EAs, and any NEPA analyses conducted on any Application for Permit to Drill (APD) or Application for Permit to Modify (APM).
- All Development and Production Plans for wells where hydraulic fracturing has been used or proposed for use in the Pacific Region.
- All documents relating to any reviews for safety, environmental, geohazard or related concerns for any offshore Exploration Plan, Development and Production

Plan, APD, or APM in the Pacific OCS Region that proposes using hydraulic fracturing technology.

- All documents relating to any analysis or consultation under the Endangered Species Act considering the impact of Pacific OCS development on listed species.
- All documents or correspondence pertaining to the decision to approve hydraulic fracturingon well numbers API#04-311-20674-02, 04-311-20501-00, and any other wells in the Pacific OCS Region where hydraulic fracturing has been used or proposed.
- Correspondence concerning NEPA documents or any other environmental reviews that were relied upon by the Bureau of Ocean Energy Management or the Bureau of Safety and Environmental Enforcement concerning the approval of hydraulic fracturing in the Pacific OCS Region.

"All documents" includes, but is not limited to, all preliminary and final reports, memoranda, schedules, maps, studies, data, correspondence, comments, and files, whether in hard copy or electronic form. Correspondence includes, but is not limited to, letters, conversation records, notes, email messages (and attachments), and phone logs.

In the event that access to any of the requested records is denied, please note that FOIA provides that any "reasonably segregable portion of a record shall be provided to any person requesting such record after deletion of the portions which are exempt under [FOIA]." 5 U.S.C. § 552(b). Please provide all non-exempt portions of the requested records that are reasonably segregable, describe the deleted material in detail, and specify the statutory basis for the denial, as well as your reasons for believing that the alleged statutory justification applies in each instance. Please separately state your reasons for not invoking your discretionary power to release the requested documents in the public interest.

This request is being sent both the Bureau of Ocean Energy management, regulation and Enforcement and the Bureau of Safety and Environmental Compliance with the understanding that it will be forwarded to any and all other offices that contain the requested documents.

REQUEST FOR FEE-WAIVER

The Center requests that you waive all fees in connection with this matter. As shown below, the Center meets the two-pronged test under FOIA for a fee-waiver, 5 U.S.C. § 552(a)(4)(A)(iii), as implemented by the Department of Interior's fee-waiver regulations at 43 C.F.R. § 2.19. See also Judicial Watch v. Rossotti, 326 F.3d 1309 (D.C. Cir. 2003).

In considering whether the Center meets the fee-waiver criteria, it is imperative that the Service remember that FOIA carries a presumption of disclosure and was designed specifically to allow non-profit, public interest groups such as the Center access to government documents without the payment of fees. Both Congress and the courts are clear in their interpretation that the main legislative purpose of the amendments to add the fee waiver provision was to facilitate access to agency records by "watchdog" organizations, such as environmental groups, which use FOIA to

monitor and challenge government activities. The waiver provision was added to FOIA "'in an attempt to prevent government agencies from using high fees to discourage certain types of requesters and requests,' in a clear reference to requests from journalists, scholars, and, most importantly for our purposes, nonprofit public interest groups." Better Gov't Ass'n v. Department of State, 780 F.2d 86, 94 (D.C. Cir. 1986), quoting Ettlinger v. FBI, 596 F. Supp. 867, 872 (D. Mass. 1984). As stated by one Senator, "agencies should not be allowed to use fees as an offensive weapon against requesters seeking access to Government information." 132 Cong. Rec. S. 14298 (statement of Sen. Leahy). The Ninth Circuit has stated that the amended statute "is to be liberally construed in favor of waivers for noncommercial requesters." McClellan Ecological Seepage Situation v. Carlucci, 835 F.2d 1282, 1284 (9th Cir. 1987) (citing Sen. Leahy). The Ninth Circuit has likewise explicitly pointed out that the amendment's main purpose was "to remove the roadblocks and technicalities which have been used by various Federal agencies to deny waivers or reductions of fees under the FOIA." Id.

I. Disclosure of this information is in the public interest because it will significantly contribute to public understanding of the operations or activities of government.

A. The subject of the request concerns "the operations and activities of the government."

The subject matter of this request relates to management of offshore oil and gas resources as well as the implementation of environmental laws and regulations, such as the Outer Continental Shelf Lands Act, National Environmental Policy Act, the Endangered Species Act, and the Marine Mammal Protection Act. It is clear that management of offshore oil and gas resources, as well as implementation and execution of environmental laws, are specific and identifiable activities of the government, in this case the executive branch agency, the Service. See Judicial Watch, 326 F.3d at 1313 (stating that with regard to this factor, "'reasonable specificity' [is] all that FOIA requires.").

B. The disclosure is "likely to contribute" to an understanding of government operations or activities (the informative value of the information to be disclosed).

The information requested will help provide the Center with crucial insight into the policies and decision-making processes of the Bureaus as they relate to managing the environmental effects of offshore oil and gas extraction on fish, marine mammals, other wildlife and the marine environment. These documents are not currently in the public domain. Their release is not only "likely to contribute," but is in fact certain to contribute to better public understanding of the Bureau's obligations as well as Bureau's activities/operations regarding management of offshore oil and gas resources and the implementation of environmental laws and regulations. The information requested will contribute to an understanding of whether or not the Bureaus are fulfilling their obligations, as well as what information the Bureaus have in regard to oil and gas extraction (including hydraulic fracturing) activities' effect on the marine environment, and what the Bureaus are doing to better manage offshore oil and gas extraction in light of that information. The public is always well served when it knows how government activities,

particularly matters touching on legal and ethical questions, have been conducted. See Judicial Watch, 326 F.3d at 1314 ("the American people have as much interest in knowing that key [agency] decisions are free from the taint of conflict of interest as they have in discovering that they are not.").

In McClellan Ecological Seepage Situation v. Carlucci, the court made clear that FOIA legislative history "suggests that information [has more potential to contribute to public understanding] to the degree that the information is new and supports public oversight of agency operations." 835 F.2d at 1286. In this instance, all the requested documents potentially provide new information about the extent to which hydraulic fracturing is being used offshore and the Bureaus' actions, especially regarding offshore oil and gas extraction activities and the effect on the marine environment. Moreover, the information will provide important oversight of Bureau activities by revealing what information the Service has about the effect of offshore hydraulic fracturing o on the marine environment and what actions the Bureaus are or are not taking in light of that information. See Western Watersheds Project v. Brown, 318 F.Supp.2d 1036, 1040 (D. Idaho 2004) ("WWP asserted in its initial request that the information requested was either not readily available or never provided to the public, facts never contradicted by the BLM. Therefore, the Court finds that WWP adequately demonstrated that the information would contribute significantly to public understanding"); see also Community Legal Services v. HUD, 405 F.Supp.2d 553, 560 (E.D. Pa. 2005) ("the CLS request would likely shed light on information that is new to the interested public"). Finally, this request will also shed light on whether the Bureaus are appropriately implementing environmental laws and regulations.

C. The disclosure is likely to contribute significantly to public understanding of government operations or activities.

Public understanding of the environmental effects of offshore oil and gas extraction on the marine environment, as well as of Bureau activities in regard to management of the effects of oil and gas extraction, will significantly increase as a result of disclosure because the requested information will reveal more about actions being taken regarding affected marine environment. In other words, once the public is more aware of the Bureaus' actions, the public will a) have a better understanding of the status of the management of oil and gas extraction and affected marine environment and b) can better gauge whether Bureau decisions and activities are appropriate or whether certain actions should be undertaken.

The documents are also certain to shed light on the Bureaus' compliance with environmental and natural resource laws. Such public oversight of agency action is vital to our democratic system and clearly envisioned by the drafters of the FOIA. The Center intends to fulfill its well established function of public oversight of agency action. The Center is not requesting these documents merely for their intrinsic informational value. It is irrelevant whether any portion of the Center's request may currently be in the public domain, because the Center requests considerably more than any piece of information that may currently be available to other individuals. Judicial Watch, 326 F.3d at 1315.

In addition, the Center plans to take the information it learns from the disclosed documents and educate the public about offshore hydraulic fracturing and potential affected fish and wildlife, and also educate the public about whether the Service's management and conservation strategies are appropriate in light of the known information. See Western Watersheds Project, 318 F.Supp.2d at 1040 ("In the letter denying the appeal, the FOIA Officer stated that WWP had failed to demonstrate . . . 'how the information would contribute to the understanding of the general public of the operations or activities of the government.' The Court, however . . . finds that WWP adequately specified the public interest to be served, that is, educating the public about the ecological conditions of the land managed by the BLM and also how . . . management strategies employed by the BLM may adversely affect the environment.").

The requested information will reveal in greater detail what the Bureaus know regarding oil and gas extraction activities and their effect on the marine environment, as well as the lawfulness of the Bureaus' actions. There can be no dispute that disclosure of the requested documents may provide information that will significantly enhance the public's understanding of the Bureau's legal obligations and Bureau environmental enforcement in general. Even if the documents fail to reveal that certain actions need to be taken, this does not mean the documents do not serve the public interest. See Judicial Watch, 326 F.3d at 1314.

II. Obtaining the information is of no commercial interest to the Center.

Access to government documents, disclosure forms, and similar materials through FOIA requests is essential to the Center's role of educating the general public. The Center, a non-profit organization, has no commercial interest and will realize no commercial benefit from the release of the requested information.

III. The Center has a recognized ability to disseminate this information broadly.

The Center is a non-profit organization that informs, educates, and counsels the public regarding environmental issues, policies, and laws relating to environmental issues. The Center has been substantially involved in the management activities of numerous government agencies for years, and has consistently displayed its ability to disseminate information granted to it through FOIA.

In consistently granting the Center's fee-waivers, agencies have recognized that (1) the Center's requested information contributes significantly to the public understanding of the operations or activities of the government, (2) the Center's requested information enhances the public's understanding to a greater degree than currently exists, (3) the Center possesses the expertise to explain the requested information to the public (e.g. the Center has several staff biologists and staff attorneys), (4) the Center possesses the ability to disseminate the requested information to the general public, (5) and that the news media recognizes that the Center is an established expert in the field of imperiled species, biodiversity, and impacts on protected species.

Public oversight and enhanced understanding of Bureau duties is absolutely necessary. The Center's members' track record of active participation in oversight of governmental agency activities and their consistent contribution to the public's understanding of agency activities as compared to the level of public understanding prior to disclosure are well established. In determining whether the disclosure of requested information will contribute significantly to public understanding, a guiding test is "whether the requester will disseminate the disclosed records to a *reasonably broad audience of persons interested in the subject.*" Carney v. U.S. Dept. of Justice, 19 F.3d 807, 815 (2d Cir. 1994)(emphasis added). The Center need not show how it intends to distribute the information, because "nothing in FOIA, the [agency] regulation, or our case law require[s] such pointless specificity." Judicial Watch, 326 F.3d at 1314. It is sufficient for the Center to show how it distributes information to the public generally. Id.

The documents requested in this FOIA request will be used to determine the environmental effects of hydraulic fracturing on the marine environment of the Pacific coast, and what actions the Bureaus are or are not taking in light of that information. They will also be used to determine whether and how the Bureaus are complying with and implementing its obligations under environmental laws. Concurrent with any action that the Center may take after obtaining the requested documents, the Center will publicize the reasons for the action and the underlying the Bureaus' activitiesthat have prompted the action. This is certain to result in a significant increase in public understanding of government agency activity, and in particular of Bureau responsibilities. The Center has enforced or publicized agency compliance with the provisions of various environmental laws many times through information gained from FOIA requests like this one, and has also many times publicized the status of species and the conservation measures being taken on their behalf through information gained from FOIA requests like this one. The Center intends to use the documents requested in this request in a similar manner.

In addition, our publications supply information not only to our membership, but also to the memberships of most other conservation organizations, locally as well as nationally. Our publications contribute information to public media outlets, as well. For example, information such as that presently requested is often disseminated through our e-mail Biodiversity alerts, which are sent to nearly 90,000 people approximately once a week, and our web page, which is accessed nearly 1.5 million times each month. Information concerning the effects of oil and gas extraction activities on the marine environment of the Pacific Coast, as well as the Bureaus' action in light of that information or the Bureaus' compliance with environmental laws, will likely be disseminated through all of these means. See Forest Guardians v. DOI, 416 F.3d 1173, 1180 (10th Cir. 2005) ("Among other things, Forest Guardians 'publishes an online newsletter, which is e-mailed to more than 2,500 people' and stated that 'it intends to establish an interactive grazing web site' with the information obtained from the BLM. By demonstrating that the records are meaningfully informative to the general public and how it will disseminate such information, Forest Guardians has shown that the requested information is likely to contribute to the public's understanding of the BLM's operations and activities.").

CONCLUSION

I hope that this letter has demonstrated to your satisfaction that the Center qualifies for a full fee-waiver, and that you will immediately begin to search and copy the requested material. I urge you to act promptly on this request, because of the need for timely review of records to effectively participate in comment periods on impact statements and proposed permitting actions. Access to the requested records should be granted within twenty (20) working days from the date of your receipt. Failure to respond in a timely manner shall be viewed as a denial of this request and we may immediately file an administrative appeal.

For any of the requested records which are commonly used, and easily copied, electronic formats (e.g., Word, emails, PDFs), please provide the records to us in their native format to save time and reduce costs. Please send all materials to the address on the letterhead on a DVD in load ready format. If some records are available sooner than others, please forward those rather than waiting for a search for other records.

Thank you in advance for your prompt reply. Please call me at (971) 717.6404 or email me at dmcdonnell@biologicaldiversity.org if you have any questions about the scope of this request or our qualification for a fee waiver.

Sincerely,

Deirdre McDonnell

Senior Attorney, Oceans Program
Center for Biological Diversity
PO Box 11374
Portland, OR 97211
dmcdonnell@biologicaldiversity.org
(971) 255-0966

Williams, Rochelle <rochelle.williams@bsee.gov>

Fwd: FOIA Request

1 message

FOIA, BSEE <bseefoia@bsee.gov> Mon, Aug 12, 2013 at 4:07 AM
To: Janice Hall <janice.hall@bsee.gov>, Rochelle Williams <rochelle.williams@bsee.gov>

Good Morning Janice/Rochelle -

I believe the attached request would be processed by your office, please advise.

Thank you and have a great day.

Dottie Tinker
BSEE FOIA Office

——— Forwarded message ———
From: **Deirdre McDonnell** <dmcdonnell@biologicaldiversity.org>
Date: Fri, Aug 9, 2013 at 7:05 PM
Subject: FOIA Request
To: BOEMFOIA@boem.gov, BSEEFOIA@bsee.gov

Attached, please find a FOIA request submitted today on behalf of the Center for Biological Diversity. If you have any questions regarding this request, please contact me by email, or at the phone number below.

Thank you for your attention to this matter.

Deirdre

Deirdre McDonnell

Senior Attorney • Oceans Program

dmcdonnell@biologicaldiversity.org

CENTER FOR BIOLOGICAL DIVERSITY

PO Box 11374

Portland, OR 97211-0374

971-717-6404

www.biologicaldiversity.org

Final FOIA request offshore fracking.pdf
63K

United States Department of the Interior

BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT
PACIFIC OCS REGION
770 Paseo Camarillo, 2nd Floor
Camarillo, CA 93010-6064

November 27, 2013

Deirdre McDonnell
Senior Attorney, Oceans Program
Center for Biological Diversity
PO Box 11374
Portland, OR 97211

Re: FOIA Request #BSEE-2013-00179

Dear Ms. McDonnell:

On August 12, 2013, the Bureau of Safety and Environmental Enforcement received your Freedom of Information Act (FOIA) request, requesting copies of the following documents from 1990 to the present:

- All documents identifying any Pacific OCS wells where hydraulic fracturing has been used.
- All documents containing NEPA analysis or documentation relied upon to permit any well in the Pacific OCS Region that has used or proposes to use hydraulic fracturing technology, including but not limited to lease sale environmental impact statements (EIS) or environmental assessments (EA), exploration EISs or EAs, development EISs or EAs, and any NEPA analyses conducted on any Application for Permit to Drill (APD) or Application for Permit to Modify (APM).
- All Development and Production Plans for wells where hydraulic fracturing has been used or proposed for use in the Pacific Region.
- All documents relating to any reviews for safety, environmental, geohazard or related concerns for any offshore Exploration Plan, Development and Production Plan, APD, or APM in the Pacific OCS Region that proposes using hydraulic fracturing technology.
- All documents relating to any analysis or consultation under the Endangered Species Act considering the impact of Pacific OCS development on listed species.
- All documents or correspondence pertaining to the decision to approve hydraulic fracturingon well numbers API#04-311-20674-02, 04-311-20501-00, and any other wells in the Pacific OCS Region where hydraulic fracturing has been used or proposed.

· Correspondence concerning NEPA documents or any other environmental reviews that were relied upon by the Bureau of Ocean Energy Management or the Bureau of Safety and Environmental Enforcement concerning the approval of hydraulic fracturing in the Pacific OCS Region.

By letter dated November 5, 2013, we provided you with 268 pages of documents we determined to be releasable.

In response to your request, the BSEE has located and is providing on CD a total of 1854 pages of responsive material we have also determined to be releasable.

The other responsive material you requested may be viewed and retrieved on BSEE website address, http://www.bsee.gov/About-BSEE/FOIA/FOIA.aspx, BSEE FOIA Reading Room (Frequently Requested Documents). This page contains records that the bureau proactively discloses because they are frequently requested under the FOIA. As you can see, redactions are applied to 174 pages of the responsive records. These portions and pages are exempt from release in accordance with Exemption 5 of the FOIA (5 U.S.C. 552 (b)(5)), which pertains to predecisional expressions of opinions and recommendations in inter-agency or intra-agency records and in accordance with Exemption 9 of the FOIA (5 U.S.C. 552 (b)(9)), which pertains to geological and geophysical information concerning wells.

Mr. Lane Nemirow with the Office of the Solicitor was consulted in reaching this decision. If you disagree with this determination, you may appeal this partial denial to the FOIA Appeals Officer. The FOIA Appeals Officer must receive your FOIA appeal no later than 30 workdays from the date of this final letter responding to your FOIA request. Appeals arriving or delivered after 5pm E.T., Monday through Friday, will be deemed received on the next workday. Your appeal must be delivered by mail, courier service, fax or email to the address listed at http://www.doi.gov/foia/appeals.cfm. If appealing by mail your appeal and all correspondence must be addressed to:

Freedom of Information Act Appeals Officer
Department of the Interior
Office of the Solicitor
1849 C Street, NW, MS 6556
Washington, DC 20240

You must include with your appeal copies of all correspondence between you and the bureau concerning your FOIA request, including a copy of your original FOIA request and this partial denial letter, and an explanation of why you believe the bureau's response is in error. Failure to include this documentation with your appeal will result in the Department's rejection on your appeal. All communications concerning an appeal should be clearly marked with the words, "FREEDOM OF INFORMATION APPEAL."

Also, the Office of Government Information Services (OGIS) was created as part of the 2007 Open Government Act amendments to the FOIA to offer mediation services to resolve disputes between FOIA requesters and Federal agencies as a nonexclusive alternative to litigation. Using OGIS services does not affect your right to pursue litigation. You may contact OGIS at:

Office of Government Information Services (OGIS)
National Archives and Records Administration
8601 Adelphia Road, Room 2510
College Park, MD 20740-6001

For your information, Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA. See 5 U.S.C. § 552 (c) (2006 & Supp. IV (2010). This response is limited to those records that are subject to the requirements of the FOIA. This is a standard notification that is given to all our requesters and should not be taken as an indication that excluded records do, or do not, exist.

This completes our response to your request. If you have any questions, please contact Rochelle Williams at (805) 389-7618, or you can send an email to rochelle.williams@bsee.gov.

Sincerely,

Janice R. Hall
FOIA Officer

Enclosure

Releasable to public Name: [illegible] Date: 10/24/13

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies w... one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
CORRECTION X	04-311-20615-00/S01	S-61	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

COPY TO REGION

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER		
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER		
APPROVAL X	ARTIFICIAL LIFT	X	MULTICOMPLETION		RECOMPLETION				COM/WIW
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X			
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT				

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041696 Y=747982 S03522E07902	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Revision #1 of Completion Procedure
See attached for details

RECEIVED
CONFIDENTIAL JUN 18 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980617

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 7/6/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.
Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

Releasable to public
Name: RW Date: 10/31/13

TORCH OPERATING COMPANY
Santa Clara Field, Offshore California
OCS-P-0216
Platform Gilda
Well # S-61
COMPLETION PROCEDURE

PROCEDURE SUMMARY:

A) Run WSO on 5-1/2" lap, changeover to seawater, log, changeover to 13.3 ppg $CaBr_2$ brine.

B) TCP 60 ft of perfs in LP-N with 500 psi underbalance in 10500 to 10600 ft range

C) Run 80 ft of 2-3/8" wire wrapped stainless screen, set, and fracpack N sand.

D) TCP 60 ft of perfs in LP-M with 500 psi underbalance in 10150 to 10250 ft range.

E) Run 80 ft of 2-3/8" wirewrapped stainless screen, stack on top of first screen, and fracpack M.

F) Put on production as pumping, screened, and gravel packed LP-M, N oil producer.

Tubular Capacities

	Size	Interval	Wt	ID	Drift	Bbl/ft	Hole Vol (bbl)
Cond. Csg	20"	0-715'	106.5#	19.000"	18.812"	0.3506	---
Surf. Csg	16"	400-1745'	75.0	15.124"	14.936"	0.2222	---
Inter. Csg	13-3/8"	0-3793'	68.0	12.415"	12.259"	0.1497	---
Prod. Csg	9-5/8"	0-6880'	47.0	8.681"	8.525"	0.0732	479*
Inter. Liner	7-5/8"	6550-10050'	29.7	6.875"	6.750"	0.0459	131*
Prod. Liner	5-1/2"	9413-10713'	20.0	4.778"	4.653"	0.0221	29*
							639* bbl

NOTE: The 7-5/8" and 5-1/2" liner depths shown above are PLANNED.
* To expected lap top of next liner.

Releasable to public
Name: LW Date: 10/31/13

PROCEDURE:

1) NU 5000# BOEs with variable rams. Change lower pipe rams to close against production tubing. Pressure test BOEs to MMS specifications.

2) Lay down drill pipe out of derrick. Pick up 1300 ft of 2-7/8", 6.5#, N-80, EUE and 9,500 ft of 3-1/2", 9.2#, N-80, EUE 8 rd. tubing for workstring.

3) PU and RIH with 7-5/8", 29.7# Halliburton packer/WSO test tool to 5" liner top at 9,413 +- ft.

4) Fill tubing with column of drilling mud to achieve 100 psi. test pressure and differentially test the 7-5/8", 29.7# x 5-1/2" liner lap with Halliburton WSO tool. Invite MMS to witness. POOH.

   Note: This test will confirm pay zone isolation from back side as well as allow the flexibility to set a production packer at the base of the 7-5/8" casing, should it become necessary in the future. It will also simulate pumping conditions.

5) RIH with 4-5/8" bit. Circulate out drilling mud to TD with sea water. Circulate through slugging pit only, keeping mud in active and reserve pit for possible squeeze work. On bottom, continue to circulate with filtered sea water and gel sweeps as required, until returns run clear. **Clean fill to TD.**

6) POOH with bit.

7) RU and run a USIT-CBT-GR-CCL logging assembly across the productive interval, tagging and correlating from TD. Maintain equivalent casing pressure to that left on logged interval of casing while WOC.

   Note: Squeeze cement as necessary for adequate zone isolation between the intervals to be fracture stimulated. Re-correlate to TD after cleaning out from squeeze, if required.

8) Begin cleaning active and reserve pits as soon as mud is no longer required.

9) RIH with 5-1/2", 20# , 7-5/8", 29.7#, and 9-5/8", 47# properly spaced casing scrapers. Scrape liner from liner top to TD. Reverse circulate from TD, with filtered sea water until returns run clear. POOH with scrapers.

   NOTE: Hydrotest 3-1/2" x 2-7/8" workstring on way in hole to 7500 psi.

9) RIH with 9-5/8" service packer on workstring. Set packer at 3900'. Test 9-5/8"/workstring annulus to 4400 psi.

   Note: This test is to determine whether the 9-5/8" casing above 3900' can withstand SIBHP – gas head. The interval below 3900' will already have been tested to a higher equivalent pressure with mud.

10) Fill active pit, reserve pit, and one steam cleaned Baker tank with 13.3 ppg $CaBr_2$ water. Displace sea water from tubing and casing. Rig up DE filter press and filter entire system to 30 NTU or less.

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Consult with duty engineer if turbidity appears to be from dissolved material (i.e., rust). POOH with scrapers.

11) RIH w/ 5-1/2", 20# Baker Model D sump packer on workstring. Set at depth to be determined from perforation picks, using wireline correlation with the CBL-USIT log.

The sump packer setting depth will be determined when perfs are picked, and will be approximately 12 ft below the bottom perf.

12) Pick up and run in hole with Halliburton tubing conveyed perforating assembly with 3-3/8" guns loaded to perforate the LP-N interval (estimated at 60 ft net). Charges to be 12 SPF, 14 gm, RDX, big hole entry (0.62" diam, 5.33" penetration). The packer and Omni valve will be set in the 7-5/8" casing above the liner top, with approximately 1300 ft of spacers between the packer and top shot.

- TCP assembly is to be as follows (see attached Halliburton sketch for additional detail):

3-1/2" tubing workstring from surface
IPO valve
Omni valve (run in Well Test position)
Big John hydraulic jars
7-5/8", 29.7# Champ III packer
1300 +- ft of spacers
drop bar operated vent (POV)
2 pressure gauge carrier 10 ft subs (w/ 2 mechanical gauges and 2 electronic gauges)
drop bar operated firing head
loaded 12 SPF guns

Caution: On all TCP runs, rabbit all equipment run above drop bar firing head, including the kellycock, for prevention of premature gun firing.

- Work with Halliburton tool man to plan XO's needed between his tools and Torch's 3-1/2" x 2-7/8" workstring.

- Fill tubing with filtered sea water while RIH.

- Do not run wireline correlation log, but instead tag sump packer with bull plug on TCP assembly and pick up to desired depth based on pipe tally (to avoid running wireline in deviated hole).

- Measure drag by picking up string. Set Champ III packer by picking up, turning right 1/4 turn at the tool to unjay, and setting down 20,000# +- at the tool.

13) Make up Halliburton surface flow equipment to flow well either to test trap or straight to production system. Pressure test Halliburton surface flow equipment.
14) Prior to dropping bar, notify production and hold rig floor safety meeting. Pressure tubing with sea water to result in 500 psi underbalance at the top perforation. Drop bar to perforate lower interval.

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15) When guns fire, take fluid influx to clean up perf debris, but do not surface the fluid (3-1/2", 9.2# capacity to 9,300 ft is 89 bbl). Monitor well with bubble bucket.

16) Cycle Omni valve to circulating position (perforations isolated). Note the time that the Omni valve is closed to perfs. Allow at least 25 minutes of shut-in time for downhole pressure gauges to record shut-in reservoir pressure below packer.

17) Reverse out tubing through Omni valve with 13.3 ppg $CaBr_2$ brine.

18) Cycle Omni valve to well test position and check for flow. If fluid falls away, shoot fluid levels to establish static column height, and calculate BHP. Alternatively, if there is pressure on the tubing, record SITP.

19) Cycle Omni valve back to circulating position and weight up or cut $CaBr_2$ weight as necessary to establish 300 psi overbalance.

20) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, sized salt (NaCl), or calcium carbonate pill will be considered.

21) Break out pressure gauges, read data, and report all 4 gauges' pressure readings on morning report.

22) Pick up and RIH slowly with screen (2-3/8", 4.7#, NU, J-55 base pipe) and gravel pack assembly as follows:

- SC-1's running tool
- 5-1/2", 20# SC-1 hanger/gravel pack tool assembly with perforated extension
- 1.660" washpipe
- KOIV assembly with ceramic flapper (having differential pressure rating of 2000 psi).
- 200 +- ft of 2-3/8", 4.7#, N-80 NU blank pipe (exact length to be based on location of upper perfs)
- 80 ft of Bakerweld 140 heavy-duty screen (0.012 gauge spacing, based on 20/40 gravel). Bottom 10 ft of screen to be below bottom perf.
- Snap latch seal and locator assembly (to stab into 5-1/2" sump packer) approximately 3 ft long.

Note: Minimize the use of pipe dope on screen assembly's threads.

23) Snap into and out of Baker Model D sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight as directed by Baker serviceman.

Note: Space out workstring to a safe working height on floor prior to snapping into sump packer.

24) Rig up the pumping equipment and test surface lines to 5000 psi (In order to achieve the best control of pump rates and pressures while setting the Baker SC-1 packer, it is advised that the DS cement pump skid on the platform be used during this operation.)

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25) Establish circulation down workstring. Circulate 5 to 10 bbls to clean ball seat in setting tool. Drop packer setting ball and allow it to gravitate to the setting tool. With ball on seat, hydraulically set SC-1 gravelpack packer at direction of Baker serviceman.

26) Test the Baker SC-1 packer by picking up and setting down weight. Locate neutral weight on packer and pressure test annulus to minimum 1500 psi.

Note: Annular pressure will also actuate hydraulic release on the service tools.

27) While holding 500 psi on the annulus, slowly pick up crossover tool until pressure indication is noted. This is the reverse position. Mark tubing at surface.

Note: If crossover tool is not released from the packer , rotate 15 turns to the right to actuate back-up release.

28) Reverse circulate to recover packer setting ball.

29) Shift tool to reverse position. Pump a 4 bbl freshwater spacer (to prevent contamination of $CaBr_2$) and then 1500 gal 15% HCl tubing pickle acid mixture to within 2 joints of the packer (capacity of 3-1/2" tubing to 9,300 ft plus 2-7/8" to 10,500 ft is 3700 gal). Reverse out at maximum rate to well clean tank. Send to production system at a slow enough rate to allow dilution to minimize handling problems at Mandalay.

30) Lower crossover tool to set down desired weight on packer. This is the **Squeeze Position**. Pick up crossover tool 1 +- ft and locate the **Circulating Position**. Mark the string at the surface for these positions.

DATAFRAC PUMPING (Step Rate Test followed by Calibration Test):

- **Have Victory Seahorse tied up to supply water as required during stimulation operations.**
- **S/D to supply enough headsets for driller, toolman, and two TOC representatives.**

31) Shift tool to reverse position. Circulate the following Minifrac fluids to the gravel pack packer in the reverse position. **Expect the same shut-in tubing pressure as that seen directly after perforating.**

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32) Inject the Datafrac as per design to be finalized after the analysis of openhole logs. Once the Datafrac has been performed, a fracture treatment will be optimized as the data directs.

While injecting fluids for Datafrac, maintain casing pressure (to be confirmed with Torch representative), preferably at 2000 psi or more. Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on both the 7-5/8" and 5-1/2" laps).

NOTE: Burst rating of 5-1/2", 20#, N-80 liner is 9190 psi.

Datafrac Fluid requirements:

5000 gals	119 bbls	YF130LG **(XLK 30# gel)** Calibration Test fluid (X-linked)
2860 gals	68 bbls	WF 130 (Linear 30# gel) Step Rate Test fluid
4850 gals	115.5 bbls	WF 130 Displacement fluid

Note: The volumes of fluids may be altered slightly if this would benefit operation of tools and/or pumping, or for a significantly different perforated interval.

Step Rate Test (2 minutes per stage with linear gel) :

1 bpm	2 bbls
2 bpm	4 bbls
3 bpm	6 bbls
4 bpm	8 bbls
6 bpm	12 bbls
8 bpm	16 bbls
10 bpm	20 bbls
Total:	68 bbls

Calibration Test - 119 bbls YF130LG at 10 bpm (11.9 min)
displace with WF 130 down to tools

Shut down and monitor pressure fall off. Do not alter the pressure on the casing or work string.

Notes:

1. Add another Calibration test or step rate test as necessary.

2. The above schedule is only recommended volumes and can be altered as necessary to suit the formation response.

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Name: RW Date: 10/31/13

FRAC-PACK PUMPING:

Section 1: Expected Propped Fracture Schedule

Job Description						
Stage Name	Pump Rate (bbl/min)	Fluid Name	Stage Fluid Vol. (gal)	Gel Conc. (lb/Mgal)	Proppant Type & Mesh	Proppant Conc. (ppa)
PAD	10.0	YF130LG	1000	30	---	0
1.0 ppa	10.0	YF130LG	1600	30	EconoProp 20/40	1.0
3.0 ppa	10.0	YF130LG	700	30	EconoProp 20/40	3.0
4.0 ppa	10.0	YF130LG	1000	30	EconoProp 20/40	4.0
5.0 ppa	10.0	YF130LG	1200	30	EconoProp 20/40	5.0
6.0 ppa	10.0	YF130LG	1200	30	EconoProp 20/40	6.0
7.0 ppa	10.0	YF130LG	1200	30	EconoProp 20/40	7.0
8.0 ppa	10.0	YF130LG	1200	30	EconoProp 20/40	8.0
9.0 ppa	10.0	YF130LG	2000	30	EconoProp 20/40	9.0
10.0 ppa	10.0	YF130LG	2000	30	EconoProp 20/40	10.0
FLUSH	10	WF130	3394	0	---	0

Fluid Totals:		
13100 gal	of	YF130LG
3394 gal	of	WF130

Proppant Totals:		
80,000 lbs	of	EconoProp 20/40

Notes:

1. Maintain casing pressure (to be confirmed with Torch representative), preferably at 2000 psi or more during pumping of the stimpack. ***Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on both the 7-5/8" and 5-1/2" laps).***

2. Sand silo to be loaded with enough excess proppant (+- 5000 lbs excess) so that total proppant amount designed can be pumped at design rates.

3. Rate will be ramped down during flush. Actual rates will be determined after the datafrac.

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4. Pressure limits while reversing must be discussed before pumping starts. Use the following as a reference to hydrostatic pressure that may be encountered.

10.0 ppa slurry has a density of 12.67 ppg
8.0 ppa slurry has a density of 12.06 ppg
6.0 ppa slurry has a density of 11.35 ppg

5. MINIMIZE TIME after shut down to start reverse circulation - no more than 10 minutes. Do NOT overdisplace.

33) If the bleed off after a screen out is fast (possible indication of limited blank fill), do not move to the reverse position until trying to squeeze slurry into the blank section at least once. This must be agreed upon by Baker tool supervisor, the pumping supervisor, and the TOC engineer. Maximum re-stress pressure must be calculated before start of frac.

34) Once a screen out has been achieved, bleed off workstring and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with $CaBr_2$ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of $CaBr_2$ water.

35) If circulation pack is required to fill screen, use the Dowell pump skid and the completion brine.

36) When screen is packed, pull uphole until end of washpipe is 10 ft below Knock-Out Isolation Valve (KOIV). Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize. Slowly pull uphole in one continuous movement until the end of the washpipe is 10 ft above flapper valve.

Note: Do not slack off, as any downward movement while the end of the washpipe moves through the KOIV can damage the flapper and seat.

37) Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

Note: If KOIV does not appear to be holding, apply 200 - 300 psi to assist closing and sealing. If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer (pill material to be decided in discussion with Office).

38) POOH with workstring and LD Baker SC-1 crossover tool and washpipe.

39) PU Baker SB tubing plug and running tool. Plug is to be run *without seals*, and with surge (equalizer) chamber. Make up running tool on bottom joint of Halliburton TCP gun assembly.

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40) Pick up Halliburton TCP guns, Omni valve, 7-5/8", 29.7# Champ III packer to perforate the LP-M interval (estimated 60 ft net) at 12 SPF. Use same charges, and tool assembly as detailed earlier to perforate the N sand. RIH with guns with Baker SB plug on bottom (see attached Halliburton sketch for additional detail).

Note: Fill 3-1/2" tubing with filtered sea water while RIH.

41) Find profile in SC-1 packer by setting down; snap in with SB plug (plug is to protect lower KOIV from perf debris). Pull straight up and shear out to get off with setting tool.

42) Pick up to appropriate depth, getting guns on depth by correlating from SC-1 with pipe tally. (Do not run WL correlation run.)

43) Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Test Halliburton surface flow equipment to 4700 psi. Pressure up tubing to appropriate pressure to provide 500 psi underbalance.

Note: Insure that a calibrated pressure gauge is in the line between the tubing head and the Halliburton manifold to monitor tubing pressure.

44) Detonate guns with drop bar.

45) When guns fire, take fluid influx to clean up perf debris, but do not surface the fluid (3-1/2", 9.3# capacity to 9,300 ft is 89 bbl). Monitor well with bubble bucket.

46) Reverse out tubing through Omni valve with 13.3 ppg $CaBr_2$ brine.

47) Cycle Omni valve to well test position and check for flow. If fluid falls away, shoot fluid levels to establish static column height, and calculate BHP. Alternatively, if there is pressure on the tubing, record SITP.

48) Cycle Omni valve back to circulating position and weight up or cut $CaBr_2$ weight as necessary to establish 200-300 psi overbalance.

49) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, sized salt (NaCl), or calcium carbonate pill will be considered.

50) RIH with Baker SB retrieving tool on workstring. Circulate perf debris off SB plug retrieving neck *and all the way out to surface.* Set down over SB plug fishing neck; wait for any pressure to equalize from below. Pull plug with straight pickup and POOH.

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51) Pick up and RIH slowly with screen (2-7/8", 6.5#, NU, J-55 base pipe) and gravel pack assembly as follows:

SC-1's running tool
5-1/2", 20# SC-1 tool assembly with perforated extension
1.660" washpipe
15 +- ft long 1.900" extension below tailpipe seal (to break the lower KOIV)
KOIV assembly with ceramic flapper (having differential pressure rating of 2000 +- psi).
30 +-ft of 2-3/8", 4.7#, N-80 NU blank pipe (adjust if 3rd zone planned to be perfed)
80 ft of Bakerweld 140 heavy-duty screen (0.012 gauge spacing, based on 20/40 gravel);
(Bottom 10 ft of screen to be below bottom perf.)
2-7/8" seal bore receptacle
Snap latch seal and locator assembly (to stab into lower 5-1/2" SC-1)

Note: Minimize the use of pipe dope on screen assembly's threads.

52) Snap into and out of lower Baker SC-1 packer to confirm gravel pack assembly is on depth. Snap back into packer and set down desired weight as directed by Baker serviceman.

Notes:

1. Space out workstring to a safe working height on floor prior to snapping into SC-1.

2. The 15 +-ft extension below the tailpipe seal will break the lower KOIV when the snap latch is landed in the SC-1. This will expose column of tubing fluid to lower, fracpacked zone until the gravelpack tool is set and changed over to the squeeze position.

53) Repeat stimulation procedures for this "M" interval.

54) RIH with 400 series electrical submergible pump (manufacturer and exact design to be supplied), 2-7/8" tubing to directly above 5-1/2" liner top, 4-1/2" x 2-7/8" external sensing Pruett chamber, "Wye" tool (check valve installed on short side), 2-7/8" tubing to ~500', Halliburton RDH packer with Wellstar SCS safety system, and 2-7/8" tubing to wellhead. All tubing will be 6.5#, EUE, N-80. (NOTE: This 2-7/8" is good for 145,000# tension when new - ensure string weight after drag added is less than this rating.) Banded to tubing will be #2 cable (pump to surface), ¼" chemical injection line (pump to surface), 1/8" capillary tubing (Pruett chamber to surface), and SCSSV control line (packer to surface).

Note: Do not set packer.

55) Land tubing in hanger. Pressure test tubing hanger. Set BPV. Hookup SCSSV hydraulic line.

56) ND BOPE. NU and test tree.

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57) Rig up pumps to backside and displace annular $CaBr_2$ brine with filtered sea water.

Note: Do not exceed either liner lap's test pressure with pump pressure. Pump pressure will be approximately 1940 psi (difference between 13.3 and 8.7 ppg at 8100 ft TVD.)

58) Off load $CaBr_2$ brine recovered from annulus and send to shore.

59) Begin pumping well per engineering direction, with low initial drawdown. Set packer within 48 hours. Keep well on platform hotsheet until relieved.

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Name: KW Date: 10/31/13

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

DISTRICT
Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28 WBC1	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER		COM/POW
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER	
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION			
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X		
SUBSEQUENT REPORT X	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT			

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3451'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached Well Summary, history and schematic for detailed final package.

CONFIDENTIAL

RECEIVED
APR 25 1998
MINERALS MANAGEMENT SERVICE
AMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980422

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE Asst District Supervisor

DATE 6/4/98

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 03/16/98 to 03/22/98

Week No. 15

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: **03/21/98**

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: n/a
15. Last BOP Test Date: 3/17/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RD surface equip. Install BPV and ND BOPE stack & riser. NU xmas tree, tested void to 5000 psi for 1/2 hour, set stinger plug in tree, tested tree to 5000 psi for 1/2 hour. RU Dowell tbg. **Test BOPE 250# low and 5000# high on 3/17/98**. RIH w/1 1/4" coiled tbg, jet @ 150 scf to 500'. Cont. RIH to 1000'. Jet well, rec. total of 6.6 bbls (oil-gas/water). Jet well @ 1500', 1800' & 2000'. Well started to flow at 0100 hrs. Flow well back until 0400 hrs. Attempt to keep rate @ 100 bpd. Jet and flow 58 bbls back in 9 hours (avg. 6.4 bph, 155 bpd). POOH w/coiled tbg. Monitor well. All seems o.k. **Release rig from S-28 @ 2400 hrs on 3/21/98.**

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: KW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 03/09/98 to 03/15/98

Week No. 14

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 3/1/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RIH w/GP assembly. Run all of 2 3/8" tbg and 20 stds of 3 1/2" tbg. Rabbit tbg in hole to 13971'. Drop ball and set pkr @ 13805'. Pressure test all - o.k. Pump Dowell's Stim-Pac for the "M" interval. Monitor tbg & csg press. Underbalance between tbg & csg. Well appears to be static. Rev. circ. and shut pump down. POOH w/tbg & csg. PU and run production string - 31 jts of 2 3/8" 4.7# N-80 EUE tbg, 12288.68" Halliburton 2 7/8" LX A flapper SSSV serial #171-LL-5, 20.01'. Test valve to 5000 psi for 1/2 hour - o.k. Displace 13 ppg Bromide w/6% KCL water on annulus down to 12281'. Left 30 bbls Bromide in annulus. Cont. to displace 6% KCL water w/13# Bromide on backside. Landed hanger, backed out landing jts. PU new w/pup jts. Snapped out of SC-1 pkr. Displace 13# Bromide w/6% KCL water + inhibitor & oxygen scavenger on backside to 12281'. Left 30 bbls on backside. Landed hanger in well head. Tested stinger seals and tbg to 1000 psi - o.k.
Received verbal approval for variance on BOPE test until 1200 hrs on 3/15/98 provided that Xmas tree has not been installed by Mr. Dave Gebaur w/MMS. Variance granted @ 3/14/98 2030 hrs. Received verbal approval for BOPE extension till bromide displacement w/KCL water has been completed, tbg hanger landed, ND, & tree installed f/Rishi Tyagi w/MMS @ 2300 hrs on 3/14/98.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: KW Date: 10/31/13
Week #13

WEEKLY ACTIVITY REPORT
Period: 03/02/98 to 03/08/98

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 3/1/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Pump 40 bbls Hi VIS pill and follow w/13.3# caustic bromide water. Pumped 441 bbls, open annular and cont. to displace seawater w/13.3# cal. bro. water @ 4.4 bpm (750#). Circ. out gel pill and check NTU's on bro. water. Had 200+ after 66 additional bbls. Pump NTU 15, and remained 15 to 16. Cont. to circ. RIH and test **BOPE per MMS regs on 3/1/98.** POOH. Prep and RIH w/Schlumberger logging tools. RIH w/ATC & CCL to 11500' - tool failed. POOH. RIH w/Gamma Ray and CCL loggers f/14370'-14000'. Tied in RA tag w/Gamma Ray and made a 6' correction to 14424'. Re-run log to verify depth. POOH. MU Howco 3 3/8" perf gun w/12 spf. RIH w/perf gun and to 14424'. Tag sump pkr. Space out w/**btm shot @ 14409' and top shot @ 14349'.** Champ pkr and set @ 12805'. Guns fired. POOH. Lay out Baker 20/40 gravel pack screen, SC-1 pckr and MU assembly. RIH w/GP assembly to 12800' and prep for frac job. Pump frac pack, displaced w/70 bbls flush, got sand out & pressure up. Bleed down and circ. Flush clean. POOH w/5 stds. Took 22 bbls to fill hole. Monitor well and POOH. PU Howco perf gun assembly and TIH. Set pkr plug in Baker SC-1 pkr @ 13973'. Set 7" pkr @ 12733'. Pressure up and **fire guns f/13896' to 13956' w/12 spf.** Monitor well and POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 02/23/98 to 03/01/98

Week No. 12

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RIH w/4.250" bit to top of liner @ 12846' and cont. in hole to 14525'. Circ. mud out of 5" liner. Pump 22 bbls Gel Sweep until fluid clean. POOH. RIH w/5", 7" & 9.625" csg scrapers & brushing tools to 14518'. M/P and pump 50 bbls caustic pill - circ. POOH. TIH and test tbg @ 7500 psi. **Note: Received verbal approval from Ralph Vasqez @ 0830 hrs. on 2/28/98 to extend BOP test until coming out of hole after changing over fluid.** Break circ. and wash to btm @ 14525' no fill. Start circ. w/FSW following with 75 bbls HI VIS Gel pill, 5 gpb Safe VIS E, 100 bbls of caustic pill mixed w/2 ppb caustic, follow w/75 bbls of FSW, follow w/100 bbls caustic pill mixed w/2 ppb of caustic and 3 drums of rinse aid, follow w/ 75 bbls of FSW, follow s/200 bbl caustic pill mixed w/2 ppb of caustic. Circ. until clean NTU's 36.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/16/98 to 02/22/98

Releasable to public
Name: KW Date: 10/31/13

Week No. 11

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Pressure test casing @ 2000 psi - o.k. Pressure test down tbg. to test 7" & 5" liner LAP @ 2000 psi - would blead down to 1800 psi in 10 min. Unseat pkr and POOH. CO pack off insert f/12875' to 13105'. Wash & rotate f/13105' to 14525'. Circ. hole clean & pump pill. POOH. RIH w/5.161" flutted mill and tag @ 12857'. Polish tie back sleeve & CBU. POOH. RIH w/tie back pkr. Break circ. & set tie back in place. PT seals @ 1000 psi. Set pkr TOP @ 12846'. Close rams & PT tie back to 2000 psi for 30 min. CBU & pump pill. POOH. Run Schlumberger USIT-CBT-GR-CCL from 14520' to 13400'. POOH. **Note: Notified MMS at 1130 hrs. that we would be disposing of 14.2# mud. Rishi Tyagi gave approval.** Pump 44 bbls of HI VIS Gel Sweep and circ. until clean. POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 02/09/98 to 02/15/98

Week No. 10

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Logged Platform Express f/14580' to 13397' on 2/10/98. POOH. W&R f/13397' to 14610'. Circ. for casing. **Began completion on 02/11/98**. Prepare to run 5" liner. Received verbal approval from MMS to hold off on BOPE test until 5" liner has been run and cemented. Run 5" 15# L-80 521 new liner w/135 sks Class "G" + 1% CD-32, 1.2% FL-1.2 + 2% SR-30 & 15.8 ppg - CIP 1010 hrs. on 2/12/98. POOH and pump pill. MU RR bit #9 and RIH w/ 3.5" DP. RIH to TOL @ 12860'. Attempt to PT liner lap - no good. 300 psi loss in 20 min. Pump pill. MU and run test plug. PT all rams, safety valves, C&K valves & choke manifold 250 low to 4700 high. Pull test plug and MU test string. PT lower pipe rams same. PT annular 250 low and 3500 high. All tests good. MU 7", 26# RTTS and RIH. RU and set packer @ 6492'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 02/02/98 to 02/08/98

Week No. 09

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Received verbal approval from Rishi Tyagi at MMS for new TD on 02/05/98.
Drill f/13400' to 13405' and circulate. Perform P.I.T. w/13.5 ppg & TVD of csg shoe @ 7732 & 825 psi = 15.6 ppg EMW. Cont. drilling f/13405' to 14003'. Circ.and wait on weather (high winds). Cont. drilling f/14003' to TD @ 14610'. Circ. and POOH to shoe @ 13397'. Prepare to log. TIH w/logging tools to 13321' and ran T.P. Log f/13338' to 14580'. Logging going in hole. Logging out of hole f/14580' w/T.P. Logs.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/17

WEEKLY ACTIVITY REPORT
Period: 01/26/98 to 02/01/98

Week No. 08

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 12.2
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

PU and set cast iron bridge plug @ 7082'. POOH to 6364'. Test lines to 3000 psi - 625.5 bpm. POOH. RIH w/ 9.625 cement retainer and set @ 6360'. Test casing above retainer to 2500 psi. Pump 25 sks Class "G" w/20 ghs CD-31L + 50 ghs FL-33L + 2 ghs R-21L + 2 ghs FP-6L to top of liner. Total cement in liner lap 12.5 bbls. Final pressure @ 1020 psi. **Estimated top of cement @ 6346'. CIP @ 0555 hrs on 1/27/98.** Pump slug & POOH. NU 13 5/8" 3000X 13 5/8" W.H. w/5000 HUB. Pressure test seals to 3000 psi. NU riser & BOP's. Install diverter. Test BOPE as per MMS regulations - 250 low & 4700 high on 1/28/98. Pressure test 5" & 3.5" annular f/250 low & 3000 high. CO cement and retainer f/6263' to top of liner @ 6393'. Circ. RIH w/BHA and tag @ 6260'. Wash to 6292'. CO cement f/6392' to 7080' (bull plug). Mill BP and chase f/7395' to 12679'. CO cement f/12679' to 12848' & mill on BP. Pump pill. CO cement f/12850 to 12905' - gas detected. Drill cement f/12905' to13371'. Test casing & liner lap @ 2500 psi for 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RV Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 01/19/98 to 01/25/98

Week No. 07

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'

7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Finish underreaming. Prep to run 7" 26# P110 Hyd. new csg. Mix and wt up Ultra Flush II and pump M/P 940 sks lead cmt Class "G" 12.5 wt w/2% sodium metasilicate + .8% FL-62; + .5% CD-32 + 2 ghs FP-12L, followed w/158 sks Class "G" mixed @ 15.8 w/20 ghs CD-31L; 45 ghs FL-33L; 2 ghs FP-12L. Displaced cmt w/11.9 mud to landing collar @ 13305'. Bumped plug w/2550/600 over displacement pressure. Bled to 0 psi. CIP @ 1120 hrs. on 01/22/98. RIH and tag cmt @ 3405'. Circ. Hole clean. RIH to 5442' and circ. Same. Drill cmt f/6382' to TOL @ 6392'. Circ. RU BJ and test lines to 3000 psi. MU and set test plug. Test 3.5 DP on variable rams. Test 3.5 TIW & IBOP to 3000h/250l. Test hydrill same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 01/12/98 to 01/18/98

Week No. 06

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Bit stacking up and unable to slide @ 12280'. Add .6% by volume S.O. lube, slide drill & rotate to 12543'. Pull to 9843'. Tight hole f/12543'-10920'. Add nut plug to enhance sliding. Pulsar on MWD failed @ 12566'. POOH to change out MWD. Move heavy wall to top of string, RIH and drill ahead to 12882'. WB indicating possible over balance. Reduce mud wt. To 11.88 ppg. Wiper trip @ 13183'. Pulled tight and had to pump stands out to 12560'. Safety ream back to bottom. Drill to 13210' and short trip to 10050' (hole much improved). **Continued drilling to 13400' (TD)**. Circ. Btms up. LD directional drilling tools & RIH w/9 7/8" underreamer. Underream to 8724'. POOH & **test BOPE per MMS specs. On 1/16/98.** Cont. RIH, washed last 90' to bottom. Underream to 8912'. Pull to shoe @ 6928'. Continue to Underream to 10519' at report time.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 01/05/98 to 01/11/98

Week No. 05

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 12300'
14. Mud Weight: 12
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue to survey and drill from 10260' to 12300'. Wash & ream the same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 12/29/97 to 01/04/98

Week No. 04

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 10260'
14. Mud Weight: 10.8
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue drilling f/7088' to 9996'. Pressure test BOPE per MMS specifications on 1/2/98. RIH w/114 jts 5" 19.5 G-105 D.P. to 4797' and continue to shoe @ 6903'. RIH to 9881' and W&R to 9996'. (Calibrated Baker depth sensor) Drill f/9996' to 10260.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: KW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 12/22/97 to 12/28/97

Week No. 03

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 7088'
14. Mud Weight: 9.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue milling window f/6966' to 6978'. Under-reamed open hole to 15" f/6928' to 6978'. RIH w/mule shoe on btm of 15 jts 2 7/8" tbg and 5" D.P. to 6984'. Circulate & pretreat mud. RU cementers (for kick off plug) and equalized 103 ft3 (106 sks) of 17.2 ppg, Class "G" slurry w/32 gph D-316, 7 gph R-21L and 3 gph FP-6L f/6984' to 6833' CIP @ 1450 hrs. 12/22/97. POOH and wait on cement. Tag cement stringers f/6571' to 6660', clean out f/6660' to 6978' (no kick off plug). RIH w/2 7/8" tbg and DP to 6950' - tbg plugged - attempt to unplug was no good. POOH. Tbg plugged w/metal shavings. LD & CO tbg. RU BJ and pressure test lines to 2500 psi. BJ M&P 106 sks (103 ft^3) Class "G" w/30 ghs CD-31L, 7 ghs R-21L, 2 ghs defoamer. CIP @ 1815 hrs (for kick off plug). RIH w/bit & tag hard cement @ 6800'. CO cmt f/6800' to 6928' & circ. **NOTE: Torch obtained verbal approval 12/26/97 from Ralph Vasquez w/MMS to continue operations w/3000 psi W.H. until 7" csg PT**. RIH and tag TOC @ 6928'. CO cmt f/6928' to 6930'. Slide f/6930' to 6988'. Perform LOT - 9.6 ppg/1720 psi. Drill f/6988' to 7088'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 12/15/97 to 12/21/97

Week No. 02

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 6966'
14. Mud Weight: 10.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Recovered total of 77 jts. of tbg while fishing (top of fish @ 7473'). RIH w/bit & scraper. Tag top of fish @ 7473' and pull bit to 7470'. Circulate and condition mud. MU 9 5/8" x 47# mechanical set drillable bridge plug on 15 jts of 2 7/8" tbg. **Set BP @ 7470' and test @ 1500 psi for 5 minutes - o.k. RU and test cement line - o.k. Mixed 90 ft^3 (78 sks) of Class "G" w/20 ghs CP-311, 4 ghs R-211 and 2 ghs FP-6 f/7470' to 7251'. CIP @ 2129 hrs 12/15/97.** POOH laying down 2 7/8" tbg tail. Prep to mill window. Set test plug (12") and test BOPE - 250L/3000H on 12/19/97. RIH w/section mill on 5" D.P. tag top of cement @ 7139'. **Mill window in 9 5/8" csg. F/6928' to 6934' on 12/19/97 @ 2400 hrs.** Continued milling to 6966', pumping Hi-Vis Sweep every 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 12/08/97 to 12/14/97

Week No. 01

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. Plug date: N/A
12. TD Date: N/A
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: N/A
14. Mud Weight: 10.1
15. Last BOP Test Date: 12/8/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

MIRU on 12/8/97. Full test of BOPE on 12/8/97. Displace wellbore with kill mud. Pull short string tbg, dump riser to backout hanger screws, & attempt to pull long string tbg. Tbg parted at 1488'. MU fishing tools. Unable to run dialog due to scale inside tbg. Cont. fishing operations recovering 158 joints to date.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

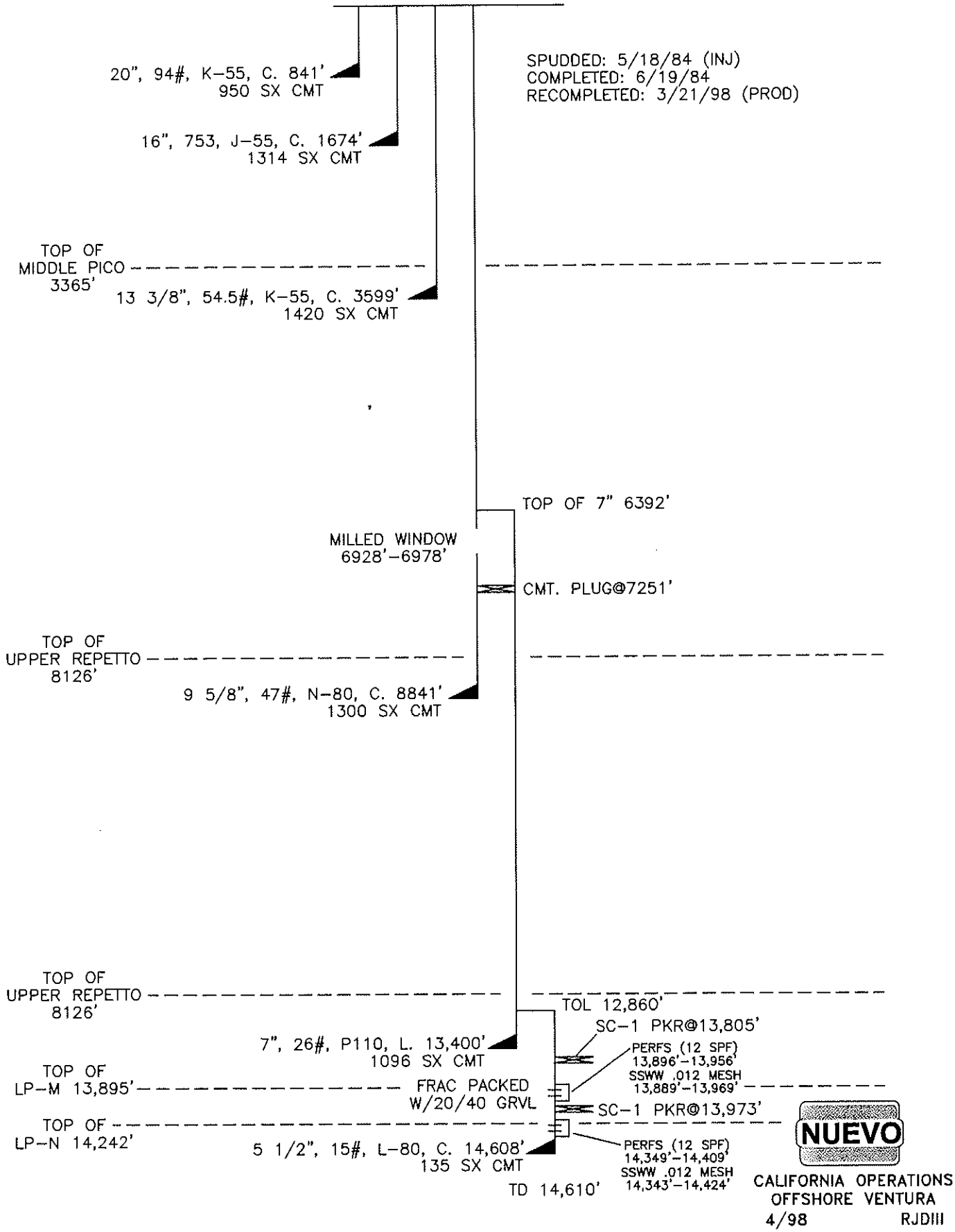
Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/21/

SANTA CLARA FIELD
Platform Gilda
Well S-28



Releasable to public Name RW Date 10-31-13 CDOS

MINERALS MANAGEMENT SERVICE — Submit original plus three copies w. one copy marked "Public Information" — OMB No. 1010-0045

SUNDRY NOTICES AND REPORTS ON WELL — Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-3112061500 - S/01	S-61	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	~~4860~~ 4861 SB	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER		
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER		
APPROVAL X	ARTIFICIAL LIFT	X	MULTICOMPLETION		RECOMPLETION				COM/WIW
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X			
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT				

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041696 Y=747982 S0352E07902 SLS	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See Attached Information

RECEIVED

MAR 12 1998

MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	980311

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

*All revisions are as per telecons w/Sabrina Miller. DATE 4/17/98

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

Releasable to public
Name: RW Date: 10-31-13

OSC-P0216
PLATFORM GILDA
WELL S-61 Redrill
LOCATION OF WELL

AT SURFACE:	
Lambert Cal 6 Coordinates	X = 1041697.8 Y = 748001.7
KICKOFF POINT:	6045.7' TVD / 6850' MD
Lambert Cal 6 Coordinates	X = 1042189.57 Y = 750784.75
TARGET NO. 1: LP-M SAND	8106.5' TVD / 10144' MD 5023.6' N and 564.10' W of the surface location
Lambert Cal 6 Coordinates	X = 1041286.75 Y = 753040.71
BOTTOM HOLE LOCATION:	8565.7' TVD / 10744' MD 5409.6' N and 575.8' W of the surface location.
Lambert Cal 6 Coordinates	X = 101286.78 Y = 753426.91

Releasable to public
Name: RW Date: 10-31-13

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-61 Redrill (slot #23)
February 26, 1998

Proposed TD: 8566' TVD / 10744' MD

Surface Location: Slot No. 23, X= 1041697.8 Y= 748001.7

Subsurface Location: 6893 ft. FNL and 7527 ft. FWL of OCS-P0215 at 8566' TVD.
X= 1041287 Y=753427

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	MD (ft)	TVD (ft)	SS (ft)	Est Pressure (psi)
LP-B	7432	6502	6190	3100-3200
LP-D	8734	7217	6905	3100-3200
LP-F	9162	7447	7135	3100-3200
LP-H	9389	7577	7265	3100-3200
LP-I	9504	7652	7340	3100-3200
LP-K	9697	7789	7477	4500-5000
LP-L	9970	7997	7685	4500-5000
LP-M	10113	8107	7795	4500-5000
LP-N	10414	8337	8025	4500-5000
TD	10744	8566	8254	4500-5000

Existing Casing Program:

Casing	Setting Depth (ft. MD)
20", 106#, Grd B, Vetco RL-4S	0'-715'
16", 75#, X-56, Vetco VP3	0'- 1745'
13-3/8', 68#, K-55, ASL	0'- 5071'
9-5/8", 47#, N-80, Buttress	0'- 8841'
7", 26#, S-95 Buttress	7006'- 10398'
3-1/2" , 9.3#, L-80	9023'- 10032

Proposed Casing Program:

Casing	Setting Depth (ft. MD)
7-5/8", 29.7#, N-80, Hydril 521	6350'- 9678'
5-1/2", 17#, S-95 Hydril 521	9400'- 10744'
2-7/8" SSWR screen liner, packed w/ 20-40 sd.	10000'- 10744'

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Name: RW Date: 10-31-13

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 and TESCO portable top drive over slot #23.

2. RU Wireline unit. Pull "PX" plug at 6973 MD'and install "PXN" plug at 9149' MD in 2-7/8" tubing string.

3. RU on 2-7/8" tubing string. Fill casing annulus. Circulate well with seawater down 2-7/8" tubing taking returns through production facilities. Pressure test casing and packer plug to 2500 psi for 30 minutes, using rig pump. Bleed off pressure and monitor well for flow.

4. Install BPV and ND production tree. Install riser, 13-5/8", 5000 psi single gate and double gate blowout preventers, 13-5/8", 5000 psi annular blowout preventer, diverter, bell nipple, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Test the blind rams and casing to 250 psi and 5000 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

5. Pull production equipment.

6. RIH with OE 2-7/8" tubing to top of FB-1 at 9123' MD.

7. RU Dowell Services. Test pump, lines and equipment to 3,000 psi. Equalize a 200 lineal foot Class "G" cement plug on top FB-1 packer at 9123' MD. PU and reverse tubing clean. POH. RIH and tag TOC. MMS to witness tagging TOC. POH .

Table 1: Abandonment Cement

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	50	15.8	1.17

8. MU and RIH BHA No. 1with one trip window milling system. Orient and set whipstock. Shear off whipstock and cut window from ~6850' to ~6890' (505). Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program and table below for fluid properties for window milling section.

Table 2: Whipstock Fluid

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
Gel/Seawater	8.5- 10	28-50	N/A	0-15	0-15	0-6	<6

Releasable to public
Name: RW Date: 10-31-13

Table 3 : Whipstock Assembly BHA No. 1

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection Bottom	Connection Top
Whipstock Anchor			7.625				
Whipstock			8.0				
Starting Mill			8.0				
Flex Joint	10						
Lower Watermellon							
Upper Watermellon							
Orienting Sub							
HWDP	60		5.0	3.0	6.50	4 ½ IF Pin	4 ½ IF Box
Bumper Sub	11		6.50	2.75	6.50	4 ½ IF Pin	4 ½ IF Box
HWDP	630		5.0	3	6.50	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#			5.0	4.276	6.50	4 ½ IF Pin	4 ½ IF Box

9. MU and RIH with 8-1/2" bit and steerable directional assembly BHA No. 2. Directional drill from KOP of 6850'MD/6045' TVD to 6990' MD/6050' TVD as per BHI directional program. Conduct pressure integrity test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. RU Petrolog mudloggers, John Williams. Change hole over to Glycol Enhanced Mud system. Continue to directionally drill to 7090' MD. Circ hole clean and POH to pick up SRWD (Steerable Reaming While Drilling Tool).

Table 4: Directional Drilling BHA No. 2 for 8-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection Bottom	Connection Top
Bit	1	1	8.5					4 ½ R Pin
Motor	26	27	8.375	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	32	8.375	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
CSNM DP	10	42		4.5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2	44		6.75	2.875		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	40	84		6.75			4 ½ IF Box	4 ½ IF Box
NMCS DP	31	115		5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	385		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	420		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1650		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5440	7090		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

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Name: RW Date: 10-31-13

Table 5: Drilling Fluid GEM

GEM (oil-based)	9.6-12.5	40-50	4-7	15-20	10-30	8-15	<6

10. MU and RIH with SRWD and steerable directional drilling assembly BHA No. 3. Build angle and turn at 5 deg/100 ft. until 62.41 degrees inclination is reached at 7782' MD/6703' TVD. Hold angle at 62.41 degrees until reaching drop/turn point at 8690' MD/7124' TVD. Drop and turn well as per BHI directional plan until reaching 7-5/8" casing point at 9678' MD/7750' TVD (top of LP-K interval). Circulate and condition mud and hole for running casing. Make wiper trips every 24 hours or sooner if necessary. This point would be a good time to SLM out of hole.

Table 6 : SRWD BHA No.3

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection Bottom	Connection Top
Bit SRWD	1	1	8.5					4 ½ R Pin
Motor M1XL	26	27	8.375	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	32	8.375	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
CSNM DP	10	42		4.5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2	44		6.75	2.875		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	40	84		6.75			4 ½ IF Box	4 ½ IF Box
Nortrack Stab	5	115	8.375	6.75	2.875		4 ½ IF Pin	4 ½ IF Box
NMCS DP	31	146		5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	416		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	451		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1681		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7997	9678		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

NOTE: If bottom turn and drop is not achievable with SRWD tool, POH and RIH with 8-1/2" tri-cone drill bit to finish drop and turn. Then pick up conventional underreamer as per BHA No. 4 in Table 7 below and open hole to 9-7/8" prior to running casing.

Table 7: Underreaming BHA No. 4 for 9-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	9.875					4 ½ R Pin
Roller reamer	5	11	8.25	6.75			4 ½ R Box	4 ½ IF Box
HWDP	270	281		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	316		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1546		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	8132	9678		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

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11. Rig up the casing crew. MU and RIH with approximately 3300 ft. of 7-5/8", 29.7#, S95, Hydril 521 flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 7-5/8" X 9-5/8" rotating hydraulic liner hanger and 10 ft.tie back receptacle to 9678' MD/ 7750' TVD'.

    a) Use a auto fill float shoe and float collar 2 joints above the shoe.

    b) Place a slip-on rigid centralizer 10' above the shoe and then on every collar to the 9-5/8" casing. Use rigid centalizers in 7-5/8" x 9-5/8" liner lap.

Table 8: Casing Program for 7⅝" (SJS)

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe	2.10	2.10			7.625		Hyd 521 Box
1 Jt. 7-5/8" casing	40	42.1	7 5/2"		7.625	Hyd 511 Pin	Hyd 521 Box
Float Collar"	2.2	44.3	7	3	7.625	Hyd 511 Pin	Hyd 511 Box
1 Jt. 7-5/8" casing	40	84.3	7 5/2"		7.625	Hyd 511 Pin	Hyd 511 Box
Landing Collar"	1.8	86.1				Hyd 511 Pin	Hyd 511 Box
Jt. 7-5/8" casing	3396	3482.1	7 5/2"		7.625	Hyd 511 Pin	Hyd 511 Box
Hanger	5.0	3487.1				Hyd 511 Pin	Hyd 511 Box
Setting Adapter,	3.0	3490.1					
Tie Back	10	3500.1					
Jars, Dailey	35	3535.1	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	5035.1	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	4643	9678.1	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 9: 7⅝" Casing Properties (SJS)

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
7-5/8	29.7	S-95	HYD 521	8,180	7,150	811,000	673,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum (ft-lb)	Conn. Yield Torque (ft-lb)
8,400	9,660	65,000

12. Rig up cementers and cement the 7-5/8" casing as follows:

13. Pump 20 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg. Mix and pump 284 sacks of lead cement (12.5 ppg) followed by 116 sacks of tail cement (15.8 ppg). Preliminary volumes base on 25% excess cement in the open hole. Displace with 182 barrels drilling fluid.

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Table 10: Cement for 5½" Casing SDS

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	284	12.5	2.09
"G" + additives	116	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

14. MU and RIH with 8 1/2" bit, 3 6-1/2" DC's and 5" DP, BHA No. 5. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test liner top to 2500 psig for 30 minutes. POH.

15. MU and RIH with 6-1/2" bit, 3 4-3/4" DC's, 3-1/2" DP and 5" DP, BHA No. 6. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig. Squeeze liner lap if necessary.

16. Increase mud weight to 13.5ppg before drilling out casing shoe. Drill out float shoe and 10 ft of new formation. Perform a pressure integrity test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

Table 11: Drilling Fluid for 6-1/8" Hole Section

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
GEM (glycol)	13.5-14.5	40-50	4-7	10-20	10-30	9-15	4-6

17. MU and RIH with directional assembly, BHA No. 7. Directionally drill from 7-5/8" casing shoe at 9678' MD/ 7750' TVD to total depth of 10744' MD/ 8566' TVD as per BHI directional program. Circulate and condition mud and hole for logging.

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Name: RW Date: 10-31-13

Table 12: Directional Drilling BHA No. 7 for 6-1/8" Hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.5					3 ½ R Pin
Motor, M1C	19	20	6.25	4.75			3 ½ R Box	3 ½ IF Box
Stabilizer	4.5	24.5	6.25	4.75	2.25		3 ½ IF Pin	3 ½ IF Box
NM DC	15	39.5		4.75	2.687	4.75	3 ½ IF Pin	3 ½ IF Box
NMCS DP	30	69.5		4.75	2.75		3 ½ IF Pin	3 ½ IF Pin
Hangoff Sub	4	73.5		4.75	2.75	4.75	3 ½ IF Box	3 ½ IF Box
HWDP	270	343.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	378.5		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	1008.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	837	1845.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	1848.5		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	8896	10744.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

18. Rig up Schlumberger loggers. Notify David White, Nuevo Geologist, ar 805-934-8216 before logging Run DIL-GR, CNL/DEN, DPS, FMI, CMR. From 9678' to 10744'. POH RD loggers.

19. MU and RIH with 6-1/2" bit, BHA No. 8, to TD of 10744' MD. Circulate and condition mud for running casing. POH.

Table 13: Underreaming BHA No. 8

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	6.5					3 ½ R Pin
Roller reamer	5	11	6.5	6.5			3 ½ R Box	3 ½ IF Box
HWDP	270	281		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	316		4.75	2.25	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	946		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP 15.50#G	3300	4246	3.5	3.5	2.602	4.75	3 ½ IF Pin	3 ½ IF Box
Cross over	3	4249	5	5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6495	10744		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

20. Rig up the casing crew. MU and RIH with approximately 1500 ft. of 5-1/2", 17#, S95, flush joint casing with float shoe, landing collar/float collar placed 2 joint from bottom, 5-1/2" X 7-5/8" hydraulic liner hanger and tie back receptacle to 10744' MD/ 8566' TVD.

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5½

Table 14: Casing Program for 5½" Liner

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe	2.10	2.10			5		Hyd 521 Box
1 Jt. 5" casing	40	42.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Float Collar"	2.2	44.3	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5-1/2" casing	40	84.3	5 ½"	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Landing Collar	1.8	86.1	5		5	Hyd 521 Pin	Hyd 521 Box
5-1/2" casing	1100	1186.1	5½"	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Hanger	5.0	1191.1	6.18	5.25		Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	1194.1	5.82	5.0			
Tie Back	6.25	1200.35	5.75	5.0			
Jars, Dailey	35	1235.35	4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	900	2135.35	3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G-105	3528	5663.35	3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	5666.35	5	4.276	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G-105	5078	10744.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 15: Casing Properties for 5½". (5½)

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
5-1/2	17	S-95	HYD 521	9,190	8,580	471,000	385,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum(ft-lb)	Conn. Yield Torque (ft-lb)
5,200	5,980	28,500

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every joint of the 7⅝" casing. Use rigid centalizers in 7⅝" x 5½" liner lap.

(5½)

21. Rig up cementers and cement the 5" casing as follows:

A) Pump 10 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 147 sacks of Class "G" cement (15.8 ppg). Actual volume should be based on the open hole caliper log.

Table 16: Cement for 5" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	147	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

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22. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, HWDP 3-1/2" and 5" DP. RIH and drill out cement to top of 5-1/2" liner. Circulate hole clean. Close pipe rams and pressure test 5" liner lap to 2500 psig.. POH.

Table 17: Liner Lap Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body		Tool Joint OD (in)	Connection	
				OD (in)	ID (in)			
Bit	1	1	6.125					2 3/8 R Pin
Bit Sub	2.5	3.5		4.75	2.5		2 3/8 R Box	3 ½ IF Box
DC	90	93.5		4.75			3 ½ IF Pin	3 ½ IF Box
HWDP	900	993.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	3194	4187.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	4190.5		5	2.5	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6553.5	10744		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

23. MU and RIH with 4-1/8" bit, 3 3-1/8" DC's, 2-7/8" DP, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Squeeze cement liner lap if necessary. Re-test lap POH LD drill pipe.

Table 18: Liner Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body		Tool Joint OD (in)	Connection	
				OD (in)	ID (in)			
Bit	1	1	4.125					2 3/8 R Pin
Bit Sub	2.5	3.5		3.5	1.5		2 3/8 R Box	NC26 Box
DC	90	93.5		3.5	1.5		NC26 Pin	NC26 Box
DP, 6.65#, G	1200	1293.5		2.375	2.0625	3.125	NC26 Pin	NC26 Box
Crossover	2.5	1296		3.5			NC26 Pin	3 ½ IF Box
DP, 15.50#, G	3194	4490		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	4493		5		5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6251	10744		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

32. Release rig to production department for completion.

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TORCH OPERATING COMPANY
Santa Clara Field, Offshore California
OCS-P-0216
Platform Gilda
Well # S-61
COMPLETION PROCEDURE

PROCEDURE SUMMARY:

A) Run WSO on 5-1/2" lap, changeover to seawater, log, changeover to 13.3 ppg $CaBr_2$ brine.

B) TCP 60 ft of perfs in LP-N with 500 psi underbalance in 10600 to 10700 ft range

C) Run 80 ft of 2-7/8" wire wrapped stainless screen, set, and fracpack N sand.

D) TCP 60 ft of perfs in LP-M with 500 psi underbalance in 13900 to 14000 ft range.

E) Run 80 ft of 2-7/8" wirewrapped stainless screen, stack on top of first screen, and fracpack M.

F) Put on production as flowing, screened, and gravel packed LP-M, N oil producer.

Tubular Capacities

	Size	Interval	Wt	ID	Drift	Bbl/ft	Hole Vol (bbl)
Cond. Csg	20"	0-715'	106.5#	19.000"	18.812"	0.3506	---
Surf. Csg	16"	400-1745'	75.0	15.124"	14.936"	0.2222	---
Inter. Csg	13-3/8"	0-3793'	68.0	12.415"	12.259"	0.1497	---
Prod. Csg	9-5/8"	0-6850'	47.0	8.681"	8.525"	0.0732	479*
Inter. Liner	7-5/8"	6550-10050'	29.7	6.875"	6.750"	0.0459	131*
Prod. Liner	5-1/2"	9413-10713'	~~20.0~~ 17.0 (5.5)	4.778"	4.653"	0.0221	29*
							639* bbl

NOTE: The 7" and 5" liner depths shown above are PLANNED.
* To expected lap top of next liner.

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PROCEDURE:

1) NU 5000# BOEs with variable rams. Change lower pipe rams to close against production tubing. Pressure test BOEs to MMS specifications.

2) Lay down drill pipe out of derrick. Pick up 1300 ft of 2-7/8", 6.5#, N-80, EUE and 9,500 ft of 3-1/2", 9.2#, N-80, EUE 8 rd. tubing for workstring.

3) PU and RIH with 7-5/8", 29.7# Halliburton packer/WSO test tool to 5½" (5.5) liner top at 9,413 +- ft.

4) Fill tubing with column of drilling mud to achieve desired underbalance and differentially test the 7-5/8", 29.7# x 5-1/2" liner lap with Halliburton WSO tool. Invite MMS to witness. POOH.

   Note: This test will confirm pay zone isolation from back side as well as allow the flexibility to set a production packer at the base of the 7⅝" (5.5) casing, should it become necessary in the future.

5) RIH with 4-5/8" bit. Circulate out drilling mud to TD with sea water. On bottom, continue to circulate with filtered sea water and gel sweeps as required, until returns run clear. **Clean fill to TD.**

6) POOH with bit.

7) RU and run a USIT-CBT-GR-CCL logging assembly across the productive interval, tagging and correlating from TD.

   Squeeze cement as necessary for adequate zone isolation between the intervals to be fracture stimulated. Re-correlate to TD after cleaning out from squeeze, if required.

8) RIH with 5-1/2", ~~20#~~ 17# (5.5), 7-5/8", 29.7#, and 9-5/8", 47# properly spaced casing scrapers and brushes. Scrape/brush liner from liner top to TD. Reverse circulate from TD, with filtered sea water until returns run clear.

   NOTE: Hydrotest 3-1/2" x 2-7/8" workstring on way in hole to 7500 psi. (Robison Oil Tool has capability to test to 9000 psi with advance notice, if decision is made to test higher than 7500 psi.)

9) Fill active pit, reserve pit, and one steam cleaned Baker tank with 13.3 ppg $CaBr_2$ water. Displace sea water from tubing and casing. Rig up DE filter press and filter entire system to 30 NTU or less. Consult with duty engineer if turbidity appears to be from dissolved material (i.e., rust). POOH with scrapers and brushes.

10) RIH w/ 5-1/2", 20# Baker Model D sump packer on setting tool on wireline. Set at depth to be determined from perforation picks.

    The sump packer setting depth will be determined when perfs are picked, and will be approximately 12 ft below the bottom perf.

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11) Pick up and run in hole with Halliburton tubing conveyed perforating assembly with 3-3/8" guns loaded to perforate the LP-N interval (estimated at 60 ft net). Charges to be 12 SPF, 14 gm, RDX, big hole entry (0.62" diam, 5.33" penetration). The packer and Omni valve will be set in the 7-5/8" casing above the liner top, with approximately 1300 ft of spacers between the packer and top shot.

- TCP assembly is to be as follows (see attached Halliburton sketch for additional detail):

  - 3-1/2" tubing workstring from surface
  - IPO valve
  - Omni valve (run in Well Test position)
  - Big John hydraulic jars
  - 7-5/8", 29.7# Champ III packer
  - 1300 +- ft of spacers
  - drop bar operated vent (POV)
  - 2 pressure gauge carrier 10 ft subs (w/ 2 mechanical gauges and 2 electronic gauges)
  - drop bar operated firing head
  - loaded 12 SPF guns

- Work with Halliburton tool man to plan XO's needed between his tools and Torch's 3-1/2" x 2-7/8" workstring.

- Fill 3-1/2" tubing with filtered sea water while RIH.

- Do not run wireline correlation log, but instead tag sump packer with bull plug on TCP assembly and pick up to desired depth based on pipe tally (to avoid running wireline in deviated hole).

- Measure drag by picking up string. Set Champ III packer by picking up, turning right 1/4 turn at the tool to unjay, and setting down 20,000# +- at the tool.

12) Make up Halliburton surface flow equipment to flow well either to test trap or straight to production system. Pressure test Halliburton surface flow equipment.

Note: Insure that a calibrated pressure gauge is in the line between the tubing head and the Halliburton manifold to monitor tubing pressure.

13) Pressure up tubing to pressure that will result in 500 psi underbalance based on actual fluid weights.

14) When guns fire, take fluid influx to clean up perf debris, but do not surface the fluid (3-1/2", 9.2# capacity to 9,300 ft is 89 bbl). Monitor well with bubble bucket.

15) Cycle Omni valve to circulating position (perforations isolated). Note the time that the Omni valve is closed to perfs. Allow at least 25 minutes of shut-in time for downhole pressure gauges to record shut-in reservoir pressure below packer.

Reverse out tubing through Omni valve with 13.3 ppg $CaBr_2$ brine.

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16) Cycle Omni valve to well test position and check for flow. If fluid falls away, shoot fluid levels to establish static column height, and calculate BHP. Alternatively, if there is pressure on the tubing, record SITP.

Cycle Omni valve back to circulating position and weight up or cut $CaBr_2$ weight as necessary to establish 200-300 psi overbalance.

17) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, sized salt (NaCl), or calcium carbonate pill will be considered.

Break out pressure gauges, read data, and report all 4 gauges' pressure readings on morning report.

18) If hole is stable without the spotting of a pill, **consider** a scraper run to deburr 5-1/2" liner. Otherwise, proceed to the next step of the procedure.

19) Pick up and RIH slowly with screen (2-7/8", 6.5#, NU, J-55 base pipe) and gravel pack assembly as follows:

- SC-1's running tool
- 5-1/2", ~~20#~~ 17# SC-1 hanger/gravel pack tool assembly with perforated extension
- 1.900" washpipe
- KOIV assembly with ceramic flapper (having differential pressure rating of 2000 +- psi).
- 200 +- ft of 2-7/8", 6.5# NU blank pipe (exact length to be based on location of upper perfs)
- 80 ft of Bakerweld 140 heavy-duty screen (0.012 gauge spacing, based on 20/40 gravel). Bottom 10 ft of screen to be below bottom perf.
- Snap latch seal and locator assembly (to stab into 5-1/2" sump packer) approximately 3 ft long.

Minimize the use of pipe dope on screen assembly's threads.

20) Snap into and out of Baker Model D sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight as directed by Baker serviceman.

Note: Space out workstring to a safe working height on floor prior to snapping into sump packer.

21) Rig up the pumping equipment and test surface lines to 5000 psi (In order to achieve the best control of pump rates and pressures while setting the Baker SC-1 packer, it is advised that the BJ cement pump skid on the platform be used during this operation.)

22) Establish circulation down workstring. Circulate 5 to 10 bbls to clean ball seat in setting tool. Drop packer setting ball and allow it to gravitate to the setting tool. With ball on seat, hydraulically set SC-1 gravelpack packer at direction of Baker serviceman.

23) Test the Baker SC-1 packer by picking up and setting down weight. Locate neutral weight on packer and pressure test annulus to minimum 1500 psi.

Note: Annular pressure will also actuate hydraulic release on the service tools.

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24) While holding 500 psi on the annulus, slowly pick up crossover tool until pressure indication is noted. This is the reverse position. Mark tubing at surface.

Note: If crossover tool is not released from the packer , rotate 15 turns to the right to actuate back-up release.

25) Reverse circulate to recover packer setting ball.

26) Shift tool to reverse position. Pump a 4 bbl freshwater spacer (to prevent contamination of $CaBr_2$) and then 1500 gal 15% HCl tubing pickle acid mixture to within 2 joints of the packer (capacity of 3-1/2" tubing to 9,300 ft plus 2-7/8" to 10,500 ft is 3700 gal). Reverse out at maximum rate. Isolate acid returns and pump down S-54 annulus.

27) Lower crossover tool to set down desired weight on packer. This is the **Squeeze Position**. Pick up crossover tool 1 +- ft and locate the **Circulating Position**. Mark the string at the surface for these positions.

DATAFRAC PUMPING (Step Rate Test followed by Calibration Test):

- **Have Victory Seahorse tied up to supply water as required during stimulation operations.**
- **S/D to supply enough headsets for driller, toolman, and two TOC representatives.**

28) Shift tool to reverse position. Circulate the following DataFRAC fluids to the gravel pack packer in the reverse position. **Expect the same shut-in tubing pressure as that seen directly after perforating.**

29) Inject the DataFRAC as per design to be finalized after the analysis of openhole logs. Once the DataFRAC has been performed, a fracture treatment will be optimized as the data directs.

While injecting fluids for DataFRAC, maintain casing pressure (to be confirmed with Torch representative), preferably at 2000 psi or more. Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on both the 7-5/8" and 5-1/2" laps).

NOTE: Burst rating of 5-1/2", ~~20#, N-80~~ 17# S-95 liner is 9190 psi.

DataFRAC Fluid requirements:

5000 gals	119 bbls	YF130LG **(XLK 30# gel)** Calibration Test fluid (X-linked)
2860 gals	68 bbls	WF130 (Linear 30# gel) Step Rate Test fluid
4850 gals	115.5 bbls	6% KCl (w/ 0.2% ASP820) Displacement fluid

The volumes of fluids may be altered slightly if this would benefit operation of tools and/or pumping, or for a significantly different perforated interval.

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Step Rate Test (2 minutes per stage with linear gel) :

1 bpm	2 bbls
2 bpm	4 bbls
3 bpm	6 bbls
4 bpm	8 bbls
6 bpm	12 bbls
8 bpm	16 bbls
10 bpm	20 bbls
Total:	68 bbls

Calibration Test - 119 bbls YF130LG at 10 bpm (11.9 min)
- displace with 6% KCl down to tools

30) Shut down and monitor pressure fall off. Do not alter the pressure on the casing or work string.

NOTES:

Add another Calibration test or step rate test as necessary.

The above schedule is only recommended volumes and can be altered as necessary to suit the formation response.

FRAC-PACK PUMPING:

Section 1: Expected Propped Fracture Schedule

Job Description						
Stage Name	Pump Rate (bbl/min)	Fluid Name	Stage Fluid Vol. (gal)	Gel Conc. (lb/Mgal)	Proppant Type & Mesh	Proppant Conc. (ppa)
PAD	10.0	YF130LG	1000	30	---	0
1.0 ppa	10.0	YF130LG	1600	30	EconoProp 20/40	1.0
3.0 ppa	10.0	YF130LG	700	30	EconoProp 20/40	3.0
4.0 ppa	10.0	YF130LG	1000	30	EconoProp 20/40	4.0
5.0 ppa	10.0	YF130LG	1200	30	EconoProp 20/40	5.0
6.0 ppa	10.0	YF130LG	1200	30	EconoProp 20/40	6.0
7.0 ppa	10.0	YF130LG	1200	30	EconoProp 20/40	7.0
8.0 ppa	10.0	YF130LG	1200	30	EconoProp 20/40	8.0
9.0 ppa	10.0	YF130LG	2000	30	EconoProp 20/40	9.0
10.0 ppa	10.0	YF130LG	2000	30	EconoProp 20/40	10.0
FLUSH	15.0	6% KCl w/FR	3394	0	---	0

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Fluid Totals:		
13100 gal	of	YF130LG
3394 gal	of	6% KCl w/ FR

Proppant Totals:		
80,000 lbs	of	EconoProp 20/40

Notes:

- Maintain casing pressure (to be confirmed with Torch representative), preferably at 2000 psi or more during pumping of the StimPAC. *Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on both the 7-5/8" and 5-1/2" laps).*

- Sand silo to be loaded with enough excess proppant (+- 5000 lbs excess) so that total proppant amount designed can be pumped at design rates.

- Rate will be ramped down during flush. Actual rates will be determined after the DataFRAC.

  Pressure limits while reversing must be discussed before pumping starts. Use the following as a reference to hydrostatic pressure that may be encountered.

  10.0 ppa slurry has a density of 12.67 ppg
  8.0 ppa slurry has a density of 12.06 ppg
  6.0 ppa slurry has a density of 11.35 ppg

MINIMIZE TIME after shut down to start reverse circulation - no more than 10 minutes. **Do NOT overdisplace.**

If the bleed off after a screen out is fast (possible indication of limited blank fill), do not move to the reverse position until trying to squeeze slurry into the blank section at least once. This must be agreed upon by Dowell tool supervisor, the pumping supervisor, and the TOC engineer. Maximum re-stress pressure must be calculated before start of frac.

31) Once a screen out has been achieved, bleed off workstring and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with $CaBr_2$ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of $CaBr_2$ water.

32) If circulation pack is required to fill screen, use the BJ pump skid and the completion brine.

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33) When screen is packed, pull uphole until end of washpipe is 10 ft below Knock-Out Isolation Valve (KOIV). Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize. Slowly pull uphole in one continuous movement until the end of the washpipe is 10 ft above flapper valve.

Note: Do not slack off, as any downward movement while the end of the washpipe moves through the KOIV can damage the flapper and seat.

34) Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

Note: If KOIV does not appear to be holding, apply 200 - 300 psi to assist closing and sealing. If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer (pill material to be decided in discussion with Office).

35) POOH with workstring and LD Baker SC-1 crossover tool and washpipe.

36) PU Baker SB tubing plug and running tool. Plug is to be run *without seals*, and with surge (equalizer) chamber. Make up running tool on bottom joint of Halliburton TCP gun assembly.

37) Pick up Halliburton TCP guns, Omni valve, 7-5/8", 29.7# Champ III packer to perforate the LP-M interval (estimated 60 ft net) at 12 SPF. Use same charges, tool assembly, and pressure gauges as detailed earlier to perforate the N sand. RIH with guns with Baker SB plug on bottom (see attached Halliburton sketch for additional detail).

- Fill 3-1/2" tubing with filtered sea water while RIH.

38) Find profile in SC-1 packer by setting down; snap in with SB plug (plug is to protect lower KOIV from perf debris). Pull straight up and shear out to get off with setting tool.

39) Pick up to appropriate depth, getting guns on depth by correlating from SC-1 with pipe tally. (Do not run WL correlation run.)

40) Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Test Halliburton surface flow equipment to 4700 psi. Pressure up tubing to appropriate pressure to provide 500 psi underbalance.

Note: Insure that a calibrated pressure gauge is in the line between the tubing head and the Halliburton manifold to monitor tubing pressure.

41) Detonate guns with drop bar.

When guns fire, take fluid influx to clean up perf debris, but do not surface the fluid (3-1/2", 9.3# capacity to 9,300 ft is 89 bbl). Monitor well with bubble bucket.

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42) Cycle Omni valve to circulating position (perforations isolated). Note the time that the Omni valve is closed to perfs. Allow at least 25 minutes of shut-in time for downhole pressure gauges to record shut-in reservoir pressure below packer.

Reverse out tubing through Omni valve with 13.3 ppg $CaBr_2$ brine.

43) Cycle Omni valve to well test position and check for flow. If fluid falls away, shoot fluid levels to establish static column height, and calculate BHP. Alternatively, if there is pressure on the tubing, record SITP.

Cycle Omni valve back to circulating position and weight up or cut $CaBr_2$ weight as necessary to establish 200-300 psi overbalance.

44) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, sized salt (NaCl), or calcium carbonate pill will be considered.

Break out pressure gauges, read data, and report all 4 gauges' pressure readings on morning report.

45) RIH with Baker SB retrieving tool on workstring. Circulate perf debris off SB plug retrieving neck *and all the way out to surface*. Set down over SB plug fishing neck; wait for any pressure to equalize from below. Pull plug with straight pickup and POOH.

46) If hole is stable without the spotting of a pill, **consider** a scraper run to deburr 5-1/2" liner. Otherwise, proceed to the next step of the procedure.

47) Pick up and RIH slowly with screen (2-7/8", 6.5#, NU, J-55 base pipe) and gravel pack assembly as follows:

- SC-1's running tool
- 5-1/2", ~~20#~~ 17# (5.9) SC-1 tool assembly with perforated extension
- 1.900" washpipe
- 15 +- ft long 1.900" extension below tailpipe seal (to break the lower KOIV)
- KOIV assembly with ceramic flapper (having differential pressure rating of 2000 +- psi).
- 30 +-ft of 2-7/8", 6.5# NU blank pipe (adjust if 3rd zone planned to be perfed)
- 80 ft of Bakerweld 140 heavy-duty screen (0.012 gauge spacing, based on 20/40 gravel); (Bottom 10 ft of screen to be below bottom perf.)
- 2-7/8" seal bore receptacle
- Snap latch seal and locator assembly (to stab into lower 5-1/2" SC-1)

Minimize the use of pipe dope on screen assembly's threads.

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48) Snap into and out of lower Baker SC-1 packer to confirm gravel pack assembly is on depth. Snap back into packer and set down desired weight as directed by Baker serviceman.

Note: Space out workstring to a safe working height on floor prior to snapping into SC-1.

Note: The 15 +-ft extension below the tailpipe seal will break the lower KOIV when the snap latch is landed in the SC-1. This will expose column of tubing fluid to lower, fracpacked zone until the gravelpack tool is set and changed over to the squeeze position.

49) Repeat Stim-Pac procedures for this "M" interval.

50) Discuss with office possibility of a third 60 ft zone, either a second M interval or an interval in the L.

51) RIH with 2-7/8", 6.5#, EUE, N-80 production tubing string. (NOTE: This 2-7/8" is good for 145,000# tension when new - ensure string weight after drag added is less than this rating.) On bottom of 2-7/8" run a Baker snap latch *with double seals and ported sub between seals* to stab into top 5-1/2", ~~20#~~ 17# SC-1 packer.

Then run 4-1/2" x 2-7/8" Pruett chamber (tubing sensing), 2-7/8" (carrying 1/8" capillary tubing line) to ~500 ft from surface, 2-7/8" tubing retrievable SCSSV, and 2-7/8" tubing to surface.

52) Tag SC-1 packer. Space out string at surface for eventual landing in hanger. Sting seal assembly into top of SC-1 receptacle. Bury only bottom seals on stab-in assembly and do not snap-latch in yet. Ported sub needs to remain exposed above SC-1 receptacle for fluid changeout. (However, stabbing in part way assures that tie-in receptacle has been located and entered before changing out backside fluid to lighter weight brine.)

53) Rig up pumps to backside and displace annular $CaBr_2$ brine with 6% KCl inhibited with bactericide and corrosion inhibitor. *Displace $CaBr_2$ brine down to bottom of tubing only - do not turn corner. $CaBr_2$ brine is to remain in tubing from bottom to surface.*

NOTE - Do not exceed either liner lap's test pressure with pump pressure. Pump pressure will be approximately 1940 psi (difference between 13.3 and 8.7 ppg at 8100 ft TVD.)

Off load $CaBr_2$ brine recovered from annulus and send to shore.

54) Lower tubing and snap-latch into SC-1 packer, closing circulating ports below top seal. Pressure test seal assembly as directed by Baker serviceman by pressuring up inside tubing (if KOIV is holding) or on backside.

55) Land tubing in hanger. Pressure test tubing hanger. Set BPV. Hookup SCSSV hydraulic line.

56) ND BOPE. NU and test tree.

57) RU slickline assembly. NU and test lubricator and packoff. Open SCSSV. RIH with pointed sinker bar on slickline and break KOIV. POOH and RD slickline.

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58) RU 1-1/2" CTU and BOPE. Test CTU BOPE. RIH and lift on well with seawater and/or nitrogen. Recover $CaBr_2$ brine from tubing and send to shore. POOH and RD CTU.

59) Flow well per engineering direction, with low initial drawdown. Keep well on platform hotsheet until relieved.

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Name: RW Date: 10-31-13

OCS-P0216
PLATFORM GILDA
WELL S-61 Redrill
CASING DESIGN

7-5/8" CASING

Effective Setting Depth is 9678' MD / 7750' TVD

Casing: 7-5/8", 29.7#, HC-95, HYD 521.

Estimated top of cement is 6500' MD

Collapse

Maximum Mud weight for the 7-5/8" casing interval is 12.5 ppg.

P_C = (7750) (12.5 ppg) (.052) = 5050 psi

S_{FC} = 7150 psi / 5050 psi = 1.01

Burst

Anticipated WHP with .1 psi / ft gas is 4650 psi.

S_{FB} = 8180 psi / 4650 psi = 1.76

Tensile

Buoy Weight = (29.7) (2800') (.806) = 67026#

7-5/8", 26#, HC-95, HYD 521 — Joint = 673000#, Body = 811000#

S_{FJT} = 673000# / 67026# = 10.04

S_{FB} = 811000# / 67026# = 12.10

Maximum Overpull w/ Safety Factor

Jt.= 673000# / 2 - 67026# = 269474#

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Name: RW Date: 10-31-13

5-1/2" Liner

Effective setting depth is 10744' MD / 8566' TVD

Casing: 5-1/2", ~~20#~~ 17# S, ~~HC~~-95, HYD 521

Estimated top of cement is at ~~bottom of 7-5/8" casing~~ top of 5½" liner

Collapse

Maximum Mud weight for the 5-1/2" casing interval is 14.5 ppg.

Pc = (8566') (14.5 ppg) (.052) = 6458 psi

Sf = ~~8830~~ 6930 psi / 6458 psi = ~~1.36~~ 1.073

Burst

Maximum anticipated WHP with gas to surface is 4650 psi assuming a .1 psi / ft gas gradient at the 5-1/2" casing shoe.

Sf = 9190psi / 4650 psi = 1.74

Tensile

Buoy Weight = (18) (1750') (.776) = 24444#
W/ 14.5 ppg drilling mud

5-1/2", 18#, HC-95, HYD 521. Joint = 434000#
Body = 466000#

SFJT = 321000# / 24444# = 13.13

SFB = 416000# / 24444# = 17.02

Maximum Overpull w/ Safety Factor

Jt. = 321000# / 2 - 24444# = 136056#

Operator Name: Torch Opera[illegible] Co.
Well Name: OCS-P-0216[illegible]1 Redrill
Job Description: Pump 150 cf below & above retainer @ 9180'
Date: January 16, 1998

Releasable to public
Name: RW Date: 10-31-13

Proposal No: 100150844A

FLUID SPECIFICATIONS

PLUG NO.	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1	152	/	1.17	= 130 sacks Class G Cement + 20 gals/100 sack CD-31L + 4 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 44.7 % Water

CEMENT PROPERTIES

	PLUG NO. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.17
Amount of Mix Water (gps)	4.92
Amount of Mix Fluid (gps)	5.18

PLUG GEOMETRY

	PLUG TOP		PLUG BOTTOM	
1	9130 ft	to	9203 ft	with 6.184 inch ID Casing

Operator Name: Torch Opera[illegible] Co.
Well Name: OCS-P-021[illegible]31 Redrill
Job Description: Set 7-5/8" liner 8300'-9225' MD
Date: January 16, 1998

Releasable to public
Name: KW Date: 10-31-13

Proposal No: 100150844A

FLUID SPECIFICATIONS

Weighted Spacer — **20.0 bbls UltraFlush II @ 11 ppg**

FLUID	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	596	/	2.1	= 284 sacks Class G Cement + 0.5% bwoc CD-32 + 0.8% bwoc FL-62 + 2 gals/100 sack FP-6L + 2% bwoc Sodium Metasilicate + 105.4 % Water
Tail Slurry	134	/	1.16	= 116 sacks Class G Cement + 20 gals/100 sack CD-31L + 45 gals/100 sack FL-33L + 2 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 38.9 % Water

Displacement — **181.1 bbls MUD @ 9.4 ppg**

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	12.50	15.80
Slurry Yield (cf/sack)	2.10	1.16
Amount of Mix Water (gps)	11.88	4.39
Amount of Mix Fluid (gps)	11.90	5.08

Operator Name: Torch Operating Co.
Well Name: OCS-P-0216 #1 Redrill
Job Description: Set 5 1/2" liner 9000'-10713' MD
Date: January 16, 1998

Releasable to public
Name: RWJ Date: 10-31-13

Proposal No: 100150844A

FLUID SPECIFICATIONS

Weighted Spacer — **20.0 bbls UltraFlush II @ 11 ppg**

FLUID	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Cement Slurry	168	/	1.15	= 147 sacks Class G Cement + 25 gals/100 sack CD-31L + 35 gals/100 sack BA-10L + 6 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 38.5 % Water

Displacement — **106.6 bbls MUD @ 10 ppg**

CEMENT PROPERTIES

	SLURRY NO. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.34
Amount of Mix Fluid (gps)	5.02

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Name: RW Date: 10-31-13

OCS-P0216
PLATFORM GILDA
WELL S-61
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
8700' - 9678'	MWD/DPR/GR
9678' - 10744'	DIL/GR/FDC/CNL
9678' - 10744'	DIPOLE SONIC

Mud Logs

Interval (MD)	
7000' - 10744'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

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OCS P-0216
PLATFORM GILDA
WELL S-61
BOP PROGRAM

9 5/8"	13-5/8"	5000 psi	One blind and two pipes test to 250 psi / 5000 psi
	13-5/8"	5000 psi	Annular test to 250 psi / 1000 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which is prior to drilling out the 9-5/8" casing and at 7 day intervals between future tests.

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OCS-P0216
PLATFORM GILDA
WELL S-61
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

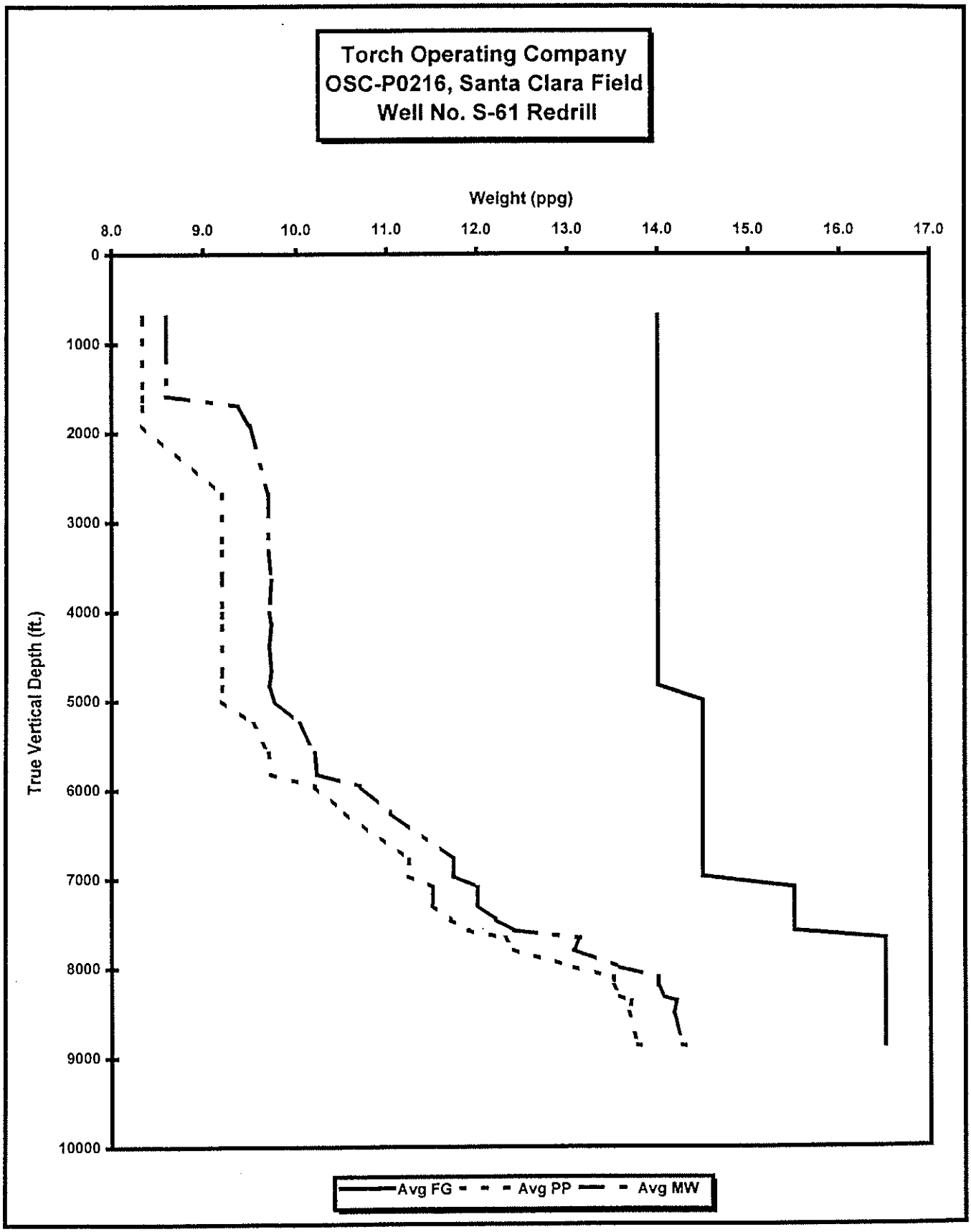
A. Taking a kick while drilling.

1. Position tool joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 1750 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.

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PROPOSED DRILLING FLUID PROGRAM

INTERVAL FEET MD	MUD WT. (PPG)	FUNL. VISC. SEC/QT	FLUID LOSS (cc 30 min.)	P. VISC. CPS	Y. POINT #100SQ. FT.	LSR-YP #100SQ. FT.	DRILL SOLIDS % BY VOL.
GEL/ SEAWATER MUD							
6850-6890'	9.0-12.5	28-50	N/A	0-15	0-15	0-6	<6
GEM SEAWATER SYSTEM							
6890-9226'	10.0-13.0	40-50	4-7	15-20	10-30	9-15	<6
GEM SEAWATER SYSTEM							
9226-10713'	13.0-14.5	40-50	4-6	15-25	10-30	9-15	<6

SUGGESTED HOLE SIZES AND CASING POINTS:

Plug and abandon lower well - mill section 6850-6890' - sidetrack

Drill 9 7/8" hole to 9225' set 7 5/8" casing

Drill 6 ½" hole to 10713' and set 5 ½" casing

Run and gravel pack 2 3/8" SSWR screen liner

DIRECTIONAL PROGRAM:

Build angle per Baker Inteq program.

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Name: RW Date: 10-31-13

DISCUSSION BY INTERVAL: 6850-6890 FT.

HOLE SIZE: 9 7/8" CASING SIZE: 9 5/8" @ 6850'
Already Set

FLUID TYPE: GEL SEAWATER MUD (kill, mill, sidetrack mud)

PRODUCTS WITH TYPICAL USAGE LEVELS: LBS/BBL

SEA MUD - 20-25#/BBL.
SODA ASH - .25-.50#/BBL.
BARITE - As Needed
BICARB - .25-.50#/BBL.
PAC - As Needed

SUGGESTED MUD SPECIFICATIONS FOR SIDETRACKING:

DEPTH FT.	MUD WT.	F. VISC.	P. VISC.	Y. POINTS	LSR-YP	FLUID LOSS	DRILL SOLIDS
FT.	#GAL.	SEC./QT.	CPS	#100 SQ. FT.	#100 SQ FT.	CC/03 MIN	% BY VOL.
6850-6890'	9.0-12.5	28-50	0-15	0-15	0-6	N/A	<6

Use SEAWATER to kill the well. If viscosity is needed build mud by adding 20#/bbl SEA MUD and ½#/BBL of SODA ASH. Add BARITE if needed to adjust the density to maintain a 300 PSI overbalance. Add BICARB OF SODA, and dilute as needed when polishing off cement plug prior to side tracking. (Use salvage mud if available.)

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Name: RW Date: 10-31-13

DISCUSSION BY INTERVAL: 6890-9226' FT.

HOLE SIZE: 9 7/8" hole drill reamer CASING SIZE: 7 5/8"

FLUID TYPE: GEM SEAWATER SYSTEM

PRODUCTS WITH TYPICAL USAGE LEVELS: LBS/BBL

GEM - 1-2% By Volume
S.O.LUBE - 1% By Volume
BARAZAN D PLUS - 1-2#/BBL.
SODA ASH - ½#/BBL.
FILTER CHECK - 1-3#/BBL.
X-PEL G - 1-4#/BBL.
BARITE - As Needed
PAC - ½-1#/BBL.

SUGGESTED MUD SPECIFICATIONS:

DEPTH FT.	MUD WT.	F. VISC.	P. VISC.	Y. POINT	LSR-YP	FLUID LOSS	DRILL SOLIDS
FT.	#GAL.	SEC./QT.	CPS	#100 SQ. FT.	#100 SQ. FT.	CC/03 MIN	% BY VOL.
6890-9226'	10.0-13.0	40-55	7-20	10-30	9-15	<8	4-7

DISCUSSION OF MAINTENANCE

After side tracking the hole at 6920' change over to a GEM Polymer system in seawater with product concentrations as described in the above section. Use BARITE to adjust the mud weight to maintain a 300 PSI overbalance. While drilling ahead maintain the low shear rate yield point (LSR-YP) at 9-15 to provide adequate hole cleaning by adding BARAZAN. Often tight hole, torque, drag has often been identified as lack of hole cleaning when the real problem is mud lubricity while building significant angles from 40-70 degrees. The fluid loss will be controlled by adding FILTER CHECK which will perform in the presence of magnesium in the SEAWATER. Use solids control equipment and dilution to maintain the low gravity solids content below 6% by volume. The mud engineer will need to maintain the cuttings for firmness; by maintaining the Glycol concentration at >1% by volume. S.O. LUBE 1000 is an EPA Region #9 approved lubricant that may be used to reduce mechanical torque and drag and to improve slide drill rates. X-PEL G (Gilsonite) has been successfully used to promote shale stability, improve HT-HP Fluid loss, and will improve filter cake lubricity. The mud engineer should condition the mud to have stable properties prior to logging and running casing.

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DISCUSSION BY INTERVAL: 9226'-10,713 FT.

HOLE SIZE: 8 ½" CASING SIZE: 5 ½" , 2 3/8" liner

FLUID TYPE: GEM SEAWATER SYSTEM

PRODUCTS WITH TYPICAL USAGE LEVELS: LBS/BBL

AQUAGEL - 5-10#/BBL.
GEM - 1% By Volume
BARAZAN D PLUS- 1-2#/BBL.
SODA ASH - ½#/BBL.
FILTER CHECK - 1-3#/BBL.
X-PEL G - 1-3#/BBL.
BARITE - As Needed
S.O. LUBE - 1% By Volume

SUGGESTED MUD SPECIFICATIONS:

DEPTH FT.	MUD WT.	F. VISC.	P. VISC.	Y. POINTS	LSR-YP	FLUID LOSS	DRIL. SOLIDS
FT.	#GAL	SEC./QT.	CPS	#100 SQ. FT.	#100 SQ. FT	CC/03 MIN	% BY VOL.
9226-10713'	13.0-14.5	40-50	10-25	10-30	9-15	<7	4-6

Prior to drilling out cement pretreatment with SODIUM BICARBONATE and CF DESCO to minimize cement contamination. Continue to use products described in the previous section to maintain the above mud properties. The estimated bottom hole temperature is estimated to be 200 degrees F and may slightly effect the flow properties; due to the small hole size higher annular velocity should increase hole cleaning efficiency. Maintain Glycol at >1% by volume and X-PEL G at 2-4#/BBL.

The mud engineer should condition the mud to have fragile gel strengths stable properties prior to logging, running casing, and cementing.

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Name: RJ Date: 10-31-13

RECOMMENDED PROGRAM

POSSIBLE HOLE PROBLEMS AND SOLUTIONS

6850-10713' Hole Cleaning - is most difficult when drilling and building angle of 40-70 degrees. It is essential to maintain the Low Shear Rate-Yield Point (LSR-YP)while building in the following range.

HOLE ANGLE	LSR-YP
0-40 degrees	2-5
40-70 degrees	5-10
70+	8-12

6850-10713' Critical Velocity - is generally a flow rate of 220-225 ft. per minute range.

6850-10713' Carrying capacity - Cuttings Build Up - Pump low viscosity pills followed by high viscosity BARAZAN pills as needed to clean the hole while building angle.

6850-10713' SEAWATER - Add SODA ASH to control calcium and magnesium hardness below 200 ppm or as low as practical; CAUSTIC SODA maybe required to maintain fragile gel strengths.

6850-10713' Drill solids content - Use water and solids control equipment and dilution to maintain the solids 6% by volume or as low as economically practical.

6850-10713' Fragile gel strengths - Should be maintained with CF DESCO and THERMATHIN to minimize swabbing and pressure surges on trips.

6850-10713' Cementing - The mud should be circulated, and the viscosity and gel strengths reduced to ensure a good displacement prior to cementing.

6850-10713' Stuck pipe - We have had excellent results in freeing stuck pipe by spotting 50 bbls. mud with S.O. LUBE around the drill collars.

6850-10713' Abnormal pressures - Abnormal pressures will be encountered and a safe mud weight should provide 300 PSI overbalance.

1. Connection, background, and trip gas.
2. Usual torque or drag.
3. Drill rates and cuttings sizes.
4. Flow line temperatures, salinties, PVT.
5. Keep the hole full at all times.
6. Maintain a minimum of 2000 sacks of BARITE on location from 0-TD.

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POSSIBLE HOLE PROBLEMS AND SOLUTIONS (Cont'd)

6850-10713' Good drilling practices - Include:

1. Advise drillers we will be working in near gauge hole. Don't attempt to spud through tight spot when going in the hole; pick up the kelly and ream tight spots.
2. Gauge all tools going into the drill string and all tools being laid down. If tools are under gauge, advise driller to be cautious in lower interval of the hole.
3. Use caution going into the hole after changing stabilizers, dyna-drill runs, or if the direction of the hole changes from the previous bit.
4. Ream tight hole when running in the hole or making connections.
5. Kick pump in slowly after connections and break circulation on long trips when going into the hole.
6. Trip at reasonable rates to minimize pressure surges, and swabbing.
7. Run a leak off test at casing point to determine maximum mud weight or shut in pressure.
8. Maintain the drilling fluid properties according to the suggested mud program.
9. Keep the hole full at all times.

6850-TD 10. Ship in totes liquid GEM and S.O. LUBE

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Name: RW Date: 10-31-13

PRESSURE CONTROL EQUIPMENT

Abnormal pressure are expected on the proposed well. Maintain sufficient mud weight to maintain a 300 PSI overbalance. For safety and mud control we recommend the following pressure control equipment. Maintain 1500 sx BARITE on board at all times:

Pit volume totalizer
Adjustable choke
Degasser

SOLIDS CONTROL EQUIPMENT

The control of drill solids is the key to running a successful GEM System as outlined in this suggested program. A unitized solids control system is recommended. The unitized system should have:

1. Pyramid floline cleaners
2. Centrifuge

The mud cost has been estimated on the premise that the solids control equipment will maintain the low gravity drill solids below 6% by volume.

ESTIMATE DILUTION RALIS

Based on gauge hole and 75% drill solids removal and maintaining drill solids at 5% by volume

Hole Size	Dilution Rate BBL/100 FT.
9 7/8" hole	4.9 BBLs. per 100 FT.
8 ½" hole	3.6 BBLs. per 100 FT.

Releasable to public
Name: RW Date: 10-31-13

TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : S-61 REDRILL (A.2)

Field : OFFSHORE SANTA BARBARA Location : CALIFORNIA

BAKER HUGHES INTEQ

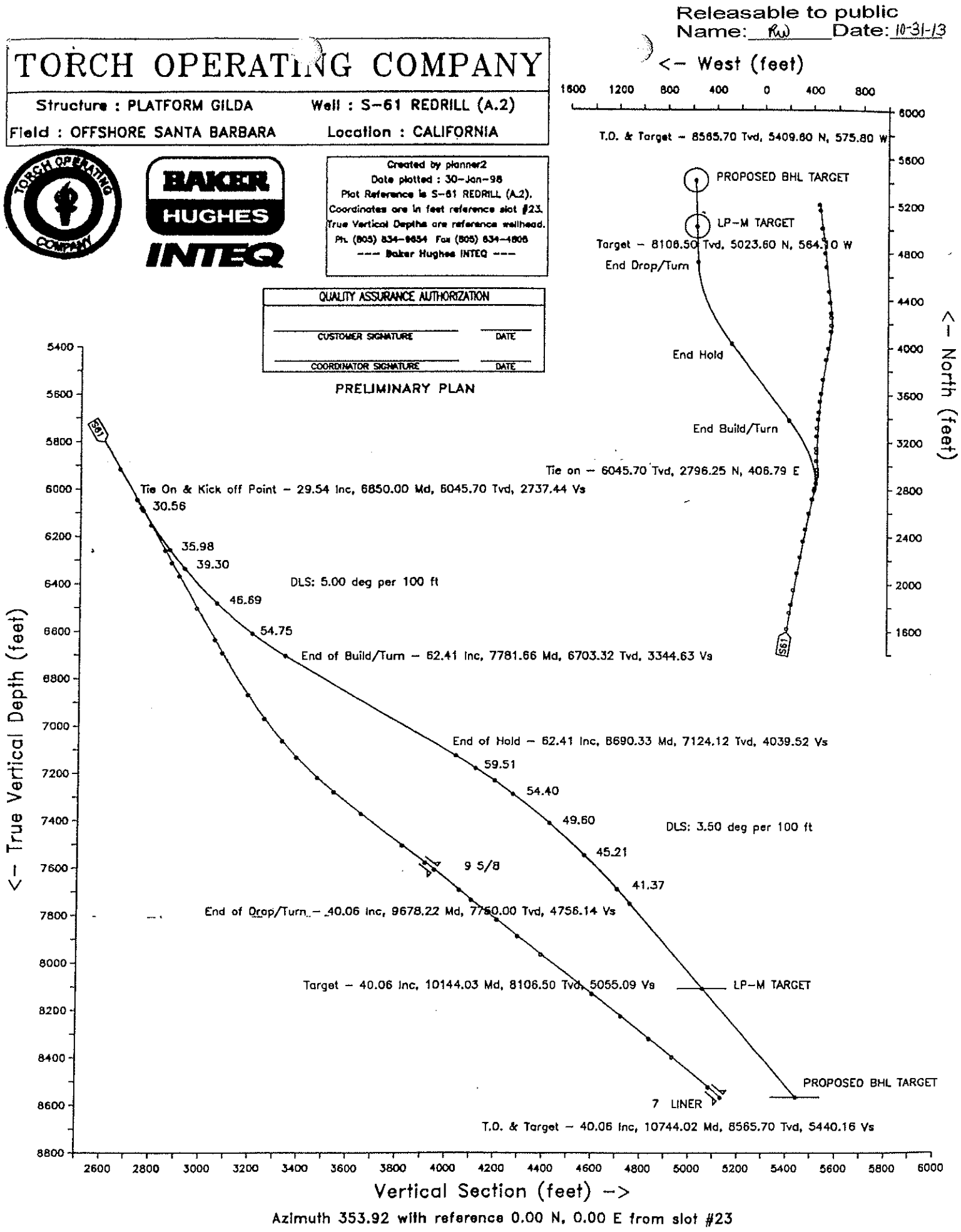
Created by planner2
Date plotted : 30-Jan-98
Plot Reference is S-61 REDRILL (A.2).
Coordinates are in feet reference slot #23.
True Vertical Depths are reference wellhead.
Ph. (805) 834-8654 Fax (805) 834-4808
--- Baker Hughes INTEQ ---

QUALITY ASSURANCE AUTHORIZATION

CUSTOMER SIGNATURE DATE

COORDINATOR SIGNATURE DATE

PRELIMINARY PLAN



Releasable to public
Name: KW Date: 10-31-13

TORCH OPERATING COMPANY
PLATFORM GILDA

S-61 REDRILL (A.2)
slot #23
OFFSHORE SANTA BARBARA
CALIFORNIA

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : S-61 REDRILL (A.2)
Our ref : prop3422
License :

Date printed : 30-Jan-98
Date created : 30-Jan-98
Last revised : 30-Jan-98

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.552,w119 25 7.251
Slot Grid coordinates are N 748001.971, E 1041697.976
Slot local coordinates are 11.90 N 35.40 W

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Releasable to public
Name: RW Date: 10-31-13

TORCH OPERATING COMPANY
PLATFORM GILDAsouth block,S-61 REDRILL (A.2)
OFFSHORE SANTA BARBARA,CALIFORNIA

PROPOSAL LISTING Page 1
Your ref : S-61 REDRILL (A.2)
Last revised : 30-Jan-98

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	
6850.00	29.54	12.95	6045.70	2796.25 N	406.79 E	0.00	2737.44	
6900.00	30.56	8.40	6088.98	2820.84 N	411.41 E	5.00	2761.40	
7000.00	33.04	0.14	6174.00	2873.29 N	415.19 E	5.00	2813.15	
7100.00	35.98	353.00	6256.43	2929.75 N	411.67 E	5.00	2869.66	
7200.00	39.30	346.86	6335.63	2989.78 N	400.89 E	5.00	2930.50	
7300.00	42.89	341.56	6411.01	3052.94 N	382.91 E	5.00	2995.21	
7400.00	46.69	336.95	6481.99	3118.73 N	357.88 E	5.00	3063.28	
7500.00	50.65	332.89	6548.03	3186.67 N	325.99 E	5.00	3134.22	
7600.00	54.75	329.27	6608.63	3256.23 N	287.49 E	5.00	3207.47	
7700.00	58.94	326.01	6663.32	3326.89 N	242.65 E	5.00	3282.47	
7781.66	62.41	323.56	6703.32	3385.02 N	201.59 E	5.00	3344.63	
8000.00	62.41	323.56	6804.43	3540.69 N	86.63 E	0.00	3511.60	
8500.00	62.41	323.56	7035.97	3897.18 N	176.62 W	0.00	3893.97	
8690.33	62.41	323.56	7124.12	4032.89 N	276.83 W	0.00	4039.52	
8700.00	62.15	323.80	7128.61	4039.78 N	281.90 W	3.50	4046.92	
8800.00	59.51	326.43	7177.35	4111.38 N	331.85 W	3.50	4123.41	
8900.00	56.92	329.21	7230.02	4183.30 N	377.14 W	3.50	4199.71	
9000.00	54.40	332.14	7286.43	4255.26 N	417.60 W	3.50	4275.55	
9100.00	51.96	335.27	7346.36	4326.99 N	453.07 W	3.50	4350.64	
9200.00	49.60	338.61	7409.60	4398.23 N	483.44 W	3.50	4424.70	
9300.00	47.34	342.19	7475.91	4468.72 N	508.58 W	3.50	4497.45	
9400.00	45.21	346.03	7545.04	4538.19 N	528.40 W	3.50	4568.63	
9500.00	43.21	350.15	7616.73	4606.37 N	542.83 W	3.50	4637.96	
9600.00	41.37	354.58	7690.71	4673.02 N	551.81 W	3.50	4705.19	
9678.22	40.06	358.26	7750.00	4723.93 N	555.02 W	3.50	4756.14	
10000.00	40.06	358.26	7996.27	4930.94 N	561.29 W	0.00	4962.66	
10144.03	40.06	358.26	8106.50	5023.60 N	564.10 W	0.00	5055.09	LP-M TARGET
10500.00	40.06	358.26	8378.94	5252.61 N	571.04 W	0.00	5283.55	
10744.02	40.06	358.26	8565.70	5409.60 N	575.80 W	0.00	5440.16	PROPOSED BHL TARGET

All data is in feet unless otherwise stated.
Coordinates from slot #23 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 5440.16 on azimuth 353.92 degrees from wellhead.
Vertical section is from wellhead on azimuth 353.92 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Releasable to public
Name: RW Date: 10-31-13

TORCH OPERATING COMPANY
PLATFORM GILDAsouth block,S-61 REDRILL (A.2)
OFFSHORE SANTA BARBARA,CALIFORNIA

PROPOSAL LISTING Page 1
Your ref : S-61 REDRILL (A.2)
Last revised : 30-Jan-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
6850.00	29.54	12.95	6045.70	2796.25N	406.79E	0.00	2737.44	1042189.57	750784.75
6900.00	30.56	8.40	6088.98	2820.84N	411.41E	5.00	2761.40	1042194.94	750809.19
7000.00	33.04	0.14	6174.00	2873.29N	415.19E	5.00	2813.15	1042200.31	750861.50
7100.00	35.98	353.00	6256.43	2929.75N	411.67E	5.00	2869.66	1042198.51	750918.04
7200.00	39.30	346.86	6335.63	2989.78N	400.89E	5.00	2930.50	1042189.55	750978.38
7300.00	42.89	341.56	6411.01	3052.94N	382.91E	5.00	2995.21	1042173.50	751042.06
7400.00	46.69	336.95	6481.99	3118.73N	357.88E	5.00	3063.28	1042150.48	751108.59
7500.00	50.65	332.89	6548.03	3186.67N	325.99E	5.00	3134.22	1042120.67	751177.47
7600.00	54.75	329.27	6608.63	3256.23N	287.49E	5.00	3207.47	1042084.29	751248.17
7700.00	58.94	326.01	6663.32	3326.89N	242.65E	5.00	3282.47	1042041.63	751320.16
7781.66	62.41	323.56	6703.32	3385.02N	201.59E	5.00	3344.63	1042002.34	751379.52
8000.00	62.41	323.56	6804.43	3540.69N	86.63E	0.00	3511.60	1041892.16	751538.62
8500.00	62.41	323.56	7035.97	3897.18N	176.62W	0.00	3893.97	1041639.85	751902.97
8690.33	62.41	323.56	7124.12	4032.89N	276.83W	0.00	4039.52	1041543.80	752041.66
8700.00	62.15	323.80	7128.61	4039.78N	281.90W	3.50	4046.92	1041538.94	752048.71
8800.00	59.51	326.43	7177.35	4111.38N	331.85W	3.50	4123.41	1041491.19	752121.80
8900.00	56.92	329.21	7230.02	4183.30N	377.14W	3.50	4199.71	1041448.11	752195.06
9000.00	54.40	332.14	7286.43	4255.26N	417.60W	3.50	4275.55	1041409.85	752268.22
9100.00	51.96	335.27	7346.36	4326.99N	453.07W	3.50	4350.64	1041376.56	752341.01
9200.00	49.60	338.61	7409.60	4398.23N	483.44W	3.50	4424.70	1041348.37	752413.14
9300.00	47.34	342.19	7475.91	4468.72N	508.58W	3.50	4497.45	1041325.39	752484.37
9400.00	45.21	346.03	7545.04	4538.19N	528.40W	3.50	4568.63	1041307.68	752554.41
9500.00	43.21	350.15	7616.73	4606.37N	542.83W	3.50	4637.96	1041295.33	752623.00
9600.00	41.37	354.58	7690.71	4673.02N	551.81W	3.50	4705.19	1041288.38	752689.90
9678.22	40.06	358.26	7750.00	4723.93N	555.02W	3.50	4756.14	1041286.72	752740.88
10000.00	40.06	358.26	7996.27	4930.94N	561.29W	0.00	4962.66	1041286.74	752948.01
10144.03	40.06	358.26	8106.50	5023.60N	564.10W	0.00	5055.09	1041286.75	753040.71
10500.00	40.06	358.26	8378.94	5252.61N	571.04W	0.00	5283.55	1041286.77	753269.84
10744.02	40.06	358.26	8565.70	5409.60N	575.80W	0.00	5440.16	1041286.78	753426.91

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #23 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 5440.16 on azimuth 353.92 degrees from wellhead.
Vertical section is from wellhead on azimuth 353.92 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

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Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
10144.03	8106.50	5023.60N	564.10W	LP-M TARGET
10744.02	8565.70	5409.60N	575.80W	PROPOSED BHL TARGET

Casing positions in string 'A'

Top MD	Top TVD	Rectangular Coords.		Bot MD	Bot TVD	Rectangular Coords.		Casing
n/a	6045.70	2796.25N	406.79E	n/a	6045.70	2796.25N	406.79E	13 3/8"
n/a	6045.70	2796.25N	406.79E	n/a	6045.70	2796.25N	406.79E	9 5/8"
n/a	6045.70	2796.25N	406.79E	n/a	6045.70	2796.25N	406.79E	7" LINER

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
LP-M TARGET		8106.50	5023.60N	564.10W	2-Jan-98
PROPOSED BHL TARGET		8565.70	5409.60N	575.80W	2-Jan-98

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TORCH OPERATING COMPANY
PLATFORM GILDA

S-61 REDRILL (A.2)
slot #23
SANTA CLARA UNIT
CALIFORNIA

S U M M A R Y C L E A R A N C E R E P O R T

by
Baker Hughes INTEQ

Your ref : S-61 REDRILL (A.2)
Our ref : prop3422
License :

Date printed : 4-Mar-98
Date created : 30-Jan-98
Last revised : 30-Jan-98

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.552,w119 25 7.251
Slot Grid coordinates are N 748001.971, E 1041697.976
Slot local coordinates are 11.90 N 35.40 W

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Object wellpath	Closest approach with 3-D Minimum Distance method			
	Last revised	Distance	M.D.	Diverging from M.D.
S-64 ST1 (A1),south block,S-64 ST1 (A1),PLATFO	20-Aug-97	6872.1	6850.0	6850.0
S-64 ST (A5),south block,S-64 ST (A5),PLATFORM	25-Apr-97	7413.7	6850.0	6850.0
S-64 ST (A8),south block,S-64 ST (A8),PLATFORM	20-Aug-97	6836.3	6850.0	6850.0
S-64 ST1,south block,S56,PLATFORM GILDA	5-Nov-97	4807.1	6850.0	6850.0
S-64 ST,south block,S-64,PLATFORM GILDA	5-Nov-97	4807.1	6850.0	6850.0
S-56,south block,S56,PLATFORM GILDA	5-Aug-97	4807.1	6850.0	6850.0
S-66 ST (A1),south block,S-66 ST (A1),PLATFORM	6-Oct-97	5916.5	6850.0	6850.0
S-34,south block,S34,PLATFORM GILDA	23-Jul-97	4315.8	6850.0	6850.0
S-54,south block,S-11 (S-54),PLATFORM GILDA	23-Jul-97	4810.3	6850.0	10035.0
S11,south block,S11,PLATFORM GILDA	23-Jul-97	4810.3	6850.0	10035.0
S-18,south block,S18,PLATFORM GILDA	23-Jul-97	4606.1	6850.0	6850.0
PROPOSAL 1,south block,S-60,PLATFORM GILDA	6-Aug-96	5832.2	6850.0	6850.0
S-22ST,south block,S22,PLATFORM GILDA	23-Jul-97	4802.0	6850.0	6850.0
S-22ST2,south block,S22,PLATFORM GILDA	23-Jul-97	4802.0	6850.0	6850.0
DMWD SIDETRACK,south block,S-60 SIDETRACK,PLAT	23-Jul-97	4802.0	6850.0	6850.0
DMWD,south block,S-60,PLATFORM GILDA	23-Jul-97	4802.0	6850.0	6850.0
S-22,south block,S22,PLATFORM GILDA	23-Jul-97	4802.0	6850.0	6850.0
s38,south block,S38,PLATFORM GILDA	23-Jul-97	3311.0	6850.0	6850.0
S63,south block,S63,PLATFORM GILDA	23-Jul-97	4319.1	6850.0	6850.0
S-65,south block,S65,PLATFORM GILDA	23-Jul-97	597.7	9300.0	9300.0
S-89 (A1),south block,S-89 (A1),PLATFORM GILDA	1-Nov-96	5039.6	6850.0	6850.0
S-89,south block,S53,PLATFORM GILDA	23-Jul-97	5025.0	6850.0	6850.0
S-53 OH,south block,S53,PLATFORM GILDA	23-Jul-97	5025.0	6850.0	6850.0
PROPOSAL 1,south block,S-83 RD,PLATFORM GILDA	24-Sep-96	5301.6	6850.0	6850.0
S-83 RD1 (A2),south block,S-83 RD1 (A4),PLATFO	3-Oct-96	5310.8	6850.0	6850.0
PROPOSAL 2,south block,S-83 (S-67 RD),PLATFORM	6-Aug-96	3209.9	6850.0	10395.0
S-83 RD1 (A4),south block,S-83 RD1 (A4),PLATFO	3-Oct-96	5310.8	6850.0	6850.0
S-91 MWD,south block,S-91,PLATFORM GILDA	19-May-97	3208.5	6850.0	10446.0

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S-91 ST1 MWD,south block,S-91 S	PLATFORM GIL	19-May-97	3208.5	6850.	10446.0
S67,south block,S67,PLATFORM GILDA		19-May-97	3208.5	6850.0	6850.0
S-83 (S-67RD),south block,S67,PLATFORM GILDA		7-Apr-97	3208.5	6850.0	10446.0
S-44ST,south block,S44,PLATFORM GILDA		6-Aug-96	1833.7	6850.0	6850.0
S-44,south block,S44,PLATFORM GILDA		6-Aug-96	1833.7	6850.0	6850.0
PROPOSAL 4 (5.5 DOGLEG),south block,S-85,PLATF		29-Jul-97	3633.9	6850.0	10020.0
S-85 ST 2 PROPOSAL 1,south block,S-85 ST 2,PLA		6-Aug-96	4621.0	6850.0	6850.0
PROPOSAL 1,south block,S-85 (S-49 RD),PLATFORM		6-Aug-96	3825.8	6850.0	6850.0
PROPOSAL 2,south block,S-85 (S-49 RD),PLATFORM		6-Aug-96	3587.5	6850.0	10476.0
PROPOSAL 3 (5.0 DOGLEG),south block,S-85,PLATF		6-Aug-96	3616.8	6850.0	9987.0
SIDETRACK 2,south block,S-85 ST2,PLATFORM GILD		23-Jul-97	3633.3	6850.0	10167.0
S-85 MWD,south block,S-85,PLATFORM GILDA		23-Jul-97	3633.3	6850.0	10167.0
SIDETRACK,south block,S-85 ST,PLATFORM GILDA		23-Jul-97	3633.3	6850.0	10167.0
S49,south block,S49,PLATFORM GILDA		23-Jul-97	3061.1	6850.0	6850.0
S-81 PROPOSAL,south block,S-81,PLATFORM GILDA		6-Aug-96	4422.4	6850.0	10659.0
S-81 PROPOSAL 1,south block,S-81,PLATFORM GILD		6-Aug-96	4368.6	6850.0	10737.0
PROPOSAL 3,south block,S-83,PLATFORM GILDA		6-Aug-96	4437.2	6850.0	10488.0
S59,south block,S59,PLATFORM GILDA		23-Jul-97	4314.1	6850.0	6850.0
S59ST1,south block,S59,PLATFORM GILDA		23-Jul-97	4244.6	6850.0	6850.0
PROP 2 (8.0/100 DL),south block,S-77 RD,PLATFO		6-Aug-96	6637.4	6850.0	6850.0
PROP 1 (10.0/100 DL),south block,S-77 RD,PLATF		6-Aug-96	6637.4	6850.0	6850.0
S-37,south block,S-37,PLATFORM GILDA		23-Jul-97	5069.6	6850.0	6850.0
MULTISHOT GYRO S-37,south block,S-37,PLATFORM		23-Jul-97	5977.9	6850.0	6850.0
DMWD,south block,S-77 RD,PLATFORM GILDA		23-Jul-97	5064.1	6850.0	6850.0
S-77,south block,S-37,PLATFORM GILDA		23-Jul-97	5064.1	6850.0	6850.0
S-79 ST 2,south block,S-79 ST2,PLATFORM GILDA		6-Aug-96	4609.3	6850.0	6850.0
[1313]SW-79,south block,S-79,PLATFORM GILDA		6-Aug-96	4617.6	6850.0	6850.0
PROPOSAL 2,south block,S-79 ST2,PLATFORM GILDA		6-Aug-96	4603.1	6850.0	6850.0
S-79 ST2,south block,S-79 ST2,PLATFORM GILDA		23-Jul-97	4597.0	6850.0	6850.0
S-79 ST 1,south block,S-79 ST 1,PLATFORM GILDA		23-Jul-97	4599.3	6850.0	6850.0
S41,south block,S41,PLATFORM GILDA		23-Jul-97	5138.2	6850.0	6850.0
S-79 MWD,south block,S-79,PLATFORM GILDA		23-Jul-97	4611.7	6850.0	6850.0
S-42,south block,S42,PLATFORM GILDA		23-Jul-97	3038.4	6850.0	6850.0
S-3 ST3,south block,S3,PLATFORM GILDA		23-Jul-97	4101.9	6850.0	6850.0
S-3 ST2,south block,S3,PLATFORM GILDA		23-Jul-97	4101.9	6850.0	6850.0
S-3 ST1,south block,S3,PLATFORM GILDA		23-Jul-97	4101.9	6850.0	6850.0
S-3 OH,south block,S3,PLATFORM GILDA		23-Jul-97	4216.8	6850.0	6850.0
S-71,south block,S71,PLATFORM GILDA		23-Jul-97	4428.2	6850.0	6850.0
S-71G,south block,S71,PLATFORM GILDA		30-Oct-96	4419.4	6850.0	6850.0
S-14 (A2),south block,S-14 (A2),PLATFORM GILDA		18-Apr-97	4557.9	6850.0	6850.0
S-14ST,south block,S14,PLATFORM GILDA		23-Jul-97	4482.5	6850.0	6850.0
S-14,south block,S14,PLATFORM GILDA		23-Jul-97	4482.5	6850.0	6850.0
S27F,south block,S27,PLATFORM GILDA		23-Jul-97	4788.2	6850.0	6850.0
S-27,south block,S27,PLATFORM GILDA		23-Jul-97	4775.7	6850.0	6850.0
S-23ST,south block,S23,PLATFORM GILDA		23-Jul-97	4028.2	6850.0	6850.0
S-23,south block,S23,PLATFORM GILDA		23-Jul-97	4028.2	6850.0	6850.0
S8,south block,S8,PLATFORM GILDA		23-Jul-97	3391.8	6850.0	6850.0
S-46,south block,S46,PLATFORM GILDA		23-Jul-97	3440.0	6850.0	6850.0
S-4,south block,S4,PLATFORM GILDA		23-Jul-97	1854.9	6850.0	6850.0
S-33RD,south block,S33 RD,PLATFORM GILDA		23-Jul-97	4661.2	6850.0	6850.0
S-33,south block,S33,PLATFORM GILDA		23-Jul-97	4661.2	6850.0	6850.0
S-21,south block,S21,PLATFORM GILDA		23-Jul-97	3338.4	6850.0	6850.0
S13,south block,S13,PLATFORM GILDA		23-Jul-97	2370.8	6850.0	6850.0
S45,south block,S45,PLATFORM GILDA		23-Jul-97	2114.7	6850.0	7920.0
S31,south block,S31,PLATFORM GILDA		23-Jul-97	3199.6	6850.0	8690.3
S17,south block,S17,PLATFORM GILDA		23-Jul-97	3943.0	6850.0	6850.0
S-43,south block,S43,PLATFORM GILDA		23-Jul-97	4090.2	6850.0	8825.0
S15,south block,S15,PLATFORM GILDA		23-Jul-97	3412.9	6850.0	6850.0
S-25,south block,S25,PLATFORM GILDA		23-Jul-97	4456.6	6850.0	6850.0
S-47,south block,S47,PLATFORM GILDA		23-Jul-97	4845.0	6850.0	6850.0
S-51,south block,S51,PLATFORM GILDA		23-Jul-97	4432.1	6850.0	6850.0
S7,south block,S7,PLATFORM GILDA		23-Jul-97	2786.1	6850.0	6850.0
S12,south block,S12,PLATFORM GILDA		23-Jul-97	3209.0	6850.0	6850.0
S6,south block,S6,PLATFORM GILDA		23-Jul-97	2407.8	6850.0	6850.0
S26,south block,S26,PLATFORM GILDA		23-Jul-97	1190.8	6850.0	6850.0
S30,south block,S30,PLATFORM GILDA		23-Jul-97	1112.4	6850.0	6850.0
S24,south block,S24,PLATFORM GILDA		23-Jul-97	4196.9	6850.0	6850.0
S-29,south block,S29,PLATFORM GILDA		23-Jul-97	4705.4	6850.0	6850.0
S39,south block,S39,PLATFORM GILDA		23-Jul-97	3686.2	6850.0	6850.0
S57,south block,S57,PLATFORM GILDA		23-Jul-97	2626.0	6850.0	6850.0
S-32,south block,S32,PLATFORM GILDA		23-Jul-97	1202.3	6850.0	6850.0
S35,south block,S35,PLATFORM GILDA		23-Jul-97	4795.8	6850.0	6850.0
S-10,south block,S10,PLATFORM GILDA		23-Jul-97	4433.6	6850.0	6850.0
S-50,south block,S-10 (S-50),PLATFORM GILDA		23-Jul-97	4433.6	6850.0	6850.0
S16,south block,S16,PLATFORM GILDA		23-Jul-97	4175.0	6850.0	6850.0
S-75,south block,S75,PLATFORM GILDA		23-Jul-97	4259.0	6850.0	6850.0
S2,south block,S2,PLATFORM GILDA		23-Jul-97	3694.7	6850.0	6850.0
S-5,south block,S5,PLATFORM GILDA		23-Jul-97	4044.1	6850.0	6850.0
S-9,south block,S9,PLATFORM GILDA		23-Jul-97	3909.6	6850.0	6850.0
S-1,south block,S1,PLATFORM GILDA		23-Jul-97	3343.6	6850.0	6850.0

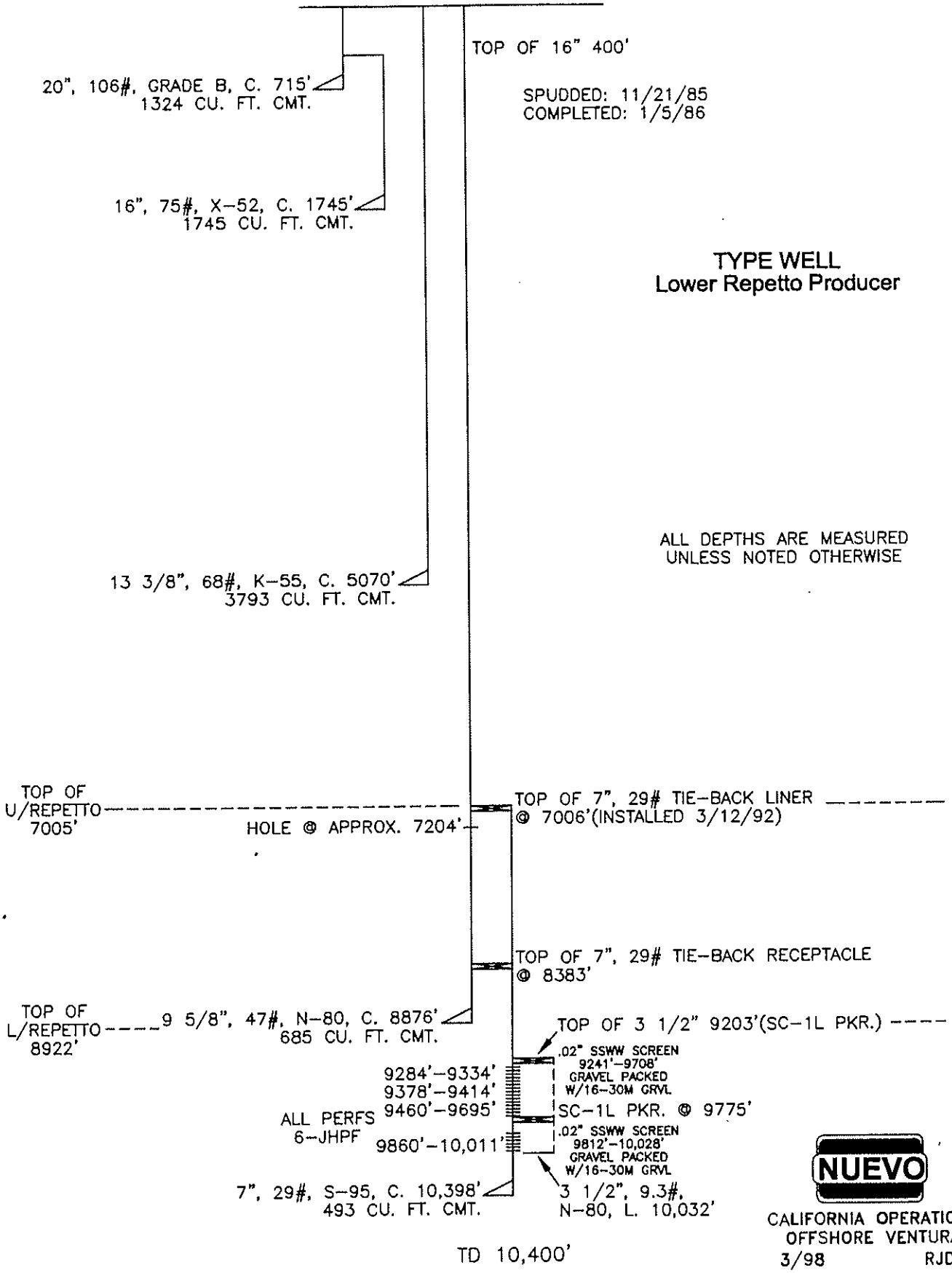
S-19,south block,S19,PLATFORM GILDA	23-Jul-97	2621.7	6850.0	6850.0
S-55,south block,S55,PLATFORM GILDA	23-Jul-97	3387.5	6850.0	6850.0
S-48,south block,S-40&ST (S48),PLATFORM GILDA	23-Jul-97	2651.4	6850.0	6850.0
S-40,south block,S40,PLATFORM GILDA	6-Aug-96	2651.4	6850.0	6850.0
S-40ST,south block,S40,PLATFORM GILDA	30-Oct-96	2651.4	6850.0	6850.0
S-36 ST2 (A1),south block,S-36 ST2 (A1),PLATFO	3-Sep-97	3505.5	6850.0	6850.0
S-36,south block,S36,PLATFORM GILDA	23-Jul-97	3581.0	6850.0	6850.0
S-36ST,south block,S36,PLATFORM GILDA	6-Aug-97	3439.5	6850.0	6850.0
S-20 (A1),south block,S20 (A1),PLATFORM GILDA	10-Sep-97	3395.0	6850.0	6850.0
S20,south block,S20,PLATFORM GILDA	23-Jul-97	2394.8	6850.0	6850.0
S-66 (Rev. A0),south block,S-66 (Rev. A0),PLAT	7-Oct-97	3519.3	6850.0	6850.0
S-66 (Rev. A0),south block,S-66 (Rev. A0),PLAT	7-Oct-97	3521.7	6850.0	6850.0
prop2673,south block,S-69,PLATFORM GILDA	6-Aug-96	6692.2	6850.0	6850.0
SEEKER GYRO,south block,S-69,PLATFORM GILDA	23-Jul-97	5303.2	6850.0	6850.0
S-69,south block,S-69,PLATFORM GILDA	23-Jul-97	5303.1	6850.0	6850.0
S-68 (A1),south block,S-68 (A1),PLATFORM GILDA	5-Aug-97	3343.1	6850.0	6850.0
PROPOSAL 1,south block,S-62,PLATFORM GILDA	29-Jul-97	3883.0	6850.0	6850.0
S-28 (Rev. B1),south block,S-62,PLATFORM GILDA	6-Oct-97	3505.7	6850.0	6850.0
PROPOSAL 1,south block,S-62,PLATFORM GILDA	6-Aug-96	3829.2	6850.0	6850.0
nudge prop,south block,S-62,PLATFORM GILDA	6-Aug-96	3890.6	6850.0	6850.0
S-62 OH,south block,S-62,PLATFORM GILDA	23-Jul-97	1211.5	6850.0	6850.0
PROPOSAL 1,south block,S-62,PLATFORM GILDA	6-Aug-96	3830.6	6850.0	6850.0
S-66 (Rev. A1),south block,S-66 (Rev. A1),PLAT	6-Oct-97	3522.4	6850.0	6850.0
PROPOSAL 1,south block,S-62,PLATFORM GILDA	6-Aug-96	3835.7	6850.0	6850.0
nudge prop,south block,S-62,PLATFORM GILDA	6-Aug-96	3896.8	6850.0	6850.0
S-66 (Rev. A0),south block,S-66 (Rev. A0),PLAT	7-Oct-97	3531.9	6850.0	6850.0
PROPOSAL 1,south block,S-62,PLATFORM GILDA	6-Aug-96	3834.4	6850.0	6850.0
nudge prop,south block,S-62,PLATFORM GILDA	6-Aug-96	3895.6	6850.0	6850.0
S-66 (Rev. A0),south block,S-66 (Rev. A0),PLAT	7-Oct-97	3529.6	6850.0	6850.0
S-52 (S-62 RD2) (A1.2),south block,S-52 (S-62	12-Apr-97	1202.5	6850.0	10744.0
S-52 (S-62 RD2) (A1.3),south block,S-52 (S-62	12-Apr-97	1227.9	6850.0	10744.0
S-52 RD 1 (A2),south block,S-52 RD1 (A2),PLATF	26-Mar-97	1429.4	6850.0	10744.0
S-52 (S-62 RD) (A3),south block,S-52 (S-62 RD)	11-Apr-97	1429.4	6850.0	10744.0
S-62 RD2,south block,S-62 RD2,PLATFORM GILDA	6-Aug-97	1193.7	6850.0	10744.0
S-52 (S-62),south block,S-52 (S-62 RD),PLATFOR	25-Apr-97	1446.2	6850.0	6850.0
S-64 (A5),south block,S-64 (A5),PLATFORM GILDA	29-Jul-97	4045.1	6850.0	6850.0
0,south block,,PLATFORM GILDA	5-Sep-97	6838.0	6850.0	6850.0
S-87 (A4),south block,S-87 (A4),PLATFORM GILDA	30-Oct-96	3420.2	6850.0	6850.0
S-87 (A5),south block,S-87 (A5),PLATFORM GILDA	29-Jul-97	3420.2	6850.0	6850.0
TEST,south block,EASTERN WELL,PLATFORM GILDA	24-Oct-96	4035.9	6850.0	6850.0
S28 (Rev. A5),south block,S28 (Rev. A5),PLATFO	13-Oct-97	4282.0	6850.0	6850.0
S28 (A1),south block,S28 (REV. A2),PLATFORM GI	10-Sep-97	4605.1	6850.0	6850.0
S-28 (B.0),south block,S-28 (B.0),PLATFORM GIL	12-Nov-97	4453.3	6850.0	6850.0
S-28 RD PROPOSAL,south block,S-28 RD,PLATFORM	28-Jan-98	8325.4	7350.0	7350.0
S-28,south block,S28,PLATFORM GILDA	29-Dec-97	4006.4	6850.0	6850.0
S-28 SIDETRACK #1 MWD,south block,S-28 ST #1,P	12-Feb-98	4006.4	6850.0	6850.0
S-61 REDRILL (Rev. A.1),south block,S-61 REDRI	30-Jan-98	0.0	10744.0	10744.0
S-61,south block,S61,PLATFORM GILDA	2-Jan-98	0.0	6850.0	10596.0

Releasable to public
Name: RJ Date: 10-31-13

SANTA CLARA FIELD
Platform Gilda
Well #S-61

Releasable to public
Name: RW Date: 10-31-13

RT: 107' CURRENT Slot #23



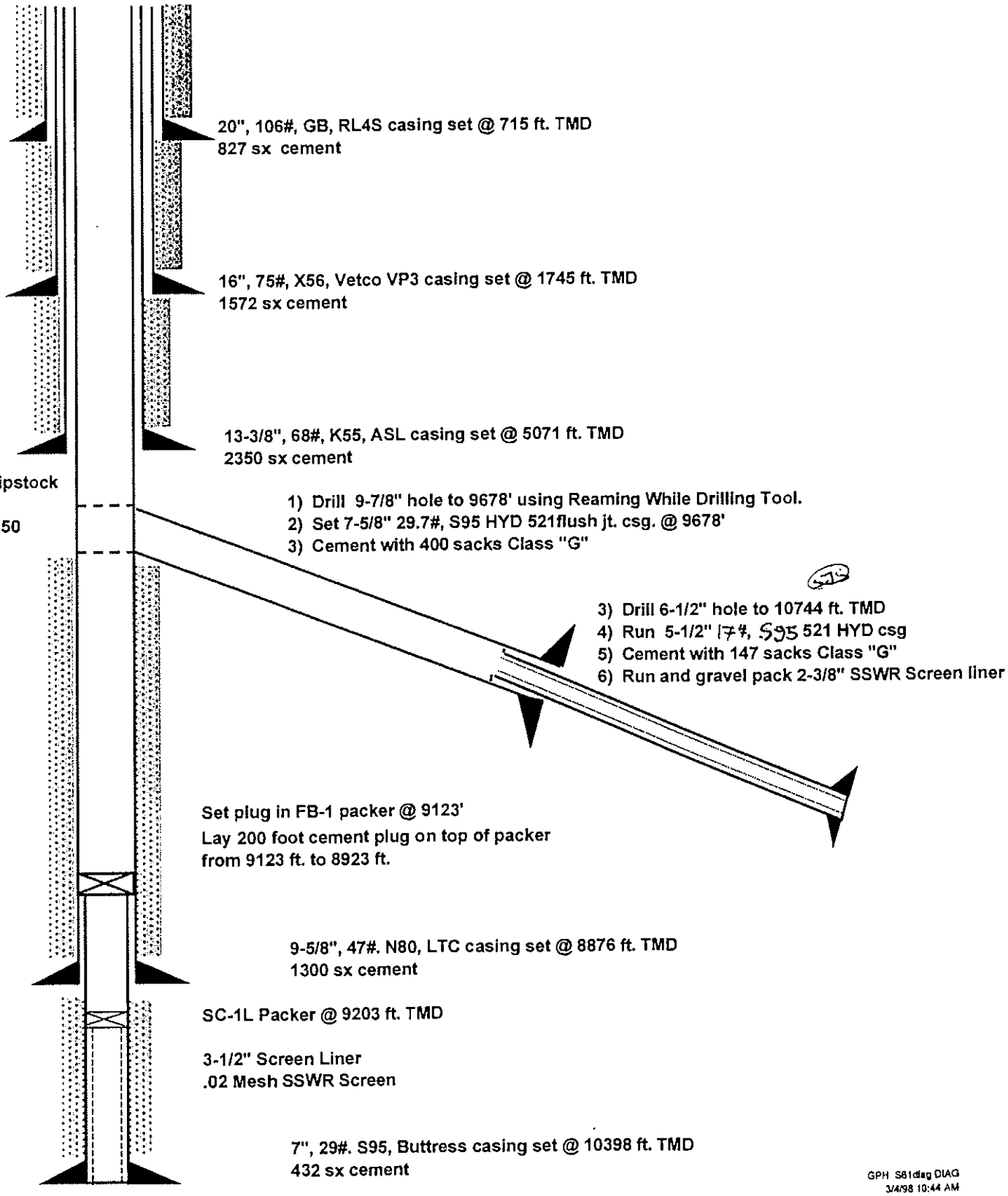
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CALIFORNIA OPERATIONS
OFFSHORE VENTURA
3/98 RJDIII

Torch Operating Company
Platform Gilda, S-61Redrill (slot #23)
OCS P-0216
Santa Clara Field
Santa Barbara County, Ca.

PROPOSED

Releasable to public
Name: KW Date: 10-31-13



GPH S61diag DIAG
3/4/98 10:44 AM

COPY TO REGL...

Releasable to public
Name: RW Date: 10/31/13

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20754	S-87	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
SUBSEQUENT REPORT X	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041681 Y=747973 N341056 W119257	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached Well Summary Report w/schematic, directional survey, and well history for close out of Sundry

RECEIVED
JUL - 8 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

7/201

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	Manager, ES&RC
30. AUTHORIZING SIGNATURE	31. DATE
	JUL 01 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 7/24/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

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Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 12/9/96 to 12/15/96

Week No. 1

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Company
2. Well No.:	S-87	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	805-739-9111
4. API Number:	04-311-20754	10. Spud Date:	12/15/96
5. Water Depth:	205'	11. TD Date:	N/A
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 750' MD
14. Mud Weight: N/A
15. Last BOP Test Date: N/A Test Pressure (psi):
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

Spud well 12/15/96. Drill and survey to 750'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: KW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 12/16/96 to 12/23/96

Week No. 2

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-87
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20754
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Company
8. Rig Name: Torch 10
9. Contact/Phone No.: 805-739-9111
10. Spud Date: 12/15/96
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 1750' MD
14. Mud Weight: 9.7
15. Last BOP Test Date: 12/22/96 Test Pressure (psi): 250 low/1000 high
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

Problems with hole opener. Test o.k. @ +17' level. Junk problems. Ran 20" casing & set @ 706'. Cement with 910 sxs Class "G". Pressure test all BOP's and safety valves to MMS Specs. Drilled and surveyed to 1750'. Performed leak off test with 11.5# E MW.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Name:_____Date:_____

Releasable to public
Name: KW Date: 10/31/97

WEEKLY ACTIVITY REPORT

Period: 12/24/96 to 12/31/96

Week No. 3

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-87
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20754
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Company
8. Rig Name: Torch 10
9. Contact/Phone No.: 805-739-9111
10. Spud Date: 12/15/96
11. TD Date: 12/31/96
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: 11.8
15. Last BOP Test Date: 12/25/96 Test Pressure (psi): 250 low/1800 high
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

Re-open hole to 1750'. Ran csg and set @ 1730'. Cement with 1550 sxs Class "G". Pressure test seals (12/24/96) @ 700 psi for 15 min. Pressure test casing @ 1400 psi for 30 min. Drill to 5520' TD on 12/31/96.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: LW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 01/01/97 to 01/05/97

Week No. 4

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Company
2. Well No.:	S-87	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	805-739-9111
4. API Number:	04-311-20754	10. Spud Date:	12/15/96
5. Water Depth:	205'	11. TD Date:	12/31/96
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: 11.7
15. Last BOP Test Date: 12/25/96 Test Pressure (psi): 250 low/1800 high
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

RIH to 5520' and survey. RIH with 9 5/8" casing and set @ 5427'. Cement with 1170 sxs Class "G". MU Schlumberger and run Temp. survey to 3000' - indicating cement @ 1100'. Retest surface lines to 1000' - o.k. ND BOPE and NU casing spools. Attempted to install emergency slips - spool screws sheared. ND casing spool and remove slip.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972
9 5/8"	5427'	3000	12.4 ppg	1677

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Releasable to public
Name: RW Date: 10/31/13

WEEKLY ACTIVITY REPORT
Period: 01/06/97 to 01/12/97

Week No. 5

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-87
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20754
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Company
8. Rig Name: Torch 10
9. Contact/Phone No.: 805-739-8111
10. Spud Date: 12/15/96
11. TD Date: 12/31/96
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: N/A
15. Last BOP Test Date: 01/08/97 Test Pressure (psi): 250 low/1400 high
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

NU 20 3/4" 3M x 13 5/8" 5M with slip bowl. Install emergency pack off. NU 13 5/8" 5M x 13 5/8" 5M tubing spool. Test 9 5/8" pack off to 5M for 30 min. - o.k. NU BOPE and prep for test. Ran GR logs to 5420'. Bridge plug testing troubles. ND with bridge plug set @ 65'. Retest casing from surface to bull plug @ 3271' - 300# low - good & 2500# high - good for 20 min. '0' leak off. Troubles with bull plug - lost in hole @ 4016'. Push to bottom of hole @ 5520' TD. Opted to leave in hole rather than cause damage uphole. Top of fish 5420' MD - 5319' TVD. ND BOPE. RD and temp. abandon S-87. Test flange and casing to 2500 psi for 30 min - o.k. Release rig 01/10/97.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972
9 5/8"	5427'	3000	12.4 ppg	1667

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		
01/06/97	USI/GR/Nuetron - CAL	1200' - 5390'	1
01/06/97	GR/Nuetron Correlation	5390' - 5420'	2

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 03/16/97 to 03/23/97

Releasable to public
Name: RW Date: 10/31/13

Week No. 6

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Company
2. Well No.:	S-87	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	805-739-9111
4. API Number:	04-311-20754	10. Spud Date:	12/15/96
5. Water Depth:	205'	11. TD Date:	12/31/96
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: N/A
15. Last BOP Test Date: 03/16/97 Test Pressure (psi): 250 low/2500 high
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

NU xo spool, riser, and BOP's. Run BOP tests. Pressure test annular 250 low/2100 high. Pressure test casing @ 2500 psi for 30 min. PU 3 1/2" 501 tubing. Tag @ 5418' and circulate. RIH with tubing. Tag @ 5420'. Space out - bottom shot @ 5409' - set packer @ 5105'. POOH to 5090' - set packer @ 4778'. RIH. Tag top of sand @ 5134' & pressure test @ 1000 psi. Space out tbg - bottom shot @ 5108' - set packer & pressure test lines @ 3000 psi. Pressure test lines to 5000 psi. Pump H2S fracture treatment - 2000 psi on annulus. Bleed down & hold '@ 500 psi. Perfs from 5189' - 5223', 5270' - 5409', and 5033' - 5108'. RIH. Set packer @ 4904'. RU Halliburton lines to tbg. Pressure test lines @ 6500 psi - place 2000 psi on backside. Establish injectivity and fracture well as programed. Final pumping pressure - 3074 psi., S.I.P. 2435 psi - 1 min., S.I.P. 2358 psi - 5 min., S.I.P. 2160 psi - 15 min., S.I.P. 2016 psi - 30 min., S.I.P. 1783 psi., S.I. @ tubing. Monitor well.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972
9 5/8"	5427'	3000	12.4 ppg	1667

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		
01/06/97	USI/GR/Nuetron - CAL	1200' - 5390'	1
	GR/Nuetron Correlation	5390' - 5420'	2
03/21/97	GR & Collar Locator		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 03/24/97 to 03/31/97

Releasable to public
Name: RW Date: 10/31/13

Week No. 7

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Company
2. Well No.:	S-87	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	805-739-9111
4. API Number:	04-311-20754	10. Spud Date:	12/15/96
5. Water Depth:	205'	11. TD Date:	12/31/96
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: 9.7
15. Last BOP Test Date: 03/16/97 Test Pressure (psi): 250 low/2500 high
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

Open well and flow to production for approx. 7 hrs. Circ. 9.5# KCL down tbg and hold 200 psi on annulus, work up to 9.7# KCL and hold. Run 5 1/2" casing 17# screen liner - set @ 5410'. Ran 133 jts of 2 7/8" tbg. PU dual head packer and SCSSV BV assembly. MU line and cable to hanger and land tbg. Hanger @ 1630' w/BPV in place. TD 4867' (bottom of shroud). ND BOPE. NU production tree. Pump on and fluid to surface 3/29/97. Release rig 3/29/97.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1550 sxs
9 5/8"	5427'	3000	12.4 ppg	1170 sxs
5 1/2"	5410'	1500	N/A	136

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		
01/06/97	USI/GR/Nuetron - CAL	1200' - 5390'	1
	GR/Nuetron Correlation	5390' - 5420'	2
03/21/97	GR & Collar Locator		

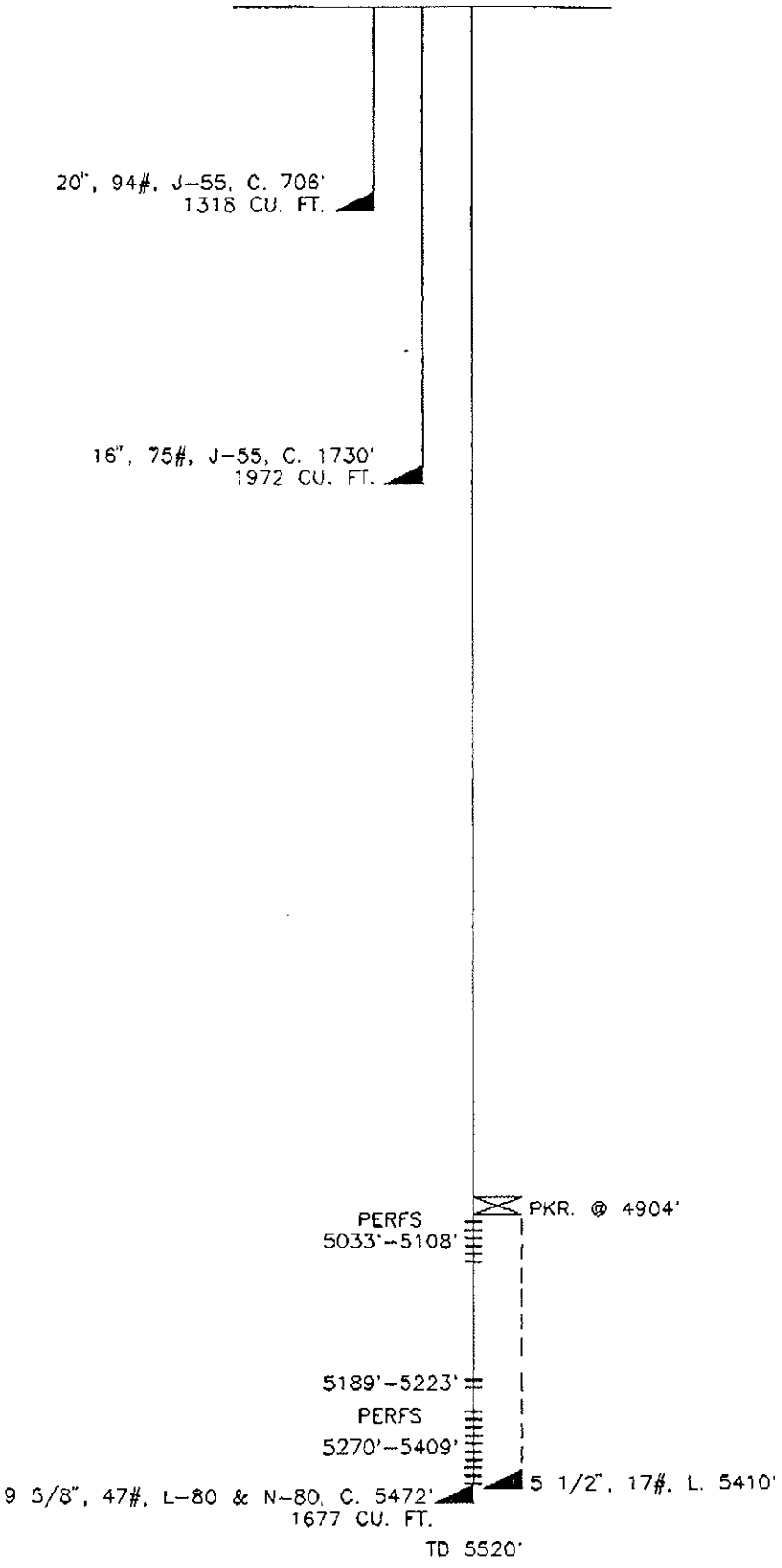
Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25. Geochem Sample:

SANTA CLARA UNIT
Well #S-87

Releasable to public
Name: KW Date: 10/31/13

Slot #29



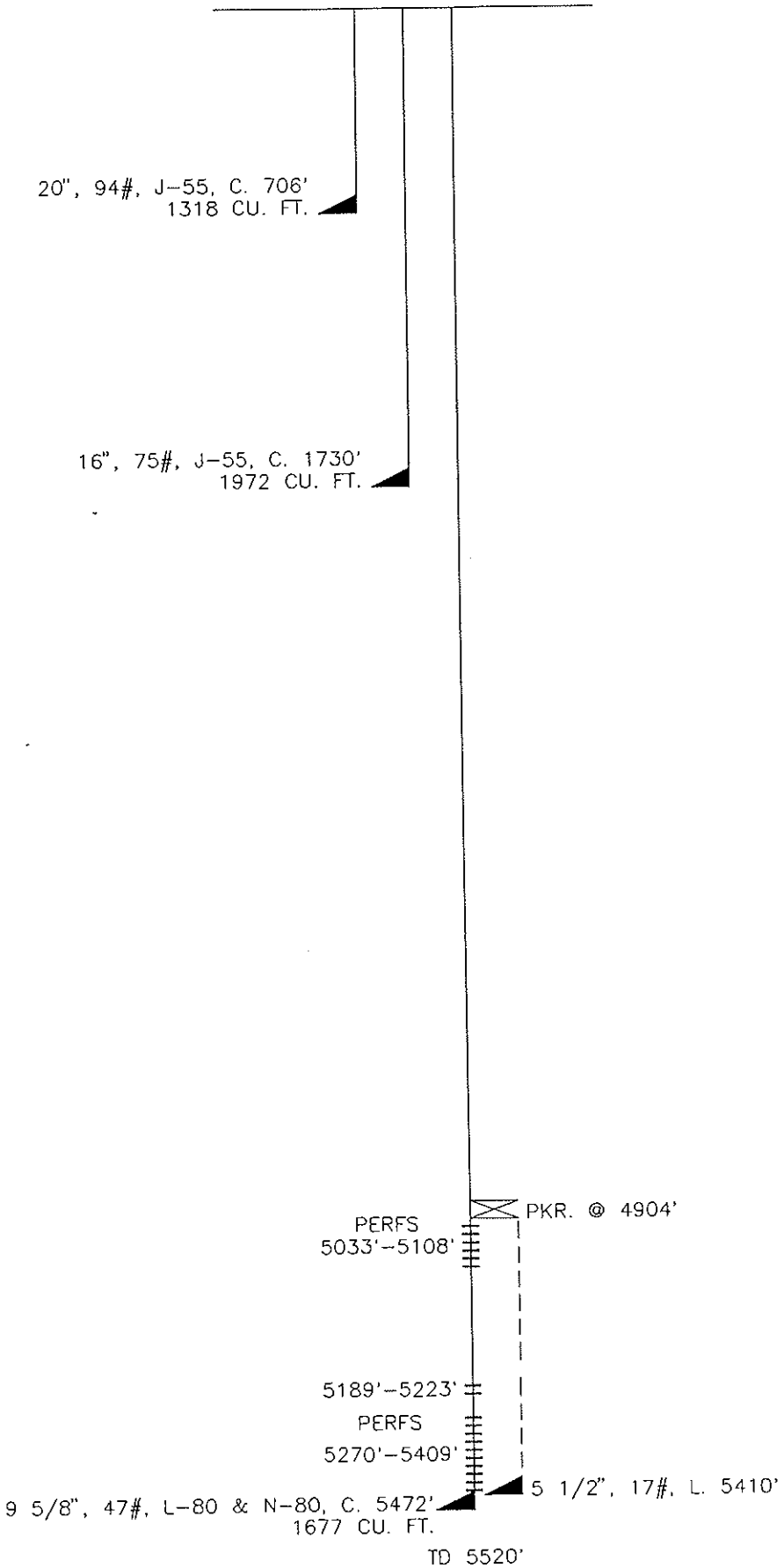
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CALIFORNIA OPERATIONS
OFFSHORE VENTURA
6/97 RJDIII

SANTA CLARA UNIT
Well #S-87

Releasable to public
Name: RW Date: 10/31/13

Slot #28



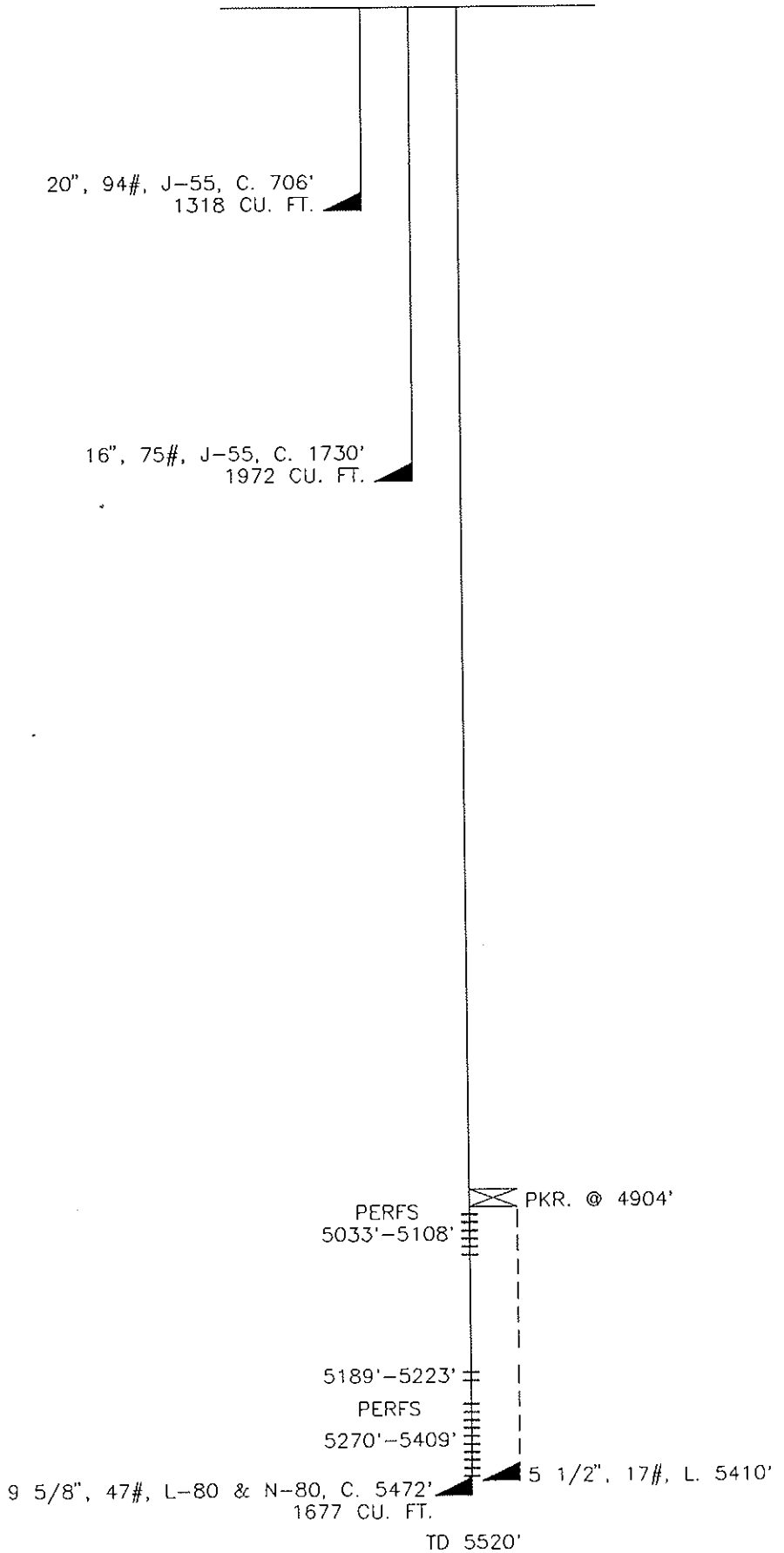
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CALIFORNIA OPERATIONS
OFFSHORE VENTURA
7/97 RJDIII

Releasable to public
Name: LW Date: 10/31/13

SANTA CLARA UNIT
Well #S-87

Slot #28



NUEVO

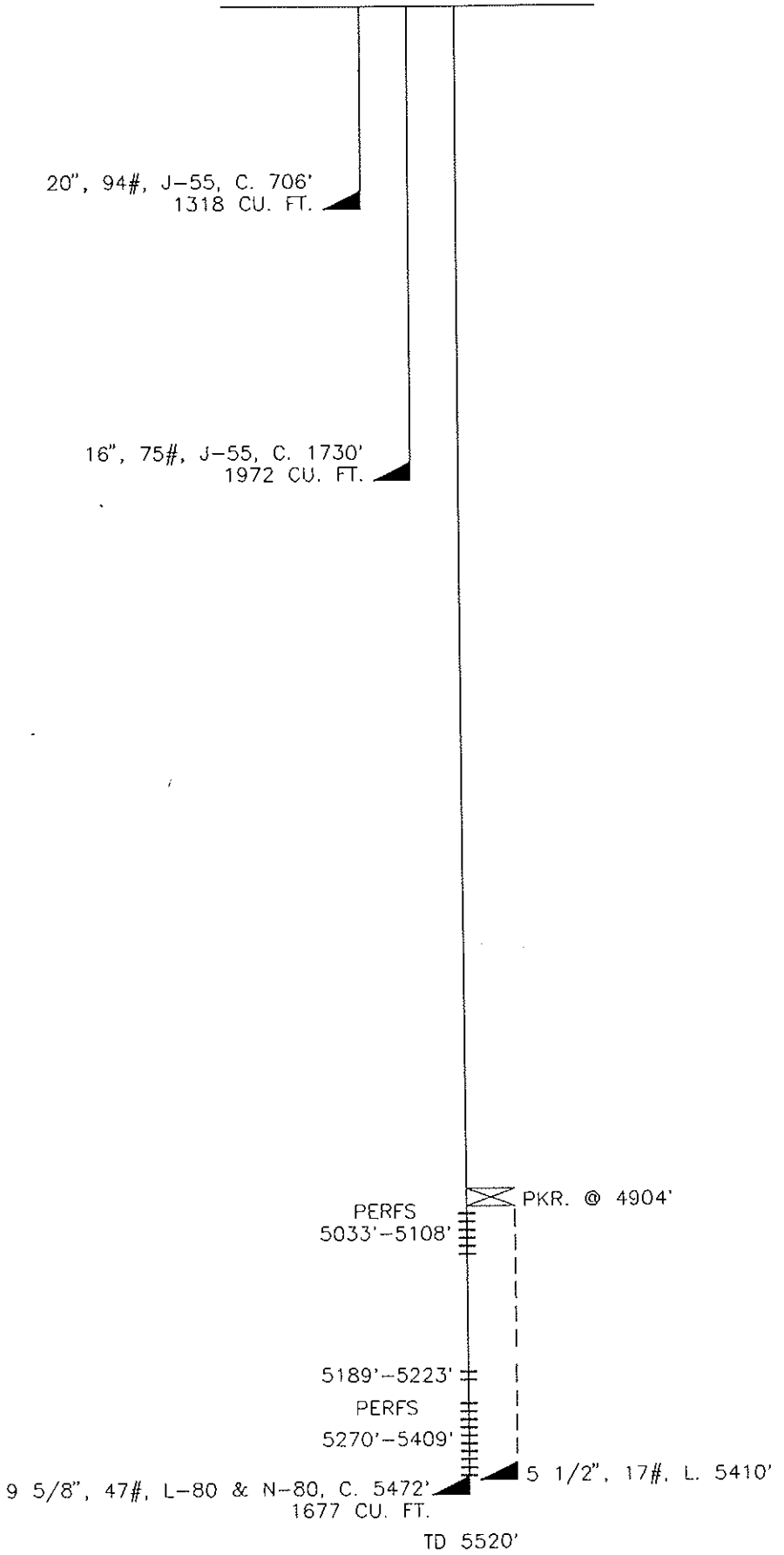
CALIFORNIA OPERATIONS
OFFSHORE VENTURA
7/97 RJDIII

Releasable ... Date:
Name: Date:

SANTA CLARA UNIT
Well #S-87

Releasable to public
Name: KW Date: 10/31/13

Slot #28



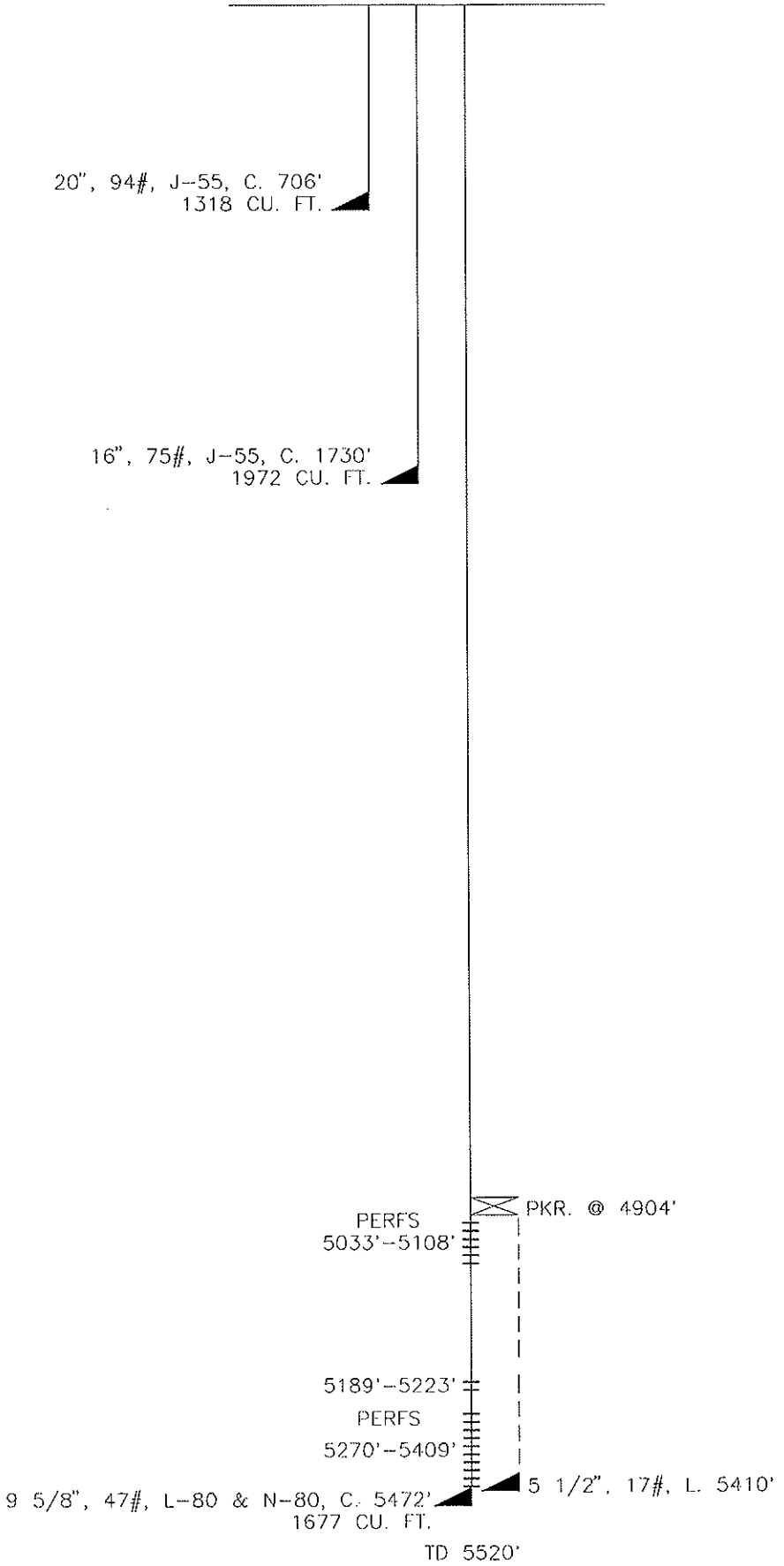
NUEVO

CALIFORNIA OPERATIONS
OFFSHORE VENTURA
7/97 RJDIII

Releasable to public
Name: FW Date: 10/31/13

SANTA CLARA UNIT
Well #S-87

Slot #28



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CALIFORNIA OPERATIONS
OFFSHORE VENTURA
7/97 RJDIII

PROPRIETARY DATA

Releasable to public Name: RW Date: 10/31/13

MINERALS MANAGEMENT SERVI

Submit original plus thre... one copy marked "Public Informat...

OMB No. 1010-0045

Expiration Date: September 30, 1999

SUNDRY NOTICES AND REPORTS ON WELL

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting office)
	56-045-20067-01	C-11	Chevron U.S.A. Inc.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive, Ventura, CA 93003
Pt. Arguello	OCS-P-0450	00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY	___	
			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
Slot 3 677.95' FEL 5110.23' FNL X = 710,993.36 m Y = 3,819,242.40 m UTM 10	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133' (orig.)	HIDALGO - Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Completed operations: Set Model "D" packer @ 11,258'. Perforated 11,051' - 11,061' and performed hydraulic fracture treatment. Cleaned out and re-exposed lower perfs. Completed with 3-1/2" tubing.

Attached: Operations Summary 4/15/97 - 5/7/97 (3 pp.)
C-11 Frac Summary 4/24 - 4/26/97 (3 pp.)
Current Schematic

MINERALS MANAGEMENT SERVICE [redacted] RECEIVED SANTA MARIA DISTRICT

CONFIDENTIAL

JUN 27 1997

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
R. A. PICCIOTTI for G. R. STEINBACH	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE R. A. Picciotti	31. DATE June 10, 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY [signature] Phillip R. Schroeder TITLE District Supervisor

DATE 6/19/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 20170-4817; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

Releasable to public
Name: RW Date: 10/31/13

OPERATIONS SUMMARY REPORT

Field: **Point Arguello** Well: **OCS-P-0450 C-11** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Frac Job**

4-15-97 DAY 1 SUMMARY (6 housr): SKID RIG. MW: 8.5
Skid rig from Well C-1 to C-11.

04-16-97 DAY 2 SUMMARY: INSTALL & TEST BOPE. MW: 8.7
Kill well & install BPV. Remove prod tree. Install & test 13-5/8" 5M BOPE with 3-1/2" and 4-1/2" tbg to 300/3000 psi.

04-17-97 DAY 3 SUMMARY: PULL PROD STRING. MW: 8.7
Remove BPV. R/U W/L. Remove ambient valve f/SSSV & orifice f/GLM @8940'. Pump 596 bbls sea water down csg & tbg. Work tbg to 175K# to release pkr. POOH w/prod tbg & HB pkr.

04-18-97 DAY 4 SUMMARY: SCRAPE CSG. MW: 8.7
RIH w/6-1/8" bit on 7" csg scraper to 11,342' & 9-5/8" scraper to 9569'. POOH.
** ***Mr. Roy Bobbitt with MMS onboard with 2 visitors.***
** ***Received waiver from Mr. Roy Bobbitt with MMS to use 3-1/2" safety valve until 4-1/2" replacement received and tested.***

04-19-97 DAY 5 SUMMARY: SET MODEL "D" PACKER. MW: 8.7
RIH & set Model "D" pkr @11,258'. Test 4-1/2" safety valve to 250 psi lo/ 3000 psi hi, ok. RIH w/Model "F" latching plug.

04-20-97 DAY 6 SUMMARY: SET "F" PLUG IN PACKER. MW: 8.7
RIH w/"F" plug & set in "D" pkr. Test packer & plug t/ 1000 psi for 10 min, ok. Circ. Spot 3 sx sand & test csg, plug & liner lap to 2800 psi f/ 10 min. Located top of sand 15' above plug. POOH.

04-21-97 DAY 7 SUMMARY: PERFORATE.
Install & test shooting flange & lubricator t/1000 psi. RIH w/ 4-1/2" csg gun, 5SPF, 70° phasing, 37 gram charges and perforat f/11,051'-11,061'. Remove shooting flange & change annular element.

04-22-97 DAY 8 SUMMARY: TEST BOPE. RUN FRAC STRING. MW: 8.5
Test BOPE t/ 300/3000 psi. Pull test plug & stand back 28 stands of 3-1/2" tbg. P/U tail ass'y & pkr; test t/6000 psi-OK. Strap into hole f/3261'-6228'. Torque each conn t/5600#. Ext test each conn t/6000 psi.

04-23-97 DAY 9 SUMMARY: SET FRAC PACKER. MW: 8.5
Cont RIH w/4-1/2" frac string. Check torque & ext press test each conn t/6000 psi. M/U Baker "F" nipple b/t pup jts & test to 6000 psi to 9598'. Set Baker retrievamatic pkr @10,767' landing hgr w/55K# on pkr, tail @ 10,797'. Press test annulus t/2500 psi for 15 min-OK. Set XX plug in X nipple @10,780'.

04-24-97 DAY 10 SUMMARY: PERFORM MINI-FRAC. MW: 8.5
Press test frac lines & relief valve t/8350 psi. Test tbg against XX plug @10,780' to 6000 psi for 5 min-OK. Test flowback lines t/4500 psi. Recover XX plug, set gauges in X nipple @ 10,792'. Perform data fracs to determine required rates & pressures. Max rate 30 BPM w/6000 psi. Test lubricator t/2000 psi. Recover gauges. Pump polymer w/50 bbls @1#/gal sand conc, 50 bbl spacer, 61 bbls @2.5 #/gal conc, 58 bbls of frac gel. Perfs screened out. Pressured to 7100 psi. Attempt to backflow well to prod -well died. R/D frac lines & top half of frac tree. R/U flowback lines to choke manifold f/tbg.

Releasable to public
Name: RW Date: 10/31/13

OPERATIONS SUMMARY REPORT

Field: **Point Arguello** Well: **OCS-P-0450 C-11** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Frac Job**

04-25-97 **DAY 11 SUMMARY: PERFORM 2ND MINI-FRAC.** **MW: 8.5**
Reverse out frac gel & sand to prod V-71 @2.6 BPM max rate. Monitor well pressure. Test frac line & pressure relief valve t/7500 psi. Test flowback lines to choke manifold t/4500 psi. Pump mini-frac mixture at 23 BPM @6800 psi. Final treatment pressure 5300 psi @31 BPM. No screen out. R/O fluid.

04-26-97 **DAY 12 SUMMARY: PERFORM FRAC JOB.** **MW: 8.5**
Mix frac fluids. Test lines & perform propent frac job w/1323 bbls fluid & 31,828#'s of propent w/5580-6750 psi surface pressure at rates 35-27 bpm. Flowback well to prod @39 BPH avg w/68-90 psi tbg pressure.
See attache "Hydraulic Fracturing Job Summary" for additional details.

04-27-97 **DAY 13 SUMMARY: FLOW BACK WELL.** **MW: 8.5**
Continue to flowback well to prod & ECI tanks after frac job (758 cum bbls.)

04-28-97 **DAY 14 SUMMARY: FLOW BACK WELL** **MW: 8.5**
Continue to flowback well to prod & ECI tanks (1123 cum bbls.)
** Note: stored fluids passed LC50 Partial Toxicity test.

04-29-97 **DAY 15 SUMMARY: FLOW BACK WELL.** **MW: 8.5**
Cont to flowback well to ECI tanks until rate below 4 BPH. Flowed 108 bbls. Final flowing pressure 4 psi.
** ***Received verbal waiver from MMS to delay BOP test until 4/30/97.***

04-30-97 **DAY 16 SUMMARY: PULL FRAC STRING. TEST BOPE.** **MW: 8.5**
R/D frac tree & unland tbg hgr. Release frac pkr. R/U & pump 10 sx pill down tbg. POOH w/4-1/2" tbg. RIH w/28 stands 3-1/2" tbg. Test BOPE 250/3000 psi for 5 min, retest #4-OK.
** ***Mr. Bob Hime with MMS on platform for inspection.***

05-01-97 **DAY 17 SUMMARY: TEST BOPE. CLEAN OUT WELL.** **MW: 8.5**
Cont test BOPE 250/3000 psi-OK. RIH w/4-1/2" tbg to 3784'. C/O fill f/11,176'-11,214'. Clean out sand.

05-02-97 **DAY 18 SUMMARY: PULL "F" PLUG, TBG,.** **MW: 8.5**
Clean out fill to top of plug @11,261'. Latch "F" plug & release f/pkr-pull to 11,081'. Shut down for missile launch. Pull "F" plug, & 4-1/2" tbg. Est breakdown, pump 2 BPM @600 psi-450 psi in 5 min.

05-03-97 **DAY 19 SUMMARY: RUN TBG.** **MW: 8.5**
M/U 2-3/8" crossover, RIH w/2-3/8" stinger. Secure well & platform for missile launch. Fill hole w/20 bbls sea water. Run 3-1/2" prod tbg to Model "D" pkr @11,258'.

05-04-97 **DAY 20 SUMMARY: CIRCULATE WELL. PULL TBG.** **MW: 8.5**
Rev circ. Evacuate platform for missile launch. Pull to 9570' & circ. Hole full of pkr fluid. POOH w/tbg.
** ***Mr. Roy Bobbitt with MMS visited platform.***

05-05-97 **DAY 21 SUMMARY: RUN PROD TBG.** **MW: 8.5**
Run prod tbg testing all conn t/5000 psi. Shut in & secure well for missile launch. RIH w/3-1/2" Hydril prod tbg testing t/5000 psi. M/U Baker Model "HB" pkr, 7 GLM's, & Baker Model "FV-6" SSSV.

Releasable to public
Name: RW Date: 10/31/13

OPERATIONS SUMMARY REPORT

Field:**Point Arguello** Well: **OCS-P-0450 C-11** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Frac Job**

05-06-97 DAY 22 SUMMARY: **SET PACKER.** **MW: 8.5**

Finish M/U SSSV & control line & test. M/U landing jt, tbg hgr & hook-up control line. Land tbg hgr & test seals. Set XX plug in X nipple. Set 9-5/8" "HB" pkr @ 9504', tail @ 9689'. Install BPV. N/D BOP stack. Attempt to set tree on hgr, hgr not aligned in tbg hd. P/U hgr & rotate into proper orientation. N/U tree and test to 5000 psi for 15 min.

** ***Mr. Phil Schroeder w/MMS approved p/u tbg hgr & rotating for alignment w/out rigging up BOPE stack.***

05-07-97 DAY 23 SUMMARY: **RELEASE RIG.** **MW: 8.5**

Prep to skid rig. Pump 120 bbls to prod V-9. Skid rig. R/D choke & kill lines. Release rig @ 1800 hrs.

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Name: LW Date: 10/31/13

HYDRAULIC FRACTURING JOB SUMMARY

Point Arguello Field
Platform Hidalgo C-11
April 24-26, 1997

F.E.T. (Formation Evaluation Testing)
Thursday April 24, 1997

Purpose: Establish injectivity into reservoir and determine closure pressure.

1st Pump-in	Start Time=11:11AM Finish Time=11:40 AM
Tubing	Vol=234 BBLS of 2% KCL fluid
	Max Q= 23.8 BPM Max P=6129 PSI
Casing	Vol=8 BBLS of seawater
	Max Q=2.5 BPM Max P=2645 PSI

2nd Pump-in	Start Time=12:55 PM Finish Time=1:22 PM
Tubing	Vol=111 BBLS of 2% KCL fluid
	Max Q= 24.0 BPM Max P=6513 PSI
Casing	Vol=2 BBLS of seawater
	Max Q=2.5 BPM Max P=2631 PSI

Downhole Pressure Gauges

Tandem GRC gauges along with a single strain gauge were landed in the Otis XN profile below a perforated pup joint prior to performing the F.E.T. tests. Both gauges recorded valid data. These gauges were recovered and the data was downloaded before the minfrac.

Mini Frac
Thursday April 24, 1997

Purpose: Determine fluid efficiency of cross-linked frac fluid system. Confirm closure pressure.

Mini Frac	Start Time=7:58 PM Finish Time=8:35 PM
Tubing	Vol=242 BBLS of Frac fluid
	Max Q= 31.5 BPM Max P=7500
(**Screened out at max surface pressure while 1 ppg proppant entered the perforations**)	
	Proppant Pumped=5443 lbs of 20/40 resin-coated Optiprop
	(less than 1000 lbs placed in reservoir)
Casing	Vol=15 BBLS of seawater
	Max Q=2.5 BPM Max P=2769 PSI

Releasable to public
Name: KW Date: 10/31/13

Following the screenout, the flowback line was opened in an attempt to flow back the frac fluid. No fluid flowed back from well C-11. During the night, the unloader valve above the frac packer was stroked open and the frac string was circulated clear using the rig pumps.

F.E.T. (Formation Evaluation Testing)
Friday April 25, 1997

Purpose: Establish injectivity into reservoir and determine closure pressure.

3rd Pump-in Start Time=10:29AM Finish Time=10:56AM
Tubing Vol=233 BBLS of 2% KCL fluid
Max Q= 20.6 BPM Max P=6966 PSI
Casing Vol=9 BBLS of seawater
Max Q=2.5 BPM Max P=2741 PSI

Mini Frac
Friday April 25, 1997

Purpose: Determine fluid efficiency of cross-linked frac fluid system. Confirm closure pressure.

Mini Frac Start Time=3:30 PM Finish Time=3:55 PM
Tubing Vol=540 BBLS of Frac fluid
Max Q= 32.0 BPM Max P=6559 PSI
Fluid Loss Additives (FLA) Pumped=250 lbs of silica flour
Casing Vol=1 BBL of seawater
Max Q=2.5 BPM Max P=2750 PSI

Main Frac
Saturday April 26, 1997

Purpose: Place proppant in reservoir to improve well productivity.

Main Frac Start Time=2:58 PM Finish Time=3:58 PM
Tubing Vol=1491 BBLS of Frac fluid
Max Q= 33.5 BPM Max P=6654 PSI

FLA Pumped=300 lbs of Flowsaver, 2094 lbs of 100 mesh sand
Proppant Pumped=29736 lbs of 20/40 resin-coated Optiprop
Casing Vol=9 BBLS of seawater
Max Q=2.5 BPM Max P=2500 PSI

Releasable to public
Name: EW Date: 10/31/13

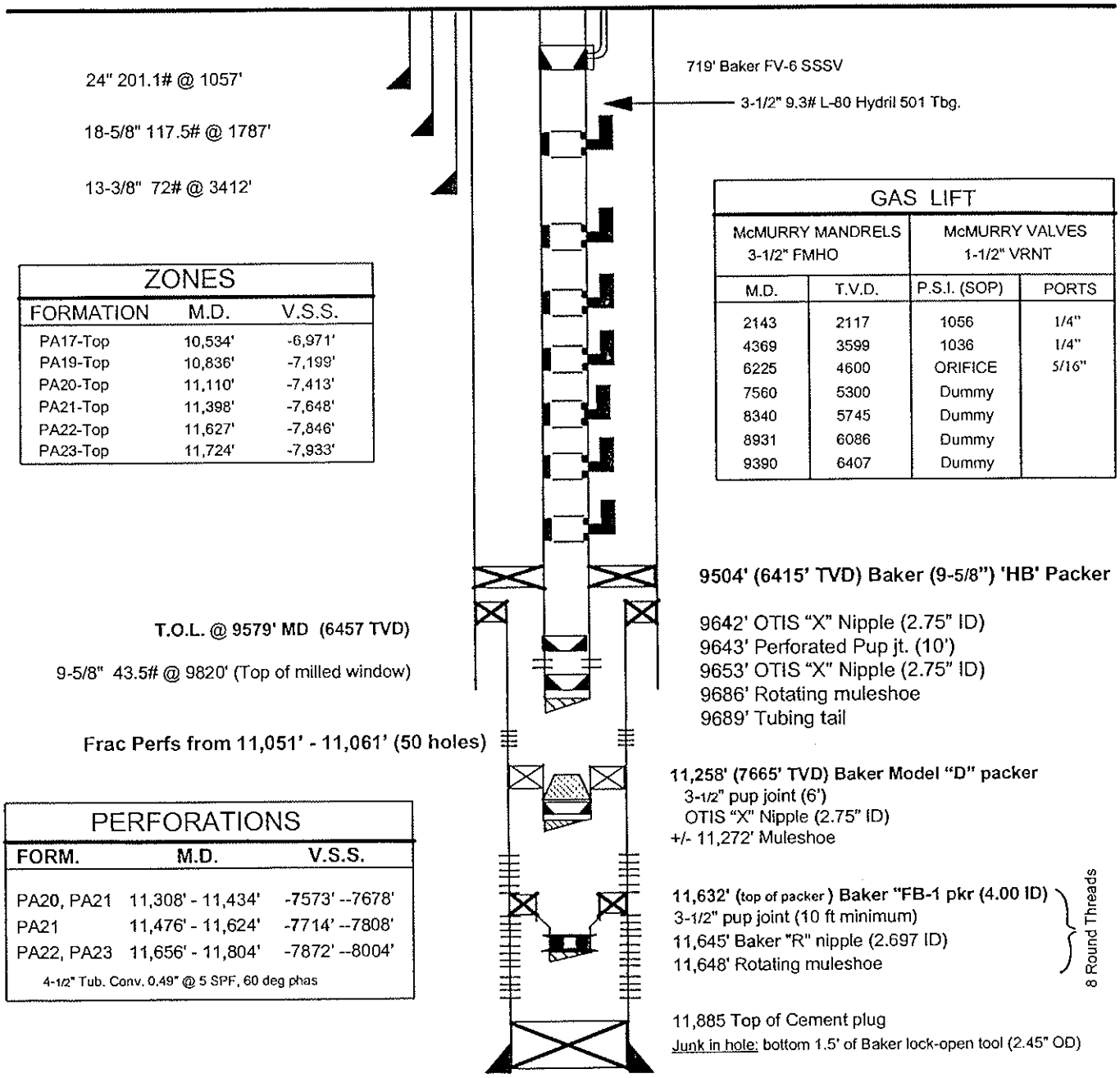
Following the flush, the flowback line was opened to flow back the frac fluid. An initial flowback rate was set at 27 gallons per minute. The choke was then opened fully to establish a 47 gallons per minute (1.1 BPM) flowback rate from well C-11.

RMQ:
May 24, 1997

Releasable to public
Name: RW Date: 10/31/13

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	Hidalgo **C-11** (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

CURRENT



ZONES

FORMATION	M.D.	V.S.S.
PA17-Top	10,534'	-6,971'
PA19-Top	10,836'	-7,199'
PA20-Top	11,110'	-7,413'
PA21-Top	11,398'	-7,648'
PA22-Top	11,627'	-7,846'
PA23-Top	11,724'	-7,933'

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
2143	2117	1056	1/4"
4369	3599	1036	1/4"
6225	4600	ORIFICE	5/16"
7560	5300	Dummy	
8340	5745	Dummy	
8931	6086	Dummy	
9390	6407	Dummy	

PERFORATIONS

FORM.	M.D.	V.S.S.
PA20, PA21	11,308' - 11,434'	-7573' --7678'
PA21	11,476' - 11,624'	-7714' --7808'
PA22, PA23	11,656' - 11,804'	-7872' --8004'

4-1/2" Tub. Conv. 0.49" @ 5 SPF, 60 deg phas

DIRECTIONAL DATA

VERTICAL TO 1,350'
MAX ANGLE 61° @ 6600' AND
25° @ 11,885' TD

PBTD 11,885' MD (8210' TVD, -8077 VSS)
TD 11,991' MD (8,234' TVD, -8101 VSS)

DATE 6/9/97
BY VDE
Rev. by DSH

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Releasable to public
Name: RW Date: 10/31/13

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION ___	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting office)
	56-045-20062	C-1	Chevron U.S.A. Production Co. 646 County Square Drive Ventura, CA 93003

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	GLO
SUBSEQUENT REPORT X	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ___		
			ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed) X=710,995.44m Y=3,819,240.18m UTM Zone 10	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
N 05118 E 00671	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133' (orig.)	HIDALGO - Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Completed operations: Removed ESP completion. Temporarily isolated all but top 10' of perfs and performed hydraulic fracture treatment. Cleaned out and re-exposed lower perfs. Completed with 3-1/2" tubing.

Attached: Operations Summary 3/22/97 - 4/15/97 (3 pp.)
C-1 Frac Summary 4/5 - 4/6/97 (2 pp.)
Current Schematic

MINERALS MANAGEMENT SERVICE
MAY 1 3 1997
SANTA MARIA DIST.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
R. A. PICCIOTTI for G. R. STEINBACH	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE
R. A. Picciotti	May 14, 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell FOR Phillip R. Schroeder TITLE District Supervisor

DATE 5/22/97

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Releasable to public
Name: RW Date: 10/31/13

OPERATIONS SUMMARY REPORT

Field: **Point Arguello**
Platform: **Hidalgo**

Well: **OCS-P-0450 C-1 Frac Job**
API#: **56-045-20062**

Rig: **Pool 411**
Category: **Workover**

03-22-97 **DAY 1: 6-HR. SUMMARY: KILL WELL, N/D TREE, N/U BOPE.**
Open SSSV, bleed down well. Install BPV & R/D prod tree. Test tree t/2750 psi w/no leaks. Plug SSSV lines.

03-23-97 **DAY 2: 24-HR. SUMMARY: TEST BOPE.**
Install & test Class IV BOPE 250 psi low/3000 psi high.

03-24-97 **DAY 3: 24-HR. SUMMARY: ATTEMPT TO PULL TBG.**
M/U landing jt & screw into doughnut. Pull tbg t/150K-NG. Free pkr @175K. Tbg hanger hung up in pitcher nipple. Wait for equip. Pump down tbg @4 bbl/min with heavy oil returns. Pump oil to prod. Pump down annulus @2bbls/min w/no returns.

** ***Mr. Roy Bobbitt with the MMS inspected drilling operations.***

03-25-97 **DAY 4: 24-HR. SUMMARY: MODIFY PITCHER NIPPLE.**
Pull & modify pitcher nipple with full bore ID, install same. Pump tbg volume down tbg @3.5 BPM. POOH w/tbg, ESP cable to SSSV. R/U & circ thru SSSV @4 BPM prior to L/D same.

03-26-97 **DAY 5: 24-HR. SUMMARY: PULL TUBING.**
POOH, w/ SSSV. POOH, L/D prod tbg, cntrl line, ESP cable. Note: holes in cntrl line, cracks in ESP cable coating.

** ***MMS on board for inspection.***

03-27-97 **DAY 6: 24-HR. SUMMARY: TEST BOPE.**
Finish L/D 3-1/2" tbg, jewelry, pump & motor. Test BOPE 250 psi low/3000 psi high for 5 min w/4-1/2" tbg. M/U 9-5/8" csg scraper on 3-1/2" tbg. RIH w/4-1/2" tbg.

** ***Bob Mense with MMS on board for inspection.***

03-28-97 **DAY 7: 24-HR. SUMMARY: RIH W/ CASING SCRAPER.**
RIH w/4-1/2" Hydril 501 tbg. Pump down kill line @2 BPM. Circ, wait for add'l tbg.

03-29-97 **DAY 8: 24-HR. SUMMARY: RIH W/ BRIDGE PLUG.**
Continue RIH w/ 4-1/2" tbg, tag TOL @9018'. Pump down tbg, oil in returns, pmp to Prod. POOH, l/d tbg & scraper. M/U bridge plug on 3-1/2", RIH. R/U for 4-1/2".

03-30-97 **DAY 9: 24-HR. SUMMARY: PULL BRIDGE PLUG. TEST BOPE.**
Continue RIH w/4-1/2" tbg to 9100'. Set Baker 7" Loc-set bridge plug @9100'. Fill tbg & hole, fluid level dropping. Re-set bridge plug, still leaking. POOH w/BP. Test BOPE w/ 3-1/2" & 4-1/2" tbg to 250/3000 psi for 5 min.

** ***Bob Hime with MMS on board for inspection.***

03-31-97 **DAY 10: 24-HR. SUMMARY: RIH WITH PACKER, TEST CASING.**
RIH w/Model E-A retrieve-o-matic pkr. Pump down ass'y. & fill hole. Set pkr @9093'; fill hole. Pressure test liner lap t/2450 psi for 30 min-no leak off. Pump tbg & rat hole volume @5 BPM @270 psi. Unseat pkr, POOH & L/D same. R/U Schlumberger & RIH w/Model "D" pkr on wireline.

Releasable to public
Name: RW Date: 10/31/13

OPERATIONS SUMMARY REPORT

Field: **Point Arguello**
Platform: **Hidalgo**

Well: **OCS-P-0450 C-1 Frac Job**
API#: **56-045-20062**

Rig: **Pool 411**
Category: **Workover**

04-01-97

DAY 11: 24-HR. SUMMARY: SET MODEL "D" PACKER.
RIH w/wireline & set 7" Baker Model "D" pkr @9710'. POOH & R/D wireline. Slip & cut drill line. RIH w/Model "F" plug on 3-1/2" & 4-1/2" Hydril 501 tbg.

** ***Mr. Bob Hime with MMS visited the platform.***

04-02-97

DAY 12: 24-HR. SUMMARY: SET 'F' PLUG IN PACKER. SET SAND PLUG.
RIH w/Baker Model "F" plug. Pull t/9476'. R/U BJ set sand plug (4100 lbs 20/40 sd) and displace. POOH t/9520'. RIH w/wireline & tag fill @9541'. POOH w/wireline. Test hgr t/7700 psi, OK. POOH. M/U 2-7/8" frac pkr ass'y.

04-03-97

DAY 13: 24-HR. SUMMARY: RUN FRAC STRING. SET "EA" FRAC PKR.
Test frac ass'y to 6000 psi. RIH w/frac string testing w/Gatorhawk to 6000 psi. Set Baker "EA" pkr @9234' w/51K down wt & land tbg hgr. Test back side t/2500 psi-NG. Unseat pkr, change seals in hgr, reset pkr. Re-test back side t/2500 psi-OK. Install frac head & R/U Golden State wireline.

** ***Mr. Bob Hime on board to witness frac job.***

04-04-97

DAY 14: 24-HR. SUMMARY: POOH, TEST TUBING.
RIH w/wireline, set XX plug in X-nipple @ 9249'. POOH. R/U frac lines & test tbg, pump, lines t/6000 psi-NG. POOH testing for leaks in tbg, found loose connections. RIH.

** ***Mr. Bob Hime with MMS on platform.***

04-05-97

DAY 15: 24-HR. SUMMARY: RE-RUN FRAC STRING.
RIH, test tbg t/3200 psi-ok. RIH, set frac pkr @ 9234' w/ 50,000 dnwt, land tbg hgr & secure. Test csg t/2500 psi-OK. R/U frac head. Test Dowell surf lines t/7500 psi-ok. Test tbg t/6000 psi-ok. Test pressure rise valve t/8156 psi-ok. R/U, RIH, pull "XX" plug f/X nipple @ 9249'. Run pressure gauges, set in XN nipple @ 9260'. R/U & test frac lines.

** ***Mr. Bob Hime w/MMS on board to witness data frac.***

04-06-97

DAY 16: 24-HR. SUMMARY: PERFORM MINI-FRAC AND FRAC.
R/D frac lines. RIH w/wireline to retrieve bombs. R/D wireline & R/U frac lines. Mix frac fluid & perform mini-frac. Clean mud pmps. Perform frac-well screened out while pumping @6 ppg. Well would not back flow. Prep for coiled tbg clean-out.

** ***Frac job details attached on separate report.***

** ***Mr. Bob Hime w/MMS on board to witness mini-frac. Received variance to delay BOPE test until rig ready to pull pipe.***

04-07-97

DAY 17: 24-HR. SUMMARY: R/U COILED TBG.
Clear frac equip. R/U 1-1/2" coiled tbg equipment. R/U discharge line to pump active pits to V-9. Attempt test coiled tbg BOP's-blinds failed.

** ***Mr. Bob Mense w/MMS onboard for rig inspection.***

04-08-97

DAY 18: 24-HR. SUMMARY: TEST CT BOPE. CLEAN OUT SAND W/ COILED TUBING.
R/U coiled tbg unit. Test blind rams 250 psi/4500 psi-OK. RIH w/coiled tbg, circ out frac sand in 4-1/2" tbg f/105'-9247'. Circ b/u every 1000'.

** ***Mr. Bob Hime w/MMS on board for inspection.***

Releasable to public
Name: RW Date: 10/31/13

OPERATIONS SUMMARY REPORT

Field: **Point Arguello**
Platform: **Hidalgo**

Well: **OCS-P-0450 C-1 Frac Job**
API#: **56-045-20062**

Rig: **Pool 411**
Category: **Workover**

04-09-97

DAY 19: 24-HR. SUMMARY: MONITOR WELL. CLEAN-OUT W/ COILED TUBING.
With coiled tbg @9247', pump hi-vis sweep & circ. Circ while POOH t/3000'. RIH w/CT t/ 6200'. 30 bbl pit gain, well flowing. Shut-in & monitor well pressure. Well flowing approx. 15 bbls/hr, no oil/gas. Start circ coiled tbg & RIH t/9240'. Shut in well to monitor pressure. Monitor well flow-16 bbls in 2 hrs. Flowed back approx. 37 bbls, flow rate to 4 BPH. RIH w/CT t/9247', circ @1.8 BPM. Pump hi-vis sweep & circ, some frac sand in returns. Pump hi-vis sweep & chase w/seawater to displace CT & frac fluid.

04-10-97

DAY 20: 24-HR. SUMMARY: MONITOR WELL.

POOH w/CT t/1500'. Monitor well. Flowing back frac fluid @ <3 bbl/hr, no oil/gas. POOH, R/D CT unit. R/U flowlines, open master valve. Had <100 psi on tbg. Open flowline f/tbg to pits—flow <2BPH. Pick up tbg 5' & open dump valve on pkr @9240'. Rev circ 2 tbg volumes, 1 bbl oil, trace gas. R/D master valve & install TIW valve. Pull & L/D tbg hgr. Pull 7 stands of 4-1/2" tbg so pkr 240' above 7" TOL. M/U IBOP on top of tbg. M/U test plug & RIH on tbg. Attempt to test lower pipe rams-no test.

04-11-97

DAY 21: 24-HR. SUMMARY: TEST BOPE. PULL FRAC STRING & PACKER.
POOH w/4-1/2" tbg. Test BOPE per MMS & CUSA specs. POOH w/tbg & pkr. RIH w/4-1/2" tbg & retrieving tool t/9000'.

04-12-97

DAY 22: 24-HR. SUMMARY: CLEAN OUT SAND. PULL F PLUG.
RIH t/9355', tag sand. Rev circ out sand f/9355'-9720'; tag Model "D" pkr. Latch on to F-plug. Circ down tbg pumping (2) 20-bbl. hi vis sweeps. Change over to clean saltwater.

04-13-97

DAY 23: 24-HR. SUMMARY: RUN PROD STRING.
POOH, l/d retrieving tool & F plug. RIH w/prod string, m/u 3-1/2" tbg t/4500 ft/lbs, gatorhawk connec t/5000 psi.

04-14-97

DAY 24: 24-HR. SUMMARY: RUN PROD STRING.
Finish running 3-1/2" prod string. Set Baker Model "HB" pkr @ 8996'. Test annulus t/1000 psi for 15 min.

04-15-97

DAY 25: 24-HR. SUMMARY: INSTALL TREE.
Pull X test plug f/ X nipple @ 9132'. Close SSSV, install BPV. Remove BOPE. Install prod tree & test t/5000 psi for 15 min. Test tbg hgr t/5000 psi for 15 min. Remove BPV. Release rig @1800 hours. Move to C-11.

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HYDRAULIC FRACTURING JOB SUMMARY

Point Arguello Field
Platform Hidalgo C-1
April 5-6, 1997

F.E.T. (Formation Evaluation Testing)
Saturday April 5, 1997

Purpose: Establish injectivity into reservoir and determine closure pressure.

1st Pump-in	Start Time=8:24 PM	Finish Time=8:32 PM
Tubing	Vol=121 BBLS of 2% KCL fluid	
	Max Q= 24.5 BPM	Max P=5158 PSI
Casing	Vol=20 BBLS of seawater	
	Max Q=2.5 BPM	Max P=2462 PSI

2nd Pump-in	Start Time=8:53 PM	Finish Time=8:54 PM
Tubing	Vol=5 BBLS of 2% KCL fluid	
	Max Q= 9.2 BPM	Max P=3080 PSI
Casing	Vol=0 BBLS of seawater	
	Max Q=0 BPM	Max P=2687 PSI

3rd Pump-in	Start Time=9:05 PM	Finish Time=9:08 PM
Tubing	Vol=70 BBLS of 2% KCL fluid	
	Max Q= 24.3 BPM	Max P=5190 PSI
Casing	Vol=0 BBLS of seawater	
	Max Q=0 BPM	Max P=2828 PSI

4th Pump-in	Start Time=9:16 PM	Finish Time=9:22 PM
Tubing	Vol=151 BBLS of 2% KCL fluid	
	Max Q= 28.2 BPM	Max P=5749 PSI
Casing	Vol=15 BBLS of seawater	
	Max Q=2.5 BPM	Max P=2549 PSI

Downhole Pressure Gauges

Tandem Terratek Quartz gauges were landed in the Otis XN profile below a perforated pup joint prior to performing the F.E.T. tests. Upon recovering the gauges, no reliable downhole data was received. One pressure gauge stopped recording data one minute after being set. The other pressure gauge recorded only one of the four pump-ins.

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Mini Frac
Sunday April 6, 1997

Purpose: Determine fluid efficiency of cross-linked frac fluid system. Confirm closure pressure.

Mini Frac	Start Time=10:11AM Finish Time=10:22 PM
Tubing	Vol=314 BBLS of Frac fluid
	Max Q= 30.9 BPM Max P=5785 PSI
	Fluid Loss Additives (FLA) Pumped=250 lbs of silica flour
Casing	Vol=0 BBLS of seawater
	Max Q=0 BPM Max P=2728 PSI

Main Frac
Sunday April 6, 1997

Purpose: Place proppant in reservoir to improve well productivity.

Main Frac	Start Time=4:30 PM Finish Time=5:02 PM
Tubing	Vol=904 BBLS of Frac fluid
	Max Q= 31.3 BPM Max P=7754 PSI

(***Screened out at maximum surface treating pressure while pumping 7 ppg proppant at the surface***)

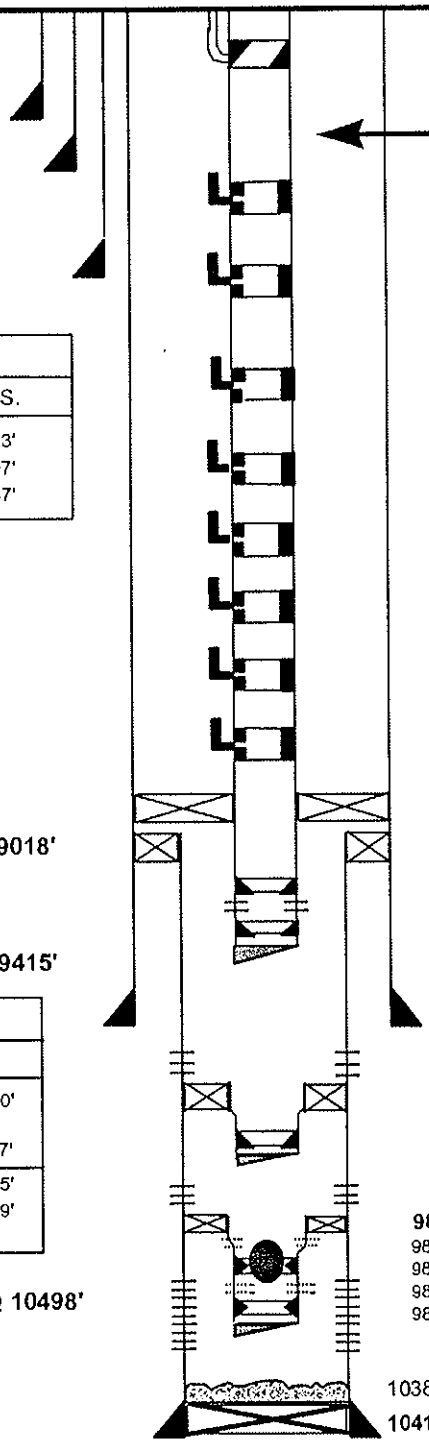
	FLA Pumped=1000 lbs of silica flour, 2000 lbs of 100 mesh sand
	Proppant Pumped=44838 lbs of 20/40 resin-coated Optiprop (14500 lbs placed in reservoir)
Casing	Vol=0 BBLS of seawater
	Max Q=0 BPM Max P=2778 PSI

Following the screenout, the flowback line was opened in an attempt to flow back the frac fluid. No fluid flowed back from well C-1.

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D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH		WELL	C-1
TREE	FMC	COMPLETION DATE	1/13/88
5000	PSI W.P.	WORKOVER	2/26/94; 9/16/95, 4/15/97

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

799' Baker T-5 SCSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

ZONES		
FORMATION	M.D.	V.S.S.
PA18-Top	9267'	-7233'
PA19-Top	9358'	-7297'
PA20-Top	9620'	-7487'

GAS LIFT			
Mc Murry MANDRELS 3-1/2" FO-1.5		McMurry Valves 1-1/2" VRMT	
M.D.	T.V.D.	P.S.I. (scp)	PORTS
2160'	2151'	1115	1/4"
3889'	3530'	1066	1/4"
5250'	4538'	VR ORIFICE	5/16"
6233'	5229'	Dummy	
6906'	5730'	Dummy	
7485'	6137'	Dummy	
8059'	6525'	Dummy	
8665'	6935'	Dummy	

8996' (7172' TVD) Baker 9-5/8" 'HB' Packer

T.O.L. @ 9018'

9132' Otis "X" Nipple (2.75" ID)
9133'-9142' Perforated Pup
9143' Otis "X" Nipple (2.75" ID)
1 Joint tubing
9174' W/L Re-Entry Guide

9-5/8" 43.5# @ 9415'

PERFORATIONS		
FORM.	M.D.	V.S.S.
PA19A	9510' - 9570'	-7407'- -7450'
Perfs. are .50" dia. @ 4 SPF		
PA20, 20A	9620' - 9700'	-7487'- -7547'
PA20A	9730' - 9830'	-7570'- -7645'
PA21	9876' - 9996'	-7680'- -7769'
Perfs. are .42" dia. @ 6 SPF		

Baker Model 'D' Packer @ 9710'
3 1/2" pup joint (6 foot)
Otis "XN" nipple (2.635" ID)
Muleshoe @ +/- 9724'

9850' Baker 'FB-1' Retainer (4" ID)
9866' Baker 'R' Nipple w/ NoGo (2.697" ID) w/ stand valve set 2/4/92
9867' Perf'd Pups (2-10' Pups)
9886' Baker "R" Nipple w/NoGo (2.442" ID)
9888' W/L Re-Entry Guide

7" 26# @ 10498'

10384' Top of Fill
10412' Cement Plug

DIRECTIONAL DATA
VERTICAL TO 1690 '
MAX ANGLE 52 @ 10433 ' AND
52 @ TD '

PBTD 10384' (8165' TVD, -8032' VSS)
TD 10498' (8235' TVD, -8102 VSS)

DATE 4/22/97
BY RMQ/DML
Revised by DSH

Releasable to public
Name: RW Date: 10/31/13
COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20639-01	S-62	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	com/pow
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1041776 y= 747990	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Proposed completion is similiar to that already approved for the subject well, but is more complete. Information on deck/seismic loading for Schlumberger/Dowell frac equipment is also supplied. Please see attached.

7/12/

CONFIDENTIAL

For 28 days

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
	4/25/97

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 7/16/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

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Name: RW Date: 10/31/13

TORCH OPERATING COMPANY
SANTA CLARA FIELD
PLATFORM GILDA
S-62 COMPLETION PROCEDURE

1. Run and evaluate acoustic cement bond log. Squeeze as required.

2. RIH with 7", 29#, casing scraper and brushes. Scrape/brush liner to E.D. Filter sea water in cased/lined well bore to desired cleanliness.

3. Displace hole with filtered 13.2 ppg. CaBr2 water (expected Lower Repetto pore pressure 12.7 ppg.).

4. RIH with TCP guns and frac pack tools (including a packer equipped to check flow from below) to first designated Lower Repetto interval. Fill tubing with filtered sea water. Set packer and add enough tubing pressure to result in 1000 - 1500 psi. underbalance.

5. Perforate lowest section of Lower Repetto.

6. Frac pack and pull frac pack tools out of packer, mechanically isolating flow from above.

7. POOH with tools.

8. RIH with second TCP gun and frac pack tools. Perforate second selected interval and repeat frac pack process.

9. Repeat process of perforating, frac packing, and isolation until all designated Lower Repetto intervals are frac packed and flow from above the top packer is mechanically isolated.

10. POOH with work string and tools. RIH with properly sized 7" packer, production tubing , and safety system. Set packer and test safety system.

11. Disable lower packer isolation devices to communicate flow to tubing string.

12. Turn well over to production. Put on production as commingled Lower Repetto producer, with low initial drawdown. Test as directed by engineering staff.

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Name: RW Date: 10/31/13

TORCH OPERATING COMPANY

Santa Maria District
201 South Broadway
Santa Maria, California 93455
805-739-9111 (Fax: 805-937-8709)

April 25, 1997

Rishi Tyagi
District Supervisor, Camarillo District
MMS, Pacific OCS Region
770 Paseo Camarillo
Camarillo, CA 93010

SUBJECT: **S-62 Completion Procedure and Temporary Well Frac Equipment on Platform Gilda**

Mr. Tyagi:

Attached is a more complete version of a completion procedure previously apporved for the subject well. Also attached are equipment loading diagrams for fracture stimulation equipment we would like to temporarily install on our drill deck. The proposed installation is similar to the equipment used for the fracture stimulation of S-87, with two notable exceptions. First, the pumping and blending equipment is lighter - both absolutely and in terms of deck loading. Second, we would like to have the capability of completely filling our sand hopper to give us the capability of properly stimulating our Lower Repetto intervals. The attached detailed engineering calculations make us confident that this is quite safe. In general, we are confident that the proposed equipment and operations are properly engineered, safe, and in full conformance with 30 CFR Part 250. Timing is important on this project. Your timely approval will be appreciated.

As early as May 12, 1997, Torch proposes to mobilize on Platform Gilda to do the first of three frac jobs on well S-62. These jobs should be completed within 3 weeks of first equipment mobilization. Well S-62 is in wellroom #3 on the northeast corner of the drill deck. The drill rig will, of course, be positioned over this wellroom. The frac equipment consists of six major skids as detailed in the attached "Gilda Frac Equipment" list. This equipment will be arranged approximately as shown on the attached "Hill-Peck" deck layout drawing. The stimulation contractor will be Schlumberger/Dowell. All equipment and interconnecting piping will be properly rated for the application.

The electrical area classification where the frac equipment will be located is Unclassified. The nearest Classified area, per API RP 500B, is a Class I, Division 2 area extending for a radius of 10-feet from the non-vapor tight well slot hatches on the drill deck over wellroom #3. I have sketched in the approximate Classified Area boundary on the attached Hill-Peck" deck layout drawing. The area where the frac equipment will be located is open and well ventilated.

Deck loading has been reviewed by Rick Beers of Thomas and Beers, Inc. in Ventura. Mr. Beers is very familiar with this platform structure. All of the proposed skid loads are well within documented platform deck capacities. The deck capacities shown on the "Hill-Peck" drawing have been confirmed by comparison with the original Santa Fe Services Company design drawings. A copy of the most relevant drawing is attached. Because each skid extends across several deck stringer beams, the higher tabulated deck loading capacities are appropriate. Several specific conservative recommendations are made by Mr. Beers in the attached write-up, including guying the sand hopper, tacking the base of one of the injection pump skids to the deck, placing timbers or steel "suitcases" under

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Name: RW Date: 10/31/13

the 500 bbl. frac tank, and field verification of stringer location for proper skid placement. All of these recommendations will be implemented.

All equipment for the frac job will be transported to Gilda by our regular chartered workboat, Tidewater Marine's *Victory Seahorse*, out of Port Hueneme. Personnel will travel by workboat out of Port Hueneme, as usual. No Barges are required. There will be no anchoring. Crane lifts will be made by the permanently installed platform cranes. All of the recommended practices of the safety team assembled for the heavier lifts needed for the S-87 fracture stimulation will be implemented here as well. As with the S-87 project, all picks will be within safe limits for the cranes.

Should you require any additional information, please contact me at the letterhead number. Thank you.

Sincerely,

Bob Davis 4/25/97

Robert A. Davis P.E.
Sr. Operations Engineer

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Name: RW Date: 10/31/13

FACSIMILE TRANSMISSION

To: **Bob Davis, Torch Operating Company**

From: **Rick Beers, Thomas & Beers**
572 Poli Street
Ventura, California 93001
Telephone (805) 652-0655
FAX (805) 652-0170

Date: **April 24, 1997**
Subject: **Platform Gilda Frac. Drilling Loads for Well S-62 (Rev 1)**

Per your request, we have checked the proposed frac equipment loading for Platform Gilda for Well S-62. If the following recommendations are implemented, the equipment layout and sizes will all be within the design basis for the drill deck. Summarized below are the basic criteria and results.

- Equipment will be temporary.
- Analysis based on data provided by Torch and Schlumberger/Dowell.
- Allowable deck loads based on original design drawings and calculations.
- Temporary seismic loads were considered:
  Lateral Load = 0.35 g
  Vertical Load = 0.20 g
- Lay out the full frac tank and prop silo such that is directly over major stringers as shown on Page 1. The blender and 220 bbl frac tank must be located in Areas A or B. The pumps and treatment control skid can be placed in Areas A, B, C, D or E.
- Shore up the full frac tank to the skid level using existing Gilda steel 'suitcases' or timbers per sheet 4. The shores or suitcases need to be directly over the stringers as shown on Page 1 and 4. Per our discussion, the steel suitcases are 5'x22'x12" built-up steel sections especially made for Gilda. Whichever method is utilized, the bottom of the full frac tank must be fully supported.
- Tack weld down the blender as shown for seismic stability.
- Guy off the prop silo with four guys per pages 1 thru 3. Weld down the four corners as documented. Cable anchors to be located as shown on page 2. Assuming you use the existing 7/8" Schlumberger cable system, the total prop silo weight should be limited to 90,000 lbs or 90% capacity. If you need the 101,000 capacity, the cables must be changed to 1" diameter 6x19 XIPS with 1 3/4 turnbuckles. Alternately the silo layout could be modified to give better cable angles. This would take up more deck area and have to be engineered.

Thank you for using Thomas & Beers. Please call if you have any questions.

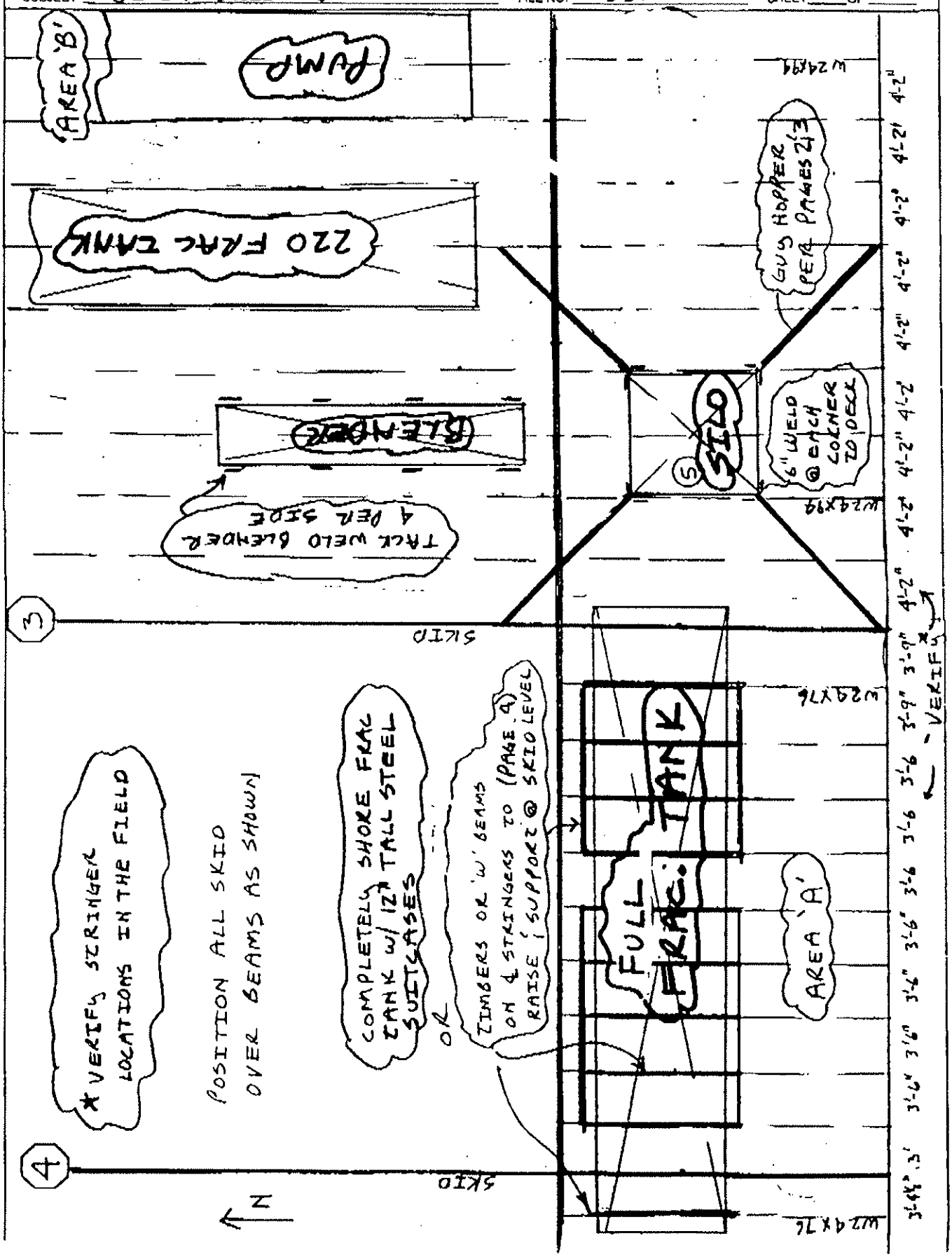
Rick Beers, P.E.

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THOMAS & BEERS

PROJECT TORCH ENGINEER RB DATE 2/97

SUBJECT GILOA DRILLING FILE NO. 551 SHEET 1 OF

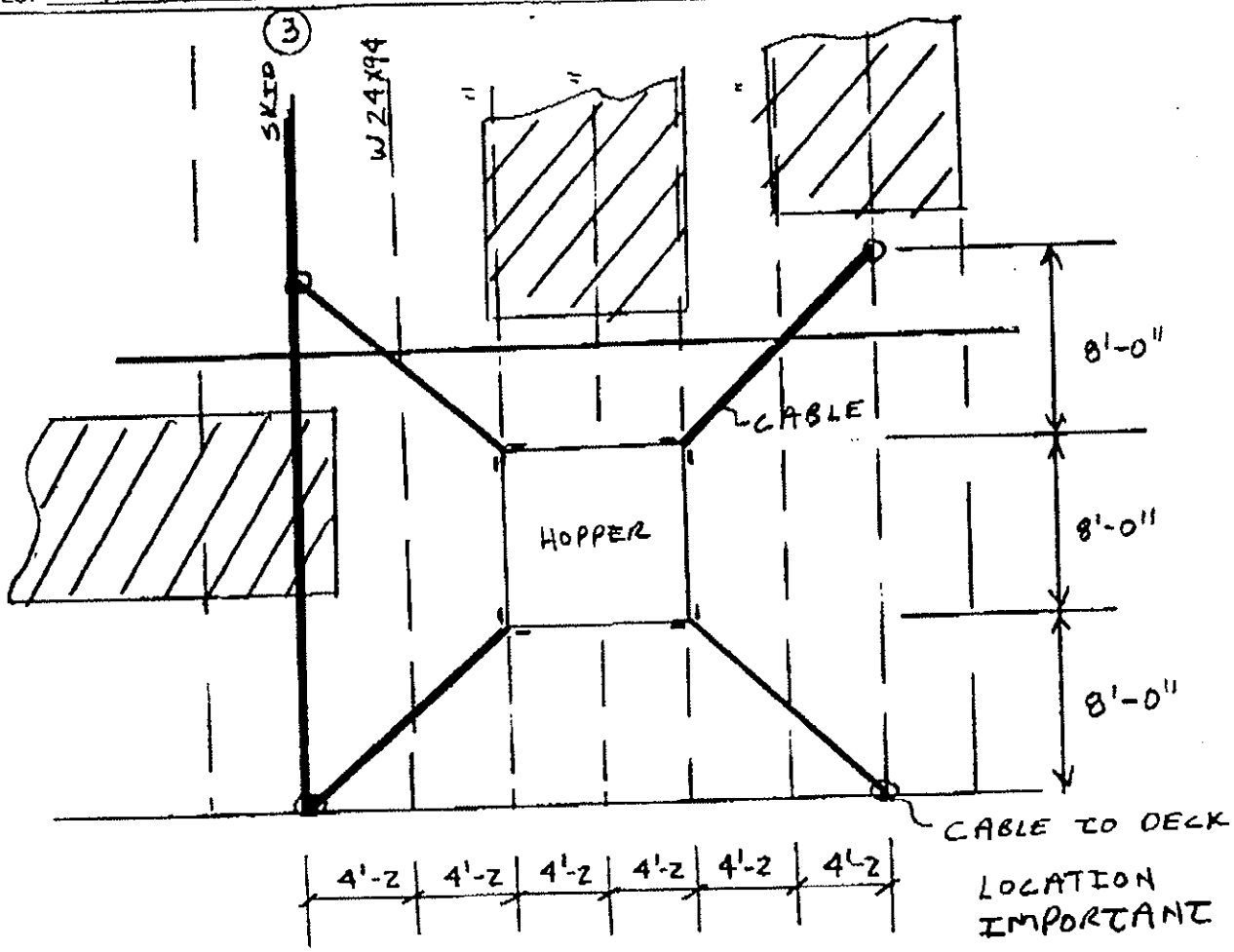


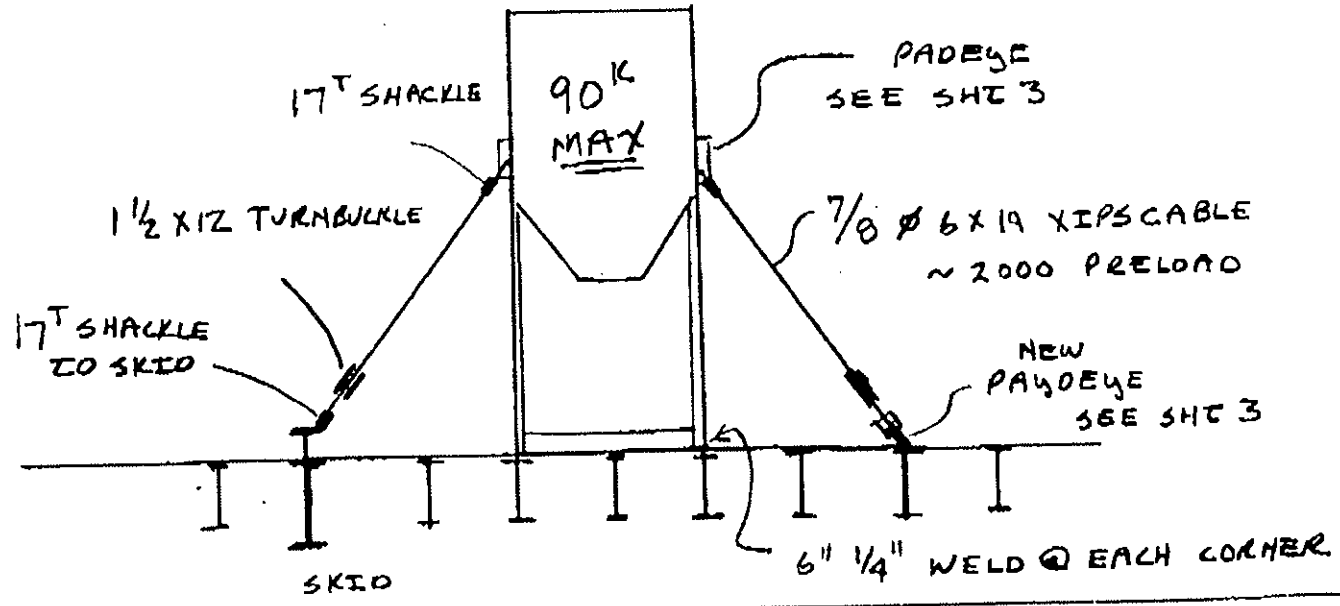
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PROJECT TORCH ENGINEER RB DATE 3/97

SUBJECT GILDA FILE NO. 551 SHEET 2 OF



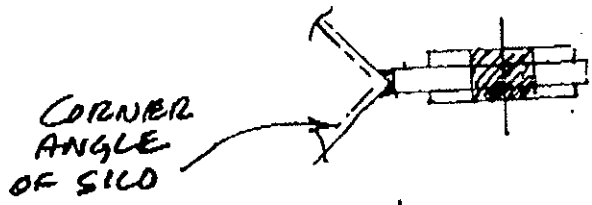


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Name: RW Date: 10/31/13

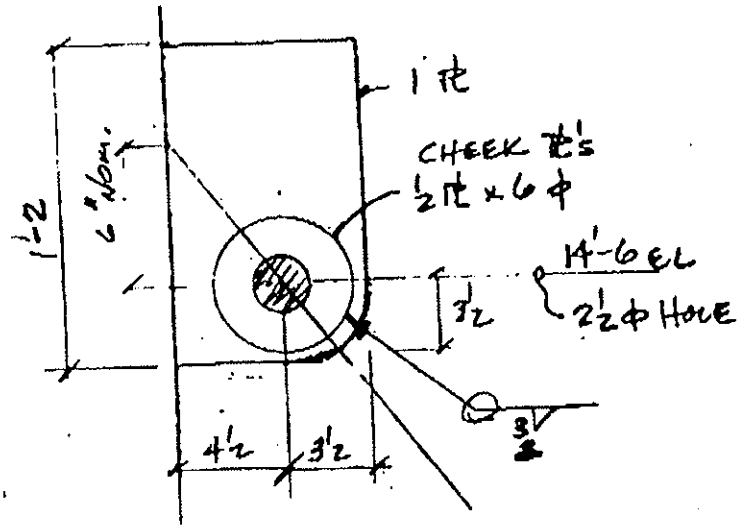
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PROJECT GRUBBS ENGINEER FC DATE 1/97

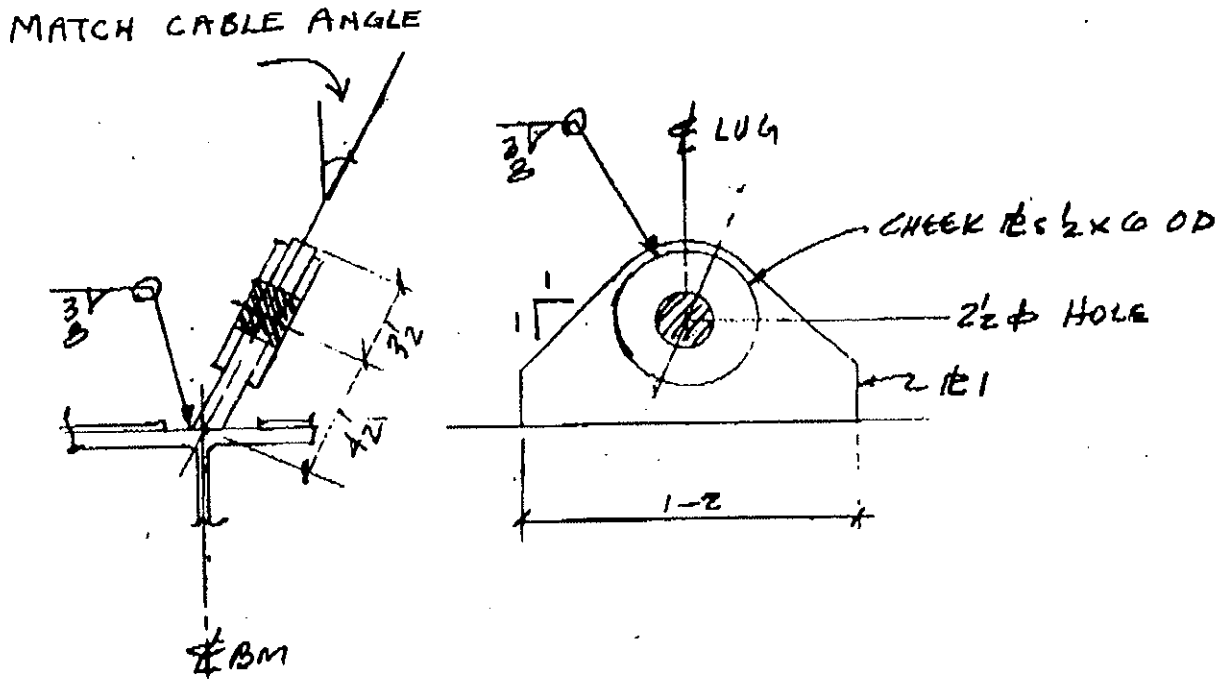
SUBJECT HILDALGO FILE NO. 542 SHEET 3 OF



EXISTING



SILO LUG (A)



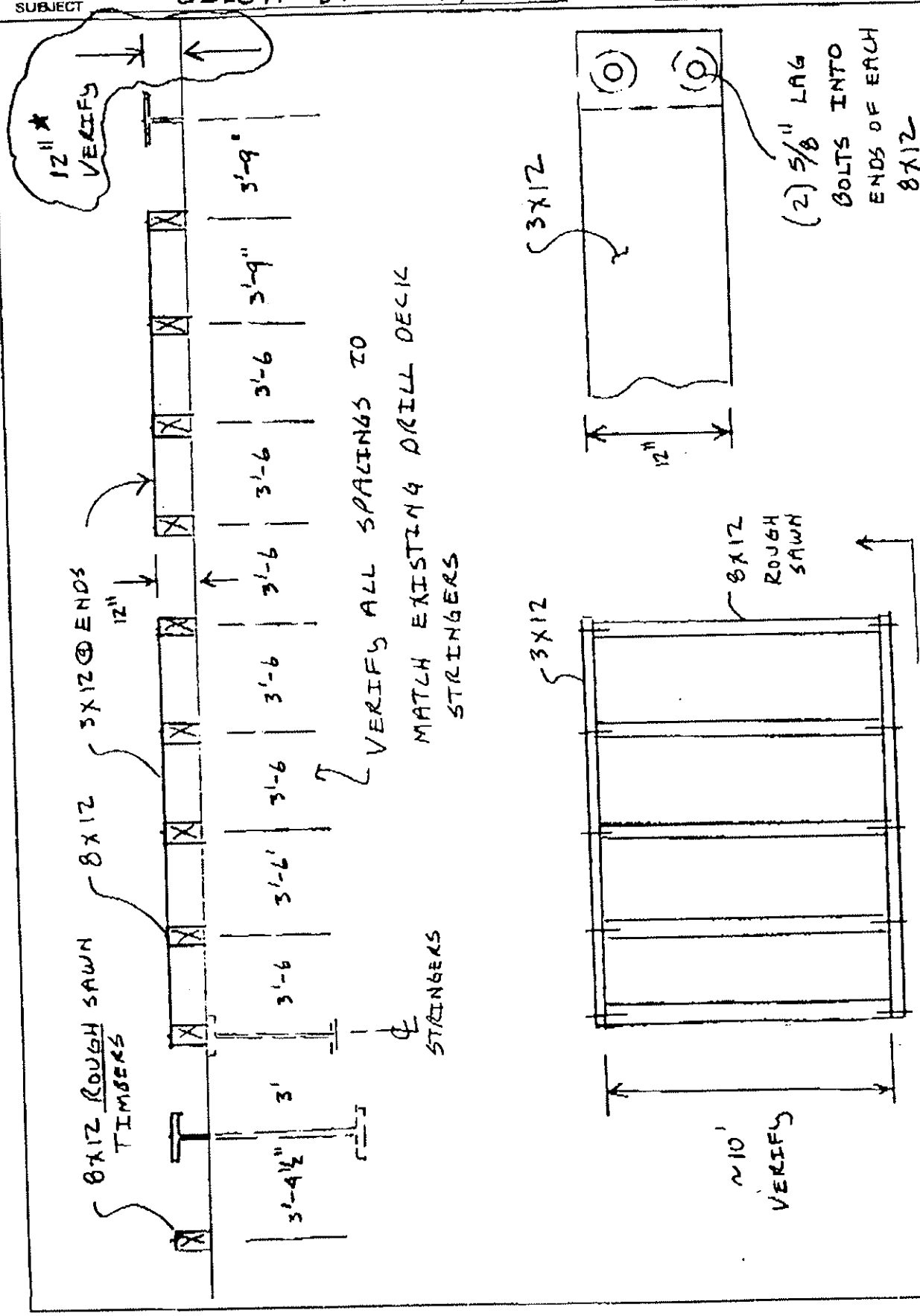
BEAM LUG (B)

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PROJECT TORCH ENGINEER RB DATE 2/97

SUBJECT GILOA DRILLING FILE NO. 551 SHEET 4 OF


12" ★ VERIFY
3'-9"
3'-9"
3'-6
3'-6
3'-6

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Name: RW Date: 10/31/13

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PROJECT GILDA ENGINEER RB DATE 4/97
SUBJECT S-62 FILE NO. 551 SHEET 1 OF

WELL S-62 FRAC JOB

MAJOR EQUIPMENT LIST

		L	W	H	psf
POD BLENDER	13,050	16	4	11	204
PUMPS (2)	31,430	23.5	7	7	191
TREATMENT CONTROL	10,000	13	8		96
PROP. SILO	101,200	9	9	22.5'	1249
FULL FRAC TANK	200,000	40	8	13	625
220 FRAC TANK	88,000	33	8	6	333

DESIGN LOADS

DL + LL → ACTUAL

SEISMIC → .35 g →

.2 g ↕

ALLOWABLE DECK LOADS

- VARIES
- SEE NEXT PAGE

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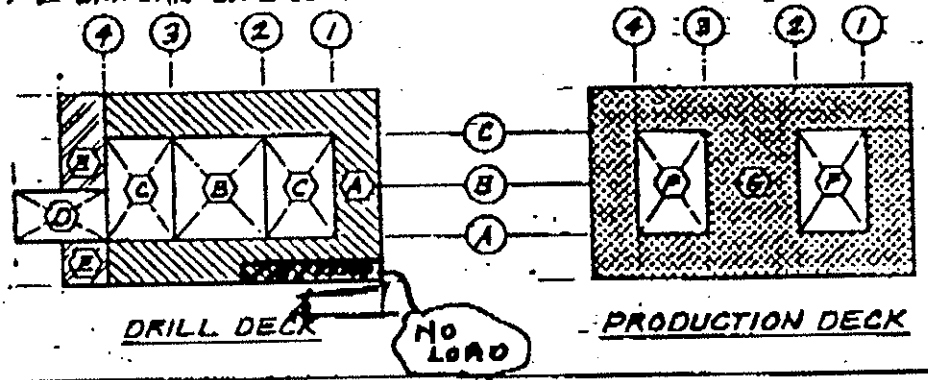
PROJECT GILDA ENGINEER RB DATE 4/97

SUBJECT S-62 FILE NO. 551 SHEET 2 OF

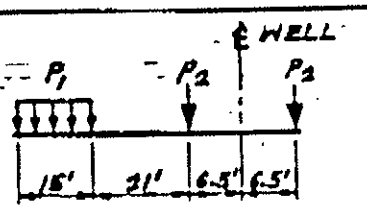
DESIGN CRITERIA:

I. VERTICAL LIVE LOAD:

1. UNIFORM LIVE LOAD.



DECK	AREA	LOAD IN LB PER SQ. FT. DECK PLATE	DECK BEAM	TRUSS & COL. & OPERATION
DRILL	A	400	1000	750
	B	400	400	400
	C	300	300	RIG & PIPE RACK LOAD
	D	400	400	300
	E	400	400	500
PRODUCTN	F	200	200	100
	G	400	600	375
SUB DECK		400	500	200



2000 HP MAX. PIPE RACK & DRILL RIG @ OPERATION

P_1 = PIPE RACK LOAD = 29.4 K/LF

P_2 = RIG LOAD = 535.7 K

2. STAIRS & LANDINGS & BOAT LANDING — 100 PSF

3. CRANE LOAD — REACTION DUE TO SEA KING 'SK-2300' BOOM LENGTH = 100 FT.

II. LATERAL LOADS:

1. WIND — 75 KNOTS
2. WAVE — WAVE HEIGHT = 35 FT, PERIOD = 12 SEC.
3. CURRENT — 2.5 KNOTS AT THE SURFACE 0.8 KNOT AT THE BOTTOM
4. SEISMIC — BASED ON RESPONSE SPECTRA RECOMMENDED BY FUGRO CONSULTING ENGINEERS & GEOLOGISTS.

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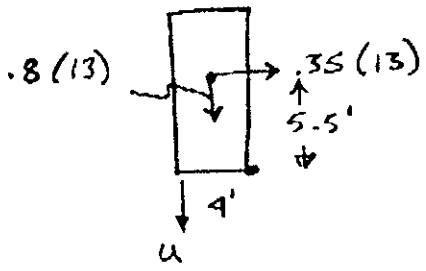
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PROJECT GILDA ENGINEER RB DATE 4/97
SUBJECT S-62 FILE NO. 551 SHEET 3 OF

1) POD BLENDER, PUMPS, TREATMENT CONTROL, 220 FRAC TANK

AREA (B)

- σ_{ALL} = 400 psf FOR DECK, BEAMS & COLUMNS
- σ_{MAX} = 333 psf
- ALL OKAY
- CHECK POD BLENDER FOR OVERTURNING



$u = \frac{.35(13)(5.5) + (8)(13)(2)}{4}$

$u = -1^{K}$ LOW BUT UP

TACK DOWN

2) FRAC TANK

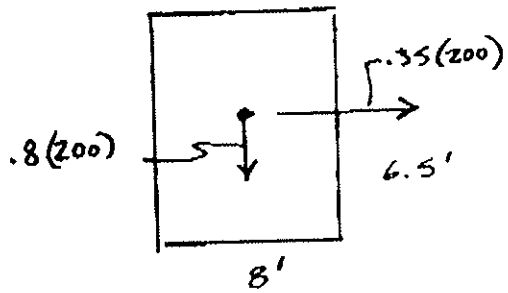
$W = 200^{K}$

40 x 8 x 13 σ = 625 psf

σ_{ALL} = 1000 psf AREA (A)

SUPPORT ON SKID BEAM & STEEL SUITCASES

CHECK OVERTURNING



$M_R = (.8)4(200) = 640^{1-K}$

$M_{OT} = .35(200)6.5 = 455$

NO OVERTURNING ✓

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Name: RW Date: 10/31/13

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PROJECT GILDA ENGINEER RB DATE 4/97
SUBJECT S-62 FILE NO. 551 SHEET 4 OF

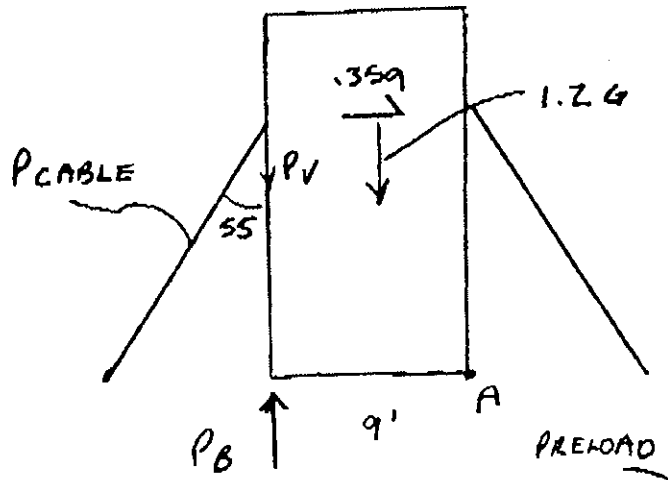
SEISMIC LOADS

3) PROP SILO

$W = 101^K$

VCG ~ 14'

DEAD LOAD + LIVE LOAD + SEISMIC



$$P_{CABLE} \sim \frac{.35(101)}{(2)\cos 45 \cos 55} + 2^K$$

$P_{CABLE} = 43.5^K$

7/8 XIP $P_{BREAK} = 79.6^K$

$$F.S = \frac{79.5}{43.5} = 1.82 \text{ LOW}$$

→ OPERATE @ 90% CAPACITY

OR USE 1" CABLES ($P_{BR} = 100^K$)

7/8" USE 17^T SHACKLE { 1 1/2 X 12 T.B

1" USE 25^T SHACKLE { 1 3/4 X 12 TB

CHECK W24x94 (SEISMIC LOAD)

SOLVE FOR P_B

$P_{CABLE} = 43.5^K$

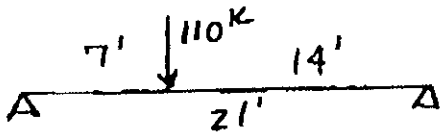
$P_V = 2(43.5)\cos 35 \sin 45$

$P_V = 50^K$

$\Sigma M_A = 0$

$$P_B = \frac{1.2(101)4.5 + 50(9)}{9}$$

$P_B = 110^K$



$$\sigma = \frac{[110(7)(14)/21]12}{222}$$

$\sigma = 27.7 \text{ ksi}$

$\angle \sigma_{ALL} = .66(36)1.33$
$= 31.6 \text{ ksi}$

SILO OKAY OKAY

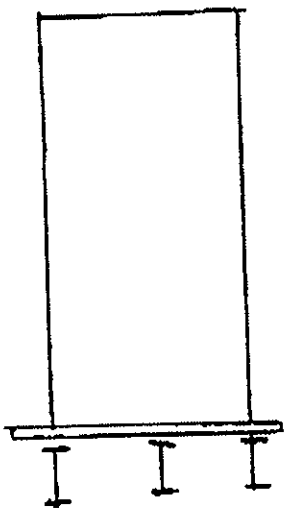
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PROJECT GILDA ENGINEER RB DATE 4/97
SUBJECT S-62 FILE NO. 551 SHEET 5 OF

3) PROP SILO (CONT)

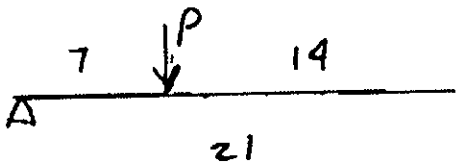
CHECK FOR DL+LL ONLY

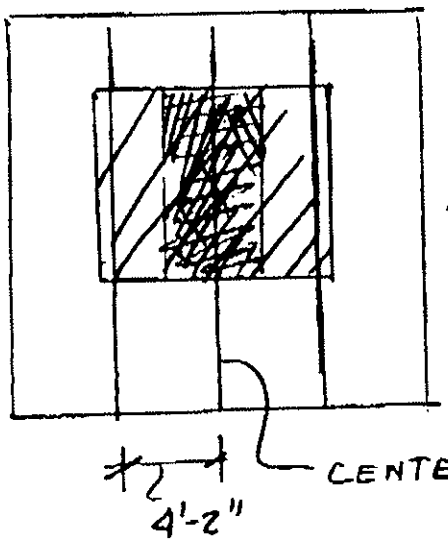


$\sigma_{LOAD} = \frac{101200}{9 \times 9} = 1249$ psf

$\sigma > 1000$ psf

∴ CHECK BEAM W/CALCS
W24X94





$P = 1249(4.17)(9)$

$P = 46.9^K$

$\sigma = \frac{[(47)(7)(14)(12)/21]}{222} = \frac{M}{S}$

$\sigma = 11.85$ ksi $< \sigma_{ALL} = .66F_y$

$\sigma_{ALL} = 24$ ksi

SILO OKAY

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THOMAS & BEERS

PROJECT SLUM. - DOWL ENGINEER FC DATE 1/97

SUBJECT SILO LUGS FILE NO. 542 SHEET 6 OF

LUGS FOR SILO

FROM PREVIOUS SILO JOB

LUG ON SILO

$\measuredangle_{CABLE} = \tan^{-1} \frac{11.0'}{15'_{EL}} = \tan^{-1}(.735) = 36.3°$

VALID > 43.5 K

$P_{DESIGN} = 2 \times P_{CABLE} = 2(31.7) = 63^K$

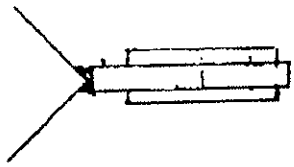
USING 5/16 FILLETS, $L_{LUG\ MIN} = 63/464(2) = 7"$, USE 4" MIN PAST W.P.

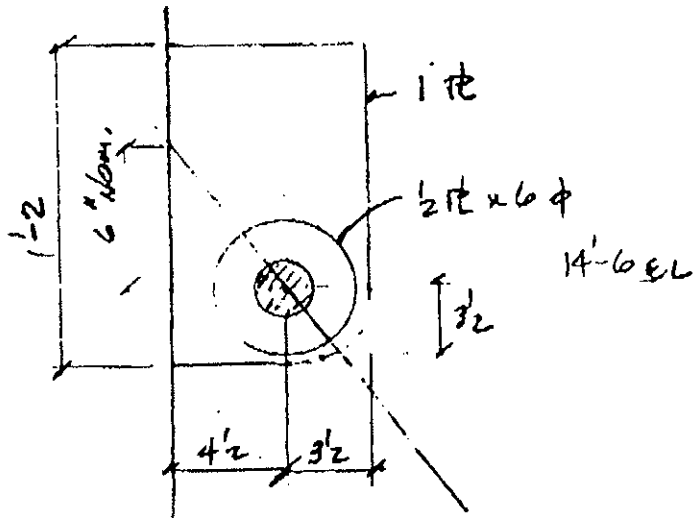
1 1/8 OPEN SHANK SOCKET PIN 2 1/4 ϕ, THROAT 2 1/4"

TRY 1" PL W/ 1/2" CHEEK PL'S + 2 1/2 ϕ HOLE W/ 3 1/2 EDGE DIST

$f_v = \frac{63}{(2)(1)(2\frac{1}{4} + 1\frac{3}{4})} = 7.9\ ksi < 14.4$, OK (14 ksi IGNORING CHEEK PL'S)

BENDING @ EDGE, $P_{ALLOW} = \frac{1.67 F_y t e^2}{d} = 1.67(22)(1)(2\frac{1}{4})^2/2.5 = 74^K > 63^K$ OK





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PROJECT SLUM - OONL ENGINEER FC DATE 1/97

SUBJECT SILO LUGS FILE NO. 542 SHEET 7 OF

FROM PREVIOUS SILO JOB

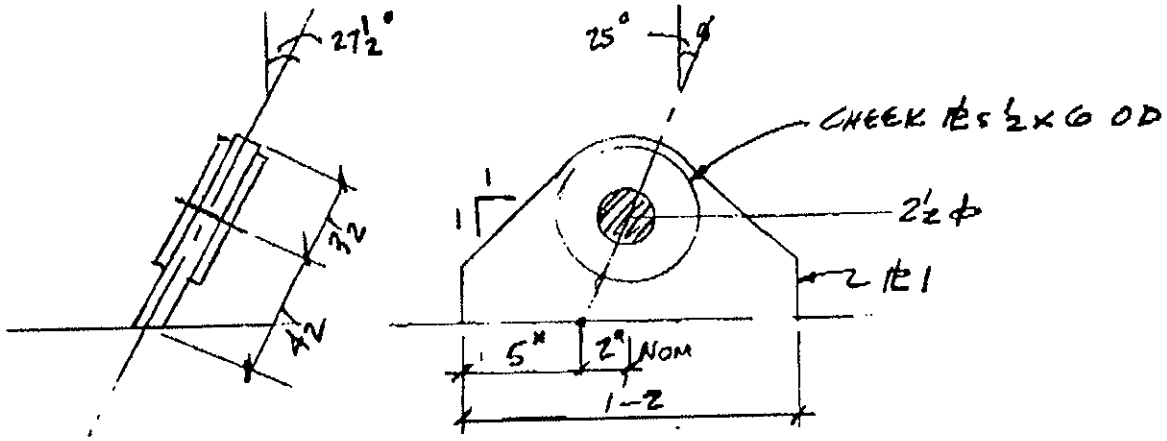
LUG AT BMS

Lug Tilt = $\tan^{-1} \frac{7.67}{15} = \tan^{-1}(.511) = 27.1°$ @ W24

" = $\frac{7.92}{15}$ = " $(.528) = 27.8°$ @ ℄ GIRDERS

CABLE ⊥ ON LUG — $\sin^{-1}\left(\frac{7.92}{18.6}\right) = 25.2°$ @ W24

$\frac{7.67}{18.6} = 24.4°$ @ ℄ GIRDERS



PROPRIETARY DATA

Releasable to public Name: RW Date: 10/31/13

MINERALS MANAGEMENT SERVI

SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Informati

OMB No. 1010-0045

Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01	C - 11	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive, Ventura, CA 93003
Point Arguello		00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE X	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
Slot 3 677.95' FEL 5110.23' FNL X = 710,993.36 m Y = 3,819,242.40 m UTM 10	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133' (orig.)	Hidalgo, Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Proposal: Temporarily isolate lower perfs. Perforate Upper Monterey and perform hydraulic fracture treatment. Re-expose lower perfs and complete with 3-1/2" tubing.

Attached: Revised Proposal for Well Operations PRO 316-1 dated 2/13/97.
(Replaces original program dated 11/13/96).
Current Schematic, Frac String Design schematic, Proposed schematic.
Preliminary Frac Equipment Layout.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
R. A. PICCIOTTI for G. R. STEINBACH	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE R. A. Picciotti	31. DATE February 13, 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY W. E. Whitehall for Phillip R. Schroeder TITLE District Supervisor

DATE 2/18/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No. Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 20170-4817; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

Releasable to public
Name: KW Date: 10/31/13

February 13, 1997

PROPOSAL FOR WELL OPERATIONS
PRO-316-1
REVISED WORKOVER PROGRAM
(Work to be supervised by Drilling)

Field: Point Arguello Platform: Hidalgo Property: OCS-P-0450 Well: C-11 (C-6 Redrill)

OBJECTIVE:

Temporarily isolate lower existing perforated interval, perforate and hydraulically fracture the M-1 zone. Re-expose lower perforations and run 3-1/2" completion tubing.

CURRENT CONDITIONS:

See attached schematic.

SURFACE LOCATION:

Slot 3: X = 710,993.36 m Y = 3,819,242.40 m, UTM Zone 10.

ELEVATIONS:

Water Depth:	430'
Derrick Floor to MLLW:	118', estimated.
Original D.F.:	133'
Derrick Floor to Ocean Floor:	548', estimated.

BLOWOUT PREVENTION EQUIPMENT:

A 13-5/8" 5000 psi Class IV (RSRRA) blowout preventer will be utilized. Test BOPS to 250 psi low pressure and 3000 psi high pressure, and record same on chart.

HYDROGEN SULFIDE CONSIDERATIONS:

The Monterey has strong potential for H2S gas. Hydrogen sulfide concentrations from producing wells can exceed 15,000 PPM. **Assume all gas circulated to the surface to have H2S potential.** All operations shall be performed in accordance with current MMS approved H2S Contingency Plan for Platform Hidalgo. H2S monitors will be located on the rig floor, flow nipple and shale shaker.

COMPLETION FLUID:

The fluids used to kill and workover this well will consist of filtered sea water with additions of NaCL for weight as needed. **For the current perforations 8.5 ppg sea water (.44 psi per ft gradient) will provide a 582 psi overbalance given a Monterey reservoir pressure of 2956 psi at 8004' VD (.3693 psi per ft gradient or 7.1 ppg EMW). Reservoir pressure based on information obtained from a 30 hour pressure build up survey run in C-8 on 4/2/96. Reservoir pressure at the top of the proposed perforations at 11051' (7500' VD) may be as high as 3000 psi (0.4000 psi/ft or 7.7 ppg EMW). 8.5 ppg sea water will provide a 315 psi overbalance.** Adequate concentrations of zinc carbonate H2S scavenger will be kept on location at all times. The pH will be that of seawater/NaCL fluid and not controlled. Scaletrol will be added to prevent scale formation - 5 gals per 200 bbls optimum 5 gals per 1000 bbls minimum concentration.

WELL CONTROL CONSIDERATIONS:

It is critical to keep the hole full at all times. Utilize trip tank with centrifugal pump to monitor fluid losses and keep hole full. Review of recent workovers on Platform Hermosa high PI wells in July 1995 reveal fluid losses in excess of 8 BPM. **For wells with high fluid losses and 9-5/8" casing a fill up rate of 5 BPM will ensure no gas migration to the surface.**

PRIOR TO RIG WORK:

Check tubing pressure and all annulus pressures.
Note: Baker FV-6 SSSV at 792' has been locked open due to a leak in the hydraulic control line. An ambient type insert valve has been installed in the profile above the SSSV.
Pull Macco HP-PB ambient valve from 792'. Pull valve from lower most gas lift mandrel at 9497' and kill well by circulating sea water down the tubing and up the tubing/casing annulus taking returns to Production vessels. Install pump through type tubing plug in profile above SSSV at 792'. Remove flowlines from tree.

PROGRAM:

Note: Mobilization of D.S. frac equipment will take several days. Proper planning will be crucial to the timely completion of this logistically difficult job.

1. Skid rig to Slot 3, well C-11.
2. Install one way BPV.
3. Remove tree. Plug control line port in tubing hanger. Nipple up 13-5/8" Class IV 5000 PSI BOPE and test to 250 psi low and 3000 psi high. **Test blind rams after first trip out of hole.**
4. Pump tubing volume and remove BPV and pump through tubing plug. Back-out lock down screws. Unland tubing hanger and release Baker 'HB' hydraulic packer at 9540'(45,000# shear). POOH laying down tubing and send in for inspection. Send SSSV, gas lift mandrels and packer to manufacture for redress. Note: Pressure test Xmas tree and all valves to 5000 psi prior to re-installation.
5. Pressure test blind rams to 250 psi low and 3000 psi high.
6. Make cleanout run with 6-1/8" bit and tandem 7" and 9-5/8" casing scrapers to 11300'. Space out scrapers so as to scrape 9-5/8" casing to near top of 7" liner lap at 9579'.
7. Set a Baker Model D permanent packer on wireline in the 7" liner at 11,258' MD (50' above the existing perforations). Packer is to be equipped with 3-1/2" x 6' pup joint, Otis 'X' nipple and muleshoe.
8. RIH with workstring and set a Baker model "F" latching plug in the model "D" packer at 11,258' MD. Test packer and plug to 1000 psi.
9. Spot 10' of 20/40 white and river sand mix on top of the packer plug. Allow sand to settle and make a confirmation tag to ensure sand is at 11,248' MD. POOH.
10. Test casing, plug and liner lap to 2800 psi. Locate any leak. If the liner lap fails to hold, be prepared to run a Baker liner tie-back stem with a 7" X 9-5/8" liner packer and 10' tie-back extension to isolate the lap.

11. N/U flanged lubricator and test to 1000 psi. RIH with 4-1/2" wireline casing guns and perforate from 11,051'-11,061' MD with 5 SPF, 72 degree phasing, 37 gram charges. Production Engineer Rick Quilter to supply correlation log and witness perforating.
12. RIH with frac string as follows: 2-7/8" mule shoe, 2-7/8" 'XN' Nipple, 10' perforated blast joint, 2-7/8" 'X' Nipple, 6' 2-7/8" pup joint, Baker 7" Retrievamatic packer, 3-1/2 IF by 4-1/2 Hydril 501 crossover, 4-1/2" 12.75# L-80 Hydril 501 tubing to surface with Baker 'F' nipple near 1000'. Install 4-1/2" x 13-5/8" tubing hanger and set packer with tail near 10,800'. Externally test connections to 6000 psi. The packer will need to be set prior to landing the tubing hanger to allow for sufficient slack-off to apply 40,000 lbs down force on the packer (48 inches of slack-off after setting packer) when the hanger lands. Above the tubing hanger, use 5" 18# L-80 Hydril 563 tubing. Plug test the landing joint(s), tubing hanger and fatigue nipple to 7500 psi. Lock down tubing hanger.
13. Rig up D.S. frac equipment per attached schematic. Rig up and test annulus relief valve, set for 3000 psi.
14. RIH with test plug on slick line and set in 2-7/8" "X" landing nipple below packer. Test frac string to 6000 psi. Retrieve test plug.
15. RIH with quartz pressure gauges on slick line and set in 2-7/8" 'XN' nipple below perforated blast joint.
16. Pressure annulus to 2500 psi. Hold 2500 psi on annulus throughout frac.
17. Perform mini-frac (Estimated time is 3-4 hrs). The mini-frac includes the pumping of up to 30,000 gals of crosslinked fluids without proppant. Pump rates will be 30-40 bpm with 5500-7500 psi surface pressure. **Production Engineer Rick Quilter will supply detailed programs for the mini-frac and frac jobs.**
18. RIH with wireline and retrieve pressure gauges.
19. Bleed off pressure from tubing/casing annulus.
20. Analyze mini-frac data and modify (if needed) final frac design.
21. Re-pressure tubing/casing annulus to 2500 psi and hold 2500 psi on annulus throughout frac job.
22. Perform frac job. The frac job includes the pumping of 50,000 gals of cross-linked fluids with 90,000 lbs of proppant. Pump rates will be 30-40 bpm with 5500-7500 psi surface pressure. Note: In case of premature sand out during frac job, the tubing could become bridged with proppant. Make arrangements to have a coil tubing unit on standby to clean out any sand bridges in tubing.
23. After completion of frac, flow back well to production facilities as directed by Production Engineer Rick Quilter. A maximum of 500 bbls will be flowed back, or until well dies.
24. During flowback, tubing/casing annulus pressure can be bled down as tubing pressure decreases.
25. Kill well (if necessary) by bullheading tubing or by reverse circulation after opening unloader or unsetting packer.
26. POOH with frac string and packer.
27. RIH with overshot, clean out sand, latch and retrieve 'F' latching plug from Baker model "D" packer at 11,258' MD. If well is taking too much fluid to circulate or reverse out sand fill, be prepared to use a tubing bailer to clean out fill and retrieve packer plug.
28. Run 3-1/2" production tubing with 9-5/8" hydraulic packer as per "Production Tubing Running Procedure".

Releasable to public
Name: RW Date: 10/31/13

Releasable to public
Name: KW Date: 10/31/13

29. Install back pressure valve. Nipple down BOPE. Nipple up 3-1/2" tree and pressure test to 5000 psi. Turn well over to Production. Note: Operations to conduct a no flow test of the tubing sub-surface safety valve after production has been established.

COMPLIANCE WITH FEDERAL OR LOCAL REGULATORY AGENCIES
Ensure that a copy of the MMS and the Land approvals are 'in hand' prior to commencement of operations. Permit requirements take precedence over program procedures. All program modifications to be approved by the MMS: Phil Schroeder or Dan Knowlson (805) 922-7958.

February 13, 1997

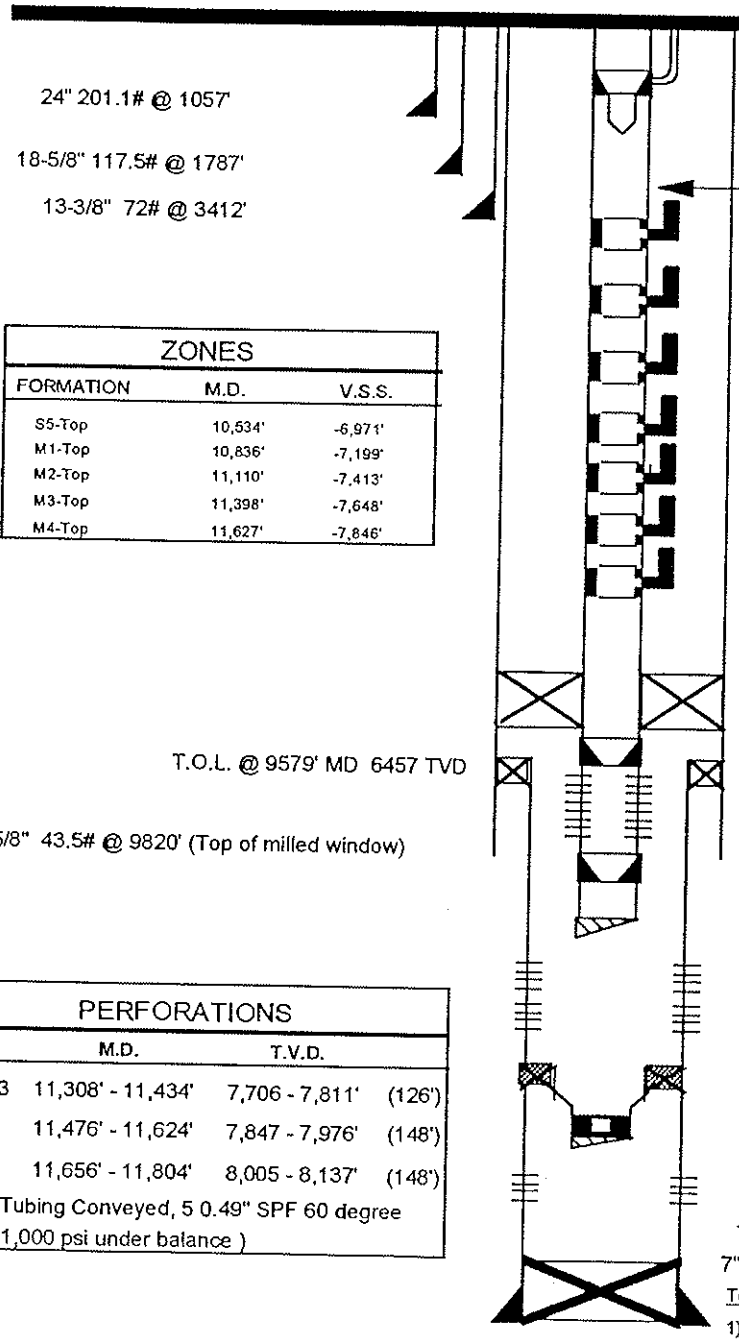
L. A. Picciotti — Drilling Engineer

R. M. Quilter — Production Engineer

Releasable to public
Name: LW Date: 10/3/13

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-11 (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1787'

13-3/8" 72# @ 3412'

792' Baker FV-6 SSSV (locked open)
Macco HP-PB ambient valve @ 792'

3-1/2" 9.3# L-80 Hydril 501 Tbg.

T.O.L. @ 9579' MD 6457 TVD

9-5/8" 43.5# @ 9820' (Top of milled window)

9,540' Baker 'HB' Packer
Five tubing joints
9,709' Baker "F" nipple (2.75 ID)
Perforated pups (20')
9,729' Baker "F" nipple (2.75 ID)
Tubing Joint
9,762' Rotating muleshoe

11,632' (top of packer) Baker "FB-1 packer (4.00 ID)
3 1/2" pup joint (10 ft minimum)
11,645' Baker "R" nipple (2.697 ID)
11,648' Rotating muleshoe

26# L-80

7" 11,885 Top of Cement

8 Round Threads

Tools left in hole

1) Bottom 1.5 feet of Baker lock-open tool (2.45" OD)

ZONES

FORMATION	M.D.	V.S.S.
S5-Top	10,534'	-6,971'
M1-Top	10,836'	-7,199'
M2-Top	11,110'	-7,413'
M3-Top	11,398'	-7,648'
M4-Top	11,627'	-7,846'

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
2202	2170	1100	1/4"
4082	3441	1075	1/4"
5302	4101	1050	1/4"
7193	5101	1025	1/4"
8128	5624	DUMMY	
8946	6095	ORIFICE	1/4"
9497	6411	DUMMY	

History of wireline problems (hard to locate/land) in mandrel at 8128' MD

Valve in mandrel with broken latch

PERFORATIONS

FORM.	M.D.	T.V.D.	
M2 / M3	11,308' - 11,434'	7,706 - 7,811'	(126')
M3	11,476' - 11,624'	7,847 - 7,976'	(148')
M4	11,656' - 11,804'	8,005 - 8,137'	(148')

4 1/2" Tubing Conveyed, 5 0.49" SPF 60 degree
(Shot 1,000 psi under balance)

DIRECTIONAL DATA

VERTICAL TO 1,350'
MAX ANGLE 61° @ 6,600' AND
25° @ 11,885' TD

PBTD 11,885'

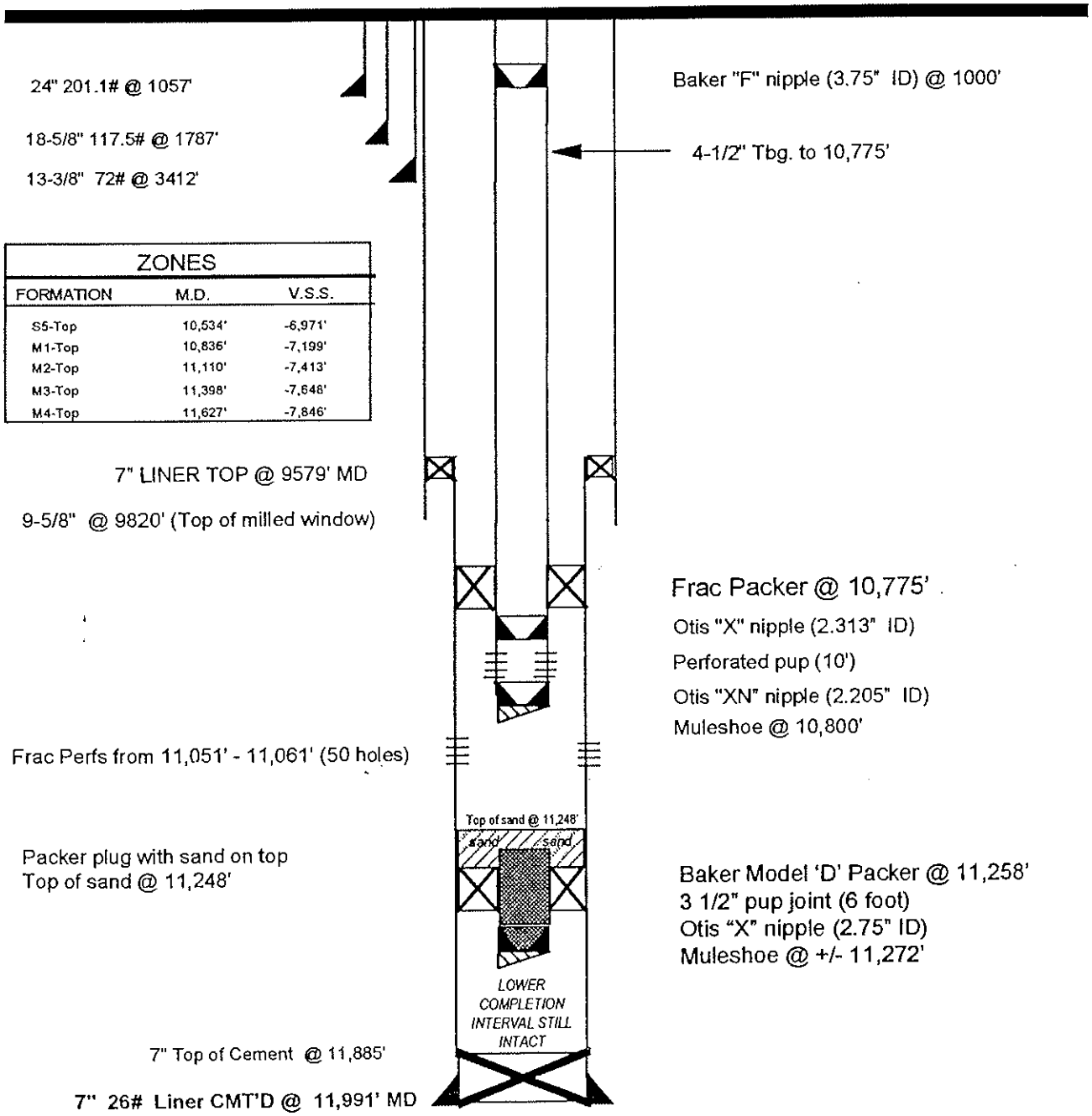
TD 11,991' MD 8,234' TVD

DATE 04-01-96
BY VDE

Releasable to public
Name: RW Date: 10/31/13

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-11 (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

FRAC STRING DESIGN



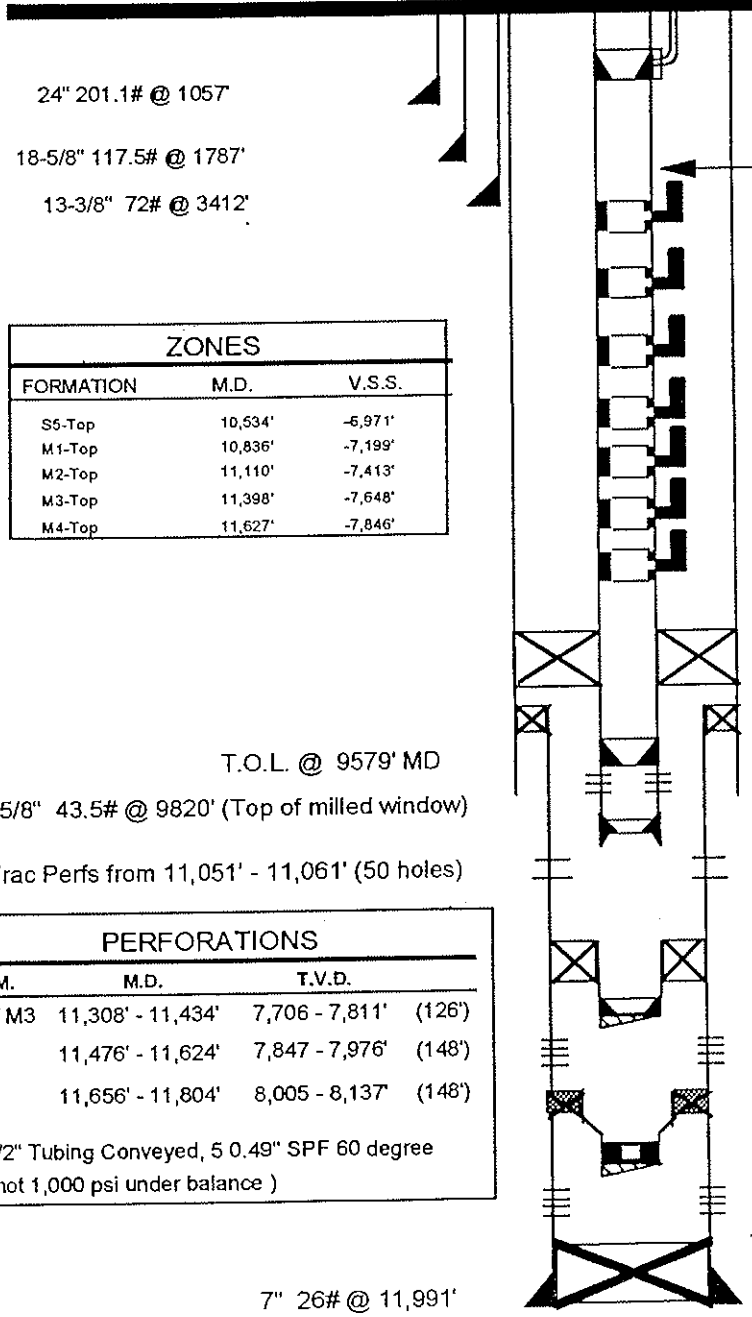
ZONES		
FORMATION	M.D.	V.S.S.
S5-Top	10,534'	-6,971'
M1-Top	10,836'	-7,199'
M2-Top	11,110'	-7,413'
M3-Top	11,398'	-7,648'
M4-Top	11,627'	-7,846'

DATE 02-11-97
BY RMQ/DML

Releasable to public
Name: PW Date: 10/31/13

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-11 (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

POST FRAC COMPLETION - *Proposed*



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1787'

13-3/8" 72# @ 3412'

800' Baker FV-6 SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

ZONES		
FORMATION	M.D.	V.S.S.
S5-Top	10,534'	-6,971'
M1-Top	10,836'	-7,199'
M2-Top	11,110'	-7,413'
M3-Top	11,398'	-7,648'
M4-Top	11,627'	-7,846'

GAS LIFT			
McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
		DUMMY	
		DUMMY	
		DUMMY	
		DUMMY	
		DUMMY	
		DUMMY	
		DUMMY	

9,500' Baker 'HB' Packer

Five tubing joints

Otis "X" nipple (2.75 ID)
Perforated pup (10')

Otis "X" nipple (2.75 ID)
Wireline re-entry guide @ +/-9677'

T.O.L. @ 9579' MD

9-5/8" 43.5# @ 9820' (Top of milled window)

Frac Perfs from 11,051' - 11,061' (50 holes)

PERFORATIONS			
FORM.	M.D.	T.V.D.	
M2 / M3	11,308' - 11,434'	7,706 - 7,811'	(126')
M3	11,476' - 11,624'	7,847 - 7,976'	(148')
M4	11,656' - 11,804'	8,005 - 8,137'	(148')

4 1/2" Tubing Conveyed, 5 0.49" SPF 60 degree
(Shot 1,000 psi under balance)

Baker Model 'D' Packer @ 11,258'
3 1/2" pup joint (6 foot)
Otis "X" nipple (2.75" ID)
Muleshoe @ +/- 11,272'

11,632' (top of packer) Baker "FB-1 packer (4.00 ID)
3 1/2" pup joint (10 ft minimum)
11,645' Baker "R" nipple (2.697 ID)
11,648' Rotating muleshoe

8 Round Threads

7" 11,885 Top of Cement

Tools left in hole

1) Bottom 1.5 feet of Baker lock-open tool (2.45" OD)

7" 26# @ 11,991'

DIRECTIONAL DATA
VERTICAL TO 1,350'
MAX ANGLE 61° @ 6,600' AND
25° @ 11,885' TD

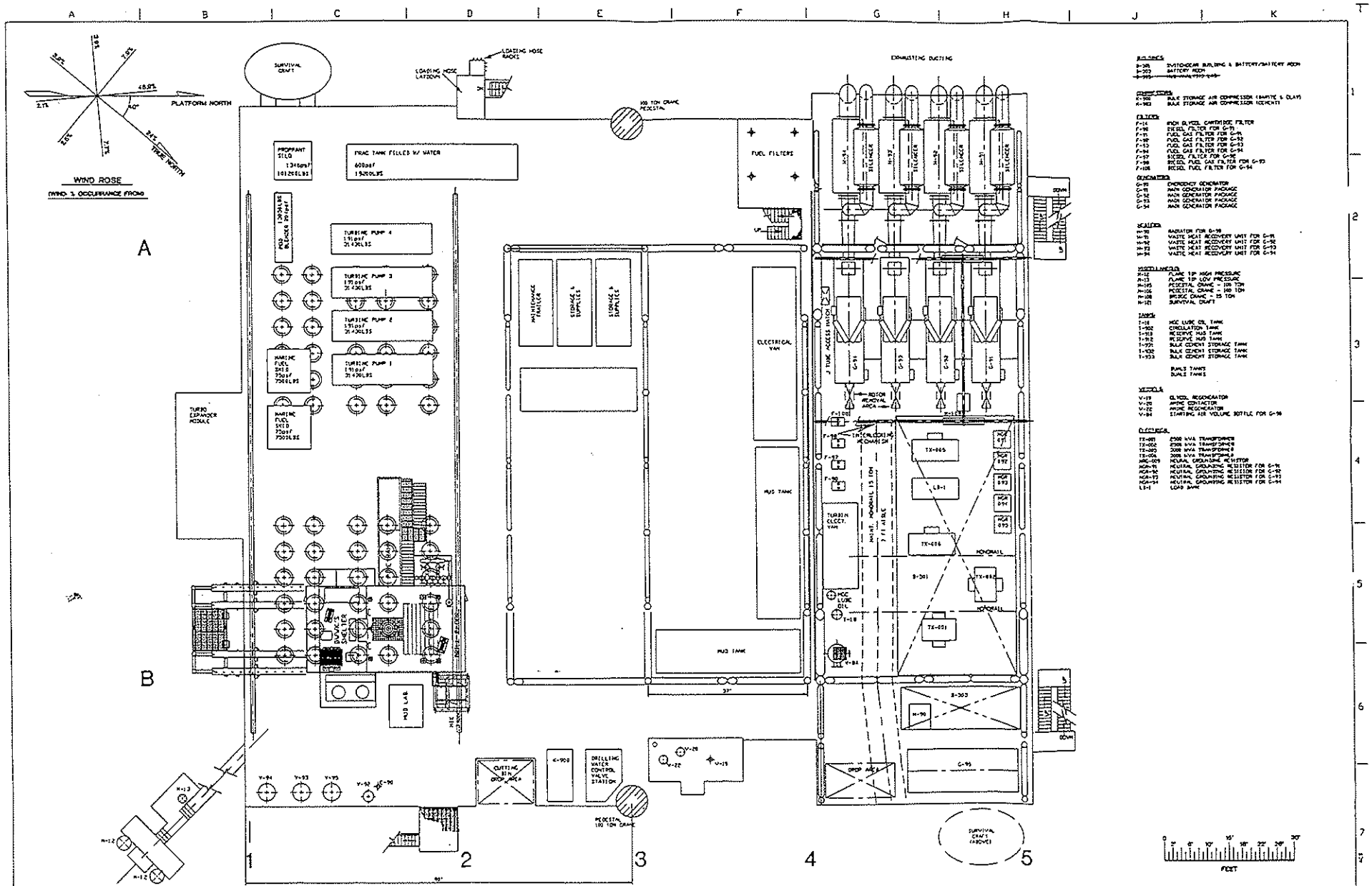
PBTD 11,885'

TD 11,991' MD 8,234' TVD

DATE 02-12-97

BY RMQ/DML

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Name: RWT Date: 10/31/13



REFERENCE DRAWINGS

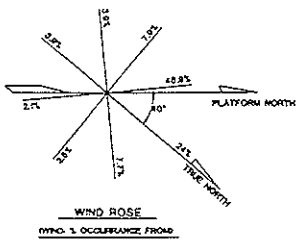
REVISIONS

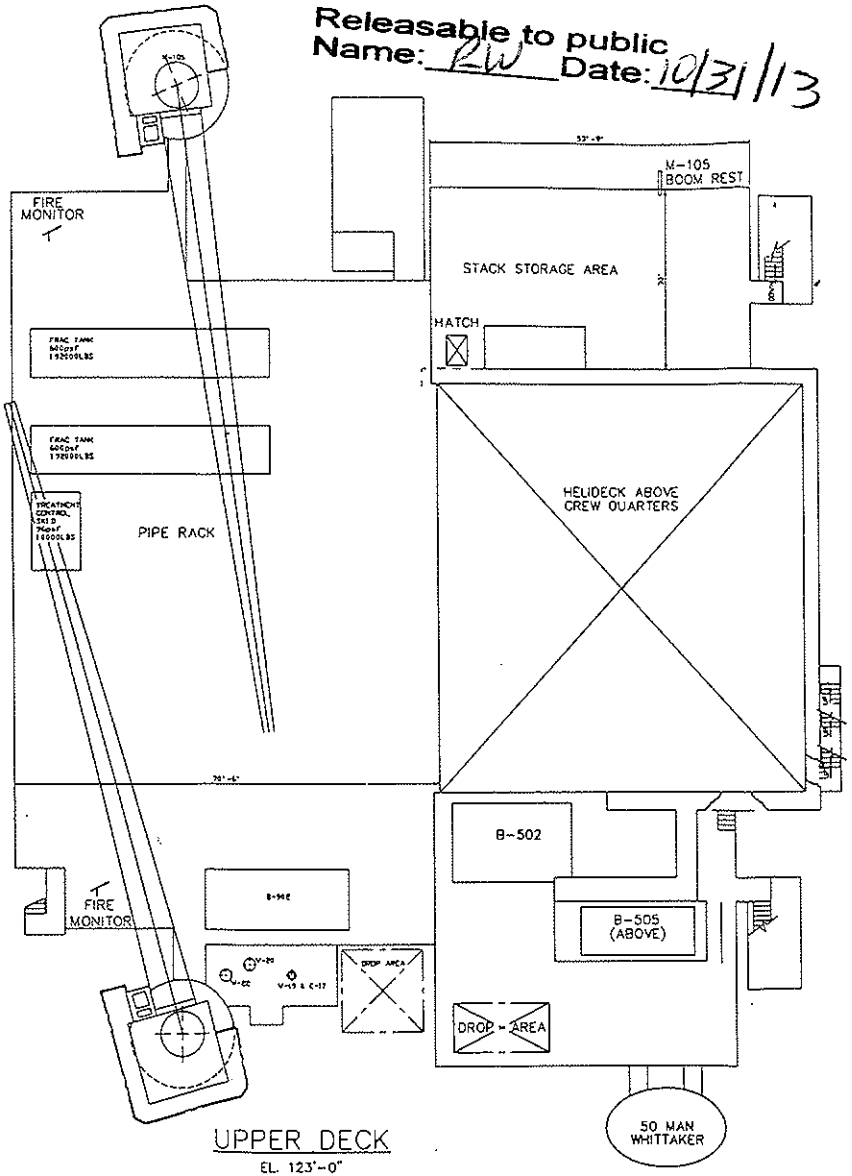
Chevron U.S.A. Inc.
Western Production Business Unit
DRAWING ELECTRONICALLY

EQUIPMENT ARRANGEMENT PLAN
MAIN DECKANS POWER EL. 95'-3"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | E-SB-1600 | A

Releasable to public
Name: RW Date: 10/31/13





UPPER DECK
EL. 123'-0"

REFERENCE DRAWINGS	REVISIONS	Chevron U.S.A. Inc. Western Production Business Unit Ventura District
	A3-BUILT - GENERAL ADDED B-505 POWER FACTOR	EQUIPMENT ARRANGEMENT PLAN
	ADDED PROPOSED TRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL	UPPER DECK PIPERACK EL. 123'-0"
		DRILLING & PRODUCTION PLATFORM HIDALGO
		OCS PARCEL P-0450 POINT ARGUELLO CALIFORNIA
		A — E-SB-1500 — A

Releasable to public
Name: KW Date: 10/31/13

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20754	S-87	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	com/pow
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1041681 y= 747,943	P-0216	4861	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached program

* Surface equipment package has already been submitted

MAR 10
7/c 77

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
Robert M. John Deacon	3/6/97

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/10/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.
Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

Releasable to public
Name: RW Date: 10/31/13

Torch Operating Company

Completion Procedure
AFE #1847
S-87
Platform Gilda-Santa Clara Field, OCS P-0216, Offshore California
March 6, 1997

1. Run and evaluate acoustic cement bond log. Squeeze as required.

2. RIH with TCP guns and water frac tools to lower LPB-C intervals. Perforate from 5,189'-5,233', 5,270'-5,409' with ±1000 psi. underbalance.

3. Water frac lower interval, leaving sand above the top perforation to minimize flow during the perforating of the second interval and minimize leak off during the upper interval gel frac.

4. POOH with tools.

5. RIH with second TCP gun and gel frac tools. Perforate LPB from 5,033'-5,108' with ±1000 psi. underbalance. Gel frac with crosslinked borate gel and 20/40 sand.

6. POOH with second TCP assembly.

7. Clean out sand from both intervals.

8. RIH with gravel pack assembly long enough to cover both intervals. Gravel pack both intervals and clean out excess gravel.

9. POOH with work string and tools. RIH with properly sized ESP, production tubing , packer and safety system.

10. Turn well over to production. Put on production as commingled Upper Repetto producer, with low initial drawdown. Test as directed by engineering staff.

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Name: RW Date: 10/31/13

HALLIBURTON

Fracpac II

Job Procedure

1. RIH with 9 5/8" Champ Packer on 3.5" tubing to within 100 ft of top perfs.

2. Displace the tubing with base gel (non-crosslinked) and close by-pass.

3. Maintain 1500 psi on annulus with rig pump.

4. Breakdown perfs and establish injection at 10 bpm with 2016 gal (48 bbls) base gel.

5. Monitor pressure decline for closure to determine fluid efficiency and evaluate near-wellbore effects. Consider spotting and pumping two 1000 gal sand "slugs" at 1.0 and 2.0 lbs/gal, if more than 250 psi near-wellbore friction is measured.

6. Subject to minifrac interpretation, fracpac with 6,000 gallons linear gel pre-pad and 7,500 gal Boragel G3195 carrying 44,000 pounds 20/40 ottawa sand as follows:

   a. 6000 gal Pre-pad
   b. 2000 gal Pad
   c. 1000 gal w/ 1.0 lbs/gal 20/40 sand
   d. 700 gal w/ 2.0 lbs/gal
   e. 700 gal w/ 4.0 lbs/gal
   f. 700 gal w/ 6.0 lbs/gal
   g. 700 gal w/ 8.0 lbs/gal
   h. 700 gal w/ 10.0 lbs/gal
   i. 700 gal w/ 12.0 lbs/gal
   j. 1000 gal w/ 14.0 lbs/gal
   k. displace with base gel

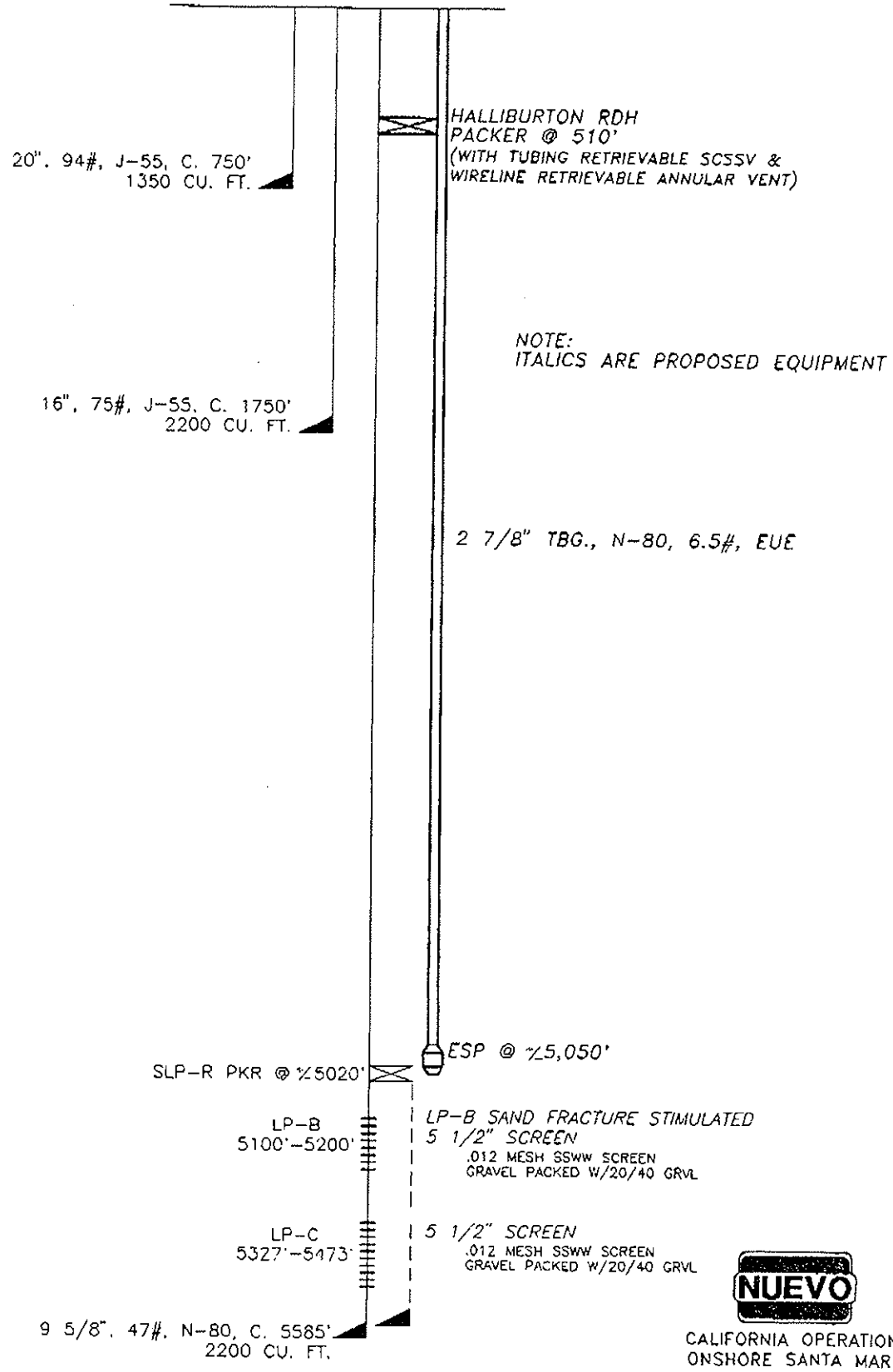
   The anticipated rate and pressure prior to tip screenout is 15 BPM at 3000 psi.
   The maximum anticipated pressure at shutin is 5000 psi with 3000 psi net pressure.

7. Shutin 6-8 hrs for gel break or until original closure stress is reached before POOH with packer.

SANTA CLARA UNIT
Well #S-87

Releasable to public
Name: KW Date: 10/31/13

Slot #29



NUEVO

CALIFORNIA OPERATIONS
ONSHORE SANTA MARIA
3/97 RJDIII

Releasable to public
Name: RW Date: 10/31/13

RECEIVED
MAR - 7 1997
MINERALS MGMT SERVICE
CAMARILLO DISTRICT

TORCH OPERATING COMPANY
201 S. Broadway
Orcutt, CA 93455

Tel. (805) 934-8261
Fax (805) 937-3030

March 6, 1997

Mr. Rishi Tyagi
District Manager
Minerals Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RE: Sundry Notice for Platform Gilda
Well # S-87, Initial Completion

Dear Rishi:

Please find enclosed a "Public Information" copy and 3 additional copies for your review. If you should have any questions, please contact myself or Bob Davis at (805) 934-8261.

Sincerely,

Lisa Chacon

Lisa A. Chacon
Environmental Clerk

Enclosure

Releasable to public Name: RW Date: 10/31/13

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting office)
	56-045-20062	C-1	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive Ventura, CA 93003
Pt. Arguello	OCS-P-0450	00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed) X=710,995.44m Y=3,819,240.18m UTM Zone 10	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
N 05118 E 00671	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	HIDALGO - Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Proposal: Remove ESP completion. Temporarily isolate all but top 10' of perfs and perform hydraulic fracture treatment. Re-expose lower perfs and complete with 3-1/2" tubing.

Attached: Revised Proposal for Well Operations PRO 316-1 dated 2/13/97. (Replaces original program dated 12/16/96).
Current Schematic, Frac String Design schematic, Proposed schematic
Preliminary Frac Equipment Layout.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
R. A. PICCIOTTI for G. R. STEINBACH	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE
R. A. Picciotti	February 13, 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell for Phillip R. Schroeder TITLE District Supervisor

DATE 2/18/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.
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Releasable to public
Name: RW Date: 10/31/13

February 13, 1997

PROPOSAL FOR WELL OPERATIONS
PRO-316-1
REVISED WORKOVER PROGRAM
(Work to be supervised by Drilling)

Field: Point Arguello Platform: Hidalgo Property: OCS-P-0450 Well: C-1

OBJECTIVE:

Remove ESP completion. Temporarily isolate all but the top 10' of existing perforations using a Model 'D' packer and sand. Hydraulically fracture the M-1 zone. Re-expose lower perforations and run 3-1/2" completion tubing.

CURRENT CONDITIONS:

See attached schematic.

SURFACE LOCATION:

Slot 4: X = 710,995.44 m Y = 3,819,240.18 m, UTM Zone 10.

ELEVATIONS:

Water Depth:	430'
Derrick Floor to MLLW:	118', estimated.
Original D.F.:	133'
Derrick Floor to Ocean Floor:	548', estimated.

BLOWOUT PREVENTION EQUIPMENT:

A 13-5/8" 5000 psi Class IV (RSRRA) blowout preventer will be utilized. Test BOPS to 250 psi low pressure and 3000 psi high pressure, and record same on chart.

HYDROGEN SULFIDE CONSIDERATIONS:

The Monterey has strong potential for H2S gas. Hydrogen sulfide concentrations from producing wells can exceed 15,000 PPM. **Assume all gas circulated to the surface to have H2S potential.** All operations shall be performed in accordance with current MMS approved H2S Contingency Plan for Platform Hidalgo. H2S monitors will be located on the rig floor, flow nipple and shale shaker.

COMPLETION FLUID:

The fluids used to kill and workover this well will consist of filtered sea water with additions of NaCL for weight as needed. **For the current perforations 8.5 ppg sea water (.44 psi per ft gradient) will provide a 575 psi overbalance given a Monterey reservoir pressure of 2760 psi at 7546' VD (.3658 psi per ft gradient or 7.0 ppg EMW). Reservoir pressure based on information obtained from a 30 hour pressure build up survey run in C-8 on 4/2/96.** Adequate concentrations of zinc carbonate H2S scavenger will be kept on location at all times. The pH will be that of seawater/NaCL fluid and not controlled. Scaletrol will be added to prevent scale formation - 5 gals per 200 bbls optimum 5 gals per 1000 bbls minimum concentration.

WELL CONTROL CONSIDERATIONS:

It is critical to keep the hole full at all times. Utilize trip tank with centrifugal pump to monitor fluid losses and keep hole full. Review of recent workovers on Platform Hermosa high PI wells in July 1995 reveal fluid losses in excess of 8 BPM. **For wells with high fluid losses and 9-5/8" casing a fill up rate of 5 BPM will ensure no gas migration to the surface.**

PRIOR TO RIG WORK:

Check tubing pressure and all annulus pressures.
Pull valve from lower most gas lift mandrel at 6571' and kill well by circulating sea water down the tubing and up the tubing/casing annulus taking returns to Production vessels.
Remove flowlines from tree.

PROGRAM:

Note: This frac job is scheduled to take place before the C-11 frac job. Mobilization of D.S. frac equipment will take several days.
Also note: Removal of C-1 ESP equipment will require the following specialized equipment. 1) Spooler for ESP cable (Hambros). 2) Spooler for deep set SSSV control line (Hambros or Chevron field services). 3) REDA pump boxes and pump handling equipment.

1. Skid rig to Slot 4, well C-1.
2. Close SSSV and install one way BPV.
3. Arrange for platform electricians to **lock out, tag out and disconnect electrical supply** to the ESP.
4. Check pressure in the tubing hanger X tree adapter void area and test same to 3000 psi. Note: Deep set SSSV line is continuous, shallow SSSV utilizes seal nipple on top of tubing hanger. Remove tree. Plug shallow SSSV control line port in tubing hanger and deep SSSV control line. Cut off ESP leads flush with top of tubing hanger. Nipple up 13-5/8" Class IV 5000 PSI BOPE and test to 250 psi low and 3000 psi high. **Test blind rams after first trip out of hole.**
5. Pump tubing volume and remove BPV. Back-out lock down screws. Unland tubing hanger using FMC Acme X 3-1/2" Hydril 501 crossover on landing joints. Release Halliburton RDH dual hydraulic packer at 6692'(40,000# shear). **Prior to POOH with ESP, ensure ESP cable cutters are on rig floor. In the event of a well control situation, be prepared to cut cable and space out tubing for shut in.** POOH laying down tubing and send in for inspection. Send SSSV, gas lift mandrels and packer to manufacture for redress. Send ESP cable to Sonic. Return REDA pump and motor to REDA. Note: Pressure test Xmas tree and all valves to 5000 psi prior to re-installation, plug extra ports in tubing hanger adapter flange. Re-dress existing tubing hanger, plug extra control line port and electrical ports. **Note: Follow the attached "C-1 ESP Electrical Troubleshooting Procedure" during removal of ESP.**
6. Pressure test blind rams to 250 psi low and 3000 psi high.
7. Make cleanout run with 6-1/8" bit and tandem 7" and 9-5/8" casing scrapers to 9800'. Space out scrapers so as to scrape 9-5/8" casing to near top of 7" liner lap at 9018'.
8. RIH with work string and set a Baker bridge plug in the 7" liner at 9100'. Test the liner lap and casing to 2500 psi for 30 minutes. Locate any leak. If the liner lap fails to test be

prepared to run a Baker tie-back stem with 7" X 9-5/8" liner packer and 10' tie-back extension to isolate the liner lap.

9. Set a Baker Model 'D' permanent packer on wireline in the 7" liner at 9710'. Packer is to be equipped with 3-1/2" x 6' pup joint, Otis 'XN' nipple and wireline re-entry guide. Run correlation log to locate perforated intervals in conjunction with packer setting.
10. RIH with workstring and set a Baker model "F" latching plug in the model "D" packer at 9710' MD. Test packer and plug to 1000 psi.
11. RIH with work string and 3-1/2" tubing tail for liner. Tag Model 'D' packer at 9710'. Spot sand from packer to 9520' leaving 10' of perforations from 9510'-9520' open. Utilize following procedure to spot sand:
    A. Hang open ended tubing near 9500'.
    B. Rig up RCM mixer with sand hopper in conjunction with the cement skid.
    C. Mix and pump calculated volume of 20/40 white and river sand mix to fill from packer to desired sand back depth. Sand concentration not to exceed 2 ppg, pump rate of 1.5 to 3 BPM.
    D. Displace sand to within 15 bbls of end of tubing. Slow rate to ½ to 1 BPM and finish displacing tubing volume. Work tubing during displacement.
    E. PUH 5 stands and wait one hour. RIH and tag sand. If sand is low, mix and pump the appropriate amount of sand and displace as above.
    F. If sand is too high, reverse out excess.
    G. After tagging at correct depth, wait 30 minutes and re-tag to confirm depth. POOH.
12. RIH with frac string as follows: 2-7/8" mule shoe, 2-7/8" 'XN' Nipple, 10' perforated blast joint, 2-7/8" 'X' Nipple, 6' 2-7/8" pup joint, Baker 7" Retrievamatic packer, 3½" IF by 4½" Hydril 501 crossover, 4½" 12.75# L-80 Hydril 501 tubing to surface with Baker 'F' nipple near 1000'. Install 4½" x 13-5/8" tubing hanger and set packer with tail near 9260'. Externally test connections to 6000 psi. The packer will need to be set prior to landing the tubing hanger to allow for sufficient slack-off to apply 40,000 lbs down force on the packer (41 inches of slack-off after setting packer) when the hanger lands. Above the tubing hanger, use 5" 18# L-80 Hydril 563 tubing. Plug test the landing joint(s), tubing hanger and fatigue nipple to 7500 psi. Lock down tubing hanger.
13. Rig up D.S. frac equipment per attached schematic. Rig up and test annulus relief valve, set for 3000 psi.
14. RIH with test plug on slick line and set in 2-7/8" "X" landing nipple below packer. Test frac string to 6000 psi. Retrieve test plug.
15. RIH with quartz pressure gauges on slick line and set in 2-7/8" 'XN' nipple below perforated blast joint.
16. Pressure annulus to 2500 psi. Hold 2500 psi on annulus throughout frac.
17. Perform mini-frac (Estimated time is 3-4 hrs). The mini-frac includes the pumping of up to 30,000 gals of crosslinked fluids without proppant. Pump rates will be 30-40 bpm with 5500-7500 psi surface pressure. **Production Engineer Rick Quilter will supply detailed programs for the mini-frac and frac jobs.**
18. RIH with wireline and retrieve pressure gauges.
19. Bleed off pressure from tubing/casing annulus.
20. Analyze mini-frac data and modify (if needed) final frac design.
21. Re-pressure tubing/casing annulus to 2500 psi and hold 2500 psi on annulus throughout frac job.

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Name: LW Date: 10/31/13

22. Perform frac job. The frac job includes the pumping of 50,000 gals of cross-linked fluids with 90,000 lbs of proppant. Pump rates will be 30-40 bpm with 5500-7500 psi surface pressure. Note: In case of premature sand out during frac job, the tubing could become bridged with proppant. Make arrangements to have a coil tubing unit on standby to clean out any sand bridges in tubing.
23. After completion of frac, flow back well to production facilities as directed by Production Engineer Rick Quilter. A maximum of 500 bbls will be flowed back, or until well dies.
24. During flowback, tubing/casing annulus pressure can be bled down as tubing pressure decreases.
25. Kill well (if necessary) by bullheading tubing or by reverse circulation after opening unloader or unsetting packer.
26. POOH with frac string and packer.
27. RIH with overshot, clean out sand, latch and retrieve 'F' latching plug from Baker model "D" packer at 9710' MD. If well is taking too much fluid to circulate or reverse out sand fill, be prepared to use a tubing bailer to clean out fill and retrieve packer plug.
28. Run 3-1/2" production tubing with 9-5/8" hydraulic packer as per "Production Tubing Running Procedure".
29. Install back pressure valve. Nipple down BOPE. Nipple up 3-1/2" tree and pressure test to 5000 psi. Turn well over to Production. Note: Operations to conduct a no flow test of the tubing sub-surface safety valve after production has been established.

COMPLIANCE WITH FEDERAL OR LOCAL REGULATORY AGENCIES

Ensure that a copy of the MMS and the Land approvals are 'in hand' prior to commencement of operations. Permit requirements take precedence over program procedures. All program modifications to be approved by the MMS: Phil Schroeder or Dan Knowlson (805) 922-7958.

February 13, 1997

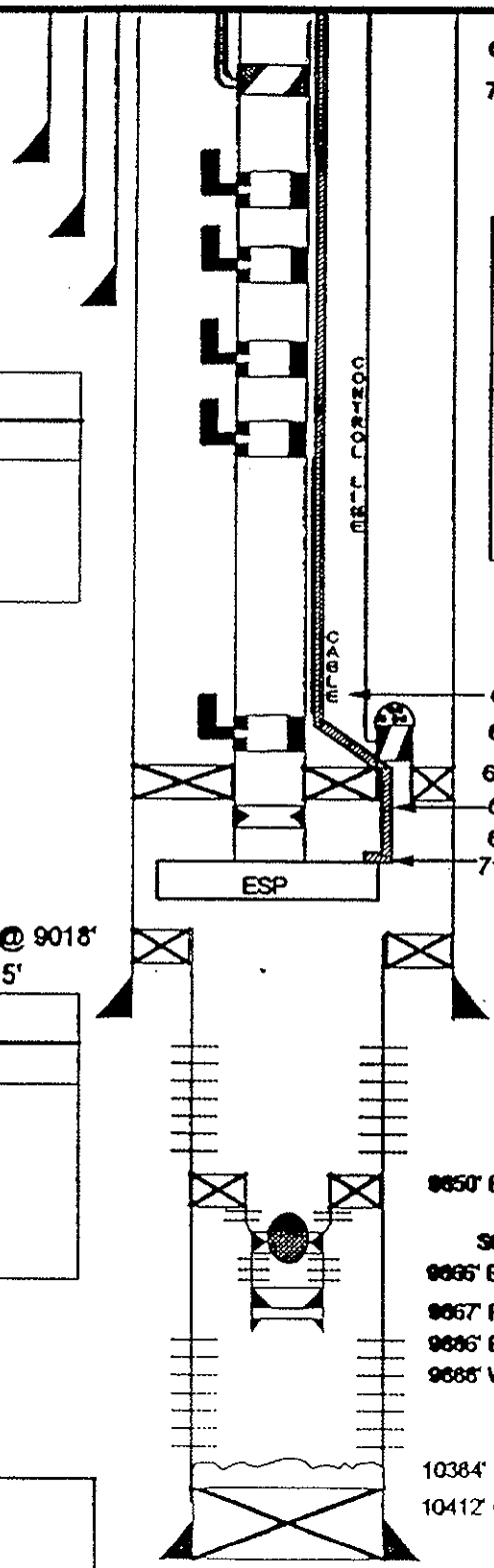
R. A. Piccinatti — Drilling Engineer

R. M. Quilter — Production Engineer

Releasable to public
Name: RW Date: 10/31/13

D.F. ELEVATION	13'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH		WELL	C-1
REE	FMC	COMPLETION DATE	1/13/88
5000	PSI W.P.	WORKOVER	2/26/94
			9/16/95

CURRENT



GAS LIFT

Mc Murray MANDRELS 3-1/2" FO-1.5		Enterra Valves 1-1/2" VRMT	
M.D.	T.V.D.	P.S.I. (scp)	PORTS
2096'	2089'	1122	1/4"
3151'	3012'	1080	1/4"
4017'	3822'	Orifice	5/16"
4690'	4116'	Dummy	
6571'	5464'	Dummy	

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	9658'	-7296'
M2-Top	9820'	-7457'
M3-Top	9876'	-7660'
M4-Top	10094'	-7840'

PERFORATIONS

FORM.	M.D.	V.S.S.
M-1	9618' - 9570'	-7406' - -7450'
Perfs. are .90" dia. @ 4 SPF		
M-2	9628' - 9700'	-7467' - -7547'
M-2	9730' - 9830'	-7570' - -7646'
M-3	9876' - 9906'	-7680' - -7708'
Perfs. are .42" dia. @ 6 SPF		

	OD	LENGTH	DEPTH
Pump	5.38"	20.4	7216
Pump intake	5.40"	1.2	7236
Protector	5.40"	11.4	7238
Motor	5.62"	34.0	7249
PSI Tool	5.62"	5.0	7283
Bottom of ESP			7290

DIRECTIONAL DATA

VERTICAL TO 600'
MAX ANGLE 52 @ 10498' AND
52 @ TD

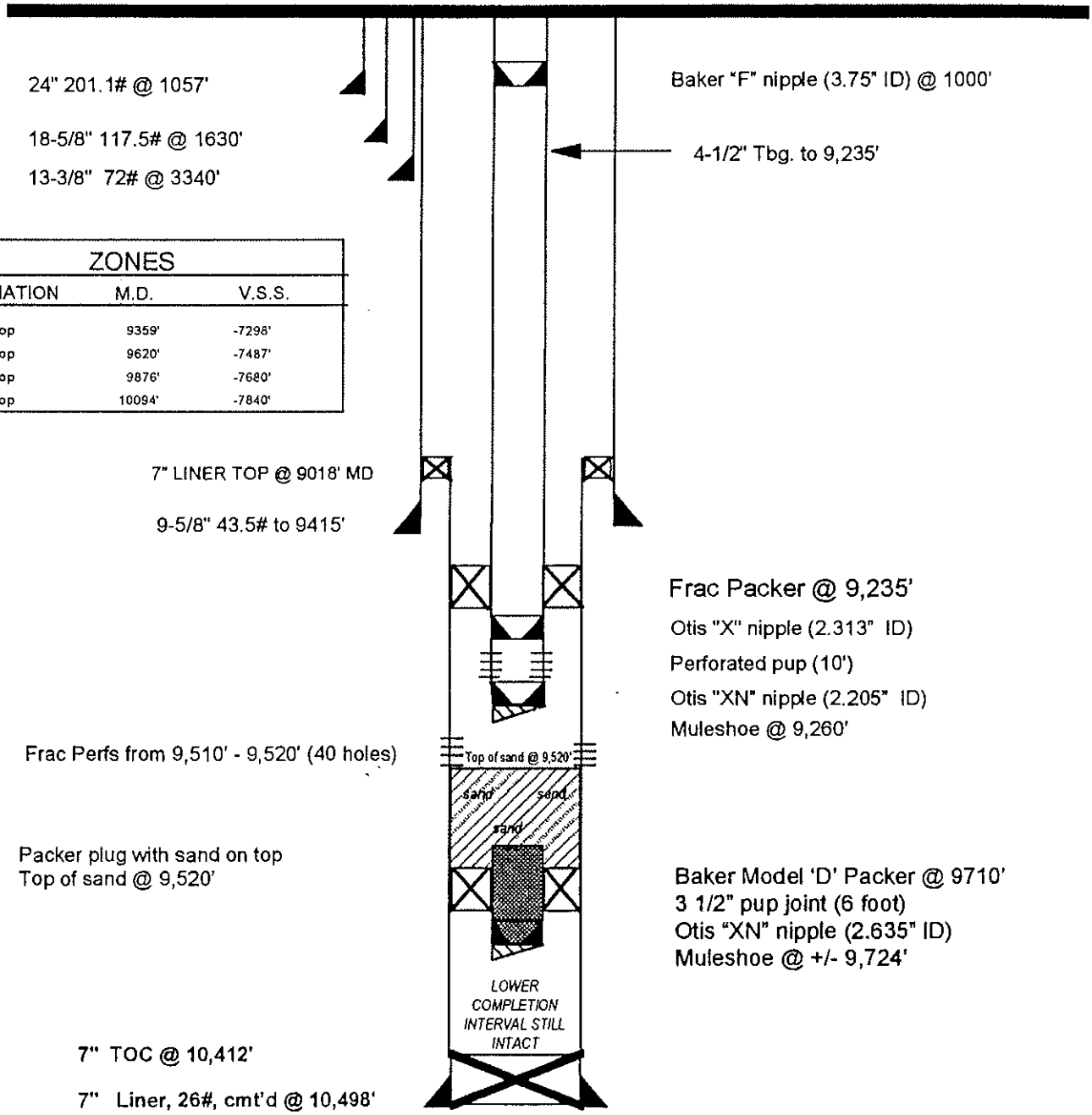
PBTD 10412'
TD 10498 (-8102 VSS)

DATE 11-20-95
BY V D E

Releasable to public
Name: LW Date 10/31/13

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-1
TREE	McEvoy - Willis	COMPLETION DATE	1/13/88
5000 PSI W.P.		WORKOVERS	2/26/94; 9/16/95

FRAC STRING DESIGN



ZONES		
FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

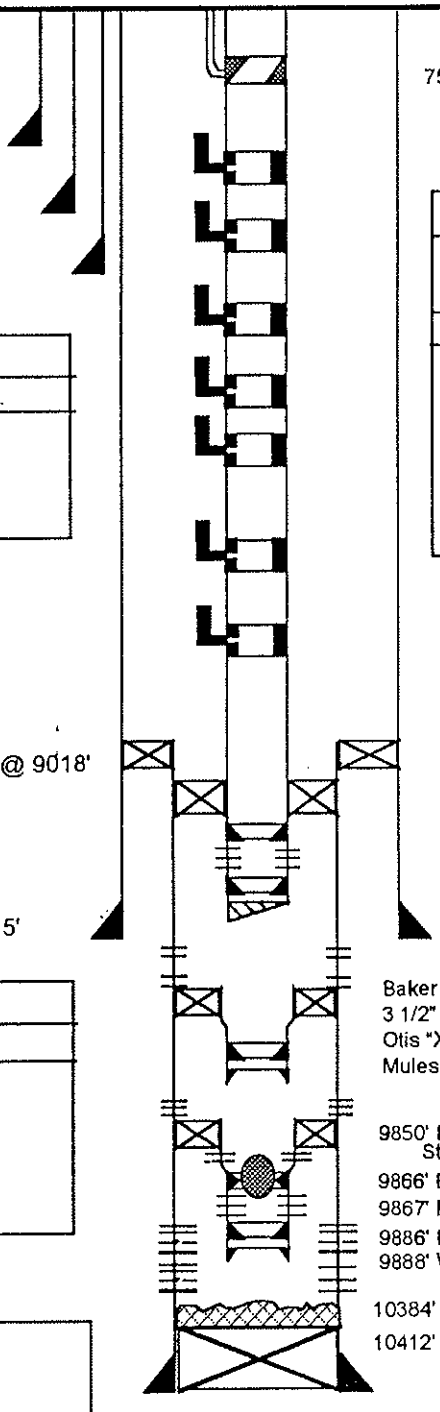
DATE 02-12-97
BY RMQ/DML

Releasable to public
Name: EW Date: 10/31/13

Releasable to public
Name: RW Date: 10/31/13

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH		WELL	C-1
TREE	FMC	COMPLETION DATE	1/13/88
5000 PSI W.P.		WORKOVER	2/26/94; 9/16/95

POST FRAC COMPLETION - *Proposed*



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

750' Baker FV-6 SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT			
Mc Murry MANDRELS 3-1/2" FO-1.5		McMurry Valves 1-1/2" VRMT	
M.D.	T.V.D.	P.S.I. (scp)	PORTS
		Dummy	
		Dummy	
		Dummy	
		Dummy	
		Dummy	
		Dummy	
		Dummy	

ZONES		
FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

T.O.L. @ 9018'

9200' Baker 'HB' Packer
Five tubing joints
Otis 'X' Nipple (2.75" ID)
Perforated Pup (10')
Otis 'X' Nipple (2.75" ID)
W/L Re-entry Guide @ +/- 9377'

9-5/8" 43.5# TO 9415'

PERFORATIONS		
FORM.	M.D.	V.S.S.
M-1	9510'- 9570'	-7406'--7450'
Perfs. are .50" dia. @ 4 SPF		
M-2	9620'- 9700'	-7487'--7547'
M-2	9730'- 9830'	-7570'--7646'
M-3	9876'- 9996'	-7680'--7769'
Perfs. are .42" dia. @ 6 SPF		

Baker Model 'D' Packer @ 9710'
3 1/2" pup joint (6 foot)
Otis "XN" nipple (2.635" ID)
Muleshoe @ +/- 9,724'

9850' Baker 'FB-1' Retainer (4" ID)
Stand. Valve set in Nipple (2/4/92)
9866' Baker 'R' Nipple w/ NoGo (2.697" ID)
9867' Perf'd Pups (2-10' Pups)
9886' Baker 'R' Nipple w/ NoGo (2.442" ID)
9888' W/L Re-entry Guide

10384' Top of Fill
10412' Cement Plug

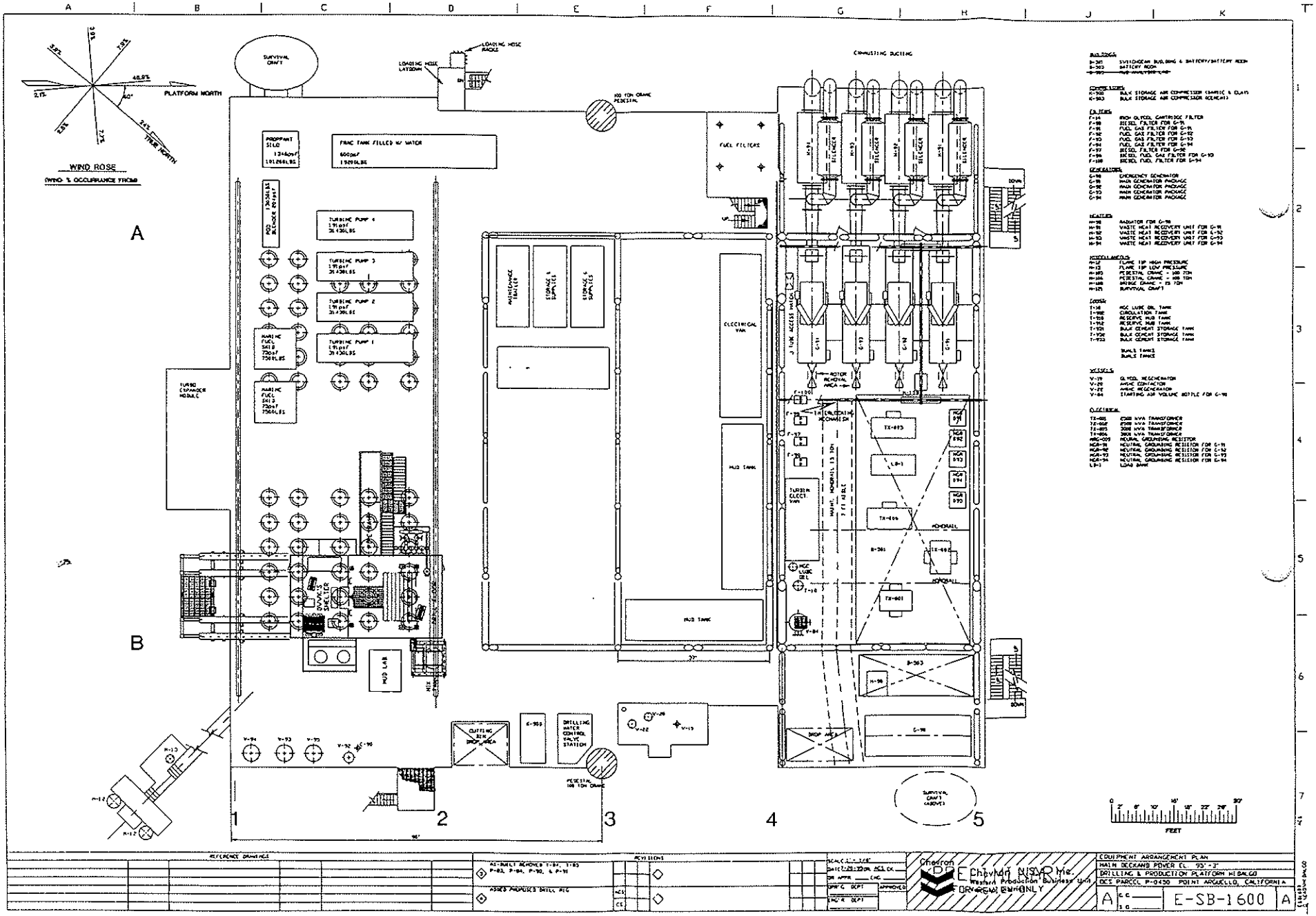
7" 26# @ 10498'

DIRECTIONAL DATA
VERTICAL TO 600 '
MAX ANGLE 52 @ 10498 ' AND
52 @ TD '

PBTD 10412 '
TD 10498 (-8102 VSS)

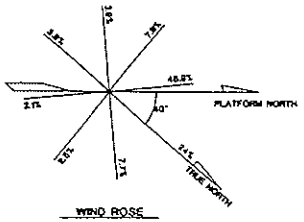
DATE 2-12-97
BY RMQ/DML

Releasable to public
Name: RW Date: 10/31/13

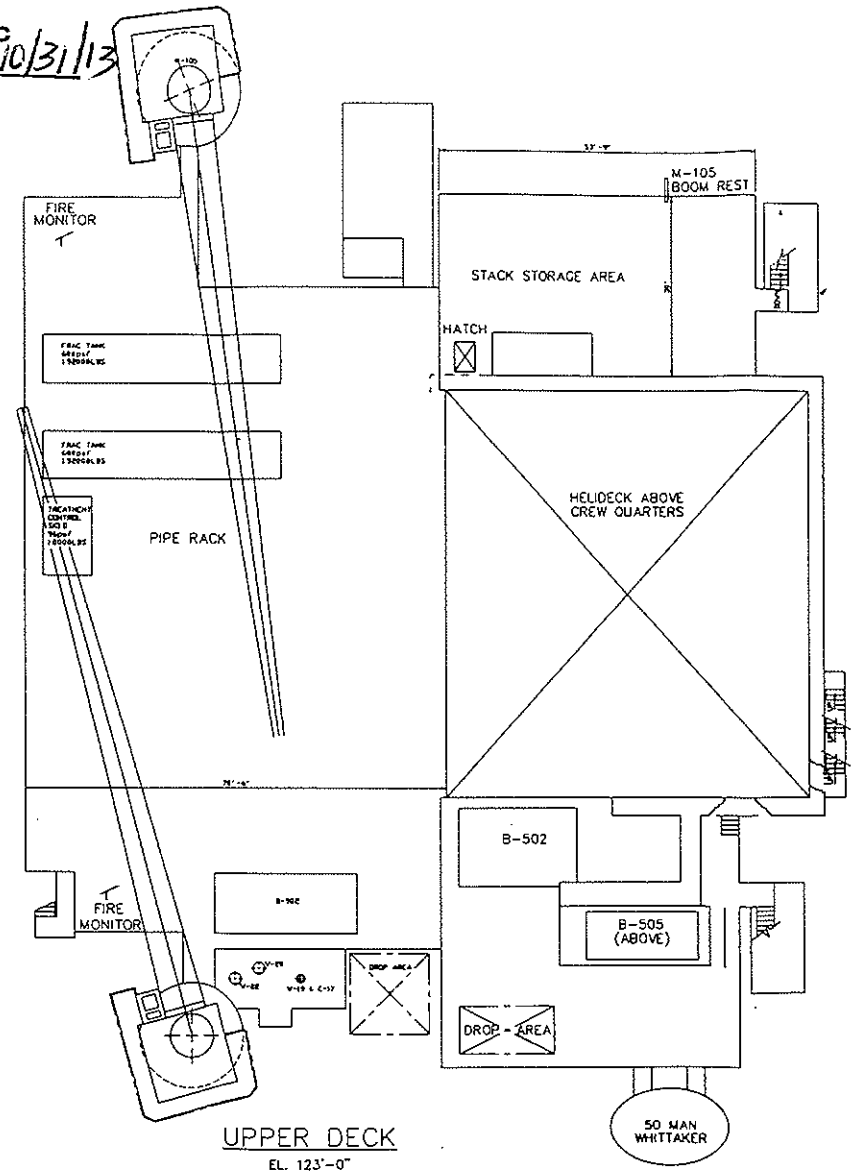


REFERENCE DRAWINGS	REVISIONS	Chevron E&P Co.	EQUIPMENT ARRANGEMENT PLAN
		Chevron USA P Inc.	MAIN DECKAND POWER EL. 93'-3"
		Western Production Business Unit	DRILLING & PRODUCTION PLATFORM HILDALGO
		DRAWING ENTITY ONLY	OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA
			A E-SB-1600 A

Releasable to public
Name: RW Date: 10/31/13



WIND ROSE
(WIND % OCCURRANCE FROM)



UPPER DECK
EL. 123'-0"

REFERENCE DRAWINGS		REVISIONS		Chevron U.S.A. Inc. Western Production Business Unit Ventura District	EQUIPMENT ARRANGEMENT PLAN	
		AS-BUILT - GENERAL ADDED B-305 POWER FACTOR			UPPER DECK PIPERACK EL. 123'-0"	
		ADDED PROPOSED FRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL			DRILLING & PRODUCTION PLATFORM HIDALGO	
					OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA	
					A E-SB-1500 A	

COPY TO REGION

MINERALS MANAGEMENT SERVIC
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20605 01	S-89	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	Shut-In
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03528 E07916	P-0216	4861	6B	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 ___ X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See Attached

7878

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	ES&RC Manager
30. AUTHORIZING SIGNATURE	**31. DATE** 9-27-96

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for/ District Supervisor

DATE 10/3/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

OSC-P0216
PLATFORM GILDA
WELL S-89
LOCATION OF WELL

AT SURFACE:	07916 FWL & 03528 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1041684.4 Y= 748008.0
KICKOFF POINT:	09941 FWL & 03668 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1039659 Y= 747868
TARGET NO. 1: LP-B SAND	11517 FWL & 03845 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1038173 Y= 747800
BOTTOM HOLE LOCATION:	11747 FWL & 03886 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1037853 Y= 747649

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-89 DRILLING PROGRAM
REDRILL OF S-53

Proposed TD: 5408' TVD / 7019' MD

Surface Location: Slot No. 6
X= 1041684 Y= 748007

Subsurface Location: 359' South and 3831' West of the surface location at 5408' TVD

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	VSS	TVD	MD	Est. Press.(psi)
MP-1B1	3003'	3110'	4364'	1200-1500
MP-3	3919'	4026'	5448'	1200-1500
LP-1	4190'	4297'	5757'	1200-1500
LP-2	4321'	4428'	5900'	1200-1500
LP-3	4593'	4700'	6210'	3100-3200
LP-4	4698'	4805'	6339'	3100-3200
LP-B	4877'	4984'	6536'	3100-3200
LP-B2	5028'	5135'	6707'	3100-3200
LP-D	5236'	5343'	6948'	2200-2500

Existing Casing

20", 94#, X-52	0-726'
16", 75#, X-52	0-1625'
13 3/8", 54.5 & 68#, K-55	0-3677'
9 5/8", 47#, N-80	0-10303'
5 ½", 15.5 & 17#, K-55 SSWW Liner	9589'-10215'

Perforations

9674'-9862'	12-3/4" HPF
9910'-10211'	12-3/4" HPF
9670'	4-1/2" Squeeze Holes
9910'	4-1/2" Squeeze Holes

Drilling Procedure

1. MIRU wireline. Pull SSSV from the X-nipple @ 796'. Open the "XA" sleeve @ 9496' and change the well over to seawater. Bleed the well down to the production system.

2. Skid the rig over slot #6, well S-53.

3. Check tubing and casing pressure and circulate kill weight mud if necessary. Install a BPV and nipple down the tree. Install a new tubing spool on top of the existing wellhead to allow the 7" casing to be landed and the tubing run and landed in the new spool. Nipple up a 20 3/4", Class IV, 3M BOPE. Test BOPE at 250/2100 psi in accordance with Field Rules and MMS regulations.

4. Unsting from the packer at 9531' and circulate the well with seawater or kill weight mud. Pull and lay down the production equipment. Run in the hole and stab back into the Otis "WB" packer at 9531'.

5. With the seal assembly stabbed into the packer establish a breakdown rate and pressure. Abandon the existing production interval by down squeezing cement (100 cu. ft.) through the permanent packer and balancing a 50 cu. ft. cement plug on top of the packer. Pull above the top of the cement, circulate clean and WOC.

6. RIH and tag the top of the cement. Change the well over to 9.5 ppg gel abandonment mud from the top of the cement to 3700'. Pull out of the hole laying down the production tubing.

Note:

1) See attached cementing program for abandonment cement slurry specifications.

7. Run in the hole picking up 5" drill pipe and a section mill. Mill a window from 3750' to 3800'. The milling fluid will need to have a minimum of 100 sec. viscosity. Pump at high rates and sweep the hole with sawdust to remove the metal cuttings. Pull out of the hole and pick up a 15" under reamer. Run in the hole and and underream the milled section to 15".

8. Pick up a 2 7/8" tubing stinger and run in the hole. Balance a cement plug from 100' below the window , across the window and 100' above the window.

Note:

1) See the attached cementing program for the slurry specifications. A high density cement slurry (16.5 ppg) will be used for the kick off plug.
2) Consider using a drill pipe wiper dart when laying the cement plug.

9. Run in the hole with an 8 ½" bit and polish off the cement plug. Pull out of the hole. Run in the hole with a steerable directional drilling assembly. Drill 15' of new formation and perform a pressure integrity test at the shoe to 13.5 ppg EMW. Continue directionally drill an 8 ½" hole from 3800' to 5408' TVD / 7019' MD (through the LP-D Sands). Treat the mud system for cement contamination. The mud system to be used through the openhole section will be seawater, SP-101 and pre-hydrated gel.

Note:

1) The LP-2 through LP-4 could be over pressured requiring 11.5 to 12.0 ppg mud weights.
2) Mud loggers to start upon drilling out the window.
3) See the attached drilling fluids program.

10. At total depth circulate and condition the mud for electric logging. Wipe the hole to the 9 5/8" casing shoe. Pull out of the hole and rig up wireline. Run a quad-combo consisting of AIT/PLT/MSFL and DP Sonic from 3800' to 7019'. Rig down wireline.

11. Run in the hole and circulate and condition the mud for running casing. Wipe the hole to the 9 5/8" casing shoe. Run back to bottom and pull out of the hole laying down the 5" drill pipe.

12. Rig up casing crew and run the 7", 26#, N-80, Hydril 521 & LT&C casing from 7019' to surface as follows;

A) 7", Hydril 521, Float Shoe
B) 2 jts. of 7", Hydril 521, casing
C) 7", Hydril 521, Float Collar
D) 3420' of 7", Hyrdril 521, casing
E) 7" x-over: Hydril 521 x LT&C
F) +/- 3500' of 7", LT&C, casing

Note:

1) Positive standoff centralizers to be placed two per joint through the zones of interest then one every other joint to the 9 5/8" shoe.
2) Thread lock the shoe and the next 2 collars.

13. With the casing on bottom, circulate the well a minimum of two casing volumes or until the mud returns are clean. Mix and pump cement per the attached program. Reciprocate the casing while circulating, mixing and displacing the cement. Displace the cement at a high pump rate (8 to 10 bbls/min). Bump the plug with 500 psi above the final circulating pressure and check the floats.

Note:

1) See the attached cementing program for slurry specifications.

14. Land the 7" casing in the existing tubing spool and back out the landing joint. Activate the 7" by 9 5/8" casing packing.

15. Turn the rig and well over to the production department.

Completion Procedure

16. Pick up the production tubing and 7" scraper and run in the hole. Change the well over to clean completion fluid. Pull out of the hole.

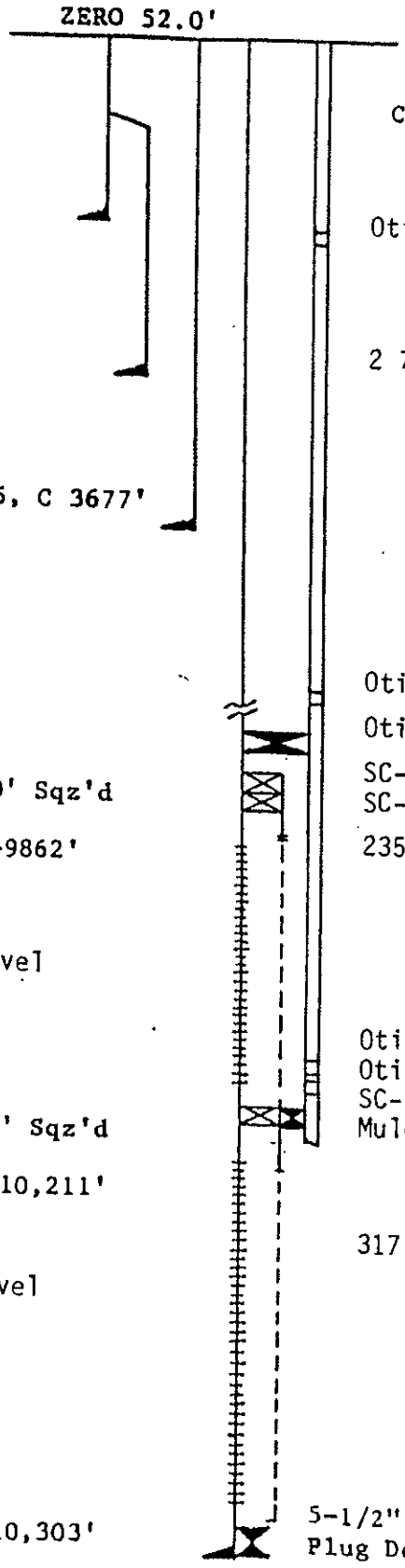
17. Rig up wireline and run a CBL/VDL/Neutron correlation log. Review the log and decide on the need to squeeze cement any zones of interest.

18. Perforate and hydraulically fracture stimulate the LP-B1 and LP-B sands. Clean out the fracture sand. Place the well on production and determine if a gravel pack is needed to produce the well without sand production.

19. If sand production is a problem, perforate any additional zones of interest and run a 5" SSWW screen across the entire perforated interval and gravel pack.

20. Run the production equipment and hydro test the tubing into the hole. Land the tubing with a back pressure valve and nipple down the BOPE. Install the production tree and release the rig.

SANTA CLARA UNIT
WELL S-53 (SLOT 6)



Top of 16" 395'

20", 94#, X-52, C 726'
1200 cu.ft.

16", 75#, X-52, C 3677'
1241 cu.ft.

13-3/8", 68# & 54.5#, K-55, C 3677'
2490 cu.ft.

4 - 1/2" Holes @ 9670' Sqz'd

12 - 3/4" JHPF 9674'-9862'
(188')

Gravel packed w/16-30M gravel

4 - 1/2" Holes @ 9910' Sqz'd

12 - 3/4" JHPF 9910'-10,211'
(301')

Gravel packed w/16-30M gravel

9-5/8", 47#, N-80, C 10,303'
2467 cu.ft.

SPUD 2-11-85
COMPLETED 3-30-85

Otis "X" Nipple 796'

2 7/8" 6.5# N-80 tubing

Otis sliding sleeve 9496'

Otis "WB" Packer 9531'

SC-IL Packer 9589'
SC-IL Packer 9595'

235' of .02" SSWW Screen
9633' - 9868'

Otis sliding sleeve 9822' 2.313" ID
Otis "XN" Nipple 9856' 2.205" ID
SC-1A Packer & Seal Ass'by @ 9868'
Mule Shoe @ 9885'

317' of .02" SSWW Screen
9897' - 10,214'

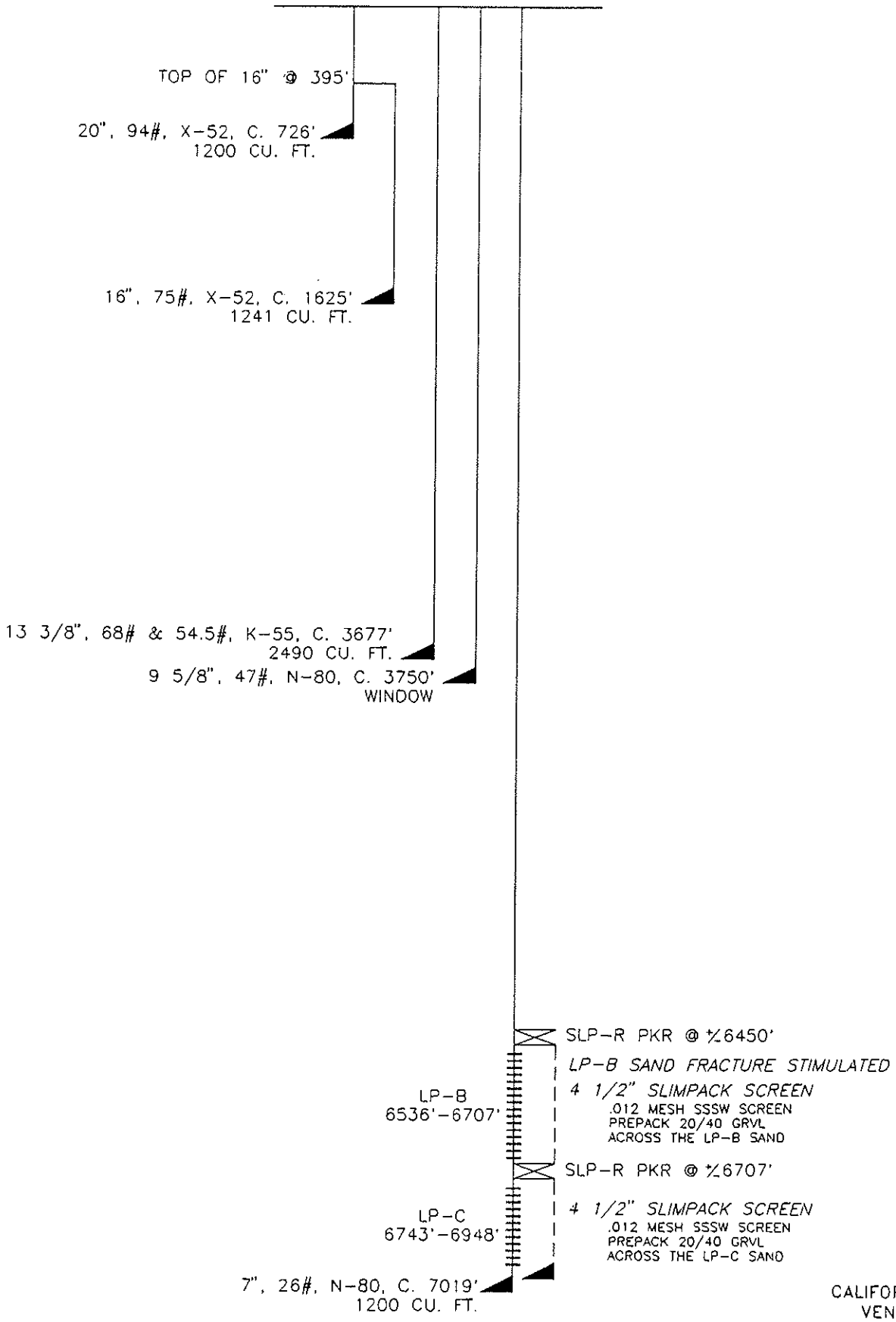
5-1/2", 17# & 15.5#, K-55, L 10,215'
Plug Depth 10,216'

TD 10,325'

GER 6-18-88

SANTA CLARA UNIT
Well #S-89

Slot #6



TORCH OPERATING COMPANY

CALIFORNIA OPERATIONS
VENTURA COUNTY
9/96 RJDIII

OCS-P0216
PLATFORM GILDA
WELL S-89
CASING DESIGN

9 5/8" CASING

Effective Setting Depth (KOP) = 3750' MD / 2749' TVD

Existing: 9 5/8", 47#, N-80, LT&C 8 Rnd
Estimated Top of Cement: +/- 2500'

Collapse

Original mud weight for the 9 5/8" casing interval = 10.1 ppg

P_c = (2749') (10.1 ppg) (.052) = 1444 psi

S_F = 4750 psi / 1444 psi = 3.29

Tensile

N/A (already set and cemented)

Burst

Burst with gas to surface for BHP = 3200 psi
WHP = 2880 psi

S_F = 6870 psi / 2880 psi = 2.38

7 " Casing @ 5408' TVD, 7019' MD

Collapse

Maximum mud weight of 11.5 ppg @ casing point, pipe evacuated @ TD.

P_C = (5408') (11.5 ppg) (.052) = 3234 psi

7 ", 26#, N-80 Pressure Rating w/ 1.25 safety factor
(5410 psi) / (1.25) = 4328 psi

S_F = 4328 psi / 3234 psi = 1.34

Burst

Anticipated BHP of 3200 psi
Maximum anticipated WHP w/ .1 psi/ft. gas = 2880 psi

7", 26#, N-80 P_B = 7240 psi

S_F = 7240 psi / 2880 psi = 2.51

Tensile

Buoy Weight = (26) (7019') (.8243) = 150429#
W/ 11.5 ppg Drilling Mud

7", 26#, N-80, LT&C Joint = 519000#
Body = 604000#

S_{FJT} = 519000 # / 150429 # = 3.45

S_{FB} = 604000# / 150429# = 4.02

Maximum Overpull w/ S_F

Jt = 519000# / 2 - 150429# = 109071#

WELL #S-89

Abandonment Plug

Depth	9150'	
Cement Volume	150 ft3	
BHST	180' F (estimated)	

Cement Design ***(150 ft3)***

Premium Cement	Yield	1.15 ft3/sk
Halad-322 (.5%)	Density	15.8 lb/gal
HR-5 (.1%)	Water	5.0 gal/sk (fresh)

Kick-off Plug

Depth	3700'
Hole Size	18"
BHST	120' F (estimated)
Excess	100%
Casing	9 5/8"

Cement Design

Premium Cement	Yield	.99 ft/sk
CFR-3 (.75%)	Density	17.0 lb/gal
	Water	3.78 gal/sk (fresh)

Liner Job

Depth	7000'
Liner	7"
Hole Size	8 1/2"
BHST	150' F (estimated)
Excess	30% in open hole
Cement Top	3400'

Cement Design

Premium Cement	Yield	1.15 ft3/sk
Halad-322 (.75%)	Density	15.8 lb/sk
	Water	5.0 gal/sk (fresh)

OCS-P0216
PLATFORM GILDA
WELL S-89
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
3750'-7019'	DIL/GR/MSFL

Mud Logs

Interval (MD)	
3750'-7019'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

OCS P-0216
PLATFORM GILDA
WELL S-89
BOP Program

9 5/8"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 2500 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi
7"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 2500 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which is prior to drilling out the 9 5/8" casing and at 7 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-89
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position toll joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 2000 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	3 RPM READING	FLUID LOSS (cc 30 min)	MUD COMPONENTS
3700'-3750	9.6 ppg	80-100	25+	NC	Seawater Durogel Soda Ash
		Mill Window in 9-5/8" Casing			
3750'-7000'	12.0-12.5	40-50		6-8 cc	Seawater Gelite SP 101 Soltex SXC Polymer
		Set Casing @ 7000'			

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate gas cut mud out (small intrusion).
    b) Raise mud weight if necessary

2. Kick

    a) Prevention. Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking

    a) Maintain a low fluid loss.
    b) Maintain 3 - 6 ppb of Soltex in the system.

4. Tight Hole

    a) Wipe the hole.
    b) Reduce the fluid loss if necessary.

5. Solids Build-up

    a) Run all applicable solids control equipment.
    b) Dilute.

6. Foaming

    a) Use Defoam X.
    b) Add fresh Gelite.

DISCUSSION BY INTERVAL

INTERVAL:	Milling	9-5/8" Casing	3700' - 3750'

FLUID TYPE: Milling Fluid

COMPONENTS WITH TYPICAL USAGE LEVELS:

Durogel	25 ppb
Soda Ash	.5 ppb
Sawdust	as needed
Barite	as needed for weight

RECOMMENDED MUD SPECIFICATIONS:

Density	9.5
Viscosity	100± sec/qt.
PV:YP: Ratio	1:4 - 1:5
Fluid Loss	no control
3 rpm reading	20+
Gels	22 / 31

POSSIBLE PROBLEMS / SOLUTIONS:

1. Hole Cleaning
   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

DISCUSSION:

Use the clay base left from abandoning the S-53 well for milling. Add enough Durogel to convert it into a milling fluid.

Use this same fluid to underream the window and lay the cement plug. Thin back the milling fluid with a small amount of chrome free Desco for polishing off the cement plug and for any leak off tests.

DISCUSSION:

Changeover to a pre-mixed 10.0 ppg seawater/Gelite-SP-101.

Gradually increase the mud weight while drilling ahead. Have the entire system wieghted up to 12.0 ppg by 5850' (top of the LPA is projected to be around 6250'MD / 4805'TVD).

Closely monitor the well for gas while drilling ahead - a higher mud weight might be required sooner.

Differential sticking is a potential problem in this interval, especially in the Pico sands. A concentration of 3 lbs/bbl of Soltex is recommended to be maintained in the system at all times.

Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. Sp-101 should be added to control the API fluid loss in the 6 - 8 cc range.

Keep 80 to 100 barrels of a spotting fluid on the platform for differential stuck pipe.

Soda Ash should be added to keep the Calcium level below 200 Mg/L. This will help the effectiveness of the SP-101 and other chemicals.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 200 mesh screen on the mud cleaner.

Barite should be used to maintain the proper mud density.

With the hole angle at 60°, there is the possibility of the cuttings sliding down the hole if there isn't any pipe rotation; we recommend a small amount of XCD polymer be added to the system if needed to help adequately clean the hole.

Torch Operating Company

Completion Procedure
AFE #2368/2369
S-91 (S-83RD)
Platform Gilda-Santa Clara Field
OCS P-0216, Offshore California
March 5, 1997

Prepared by: Bob Davis

Objective: Test Second Monterey Interval. Complete with appropriate lift equipment.

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft
Cond. Csg	20	Surf- 679	94.0	19.124	18.936	0.3552
Surf. Csg	16	401- 1,750	75.0	15.124	14.936	0.2222
Inter. Csg-1	13-3/8	Surf- 5,031	68.0	12.415	12.259	0.1497
Inter. Csg-2	9-5/8	Surf- 5,700*	47.0	8.681	8.525	0.0732
Prod. Lnr.-1	7-5/8	5,289- 8,737	29.7	6.875	6.750	0.0459
Prod. Lnr.-2	4-1/2"	8,417- 11,428	11.6	4.000	3.875	0.0155

* Sidetrack depth from original well S-67.

1. Kill well down tubing with sea water. Unseat packer. POOH with tubing, packer and gun assembly, keeping hole full.
2. RIH with cement retainer on tapered tubing string to 10,283. Circulate at least 45 ft3. of cement to retainer, set, and pump all but the last 5 ft3. of cement from the tubing. Unsting from retainer and POOH with tubing, leaving the remaining cement as a balanced plug on top of the retainer.
3. RIH with 3-7/8" mill, ~1,900' of 2-3/8" tubing, and 2-7/8" tubing. Dress off cement top in 4-1/2" liner. Run Schlumberger GR log to new PBTD and tie in to CBL.
4. Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Pick up and run in hole with Halliburton tubing conveyed perforating assembly, run under Baker Loc Set packer. Fill first 7,000' above the top perforation with filtered sea water as RIH, to achieve desired underbalance of 1000 psi. (assume ~0.45 psi/ft. formation gradient). Tag new PBTD and POOH to position guns on depth. Set 7-5/8" service packer and test annulus to 2000 psi.. Drop bar to perforate well from 9,230'-9,986' MD (overall).

DISCUSSION BY INTERVAL

INTERVAL:	Milling	9-5/8" Casing	3700' - 3750'

FLUID TYPE: Milling Fluid

COMPONENTS WITH TYPICAL USAGE LEVELS:

Durogel	25 ppb
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RECOMMENDED MUD SPECIFICATIONS:

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   a) Run the highest low shear rate as possible.
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Use the clay base left from abandoning the S-53 well for milling. Add enough Durogel to convert it into a milling fluid.

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PLATFORM Gilda
Workover Report

Date	Description
	WELL # S89- *POOH To Test BOPS*
10-19-96	POOH laying down DP to 3800'. Transfer mud to active pits, build mud VOL.. and wt up to 9.5 displace Seawater with 9.5 ppg Mud @ 3800' - POOH STD back 32 stands and LD 32 vts.. PU and assemble kelly. PU Baker 9 5/8 section mill & BHA. TIH to 3740' SLM. PU Kelly - pump thru lines and Kelly MU lower Kelly valve and saver subs - test Kelly, lines and hose to 2500 PSI swivel leaked - tighten swivel and adjust kelly hose retest to retest to 2500 PSI OK. - Brk. circ. @ RT.
10-20-96	Brk circ. & start mill . Mill 3750 -3751 open arms. Check for flow, Neg. Mill 9 5/8 to 3761 (11') catching mill cuttings in bins, work "birdnest" off mill pump sawdust, sweep mill 9 5/8 section to 3800' (50'). Sweep hole - POOH to 3463' pipe dragging 100k over string wt. on each stand- att to pump hole. neg. Work mill back to section w/Kelly. Brk. circ. @ 3795 circ. hole clean - rotate and work pipe 3800-3750, circ. hole clean again. Work mill into 9 5/8 and out ATT to clean off section mill. Circ. Hivis sweep w/sawdust. Work 5 stands out to 3029'.
10/21/96	Circ. BTS up @ 3029, recovered small amount of metal cuttings and scale then cleaned up quickly, worked section mill P/3029 - 2750 - Normal drag 20k above 2768'. POOH & LD 9 5/8 section mill. Mill was clean and had no significant marks or deep scratches. PU 15' UR & TIH - TIH slow last 500' - No excess drag. UR section to 15' F/3750 - 3798 - Circ. hole clean - recovered some cement. POOH & LD UR. PU 473' 2 7/8' Tbg. and TIH to 3900' - to brk. circ. & neg. - tbg. plugged. POOH w/ wet string - last joint of DP plugged w/ metal cuttings - LD & replace 3 joints. TIH w/tbg string & TIH - Brk. circ. w/ 15 bbls every 10 stands @ 1403, 2338, 3277, 3649.
10-22-96	FIN TIH - work tubing into Csg. stub @ 3800 and RIH to 3915 RV CIRC lines & circ. hole clean. RU BJ lines, test BJ lines to 2000 PSI - pump 29 BIIS SW - Mix defoamer and circ. in disp. tanks - M&P 1485x class G cement + 1.4% CD-32 + 1% R-3 + 2 PP-66 @ 17.2 ppg w/SW and spot balanced plug F/3650' to 3900'. Pumped 5.5 bbls water behind slurry. CIP 0315 10-21-96. Pulled 3 stands. CIRC @ 3/4 BPM & PU to 3560 circ out @ 12 BPM. Circ out 5bbls CMT contaminated mud/water interphase- clean break to good mud - water, water brought out good load of cuttings - POOH & LD tubing tail string. MU Bit No. 1 TIH to 3500' (Brk. circ. @ 2500' - ok) wash down Tag CMT @ 3600' circ. out thick mud, clean out to 3700' circ. and cond. mud change over to gelite SP101 and mt up to 10.0 ppg, clean out CMT to 3716. Test drill, WOB 10k, 300-400 fph CIP 15 hrs. circ out - clean out 3716 to 3740 inc WOB to 15k drilled 80-250 fph left 10' CMT in 9 5/8 above section top @ 3750 - circ. hole clean - slug pipe. POOH to Test BOPS - LD 7" DCS.

027 P03 NOV 05 '96 12:28

10-23-96	FIN LD 7" DCS (4) CH pipe rams to 2 7/8 x 5 VBR's top & 4 1/2 on BTM, RU to test BOPS install test plug on - RU test pump to choke manifold - ATT to test BOPE - could not get test plug to seat, ATT to test CSG & blind rams to 1000 PSI. Did not test. Drain BOP stack and riser - wash out w/mud and water remove some metal cuttings, PU Kelly RIH and washout Tbg. Hgr. above raise kelly - Function rams washout bowl again - drain stack, remove lock -down pin, change test plug observe landing thru lockdown oriface - plug landed OK - PU to 2100 against VBR and test plug dropped 4" fully landed. Test BOPE lines, RAMS & valves 250/2100 - annular to 250/1400 - VBRS leaked after PU to test kelly - could not get VBRS to seal. (Had tested earlier - OK). Hydrik service rep. on morning boats to inspect failed brand new VBR's.
10-24-96	Install fast plug and fill stack. Try to P.T. VBR - No test. LD 2 jts. D.R. Remove VBR & install 5" rams, P.U. Test string & MU Test plug,, P.T. pipe rams 250 low + 2100 high, L.D. test string and fast plug, MU baker full bore - Tension PKR, RIH to 1853' RU + circ. sat PKR = PT csg. 1000 PSI - OK, RIH and set PKR @ 3246 , PT Csg. 1000 PSI - OK RIH and set PKR @ 3526 and PT Csg. 1000 PSI - OK, RIH and set PKR @ 3713 ft. pressure test Csg. 1000 PSI - OK, circ. bottoms up, POOH check PKR, leave HWD out and RIH w/ 4 1/2 DP, MU head and circ., RU B.J. P.T. lines to 3500 PSI set PKR @ 3452' pump 5 bbls H2O for injection rate 1 1/2 BPM @ 1700 PSI.
10-25-96	B.J. M & P 200 cu' (174svs) G CMT,w/pkr set @ 3452, CIP @ 0100 10-24-96, SI pressure 900 PSI after 3 hours, bleed off 1/4 bbls + pressure went to 0, bleed off annulus, open annulus and unseat PKR and reverse out, 60 bbls, POH + L.D. PKR C.O. rig floor MU 8 1/8" BIT & RIH, tag CMT stringer 3453', C.O. stringers to 3676', circ. & WOC, CO CMT to 3707' circ. CO CMT to 3750' + circ., POH, PU bit motor and MWD..
10-26-96	PU 6 JTS, HWDR + RIH. LD 15 JTS excess DP. Circ. & orient drill F/3750, T/3762, circ. perform P.I.T. 13.5 PPG EMW. Drill F/3762, T/3844, Pull T/3750 + circ. perform P.I.T. 13.5 PPG EMW, RIH Drill F/3844, T/4403 circ. , POH, P.U. Jars + RIH A.R.T.
10-27-96	RIH wash F/4372', T/4403', Drill F/4403' T/4660' work on brake, POH to shoe, Remove flooring over rotor motor and brake, remove air brake assembly and remove brake pads, install air brake replace flooring, RIH drill F/4660', T/4743' - swivel Pkg. leaking, POH to shoe, change out wash pipe and packing ,RIH.
10/28/96	Circ and wash F/4701', T/4743', drill F/4743' T/5367' Circ wipe hole F/5367' T/4717' Drill F/5367' T/5864', Circ. POH LD 12 JTS DP, Change bits, check tools, RIH to 3738', replace mud gauge on stand pipe, Fix air leak on high,clutch and adjust brakes. RIH w/bit #2 T/5822 .
10-29-96	Circ. and wash F/5882 T/5864' Drill F/5864' T/6270' circ., wipe hole F/6270' T/5620', Drill F/6270' T/6519', Circ and work mud pumps, drill F/6519' T/6598'.
10-30-96	Drill, F/6598 T/6613, Circ. Wipe hole F/6613' T/5869' circ and wash F/6571' T/6613' Drill F/6613' T/7000' circ , POH L.D. BHA, MU test plug + test assembly, P.T. BOPS A.R.T.

PLATFORM Gilda
Workover Report

Date	Description
	WELL # S89-
11/1/96	POOH, Ran platform express logs (AIT,DENS,NEURON,GR) MCFL/ML, F/6988, T/3750, RIH T/7000 , Circ., POOH Ld jars, R.U. to run 7" csg., MU F/shoe and run 7" csg. A.R.T.
11/3/96	CUT OFF 7" csg., RD BOP lift kit LD cut off, pull diverter and PU BOPS, Dress Csg. and install packoff, NU tbg. Spool, PT seal assembly to 3000 PSI, turn well over to production , lower BOPS and MU lower clamp on riser. Change out pipe rams. Install 3 1/2" RAMS in bottom and 2 7/8' rams in top. PT csg. to 2100 PSI F/30 min. (Cleaning MUD PIT's) MU test plug and 2 7/8" test string attempt to PT annular. No test on annular change out 4" valves on both stand pipes A.R.T.
11/4/96	Change out 4" stand pipe valve, C.O. rig floor D.P., SUBS and handling equip., clean mud pits. Install diverter and get measurements for 13 5/8 annular, remove diverter and clamp on 20 3/4 hydril annular continue to dump and clean mud pits, load workboat, hang 20 3/4 annular on trolly.
11/5/96	Clean mud tanks w/high pressure washer. MU test plug , remove top 3 1/2 RAMS, clean 4 1/2" + 5" RAM and put in dry storage, set test plug. Pump through all mud lines w/sea water, hydril service rep. checked wear on RAM cavities. .0050 wearover minimumtolerance on slides, install new VBR's 2 7/8" x 5" attempt to PT RAMS. Pump past RAMS, back out of test plug. Pull and L.D. test JTS> Remove all RAMS F/BOPS, N.D. double gate. Pull gate out of substructure N.D. mud cross and single gate. Pull mudcross, single gate and annular out of sub structure. Install cross over spool on riser for 13 5/8" x 3000 BOPS wrong HUB connection on cross over spool. Remove spool and sand from crew boat. Clean trip tank and offload work boat A.R.T.
11/6/96	2 1/2 tbg. and 3 1/2 tbg. BJ and Baker equipt., install new salt water line to mud pits and BJ unit, MU cross to single gate and MU spool to bottom gate. MU annular to double gate on the drill deck, PU single gate and Mud cross + MU choke and kill lines, offload XOspool (20 3/4 HUB x 13 5/8 flange) + MU to riser. NU BOP's A.R.T.
11/8/96	Fin picking up 2 7/8 6.50 N-80 8rd to 6773 (Tag CMT) total 215 JTS-LD Jts and POOH and stand back 71 Stds. MU 6 1/8 BIT and BHA and TIH with 3 1/2 9.3#/FT 501 Tbg. , then cont. in hole strapping and PU 3 1/2, tubing off rack - tag-up @ 6771, break out and LD DP subs F/Kelly and MU 3 1/2 tbg. SUB's to Kelly, drill CMT wiper plugs and F/C (6800') + 45' CMT below FC to 6845' tbg. meas. - pumped sweep after drlg., and circ. hole clean,RU test equip. clean VBR's and tested, 7" csg. to 2500 PSI 15 min. OK, RD test pump and POOH.

PLATFORM Gilda
Workover Report

Date	Description
	WELL # S89-
11/1/96	POOH, Ran platform express logs (AIT,DENS,NEURON,GR) MCFL/ML, F/6988, T/3750, RIH T/7000 , Circ., POOH Ld jars, R.U. to run 7" csg., MU F/shoe and run 7" csg. A.R.T.
11/3/96	CUT OFF 7" csg., RD BOP lift kit LD cut off, pull diverter and PU BOPS, Dress Csg. and install packoff, NU tbg. Spool, PT seal assembly to 3000 PSI, turn well over to production , lower BOPS and MU lower clamp on riser. Change out pipe rams. Install 3 1/2" RAMS in bottom and 2 7/8' rams in top. PT csg. to 2100 PSI F/30 min. (Cleaning MUD PIT's) MU test plug and 2 7/8" test string attempt to PT annular. No test on annular change out 4" valves on both stand pipes A.R.T.
11/4/96	Change out 4" stand pipe valve, C.O. rig floor D.P., SUBS and handling equip., clean mud pits. Install diverter and get measurements for 13 5/8 annular, remove diverter and clamp on 20 3/4 hydril annular continue to dump and clean mud pits, load workboat, hang 20 3/4 annular on trolly.
11/5/96	Clean mud tanks w/high pressure washer. MU test plug , remove top 3 1/2 RAMS, clean 4 1/2" + 5" RAM and put in dry storage, set test plug. Pump through all mud lines w/sea water, hydril service rep. checked wear on RAM cavities. .0050 wearover minimumtolerance on slides, install new VBR's 2 7/8" x 5" attempt to PT RAMS. Pump past RAMS, back out of test plug. Pull and L.D. test JTS> Remove all RAMS F/BOPS, N.D. double gate. Pull gate out of substructure N.D. mud cross and single gate. Pull mudcross, single gate and annular out of sub structure. Install cross over spool on riser for 13 5/8" x 3000 BOPS wrong HUB connection on cross over spool. Remove spool and sand from crew boat. Clean trip tank and offload work boat A.R.T.
11/6/96	2 1/2 tbg. and 3 1/2 tbg. BJ and Baker equipt., install new salt water line to mud pits and BJ unit, MU cross to single gate and MU spool to bottom gate. MU annular to double gate on the drill deck, PU single gate and Mud cross + MU choke and kill lines, offload XOspool (20 3/4 HUB x 13 5/8 flange) + MU to riser. NU BOP's A.R.T.
11/8/96	Fin picking up 2 7/8 6.50 N-80 8rd to 6773 (Tag CMT) total 215 JTS-LD Jts and POOH and stand back 71 Stds. MU 6 1/8 BIT and BHA and TIH with 3 1/2 9.3#/FT 501 Tbg. , then cont. in hole strapping and PU 3 1/2, tubing off rack - tag-up @ 6771, break out and LD DP subs F/Kelly and MU 3 1/2 tbg. SUB's to Kelly, drill CMT wiper plugs and F/C (6800') + 45' CMT below FC to 6845' tbg. meas. - pumped sweep after drlg., and circ. hole clean,RU test equip. clean VBR's and tested, 7" csg. to 2500 PSI 15 min. OK, RD test pump and POOH.

Barajas
NOV 27 1996

MINERALS MANAGEMENT SERVICE
APPLICATION FOR PERMIT TO D .L (APD)

Submit original plus three copies and one copy marked "Public Information" Releasable to public Name: LW Dated: 11-7-03

OMB No. 1010-0044
Expiration Date: August 31, 1996

1. ORIGINAL ✓ CORRECTION	2. API WELL NUMBER	3. WELL NUMBER	11. OPERATOR NAME AND ADDRESS (Submitting Office)
		S-60 (S-22RD)	COPY TO REGION UNION OIL COMPANY OF CALIFORNIA P.O. BOX 6176 VENTURA, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
SANTA CLARA	P-0216	00003

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Estimated)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
S03900E02192	P-0216	6B	48 61	6B

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Estimated)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NUMBER	16. OPD NUMBER
S03520E07816	P-0216	6B	48 61	6B

18. WATER DEPTH (Estimated)	19. ELEVATION AT KB (Estimated)	20. RIG NAME	21. RIG TYPE
205'	107'	UO 10	PS

22. TYPE OF WELL:	23. SPUD DATE (Proposed)	24. TOTAL DEPTH (Proposed)
EXPLORATORY ✓ DEVELOPMENT	3-15-94	MD 9078' TVD 5800'

25. ATTACHMENTS (Attach complete well prognosis and attachments required under 30 CFR 250.64(b) through (g) or 30 CFR 272(c) and (d), as appropriate)

SEE ATTACHED

ENTERED IN OCSIS
MAR 8
BY:

Entered for Monthly Report
MAR 8
143

RECEIVED
MAR - 3 1994
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
GREGORY B. SCHRAGE	(805) 650-4589
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
MICHAEL J. BUNYAK	DRILLING MANAGER/AGENT
30. AUTHORIZING SIGNATURE Michael J. Bunyak	31. DATE 3/1/94

THIS SPACE FOR MMS USE ONLY

APPROVED (With Attached Conditions X) BY [signature] TITLE District Supervisor

(Without Conditions ____)

DATE 3/8/94

API WELL NO. ASSIGNED TO THIS WELL 04311 20561-01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used in drilling operations. This information will be used by MMS District Supervisors to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 1/2 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0044), Washington, DC 20503.

FORM MMS-123 (August 1993) (Replaces Form MMS-331C which will not be used)

CONFIDENTIAL

Releasable to public
Name: RW Date: 10/31/13

CONDITION OF APPROVAL

The MMS is currently assessing the performance of blowout preventer (BOP) equipment used in the OCS. The MMS will gather BOP test data from drilling operations conducted during the next several months. The MMS will use this data to evaluate the current testing and maintenance requirements for BOP equipment.

The lessee/operator is directed to submit copies of BOP test data to MMS for each test. Test data includes BOP pressure test charts and BOP test reports. Problems or irregularities observed during BOP testing, and any actions taken to remedy such problems or irregularities, should be noted and included with the test data. Copies of all data must be legible.

Data from individual BOP tests should be held until after the completion of drilling activities. Within 30 days after completion of drilling activities, test data for the entire well should be sent to:

Minerals Management Service
Attention: District Supervisor
Camarillo District
770 Paseo Camarillo
Camarillo, California 93010

This data collection is authorized under 30 CFR 250.57(h)(4) and 250.66(c).

Releasable to public
Name: RLV Date: 10/31/13

CONDITIONS OF APPROVAL TO DRILL OCS WELL

Approval is further subject to the following specific conditions:

1. The date actual drilling is started shall be reported promptly to the District Supervisor.

2. A drilling progress report (two copies, no prescribed form) shall be submitted weekly showing the principal items of work done during the week, for development wells. Exploratory wells will be reported by phone daily. The first development well on a platform shall require a daily phone report.

3. Adequate blowout prevention equipment as outlined in Subpart D of the Code of Federal Regulations (CFR), Title 30 starting with paragraph CFR 250.56.

4. Any change in the approved program must receive prior approval from this office.

5. Any unusual occurrence such as pollution, serious injury to personnel, loss of equipment overboard, damage caused by drifting of drilling vessel off location, well blowout, major equipment failure, etc., should be reported immediately to the District Supervisor by telephone.

6. The District Supervisor shall be notified in advance in the event of production tests.

7. Two copies of all logs, including the mud log to date, shall be furnished to this office immediately after logging.

8. Before a completion program is commenced or the hole is abandoned, the District Supervisor shall be allowed sufficient time to examine well records and give separate approval for this portion of the drilling program.

9. The Notice of Intent to Abandon a well shall be submitted on Form MMS-332 as outlined in Subpart G of the CFR starting with Title 30, paragraph CFR 250.110 notwithstanding any verbal approval to abandon that may have been given by this office. A Subsequent Report, Form MMS-332, must be submitted no later than 30 days after completion of the approved work.

10. The pertinent and applicable reports required under 30 CFR 250.0 through 250.50 of the Consolidated Offshore Operating Rules for Oil and Gas Operations will be properly and timely submitted. Electric logs and other logging surveys, core description and conventional analysis, stratigraphic determination, formation tests, log and history (Form MMS 330) Well Completion Report, shall be submitted in <u>duplicate</u> to this office within 30 days after the completion, suspension or abandonment of the well.

(Conditions of Approval continued on back)

Releasable to public
Name: RW Date: 10/31/13

APPLICATION FOR PERMIT TO DRILL

CHECK LIST

OPERATOR UNOCAL
LEASE NO. P0216
WELL NO. S-60
COPIES RECEIVED 3 P.I. 1
ENGRG. REVIEW BY D. Rich
DATE COMPLETED 3/7/94
GEOLOGIC/GEOPHYSICAL REVIEW COMPLETED BY NA DATE
COPIES ON FILE WITH APD NA
LEASE INSTRUMENT CHECKED OK
DESIGNATION OF OPERATOR APPROVED OK
SPECIAL LEASE STIPULATIONS NOTED NONE

POE/POD APPROVED DATE ✓
SPECIAL CONDITIONS OF APPROVAL NONE

MOBIL DRILLING UNIT NA. TYPE
ABS & COASTGUARD DOCUMENTS ON FILE NA
FRONTIER AREA YES/NO
SEA FLOOR CONDITIONS EXAMINED, DOCUMENTED AND APPROVED

RIG DESCRIPTION AND SPECIFICATIONS ON FILE? yes
PLAT PROVIDED 2000 FEET/ONE INCH yes
SURFACE LOCATION CHECKED OK
SUBSURFACE LOCATION CHECKED OK
RKB TO WATER 167 WD 205 RKB TO ML 312
TVD 5800 MD 9078

WELL DESIGN CRITERIA: Redrill of S-22

	TAKEN FROM OFFSET WELL		CALCULATED	
CASING SIZE	9 5/8		7 5/8"	
CASING DEPTH	EXISTING		5800 TVD	
PORE PRESS.			11 #/gal	
FRAC. PRESS.			15 #/gal	
ANTICIPATED SURFACE PRESS.			2000	
MUD WEIGHT			10-11.5	

LOST CIRCULATION ZONES
SHALLOW HAZARDS FROM GEOLOGIC/GEOPHYSICAL REVIEW

BOPE EXISTING

	ANNULAR	PIPE RAMS	BLIND/SHEAR RAMS
NO. AND TYPE			

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Name: LW Date: 10/31/13

BOP TEST PRESSURES REQUIRED Field Rules

CASING SIZE		9 5/8			
RAM-TYPE & RELATED EQUIPMENT		250/2100	250/2100		
ANNULAR					

DIAGRAMS SUBMITTED Previously

BOP SCHEMATIC _____ DIVERTER SYSTEM _____ CHOKE MANIFOLD _____

CASING PROGRAM

CASING SIZE	9 5/8"	exisiting	C.D.	7 5/8" LINER	
TEST PRESSURE				2500	

SAFETY FACTORS (EACH STRING):

	9 5/8"				
TENSION	44		7 5/8	12.5	
COLLAPSE	1.41			1.44	
BURST	3.5			2.37	

GEOLOGIC FORMATIONS _____ CORING _____ LOGGING PROGRAM _____

CEMENTING PROGRAM

CASING SIZE:		7 5/8" Liner	Theoretical + 10% O.H.		
AMOUNT					
(% EXCESS)					

MUD REQUIREMENTS

ACTIVE VOLUME 300 RESERVE VOLUME 300

CASING SIZE/HOLE SIZE	VOLUME CHECKED:
9 5/8" X 10" OH	1014 Total system at TD

MINIMUM QUANTITIES OF MUD MATERIALS AT SITE

BARITE ADDRESSED Previously
GEL _____
ADDITIVES (MAJOR) _____
MUD TRANSPORT. FROM SHORE ADDRESSED: YES _____ NO X
DIRECTIONAL PROGRAM PROVIDED: YES _____ NO _____ CHECKED _____
PLOT OF PORE PRESS., FRAC. GRADS, & MUD WEIGHT: YES X NO _____
H_2S PLAN APPROVED PREVIOUSLY yes
H_2S PLAN INCLUDED FOR APPROVAL NA
WELDING & BURNING PLAN APPROVED? yes

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PROCEDURE:

1. MIRU slickline. Pull plug from "X" nipple at 8511'. Circulate well clean with injection water taking returns to production.

   NOTE: Open "XA" sleeve at 8443' instead of pulling plug at 8511' if fill is encountered above plug.

2. Skid rig over slot #70, well S-22.

3. Install BPV. Nipple down tree. Nipple up 13-5/8", Class IV, 3M BOPE. Test BOPE at 250/2100 psi in accordance with Field Rules and MMS regulations. Pull BPV.

4. Pull Otis "RTH" packer at 514'. Pull out of hole with production equipment.

   NOTE: Packer is designed to release with 40,000# overpull. Packer is single slip design that allowed the release mandrel to be sheared in two if the control line was overpressured. This would make the packer irretrievable by pulling as the slips could not release. This particular packer may have an overpressure valve built in which would have prevented the mandrel from being sheared in two and allow a straight overpull release. If the packer does not release:

   a) Chemical cut the tubing at ±510' (±1' below the collar on the 4' tubing pup on top of the vent valve).
   b) Jet cut the electric cable.
   c) POOH with the production equipment from the cut up.
   d) Mill over the "RTH" packer through the slips using an 8-1/2" mill shoe and 8-1/8" washpipe.
   e) Overshot the 2-7/8" tubing and POOH with all production equipment.

5. Set test plug. Test blind rams at 250/2500 psi. Pull test plug.

6. Make up and RIH with 7-5/8", 33.5# scraper to ±9352'.

7. RIH and set retainer at 9325'. Pressure test casing to 2500 psi. Establish breakdown. Abandon existing production interval by squeeze cementing 100 cu. ft. through retainer and dumping 20 cu. ft. on top. Change hole over to 11 ppg gel abandonment mud up to 7000'.

   NOTE: See attached cementing program for slurry specifications.

8. RIH with 9-5/8", 47# scraper to 7100'.

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9. RIH and set drillable bridge plug at 7000'. Tag bridge plug with 20,000# to verify whipstock can be set and tripped on it. Change well over to 10 ppg gel milling mud.

10. RIH with a bottomtrip whipstock on starting mill, bit sub, 1 jt DP, X-O sub, MWD, X-O sub, 1 jt DP, 3 drill collars, and HWDP. Orient whipstock 80° to the left of highside. Set 10,000# on whipstock. Pick up 1' and set back down to verify that whipstock is set. Set down 20,000# and shear starting mill. Mill ±2'. POOH.

11. RIH with window mill, watermelon mill, bit sub, 1 jt drillpipe, and HWDP. Mill window and make ±10' of new hole.

12. RIH with window mill, 2 string mills, watermelon mill, bit sub, 1 jt DP, and HWDP. Dress window.

13. Perform formation LOT.

    NOTES:
    1) Circulate and condition mud until properties are consistent.
    2) Use cement unit for leak off test. Pump at 1/4 BPM and plot pressure vs mud volume pumped. Pump until pressure no longer increases. After leak off is reached, shut off pump and record pressure vs time until the pressure stabilizes.

14. RIH with a steerable assembly and directionally drill 8-1/2" hole to 5800' TVD, ±9078' MD.

    NOTES:
    1) BHA to consist of; 8-1/2" bit, 6-3/4" Mach 1 AKO motor, Nortrak stabilizer, nonmag lead collar, directional MWD, 1 jt of 5" nonmag compressive service drillpipe, 2 jts HWDP, down jar, 1 jt HWDP, up jar, 18 jts HWDP
    2) Casing point has rathole to allow LP-B1 to be completed without drilling out float equipment (base of LP-B1 estimated at 5696' TVD with planned directional). Geologist to call TD.
    3) Mud loggers to start upon drill out from window.
    4) High side MWD for kickoff.
    5) Kickoff is in Pico. **BE AWARE OF POTENTIAL DIFFERENTIAL STICKING AND GAS KICKS, ESPECIALLY FROM LP-4.**

15. RIH with a bullnosed underreamer and underream the 8-1/2" hole to 10".

16. RIH with 7-5/8", 29.7#, N-80, Hydril Supreme LX liner from 9078' - 6500' as follows:

    a) Float shoe
    b) 1 joint of casing
    c) Float collar
    d) 1 joint of casing
    e) Landing collar

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f) ±2500' of casing
g) Hydraulic setting liner hanger and tieback extension
h) Centralizers are to be placed 10' and 30' above the shoe and one on every joint thereafter including in the lap.

NOTE: Bakerlok the first four collars. Apply dope to pin ends.

17. Circulate clean and cement according to the attached cementing program. Reciprocate casing while mixing and displacing cement. After releasing from hanger, do not circulate at liner top.

NOTE: Volume of cement to be pumped is theoretical plus 30% excess on the open hole and theoretical on the cased hole (665 cu. ft., 578 sx). Precede slurry with 40 bbls of weighted Turbosweep.

18. Clean out to top of liner with an 8-1/2" bit. Pressure test casing and lap to 3000 psi

NOTE: Wait a minimum of 12 hours after CIP before testing.

19. Perform WSO test on lap with a packer set in the 9-5/8" casing 30-60' above the lap.

NOTE: Drillpipe should be empty from packer to surface. If lap is squeezed, rerun pressure test and WSO.

20. Clean out liner to float equipment with a 6-3/4" bit and a slick assembly. Pressure test casing to 2500 psi. Change well over to filtered injection water.

21. RIH with 7-5/8" scraper and a 9-5/8" scraper spaced out to scrape to TD and the top of the liner. Work scrapers to ensure casing is clean and change hole over to filtered injection water.

NOTE: 1) Stop all injection water chemicals except scale inhibitor, biocide and corrosion inhibitor for fluid left in well at the end of the changeover.

2) Any seawater left in the well is to be filtered using drill deck filters. Any filtered seawater used is to be treated with 250 ppm RP 2336, 60 ppm Nalco 953, and 250 ppm XC102.

22. Rig up wireline. With 1000 psi casing pressure, run CBL/VDL/GR/CCL from TD to 7000'. Perforate the middle 5' of LP-B1 (estimated at 5652' TVD, 8894' MD: verify with GR from CBL) with 3-1/8", 13.5 gram, 4spf guns. Perforate twice to get 8 spf over interval.

NOTE: If CBL show inadequate bonding, squeezes will be performed. Reservoir Engineer will determine exact perforation interval after CBL.

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23. RIH with 4-1/2", 12.75#, N-80, PH6 tubing with sawtooth collar to ±8700' (±200' above LP-B1 perfs). Hydrotest tubing to 5000 psi as RIH.

24. Rig up surface lines and pressure test to 5000 psi. Conduct a step rate test with treated seawater (or injection water) at 2, 4, 6, 8, 10, BPM for 4 minutes per rate.

25. Perform a minifrac with 5000 gallons of gelled HEC frac fluid. Displace frac fluid with treated seawater and monitor pressure decline for closure to determine fluid efficiency.

    NOTE: The anticipated rate and pressure is 15 BPM and 3000 psi.

26. Assuming a fluid efficiency of 20-30%, fracpac with 8000 gallons of frac fluid carrying 50,000 pounds of 16/30 Acfrac CR 5000 proppant as follows:

    a) 3000 gal Pad
    b) 500 gal with 1.0 lb/gal of proppant
    c) 500 gal with 3.0 lb/gal of proppant
    d) 500 gal with 6.0 lb/gal of proppant
    e) 500 gal with 9.0 lb/gal of proppant
    f) 500 gal with 12.0 lb/gal of proppant
    g) 2500 gal with 14.0 lb/gal of proppant
    h) Displace with treated seawater to end of tubing

    NOTE: The anticipated rate and pressure is 15 BPM at 3000 psi.

27. Monitor pressure decline to static pressure.

28. Clean out excess proppant to 8800'. Pull up to ±8550' (±200' above mid LP-B).

29. Rig up wireline. Perforate the middle 5' of LP-B (estimated at 5545' TVD, 8760' MD: verify with GR from CBL) with 3-1/8", 13.5 gram, 4spf guns. Perforate twice to get 8 spf over the interval.

30. Rig up surface lines and pressure test to 5000 psi. Conduct a step rate test with treated seawater (or injection water) at 2, 4, 6, 8, 10, BPM for 4 minutes per rate.

31. Perform a minifrac with 5000 gallons of gelled HEC frac fluid. Displace frac fluid with treated seawater and monitor pressure decline for closure to determine fluid efficiency.

    NOTE: The anticipated rate and pressure is 15 BPM and 3000 psi.

32. Assuming a fluid efficiency of 20-30%, fracpac with 8000 gallons of frac fluid carrying 50,000 pounds of 16/30 Acfrac CR 5000 proppant as follows:

    a) 3000 gal Pad

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b) 500 gal with 1.0 lb/gal of proppant
c) 500 gal with 3.0 lb/gal of proppant
d) 500 gal with 6.0 lb/gal of proppant
e) 500 gal with 9.0 lb/gal of proppant
f) 500 gal with 12.0 lb/gal of proppant
g) 2500 gal with 14.0 lb/gal of proppant
h) Displace with treated seawater to end of tubing

NOTE: The anticipated rate and pressure is 15 BPM at 3000 psi.

33. Monitor pressure decline to static pressure. Clean out to within 5' of top of perforations. Wait for resin coated gravel to cure.

34. Clean out fill to TD. Circulate and POOH laying down.

35. Run production equipment. Land tubing with back pressure valve in place.

36. Nipple down BOPE. Nipple up and test tree to 3000 psi.

37. Place well on production.

38. Release rig.

WRITTEN BY:_____ APPROVED BY:_____
DATE: _____ DATE: _____

GBS:gbs
s60s22rd

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Name: RW Date: 10/31/13

CUSTOMER: UNOCAL PLATFORM: GILDA

Well Name: PL14S22M Computation Method: 1 (Minimum Curvature)
Plane Of Vert Section 0.00 Height Of TVD Origin Above Field Datum 0.00
Distance Units used ft Dogleg Base Length Used 100
Grid Convergence 0.000 Magnetic Declination 14.500

Target 1 has TVD: 5497.00 LAT: 156.00 DEP: 5624.00
Target 2 has TVD: 5660.00 LAT: 156.00 DEP: 5624.00

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Build	Turn	Dleg	Tool
0.0	0.00	40.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
100.0	0.12	40.93	100.0	0.1	0.1	0.1	0.1	0.0	0.1	
150.0	0.25	45.23	150.0	0.2	0.2	0.2	0.3	8.6	0.3	
200.0	0.30	57.52	200.0	0.3	0.3	0.4	0.1	24.6	0.2	
250.0	0.30	40.82	250.0	0.5	0.5	0.6	0.0	-33.4	0.2	
300.0	0.30	43.57	300.0	0.7	0.7	0.7	0.0	5.5	0.0	
350.0	0.25	65.35	350.0	0.8	0.8	0.9	-0.1	43.6	0.2	
400.0	0.30	68.50	400.0	0.9	0.9	1.2	0.1	6.3	0.1	
450.0	0.42	72.43	450.0	1.0	1.0	1.4	0.2	7.9	0.2	
500.0	0.35	38.85	500.0	1.2	1.2	1.7	-0.1	-67.2	0.5	
550.0	0.18	4.75	550.0	1.4	1.4	1.8	-0.3	-68.2	0.4	
600.0	0.30	10.67	600.0	1.6	1.6	1.9	0.2	11.8	0.2	
650.0	0.42	12.57	650.0	1.9	1.9	1.9	0.2	3.8	0.2	
700.0	0.50	6.94	700.0	2.3	2.3	2.0	0.2	-11.3	0.2	
755.0	2.00	111.75	755.0	2.2	2.2	2.9	2.7	99.0	4.0	
817.0	4.17	111.00	816.9	1.0	1.0	6.0	3.5	-1.2	3.5	
910.0	7.00	105.00	909.4	-1.7	-1.7	14.6	3.0	-6.5	3.1	
1008.0	11.25	105.00	1006.2	-5.7	-5.7	29.7	4.3	0.0	4.3	
1100.0	15.00	98.00	1095.8	-9.7	-9.7	50.1	4.1	-7.6	4.4	
1192.0	19.25	96.00	1183.7	-12.9	-12.9	77.0	4.6	-2.2	4.7	
1285.0	23.75	96.00	1270.2	-16.5	-16.5	110.9	4.8	0.0	4.8	
1364.0	27.50	99.90	1341.4	-21.3	-21.3	144.7	4.7	4.9	5.2	
1426.0	30.10	97.50	1395.7	-25.8	-25.8	174.2	4.2	-3.9	4.6	
1488.0	32.60	94.70	1448.7	-29.2	-29.2	206.3	4.0	-4.5	4.7	
1581.0	37.40	95.00	1524.8	-33.7	-33.7	259.4	5.2	0.3	5.2	
1672.0	41.30	93.30	1595.2	-37.8	-37.8	317.0	4.3	-1.9	4.4	
1769.0	43.10	91.80	1667.0	-40.7	-40.7	382.0	1.9	-1.5	2.1	
1831.0	45.90	92.50	1711.3	-42.4	-42.4	425.5	4.5	1.1	4.6	
1924.0	47.90	90.80	1774.8	-44.3	-44.3	493.3	2.2	-1.8	2.5	
2017.0	50.80	95.00	1835.4	-47.9	-47.9	563.8	3.1	4.5	4.6	
2079.0	52.60	96.80	1873.8	-52.9	-52.9	612.2	2.9	2.9	3.7	
2172.0	55.20	96.40	1928.6	-61.6	-61.6	686.8	2.8	-0.4	2.8	
2237.0	57.70	97.10	1964.5	-67.9	-67.9	740.6	3.8	1.1	3.9	
2308.0	60.60	95.70	2000.9	-74.7	-74.7	801.1	4.1	-2.0	4.4	
2514.0	60.30	93.30	2102.5	-88.8	-88.8	979.8	-0.1	-1.2	1.0	
2761.0	60.00	93.30	2225.5	-101.1	-101.1	1193.7	-0.1	0.0	0.1	
2823.0	61.80	93.30	2255.6	-104.2	-104.2	1247.7	2.9	0.0	2.9	
2946.0	63.60	92.50	2312.0	-109.8	-109.8	1356.9	1.5	-0.7	1.6	
3100.0	63.50	92.50	2380.6	-115.8	-115.8	1494.6	-0.1	0.0	0.1	

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Name: RW Date: 10/31/13

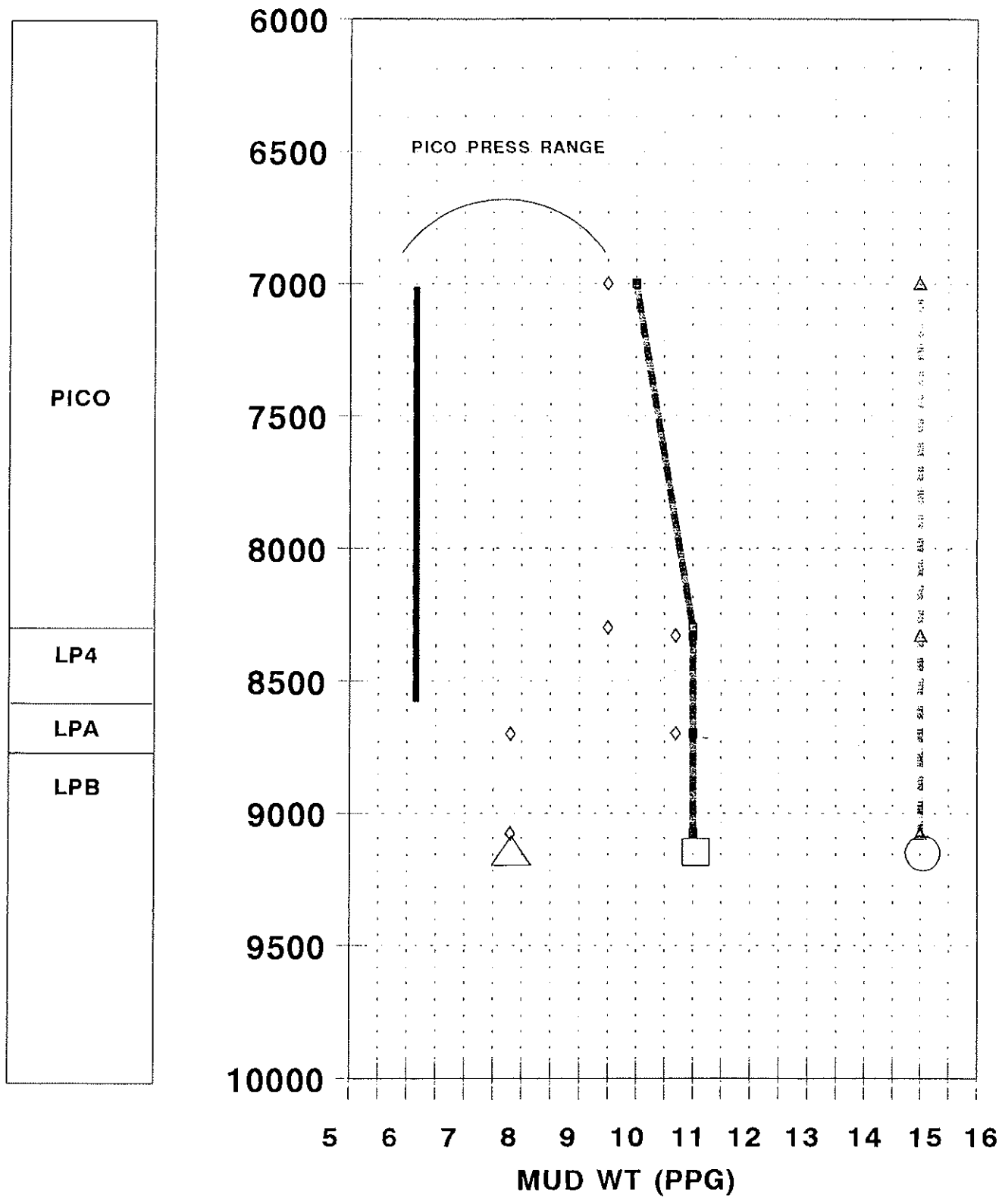
3353.0	63.30	92.90	249[illegible].9	-126.4	-126.4	1720.[illegible]	-0.1	0.2	0.2
3635.0	63.10	92.50	2621.1	-138.3	-138.3	1972.0	-0.1	-0.1	0.1
3884.0	62.90	92.50	2734.1	-148.0	-148.0	2193.7	-0.1	0.0	0.1
4069.0	62.80	92.20	2818.5	-154.7	-154.7	2358.2	-0.1	-0.2	0.2
4316.0	62.80	92.20	2931.4	-163.1	-163.1	2577.7	0.0	0.0	0.0
4546.0	62.80	92.20	3036.6	-171.0	-171.0	2782.1	0.0	0.0	0.0
4785.0	64.60	92.50	3142.5	-179.8	-179.8	2996.2	0.8	0.1	0.8
4940.0	64.50	92.20	3209.1	-185.5	-185.5	3136.0	-0.1	-0.2	0.2
5100.0	64.70	92.20	3277.7	-191.1	-191.1	3280.4	0.1	0.0	0.1
5251.0	60.30	98.50	3347.5	-203.4	-203.4	3413.7	-2.9	4.2	4.7
5407.0	60.40	98.90	3424.6	-223.9	-223.9	3547.7	0.1	0.3	0.2
5659.0	59.30	98.50	3551.2	-256.9	-256.9	3763.1	-0.4	-0.2	0.5
5907.0	59.00	98.20	3678.4	-287.8	-287.8	3973.7	-0.1	-0.1	0.2
6157.0	58.90	98.20	3807.3	-318.3	-318.3	4185.7	-0.0	0.0	0.0
6405.0	58.00	97.50	3937.1	-347.2	-347.2	4395.1	-0.4	-0.3	0.4
6684.0	60.40	96.80	4079.9	-377.0	-377.0	4632.9	0.9	-0.3	0.9
6903.0	62.70	97.50	4184.3	-401.0	-401.0	4823.9	1.1	0.3	1.1
7000.0	62.51	97.35	4228.9	-412.1	-412.1	4909.3	-0.2	-0.2	0.2
7100.0	58.51	93.61	4278.1	-420.5	-420.5	4995.9	-4.0	-3.7	5.1
7200.0	54.63	89.55	4333.2	-422.8	-422.8	5079.3	-3.9	-4.1	5.2
7300.0	50.90	85.08	4393.7	-419.2	-419.2	5158.8	-3.7	-4.5	5.2
7400.0	47.36	80.13	4459.2	-409.6	-409.6	5233.7	-3.5	-4.9	5.2
7500.0	44.06	74.61	4529.0	-394.0	-394.0	5303.5	-3.3	-5.5	5.2
7600.0	41.06	68.42	4602.7	-372.7	-372.7	5367.6	-3.0	-6.2	5.2
7700.0	38.43	61.49	4679.6	-345.8	-345.8	5425.5	-2.6	-6.9	5.2
7800.0	36.25	53.78	4759.2	-313.4	-313.4	5476.7	-2.2	-7.7	5.2
7900.0	34.62	45.35	4840.7	-276.0	-276.0	5520.8	-1.6	-8.4	5.2
8000.0	33.61	36.34	4923.5	-233.7	-233.7	5557.5	-1.0	-9.0	5.2
8100.0	33.29	27.01	5007.0	-186.9	-186.9	5586.3	-0.3	-9.3	5.2
8200.0	33.66	17.69	5090.5	-136.0	-136.0	5607.2	0.4	-9.3	5.2
8300.0	34.71	8.71	5173.3	-81.4	-81.4	5620.0	1.1	-9.0	5.2
8400.0	36.38	0.33	5254.7	-23.6	-23.6	5624.5	1.7	-8.4	5.2
8405.5	36.49	359.88	5259.1	-20.3	-20.3	5624.5	2.0	-8.0	5.1
8500.0	36.49	359.88	5335.1	35.9	35.9	5624.4	0.0	0.0	0.0
8600.0	36.49	359.88	5415.5	95.3	95.3	5624.2	0.0	0.0	0.0
8700.0	36.49	359.88	5495.8	154.8	154.8	5624.1	0.0	0.0	0.0
8701.3	36.49	359.88	5496.9	155.6	155.6	5624.1	0.0	0.0	0.0
8800.0	36.49	359.88	5576.2	214.3	214.3	5624.0	0.0	0.0	0.0
8900.0	36.49	359.88	5656.6	273.8	273.8	5623.9	0.0	0.0	0.0
8904.1	36.49	359.88	5659.9	276.2	276.2	5623.9	0.0	0.0	0.0
9000.0	36.49	359.88	5737.0	333.2	333.2	5623.8	0.0	0.0	0.0
9028.4	36.49	359.88	5759.9	350.2	350.2	5623.7	0.0	0.0	0.0
9078.2	36.49	359.88	5799.9	379.7	379.7	5623.7	0.0	0.0	0.0

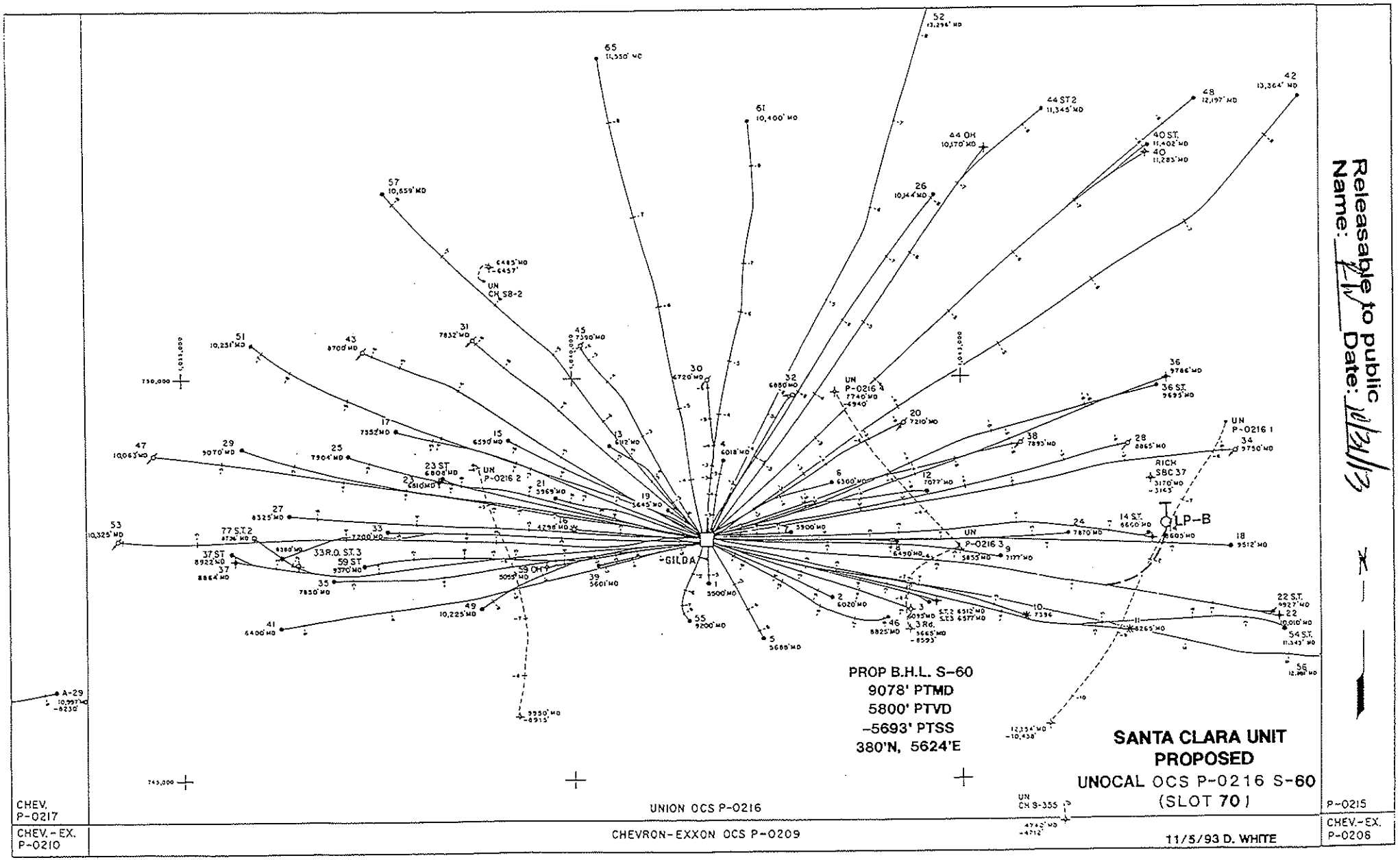
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S-60
SANTA CLARA FIELD

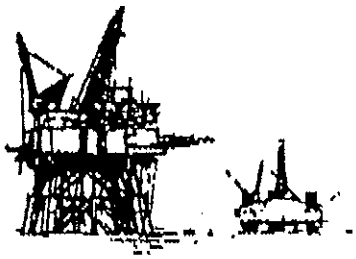
□ MUD WT
△ PORE PRESS
○ EST FRAC

MUD WT & PORE PRESSURE





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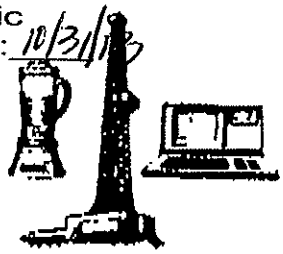
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Name: KW Date: 10/3/13

BJ SERVICES

LABORATORY REPORT

WEST COAST / ALASKA REGION

Feb 2, 1994
Report No.: CNT2094
Type Job: LINER



QC NUMBER:

Company : UNOCAL
Well : PLATFORM GILDA S-#60
District: VENTURA

Prepared For: GREG SCHRAGE
Submitted By: NABIL SHAARI
Prepared By: RUBEN FELIX

WELL DATA

Depth M.D.: 9078 Ft. TVD: 5800 Ft. Top of Cement: Ft.

Casing Size: 7 5/8 In. Hole Size: In. Mud Wt.: PPG

Temp. Grad.: °F/100 Ft BHST: 145 °F BHCT: 114 °F BHEqT: °F

Type Cement: SWP G 2301-231 Water Source: FRESH

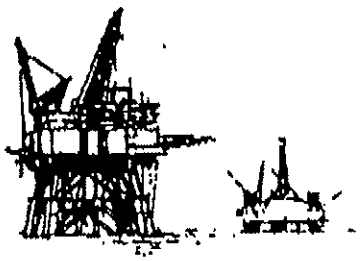
TEST SLURRIES

Slurry 1: CLASS G + 1.2% FL-62* + 0.2% CD-32* + 0.2% R-3* (*Prehydrated)

SLURRY PROPERTIES	Slurry 1
Slurry Density (lbs. / Gal.)	15.8
Slurry Yield (Cu.Ft. / Sack)	1.148
Mix Water (Gals. / Sack)	4.99
Time to 70 B_C (Hours:Minutes)	2:48
Time to 100 B_C (Hours:Minutes)	3:03
Fluid Loss (mL) @ 114 °F	80
Free Water (%) @ 80 °F	0
Rheologies (600 RPM / 300 RPM)	157/89
(200 RPM / 100 RPM)	64/38
(6 RPM / 3 RPM)	11/8
Plastic Viscosity / Yield Point	68/21
Strengths (psi) @ 8 Hrs @ 145 °F	
(psi) @ 12 Hrs @ 145 °F	
(psi) @ 24 Hrs @ 145 °F	4500

REMARKS: Compressive strengths estimated from previous tests. No results for 72 hour tests.

NOTICE: This report is prepared in good faith based upon present day technology and information provided; but because of variable well conditions and other information which must be relied upon, BJ Services makes no warranty, express or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that BJ Services shall not be liable for any loss or damage, whether due to negligence or otherwise, arising out of or in connection with such data, calculations, or opinions.



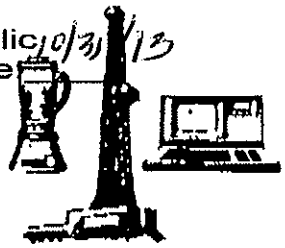
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Name: RW Date

BJ SERVICES

LABORATORY REPORT

WEST COAST / ALASKA REGION

Feb 28, 1994
Report No.: CMT2194
Type Job: ABANDONMENT



QC NUMBER:

Company : UNOCAL
Well : PLATFORM GILDA #S-60
District: VENTURA

Prepared For: GREG SCHRADE
Submitted By: NABIL SHAARI
Prepared By: RUBEN FELIX

MELL DATA

Depth M.D.: 9035 Ft. TVD: 5400 Ft. Top of Cement: Ft.

Casing Size: 9 5/8 In. Hole Size: In. Mud Wt.: PPG

Temp. Grad.: °F/100 Ft BHST: 170 °F BHCT: 135 °F BHSqT: °F

Type Cement: SWP G #230/231 Water Source: SEAWATER

TEST SLURRIES

Slurry 1: CLASS G + 0.5% R-3* (*Prehydrated)

SLURRY PROPERTIES	Slurry 1
Slurry Density (Lbs. / Gal.)	15.8
Slurry Yield (Cu.Ft. / Sack)	1.148
Mix Water (Gals. / Sack)	4.99
Time to 70 B_C (Hours:Minutes)	2:48
Time to 100 B_C (Hours:Minutes)	2:57
Fluid Loss (mL) @ 135 °F	642
Free Water (%) @ 80 °F	0
Rheologies (600 RPM / 300 RPM)	258/235
(200 RPM / 100 RPM)	214/201
(6 RPM / 3 RPM)	28/21
Plastic Viscosity / Yield Point	23/212
Strengths (psi) @ 8 Hrs @ °F	
(psi) @ 12 Hrs @ °F	
(psi) @ 24 Hrs @ °F	

REMARKS:

NOTICE: This report is presented in good faith based upon present day technology and information provided; but because of variable well conditions and other information which must be relied upon, BJ Services makes no warranty, express or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that BJ Services shall not be liable for any loss or damage, whether due to negligence or otherwise, arising out of or in connection with such data, calculations or opinions.

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Name: RW Date: 10/3/13

UNOCAL OIL & GAS DIVISION
Platform Gilda
Santa Clara Field
#S-60 (22 Re-Drill)
OCS - P - 0216

Prepared By:

Raymond Ravitz
District Project Manager
West Coast Division

March 1994

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Name: RW Date: 10/31/13

M-I Drilling Fluids Co.
Magcobar/IMCO A Dresser/Halliburton Company

6301 SEVEN SEAS AVE. BAKERSFIELD, CALIFORNIA 93308 805 589-6370
2772 JOHNSON DRIVE SUITE 200, VENTURA, CA 93003 (805) 644-8445

March 1, 1994

Mr. Greg Schrage
Unocal Oil & Gas Division
2323 Knoll Drive
Ventura, Ca. 93003

Dear Mr. Schrage:

Attached is a drilling fluid program for your upcoming S-60 well on Platform Gilda in the Santa Clara Field.

If you have any further comments or questions, please do not hesitate to call us in Bakersfield or Ventura.

Sincerely:

Raymond Ravitz

Raymond Ravitz
District Project Manager

RR:meb

attach.

ENVIRONMENTALLY INVOLVED

Releasable to public
Name: RW Date: 10/31/13

M-I Drilling Fluids
2772 Johnson Dr. #200
Ventura, Ca 93003

Unocal Oil & Gas
Santa Clara Field
California

Platform Gilda
S-60 (22 re-drill)
OCS-P-0216

PRELIMINARY INFORMATION

Casing Program:

Surface:	0-7000'	Casing: 9-5/8" existing (Set whipstock, Mill window)
Main Hole:	7000-9078'	8-1/2" open to 10"

Mud Volume - Hole

9-5/8" 47# casing	512+/- bbls
8-1/2 x 10" open hole	202+/- bbls
Total Hole Volume	714 bbls
Surface Volume	300 bbls
Total Volume	1014 bbls

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Name: KV Date: 10/31/13

M-I Drilling Fluids	Unocal Oil & Gas	Platform Gilda
2772 Johnson Dr. #200	Santa Clara Field	S-60 (22 re-drill)
Ventura, Ca 93003	California	OCS-P-0216

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

Interval (feet)	Mud Weight (ppg)	Viscosity (sec/qt)	Fluid Loss (cc/30mins)	Mud Tupe components
7000'	10.0	100+	NC	Durogel Soda Ash Sawdust Barite
7000-9078'	11.0-11.5	40-45	6-8cc	Gelite SP-101 Soda Ash Barite

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M-I Drilling Fluids
2772 Johnson Dr. #200
Ventura, Ca 93003

Unocal Oil & Gas
Santa Clara Field
California

Platform Gilda
S-60 (22 re-drill)
OCS-P-0216

DISCUSSION BY INTERVAL

Interval: Milling 9-5/8" casing 7000'

Fluid Type: Milling Fluid

Components with Typical Usage Levels:

Durogel	25 ppb
Soda Ash	.25 ppb
Sawdust	as needed
Barite	as needed

Recommended Mud Specifications:

Density	10.0
Viscosity	100+/- sec/qt
PV:YP ratio	1:4 - 1:5
Fluid loss	no control
3 rpm reading	20+
Gels	22/31

Possible Problems/Solutions:

1. Hole Cleaning

   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

Discussion:

If there is any clay base mud left from the S-83 well (in the 10.0 ppg range), then add enough Durogel to convert it into a milling fluid.

Set the whipstock and initiate milling. Thin back the milling fluid with Desco/Tannathin before running a leak test on the window.

If there isn't any clay base fluid available from S-83, then build a new fluid with Durogel/Gelite. The system could be converted into a drilling fluid for the next section of hole.

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M-I Drilling Fluids	Unocal Oil & Gas	Platform Gilda
2772 Johnson Dr. #200	Santa Clara Field	S-60 (22 re-drill)
Ventura, Ca 93003	California	OCS-P-0216

DISCUSSION BY INTERVAL

Interval: Drill 8-1/2" Hole (7000' - 9078' MD 5800 TVD) for 7-5/8 casing

Fluid Type: Seawater / Gelite-SP-101

Components with Typical Usage Levels:

M-I Bar	as needed
Gelite	15-17.5 ppb
SP-101	1-1/2-2 ppb
Soda Ash	2-4 ppb
Soltex	3-5 ppb
Tackle	as needed

Recommended Mud Specifications:

Density	11.0-11.5
Viscosity	38-45 sec/qt
PV:YP ratio	1:+/-1
Fluid loss	6-8 cc
pH	7.5-8.0
MBT	17.5+
Low Gravity Solids	< 6%

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Name: RW Date: 10/31/13

M-I Drilling Fluids
2772 Johnson Dr. #200
Ventura, Ca 93003

Unocal Oil & Gas
Santa Clara Field
California

Platform Gilda
S-60 (22 re-drill)
OCS-P-0216

Possible Problems:

1. Gas

   a) Circulate gas cut mud out (small intrusion).
   b) Raise mud weight if necessary.

2. Kick

   a) Prevention. Maintain good drilling practices. Keep the hold full-don't swab on trips. Monitor mud weight.
   b) Shut-in well - raise mud weight.

3. Differential Sticking

   a) Maintain a low fluid loss.
   b) Maintain 3+ ppb of Soltex in the system.

4. Tight Hole

   a) Wipe the hole.
   b) Reduce the fluid loss if necessary.

5. Solids Build-up

   a) Run all applicable solids control equipment.
   b) Dilute.

6. Foaming

   a) Use Defoam X.
   b) Add fresh Gelite.

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M-I Drilling Fluids	Unocal Oil & Gas	Platform Gilda
2772 Johnson Dr. #200	Santa Clara Field	S-60 (22 re-drill)
Ventura, Ca 93003	California	OCS-P-0216

Discussion:

Changeover to a pre-mixed 10.0 Seawater/Gelite-SP-101 System treated with 3 lbs. per barrel of Soltex.

Gradually increase the mud weight while drilling ahead. Have the entire system weighted up to 11.0 ppg+ by 8200'. (Top of the LPA is projected to be around 8600')

Closely monitor the well for gas while drilling ahead - a higher mud weight might be required sooner.

Differential sticking is a potential problem in this interval, especially in the Pico sands. A concentration of 3 lbs. per barrel of Soltex should be maintained in the system at all times. A new treatment of Soltex should be added before opening up the 8-1/2 inch hole to 10 inches.

Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. SP-101 should be added to control the API fluid loss in the 6 to 8 cc range.

Keep 80 to 100 barrels of spotting fluid on the platform for differential stuck pipe.

Soda Ash should be added to keep the calcium level below 200 Mg/L. This will help the effectiveness of the SP-101 and other chemicals.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 200 mesh screen on the mud cleaner.

Barite should be used to maintain the proper mud density.

Note* If a new fluid is used for milling , convert the system to SP-101 before drilling ahead (optional).

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Name: RW Date: 10/31/13

S-60 CASING DESIGN

9-5/8":

Effective Setting Depth 7000'MD 4229'TVD

Existing 9-5/8":

0' - 2093'	9-5/8", 47#, N-80, BUTT
2093' - 7000'	9-5/8", 43.5#, N-80, LT&C/BUTT

COLLAPSE:

Original Drill Mud Weight For 9-5/8" Casing Interval = 12.3 PPG Max.
Use Maximum Mud Weight With Evacuated Casing

PC = (4229') (12.3) (0.052) = 2705 PSI

$$SF = \frac{3810\ PSI}{2705\ PSI} = 1.41$$

TENSILE:

N/A (Already Set & Cemented)

BURST:

Burst With Gas To Surface For BHP Of 2000 PSI

WHP = 1800 PSI

47# $$SF = \frac{6870\ PSI}{1800\ PSI} = 3.8$$

43# (Assume Inside & Outside Fluids = Gradient)

$$SF = \frac{6330\ PSI}{1800\ PSI} = 3.5$$

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Name: RW Date: 10/31/13

S-60 CASING DESIGN
Page 2

7-5/8":

7-5/8", 29.7#, N-80, Hydril SLX @ 6500' - 9078'MD
3986' - 5800'TVD

COLLAPSE:

Base On Maximum MW of 11.5 PPG and Evacuated Pipe

$$PC = (11.5)\ (0.052)\ (5600') = 3318\ PSI$$

$$SF = \frac{4290\ PSI}{3318\ PSI} = 1.44$$

TENSILE:

1814' Vertical Length, 8.5 PPG Buoyancy

$$SF_{TEN} = \frac{587{,}000'}{(1814')(29.7)(0.87)} = 12.5$$

BURST:

2000 PSI BHP & Gas To Liner Top With 8.5 PPG Backup

$$SF_B = \frac{6300\ PSI}{2000 - (3986)(8.5)(0.052)} = 26$$

Frac Down Tubing
Fracture BHP Using 0.9 PSI/FT Gradient (Conservative)

$$\text{Net BHP} = (5800')\left[(0.9\ PSI/FT) - (8.5)(0.052)\right] = 2656\ PSI$$

$$SF_B = \frac{6300\ PSI}{2656\ PSI} = 2.37$$

GBS:sp
s60csg

Chevron

March 19, 1997

Chevron U.S.A. Production Company
646 County Square Drive
Ventura, California 93003

V. Sankur
Pt. Arguello Asset Team Leader
Ventura Profit Center
Production Department

Minerals Management Service
222 Carmen Lane, Suite #201
Santa Maria, California 93454-7731

Attention: Mr. Phil Schroeder

Gentlemen:

Attached please find our proposed frac head arrangement for your review. The frac head has been segmented and labeled for your reference. Segment descriptions with respect to sour service and NACE certification are summarized below. Our frac fluid pumping/flowback plan and flowback volume limitations are also included. We have discussed this plan with Mr. Mike Mitchell of your staff on March 18 and are proceeding with these plans. If you have any questions, concerns, or objections to this plan, please call Mr. R.M. Quilter at (805) 658-4400.

FRAC HEAD ARRANGEMENTS SEGMENTS

SEGMENT A. Lowest-most 4-1/16" 10000 psi valve
- 4-1/16" valve body and bonnet are manufactured in accordance with NACE
- Will have NACE gates, segments, seats, and stems
- The lowest-most 4-1/16" valve will be NACE approved

SEGMENT B. Frac head with two 2-1/16" 10000 psi valves
- 2-1/16" valve bodies and bonnets are manufactured in accordance with NACE
- 2-1/16" valves have been hardness tested for sour service
- 2-I/16" valves have NACE gates, segments, seats, and stems
- The two 2-1/16" valves will be NACE approved
- Frac head is made of materials suitable for sour service
- Frac head has been hardness tested for sour service
- Frac head has been mag particle inspected
- Frac head will be NACE approved

SEGMENT C. Upper-most 4-1/16" 10000 psi valve
- 4-1/16" valve body and bonnet are manufactured in accordance with NACE
- 4-1/16" valve has sour service stems
- Has been hardness tested for sour service
- 4-1/16" valve does not have NACE gates, segments, and seats
- The upper-most 4-1/16" valve will not be NACE approved

FRAC FLUID PUMPING/FLOWBACK PLAN

All of the frac fluid will be pumped into the wellbore through the two 2-1/16" valves. Initially, crosslinked frac fluid will be pumped. Proppant will be added to the crosslinked frac fluid in a ramped-up fashion from 0 ppg to 8 ppg. The frac fluid will then be displaced to the tubing tail. Following this displacement, we plan on flowing the well back through the lower-most 4-1/16" valve and one of the two 2-1/16" valves to a flowback line hooked up to a choke manifold. This manifold will allow us to control the flowback rate to our cleanup separators. We feel this flowback portion is necessary to properly pack the proppant in the reservoir and to reduce our chance of proppant flowback following the frac job.

FLOWBACK VOLUME

Our plan is to flow back enough fluid until one of the following three events occur:

1. The well no longer flows to the surface. We are not equipped to gas lift the well immediately following the frac job. If the recovered frac fluid loads up the well to a sufficient state whereby the well will no longer flow, flowback will cease and we will begin completion operations.
2. We have recovered 500 barrels of frac fluid. Our cleanup separators have a maximum capacity of 500 barrels. When this capacity has been reached, flowback will cease and we will begin completion operations.
3. We receive reservoir fluid at the surface. Once reservoir oil is observed and recorded at the surface, flowback will cease and we will begin completion operations.

Very truly yours,

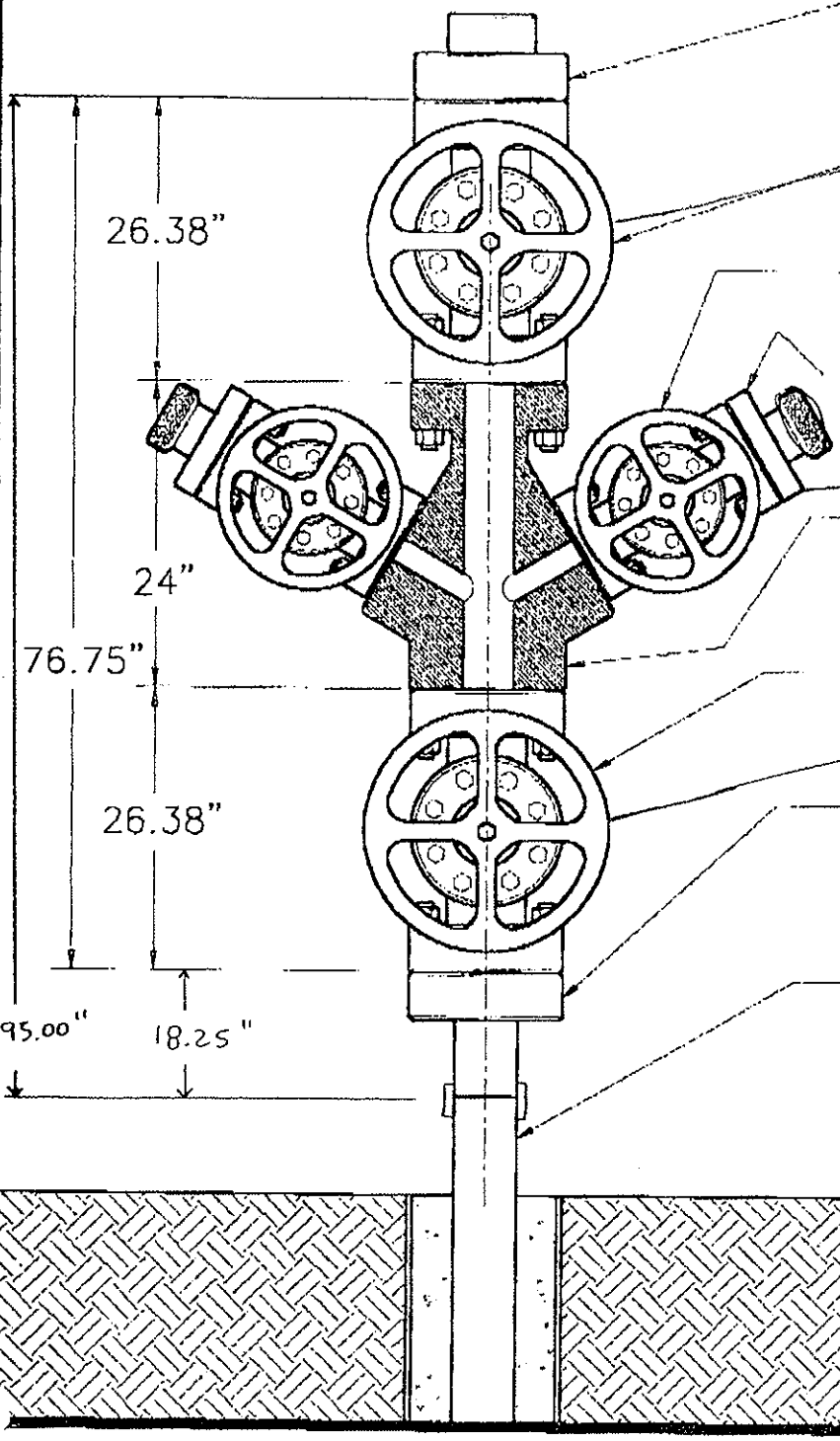
Attachment
cc: RAP

CHEVRON USA

PLATFORM HIDALGO

WELL #PRO-316-1

ATTN: CARL SIMONSON



FILTRATION AND TESTING, INC.
ELCO
(805) 837-4960
BAKERSFIELD, CALIFORNIA

QUOTE #1294

Chevron

Chevron

Chevron U.S.A. Production Company
646 County Square Drive
Ventura, California 93003

February 24, 1997

V. Sankur
Pt. Arguello Asset Team Leader
Ventura Profit Center
Production Department

Mr. Phil Schroeder
Minerals Management Services
222 W. Carmen Lane.
Santa Maria, California 93454

Dear Mr. Schroeder:

Attached for your review is an equipment layout change for our upcoming approved hydraulic fracturing jobs on Platform Hidalgo. We will be moving the 500 barrel tank from the main deck to the pipe deck. This moved tank will be placed a minimum of 8 feet away from the other two 500 barrel tanks on the pipe deck to maintain proper deck loading. Replacing the 500 barrel tank on the main deck will be a 220 barrel holding tank. This holding tank is being fabricated with sufficient valve outlets to fulfill our frac job pump rate requirement of 30-40 barrels per minute.

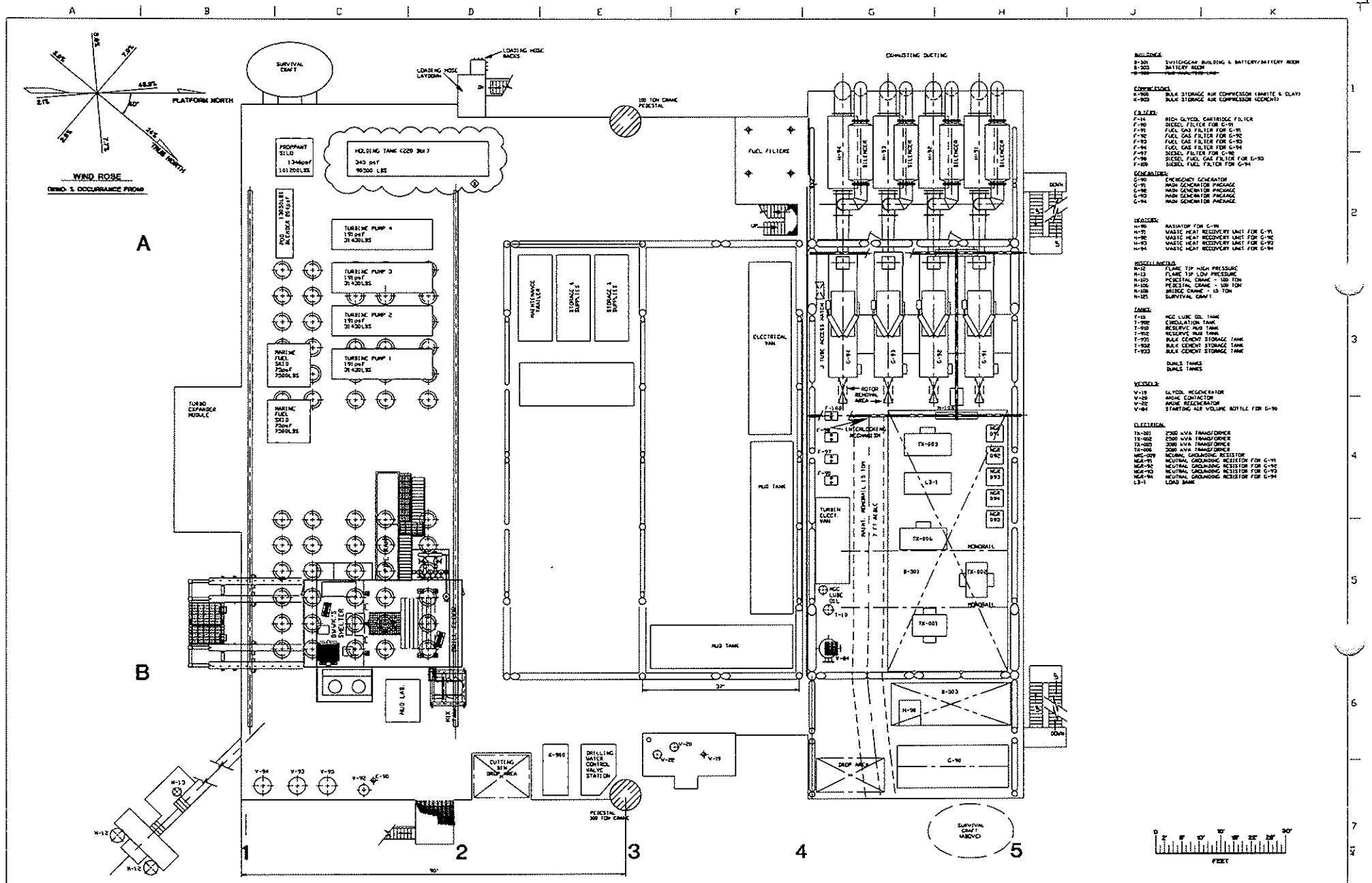
Please provide your concurrence on this layout modification. Mr. R. M. Quilter can be reached at (805) 658-4400 if you have any questions.

Very truly yours

Attachments

DOWELL SCHLUMBERGER FRAC EQUIPMENT SPECIFICATIONS

Name	Pieces	Weight (lbs)	Dimensions	Loading (lbs/sq. ft.)
----Main Deck----				
POD Blender	1	13050	4' X 16'	204
Turbine Pump	4	31430	7' X 23.5'	191
Proppant Silo (Filled with 85000 lbs proppant)	1	101200	8.67' X 8.67'	1346
Marine Fuel Skid	2	7500	10' X 10'	75
Holding Tank (Filled with 220 BBLS Water)	1	90500	8' X 33'	343
Total Main Deck Frac Eqpt Loading		**251184**		
----Pipe Deck----				
Frac Tanks (Filled with 480 BBLS Water)	3	192000	8' X 40'	600
Treatment Control Skid	1	10000	8' X 13'	96
Total Pipe Deck Frac Eqpt Loading		**586000**		



BUILDINGS
B-301 SWITCHGEAR BUILDING & BATTERY/BATTERY ROOM
B-303 BATTERY ROOM

COMPRESSORS
K-900 BULK STORAGE AIR COMPRESSOR (BARITE & CLAY)
K-903 BULK STORAGE AIR COMPRESSOR (CEMENT)

FILTERS
F-96 HIGH GLYCOL CARTRIDGE FILTER
F-97 DIESEL FILTER FOR G-91
F-98 FUEL GAS FILTER FOR G-91
F-99 FUEL GAS FILTER FOR G-92
F-100 FUEL GAS FILTER FOR G-93
F-101 FUEL GAS FILTER FOR G-94
F-102 DIESEL FILTER FOR G-92
F-103 DIESEL FUEL GAS FILTER FOR G-93
F-104 DIESEL FUEL FILTER FOR G-94

GENERATORS
G-90 EMERGENCY GENERATOR
G-91 MAIN GENERATOR PACKAGE
G-92 MAIN GENERATOR PACKAGE
G-93 MAIN GENERATOR PACKAGE
G-94 MAIN GENERATOR PACKAGE

HEATERS
H-90 RADIATOR FOR G-90
H-91 WASTE HEAT RECOVERY UNIT FOR G-91
H-92 WASTE HEAT RECOVERY UNIT FOR G-92
H-93 WASTE HEAT RECOVERY UNIT FOR G-93
H-94 WASTE HEAT RECOVERY UNIT FOR G-94

MISCELLANEOUS
M-02 FLARE TIP HIGH PRESSURE
M-03 FLARE TIP LOW PRESSURE
M-900 PEDESTAL CRANE - 100 TON
M-902 PEDESTAL CRANE - 300 TON
M-904 BRIDGE CRANE - 15 TON
M-905 SURVIVAL CRAFT

TANKS
T-90 HCC LUBE OIL TANK
T-900 CIRCULATION TANK
T-901 RESERVE MUD TANK
T-902 RESERVE MUD TANK
T-903 BULK CEMENT STORAGE TANK
T-904 BULK CEMENT STORAGE TANK
T-905 BULK CEMENT STORAGE TANK
DUMMY TANKS
DUMMY TANKS

VESSELS
V-19 GLYCOL REGENERATOR
V-20 ANODE CONTACTOR
V-22 ANODE REGENERATOR
V-94 STARTING AIR VOLUME BOTTLE FOR G-94

ELECTRICAL
TX-901 2500 kVA TRANSFORMER
TX-902 2500 kVA TRANSFORMER
TX-903 2500 kVA TRANSFORMER
TX-906 2500 kVA TRANSFORMER
NRG-909 NEUTRAL GROUNDING RESISTOR
NGR-G-91 NEUTRAL GROUNDING RESISTOR FOR G-91
NGR-G-92 NEUTRAL GROUNDING RESISTOR FOR G-92
NGR-G-93 NEUTRAL GROUNDING RESISTOR FOR G-93
NGR-G-94 NEUTRAL GROUNDING RESISTOR FOR G-94
LB-1 LOAD BANK

REFERENCE DRAWINGS

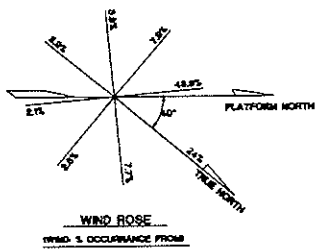
REVISIONS
AS-BUILT REVISED T-94, T-93 P-83, P-84, P-90, & P-91 — ACS
ADDED PROPOSED DRILLING RIG AND FRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL — ACS, RMD
FINAL EQUIPMENT PLACEMENT ISSUED TO MMS FOR APPROVAL — RMD, ACS

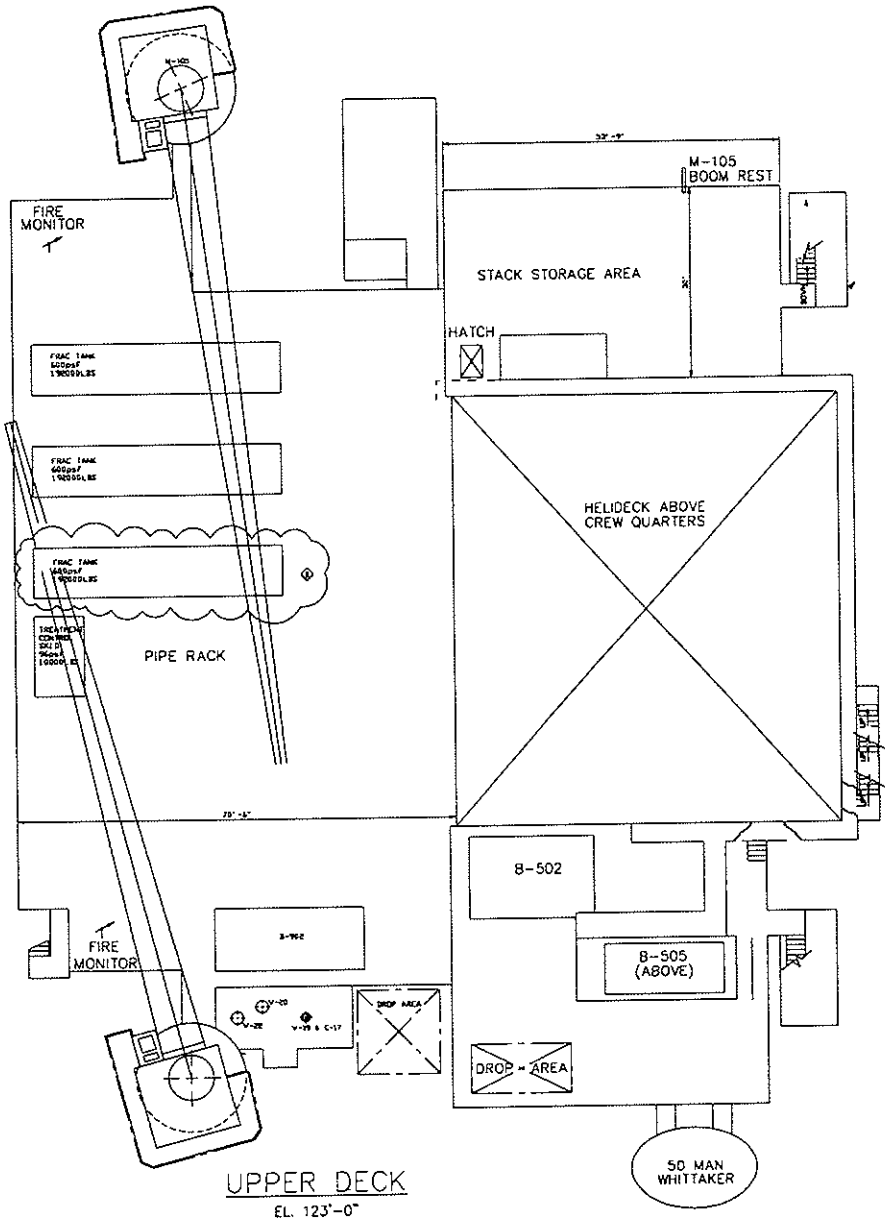
SCALE 1" = 1/8"
DATE 7-20-98 DR. ACS CK.
DR. APPR. CHG.
APPROVED
CHIEF G. DEPT.
CHIEF R. DEPT.

Chevron
Chevron U.S.A. Inc.
Western Production Business Unit
Ventura District

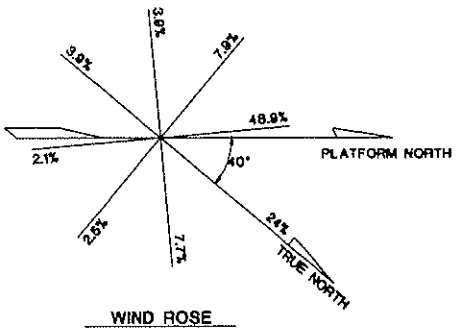
EQUIPMENT ARRANGEMENT PLAN
MAIN DECK AND POWER EL. 95'-3"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | E-SB-1600 | B





REFERENCE DRAWINGS	REVISIONS	Chevron U.S.A. Inc. Western Production Business Unit Ventura District
AS-BUILT - GENERAL ADDED B-305 POWER FACTOR	FINAL EQUIPMENT PLACEMENT ISSUED TO MMS	EQUIPMENT ARRANGEMENT PLAN
ADDED PROPOSED FRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL		UPPER DECK PIPERACK EL. 123'-0"
		DRILLING & PRODUCTION PLATFORM HIDALGO
		OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA
		A — E-SB-1500 — B



WIND ROSE

(WIND- % OCCURRANCE FROM)

BUILDINGS:

B-502	HVAC EQUIPMENT BUILDING
B-601	CREW QUARTERS/HELIPORT
B-504	SHOWER & CHANGE ROOM
B-505	POWER FACTOR BUILDING
B-904	MCC (SCR - EAST BAY)
B-902	CRANE EQUIPMENT STORAGE BLD.

EXCHANGERS:

E-17	GLYCOL REGENERATOR CONDENSER

GENERATORS:

G-901	STAND-BY GENERAOR

MISCELLANEOUS:

M-105	PEDESTAL CRANE 100 TON
M-106	PEDESTAL CRANE - 100 TON
M-120	SURVIVAL CRAFT
M-911	LOGGING UNIT

VESSELS:

V-19	GLYCOL REGENERATOR
V-20	AMINE CONTACTOR
V-22	AMINE REGENERATOR

A

B

0 2' 6' 10' 15' 18' 22' 26' 30'

FEET

1/8" = 1'-0"

REFERENCE DRAWI

vron U.S.A. Inc.

rn Production Business Unit

ra District

EQUIPMENT ARRANGEMENT PLAN

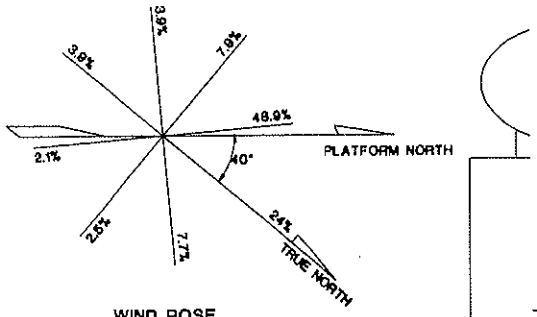
UPPER DECK PIPERACK EL. 123'-0"

DRILLING & PRODUCTION PLATFORM HIDALGO

OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | C.C. | S.D. | E-SB-1500 | B

ESB1500 Q:\CAD\HI DALGO



WIND ROSE

(WIND- % OCCURRANCE FROM)

BUILDINGS:

B-501	SWITCHGEAR BUILDING & BATTERY/BATTERY ROOM
B-503	BATTERY ROOM
~~B-905~~	~~MUD ANALYSIS LAB~~

COMPRESSORS:

K-900	BULK STORAGE AIR COMPRESSOR (BARITE & CLAY)
K-903	BULK STORAGE AIR COMPRESSOR (CEMENT)

FILTERS:

F-14	RICH GLYCOL CARTRIDGE FILTER
F-90	DIESEL FILTER FOR G-91
F-91	FUEL GAS FILTER FOR G-91
F-92	FUEL GAS FILTER FOR G-92
F-93	FUEL GAS FILTER FOR G-93
F-94	FUEL GAS FILTER FOR G-94
F-97	DIESEL FILTER FOR G-92
F-98	DIESEL FUEL GAS FILTER FOR G-93
F-100	DIESEL FUEL FILTER FOR G-94

GENERATORS:

G-90	EMERGENCY GENERATOR
G-91	MAIN GENERATOR PACKAGE
G-92	MAIN GENERATOR PACKAGE
G-93	MAIN GENERATOR PACKAGE
G-94	MAIN GENERATOR PACKAGE

HEATERS:

H-90	RADIATOR FOR G-90
H-91	WASTE HEAT RECOVERY UNIT FOR G-91
H-92	WASTE HEAT RECOVERY UNIT FOR G-92
H-93	WASTE HEAT RECOVERY UNIT FOR G-93
H-94	WASTE HEAT RECOVERY UNIT FOR G-94

MISCELLANEOUS:

M-12	FLARE TIP HIGH PRESSURE
M-13	FLARE TIP LOW PRESSURE
M-105	PEDESTAL CRANE - 100 TON
M-106	PEDESTAL CRANE - 100 TON
M-108	BRIDGE CRANE - 15 TON
M-121	SURVIVAL CRAFT

TANKS:

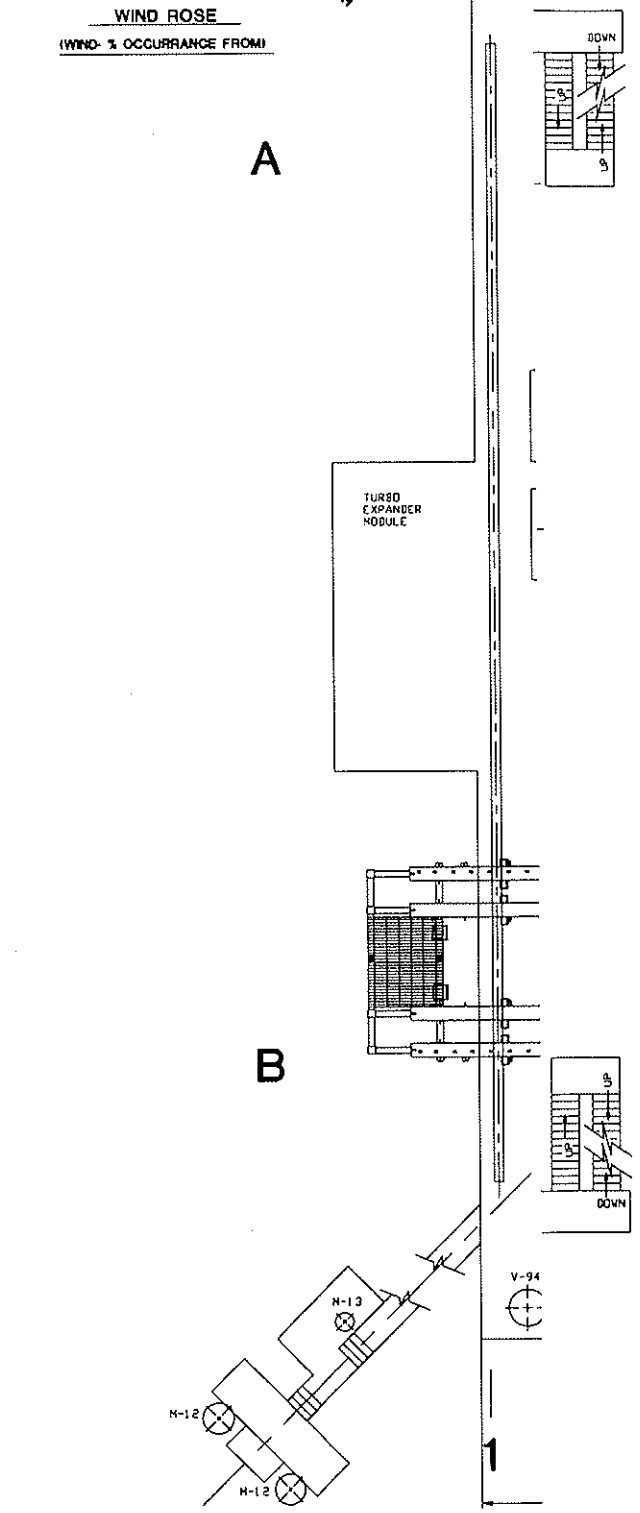
T-10	HGC LUBE OIL TANK
T-902	CIRCULATION TANK
T-910	RESERVE MUD TANK
T-912	RESERVE MUD TANK
T-931	BULK CEMENT STORAGE TANK
T-932	BULK CEMENT STORAGE TANK
T-933	BULK CEMENT STORAGE TANK
	DUALS TANKS
	DUALS TANKS

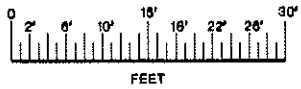
VESSELS:

V-19	GLYCOL REGENERATOR
V-20	AMINE CONTACTOR
V-22	AMINE REGENERATOR
V-84	STARTING AIR VOLUME BOTTLE FOR G-90

ELECTRICAL

TX-001	2500 kVA TRANSFORMER
TX-002	2500 kVA TRANSFORMER
TX-005	2000 kVA TRANSFORMER
TX-006	3000 kVA TRANSFORMER
NRG-009	NEURAL GROUNDING RESISTOR
NGR-91	NEUTRAL GROUNDING RESISTOR FOR G-91
NGR-92	NEUTRAL GROUNDING RESISTOR FOR G-92
NGR-93	NEUTRAL GROUNDING RESISTOR FOR G-93
NGR-94	NEUTRAL GROUNDING RESISTOR FOR G-94
LB-1	LOAD BANK





REFERENCE DRAWI

Chevron U.S.A. Inc.
Western Production Business Unit
Pacific District

EQUIPMENT ARRANGEMENT PLAN
MAIN DECKAND POWER EL. 95'-3"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | C.C. ——— S.O. ——— | E-SB-1600 | B

ESB1600 @ HIDALGO

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 25	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'		Orig KB Elev: 133'
				Wind:	Seas:	Bar: POB: 32
Mud Type: Seawater				Wt: 8.5	PV:	YP: WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95		Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	9,174'	Packer @ 8996', GLMs @ 8665', 8059', 7485', 6906', 6232', 5250',	
					3889', 2160' and T-5 SSSV @ 799'.	
					T-5 SSSV Ser # 170576-1	

Packer Set At:	Type	Perforations From: - To:	Details
8,996'	Baker "HB" Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data Number	Type	Serial Number

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
01:30	00:00 -	01:30	Pulled "X" test plug from "X" nipple @ 9132' - rigged out Golden State W/L.	
01:30	01:30 -	03:00	Closed SSSV and set BPV in tubing hanger.	
07:00	03:00 -	10:00	Remove BOPE from well.	
04:30	10:00 -	14:30	Install Production tree and test to 5000 PSI for 15 minutes, tested tubing hanger to 5000 PSI for 15 minutes.	
01:00	14:30 -	15:30	Removed BPV from tubing hanger.	
02:30	15:30 -	18:00	Prepare rig for rig move.	
	-		Released rig from C-1 at 18:00, Move to C-11	
	-		Held safety meetings, discussed procedures for skidding rig, proper equipment to use when handling production tree. Pinch points, communication between decks, slippery decks - TEAM WORK.	

Post-It® Fax Note 7671 Date # of pages ▶ 2

To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 1958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

MAIL MANAGEMENT SERVICE

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 24	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 38
Mud Type: Seawater	Wt: 8.5	PV:	YP: WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: S95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	9,116'	Packer @ 8940', GLMs @ 8608', 8003', 7430', 6850', 6177', 5195',	
					3833', 2104' and T-5 SSSV @ 743'.	
					T-5 SSSV Ser # 170575-1	

Packer Set At:	Type	Perforations From:	To:	Details
8,940'	Baker "HB" Packer	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:

Post-it® Fax Note 7671 Date # of pages ▶ 1

To Dan Knowlton From Laura Phillips

Co./Dept. MMS - SM Co. Chevron

Phone # 922 7958 Phone # 658 4493

Fax # 925 8546 Fax # 658 4405

Operations Covering 24 Hours Ending at Midnight

Hrs.	(From -To)	hh:mm	Area
18:30	00:00 - 18:30		Continue to RIH w/ production string, made up tubing to 4500 ft/lbs and externally test
	-		couplings to 6000 PSI. Drifted all tubing w/ 2.867" drift. Unable to test FV-6 SSSV.
	-		Made up T-5 SSSV and tested as per program. Ran 1/4" stainless steel control line to
	-		surface. After making up tubing hanger tested SSSV as per program.
	-		Spotted 800 Bbls of packer fluid.
	-		
00:30	18:30 - 19:00		Landed tubing hanger and screwed in hanger lock-downs.
	-		
02:30	19:00 - 21:30		R/U Golden State W/L and set 2.75" test tool in "X" nipple @ 9076'.
	-		
02:30	21:30 - 24:00		Set packer w/ 1200 PSI f/ 5 min, 1800 PSI f/ 5 min, 2400 PSI f/ 5 min & 3500 PSI f/ 15
	-		min. While holding 3500 PSI on tubing pressured annulus to 1000 PSI f/ 15 min. Bled
	-		pressure off of tubing and casing.
	-		
	-		
	-		
	-		A.M. Activities: Retrieve test tool f/ "X" nipple @ 9076'. Close SSSV & install BPV in
	-		tubing hanger.
	-		
	-		
	-		
	-		
	-		Held safety meetings: Discussed running tubing, pinch points (Gator-Hawk, Tubing Tongs,
	-		Elevators, etc.). General Housekeeping, i.e. keep walkways & stairways clean, keep
	-		tools picked up. Discussed correcting safety items immediately.
	-		
	-		
	-		

24 hr Summary: Finish running production tubing. Set packer.

Fluid Lost To Formation Daily: 4,320 Cumulative: 24,069

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:3-CUSA; 23-Pool; 10-Service; Total=26:No Incidents & No-Non Compliance. Pool Crews Have Worked "59" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 80 Sxs Xanvis : 160 Sxs Salt API Well No: 56-045-20062

Profit Center:	WBU/PC	Rig:	Pool 411	Rig Phone:	805-658-4521	Drilling Rep:	Ray/DeGraffenreid
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-1	Date:	14-Apr-97

C-1 Free.xls

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 23	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 36
Mud Type: Seawater	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	Wt: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @ MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd			

Packer Set At:	Type	Perforations From - To	Details
		9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,630'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data Number	Type	Serial Number
6	Baker on/off tool, xo, 24 jts of 3 1/2" tbg, xo, 4 1/2" tbg			

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
03:00	00:00 - 03:00	Continue to change over to clean saltwater, pumped returns to V-9 production.	
01:00	03:00 - 04:00	Continue to pump clean saltwater to active pits.	
05:30	04:00 - 09:30	POOH w/ retrieving tool, laid down retrieving tool and "F" plug.	
01:30	09:30 - 11:00	R/U Gator Hawk and held safety meeting to discuss procedures for running tubing.	
13:00	11:00 - 24:00	M/U & RIH w/ production string, made up 3-1/2" tubing to 4500 ft/lbs and gatorhawked connections to 5000 PSI.	
	-	AM activities: Continue to RIH w/ production tubing.	
	-	Safety meetings: Discussed ladder safety and procedures for running tubing.	

Post-it® Fax Note 7671 | Date | # of pages ▶ 3
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 7958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: Finished circulating hole clean of sand, Remove "F" plug, POOH, Start running completion assembly.

Fluid Lost To Formation | Daily: 300 | Cumulative: 19,749

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:3-CUSA: 23-Pool: 10-Service: Total=26:No Incidents & No-Non Compliance. Pool Crews Have Worked "58" Days W/Out LTA.

Chevron %: 26.32 | H2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 80 Sxs Xanvis : 160 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	Roberts/Ray/DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	13-Apr-97

C-1 Frac.xls

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 22	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Mud Type: Seawater	Wt: 8.5	Wind:	Seas:	Bar:	POB: 29
	PV:		YP:		WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd			

Packer Set At:	Type	Perforations From: - To:	Details
		9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,998'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
6	Baker on/off tool, xo, 24 jts of 3 1/2" tbg, xo, 4 1/2" tbg			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
01:00	00:00	01:00	Finish riging up hose to cmt standpipe conn., prepare to reverse circ.	
01:00	01:00	2:00	L/D 10 jts 4-1/2" in V-Door	
00:30	02:00	2:30	RIH from 9000' to 9355', tag sand.	
00:30	02:30	3:00	Break circ, close annular, reverse circ @ 9355'.	
03:00	03:00	6:00	Clean out sand from 9355' to 9429', circ b/u on each single down.	
00:30	06:00	6:30	Pre tour safety check and service rig.	
11:00	06:30	17:30	Reverse circ sand out from 9429' to 9705'.Had pressures up to 1500 PSI without losses.	
01:30	17:30	19:00	2" return hose plugged off, Changed hose out, Pre tour safety checks.	
01:00	19:00	20:00	Continued to reverse circulate sand out from 9705' to 9720', tagged packer.	
01:00	20:00	21:00	Pump down tbg, latch on to f-plug in packer, circ dwn tbg, pmp'g 2-20bbl hi vis sweeps.	
03:00	21:00	24:00	Change over to clean saltwater, pump returns to production V - 9 .	
			Note: No fluid losses to formation were noted thru out clean out job. Had Reversing	
			pressure as high as 1500 psi. Also, Very little frac sand in clean out from where string took	
			weight at 9355' to top of river sand plug, at 9541'. Pumped sweeps as needed.	
			AM Activities: POOH to run completion string.Loosing approximately 1.5 BPM since	
			pulling F-plug from sump packer at 03:30.	

24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:3-CUSA; 22-Pool; 5-Service; Total=28:No Incidents & No-Non Compliance. Pool Crews Have Worked "57" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 80 Sxs Xanvis : 160 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 12-Apr-97	

C-1 Final.xls

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 21	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'		Orig KB Elev: 133'
Mud Type: Seawater			Wt: 8.5	Visc:	PV:	YP:	Bar:	POB: 29	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From: - To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
04:30	00:00 -	04:30	Continue to POOH w/ 4-1/2" tubing.	
01:00	04:30 -	5:30	Rig up test assembly.	
00:30	05:30 -	6:00	Drain stack.	
05:30	06:00 -	11:30	Test B.O.P.w/ 3-1/2" & 4-1/2" tubing as per MMS & CHEVRON specs.	
00:30	11:30 -	12:00	Pooh test assembly & rig down same, Clear rig floor.	
01:30	12:00 -	13:30	Rig up Foster tongs & pooh w/ tubing & packer, R/D packer and subs Change dies in tongs.	
01:30	13:30 -	15:00	Make up Baker retrieving head, 3-1/2" tubing, X-O, rework dies in tongs.	
03:00	15:00 -	18:00	RIH w/ 4-1/2" tubing.	
00:30	18:00 -	18:30	Pre tour safety check.	
04:00	18:30 -	22:30	Continue to RIH F/3277' to 9000'	
01:30	22:30 -	24:00	Rig up hose to cmt stand pipe, m/u safety vlv w/ pump in sub.Prepare equip to reverse circ.	
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24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 22-Pool; 5-Service; Totals28:No Incidents & No-Non Compliance. Pool Crews Have Worked "55" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 80 Sxs Xanvis : 180 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 11-Apr-97	

C-1 Frac.xls

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 20	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 35
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt. , 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Pre-Tour Safety Meetings: Crane operations, Rigging down CT Unit, Testing BOPE	
	-			
01:00	00:00	01:00	With coiled tubing at 9247' inside 4 1/2" frac string, pumped 10 bbl hi-visc sweep and	
	-		chased same with clean seawater to displace frac fluid.	
01:00	01:00	02:00	POOH with CT to 1500' while pumping 1/4 BPM to keep hole full.	
01:00	02:00	03:00	Monitor well. Flowing back frac fluid at less than 3 bbl/hr. No oil or gas.	
03:00	03:00	06:00	Finish POOH w/CT. Close well in on master valve. Purge CT with nitrogen.	
01:00	06:00	07:00	Pre-Tour safety check.Check well for pressure, 75 psi.	
04:00	07:00	11:00	Rig down Schlumberger coiled tubing unit.	
01:00	11:00	12:00	Rig up flowlines on top of master valve to choke manifold. Open valve. Had less than 100	
	-		psi on tubing. Open flowline from tubing to pits and monitor flowback. Less than 2 BPH.	
00:30	12:00	12:30	Platform H2S alarm. Secure well and muster in safe briefing area.	
01:00	12:30	13:30	Open well again and monitor flowback. Bled pressure off annulus. Back out donut screw.	
03:00	13:30	16:30	Pick up on tubing 5' and open dump valve on packer at 9240'. Reverse circulated 2 tubing	
	-		volumes. Had approx 1 bbl of oil and trace of gas to surface on 1st bottoms up.	
01:30	16:30	18:00	Rig down master valve from top of tubing and install TIW valve. Pull tubing hanger to	
	-		rig floor. Lay down same.	
01:30	18:00	19:30	Pre-Tour safety check.Change elevators. Pull 7 stands of 4 1/2" tubing so Packer above	
	-		7" liner top by 240'.	
01:30	19:30	21:00	Make up IBOP on top of tubing. Make up test plug and RIH on 4 1/2" tubing. Secure	
	-		hanger with Donut screws. Rig up hose from casing head to possum belly to monitor	
	-		well. Fill BOP stack with seawater.	
03:00	21:00	24:00	Attempt to test lower pipe rams. No test, no visible leaks. Pull test plug to inspect. Found	
	-		half of seal ring badly worn. Weight of tbg string under test plug causing test plug to drag	
	-		against drawworks side of riser and stack, damaging seal. Will POOH with tubing string	
	-		and attempt to retest BOPE.	
	-		Note: Test safety valves, IBOP's, and choke manifold while reverse circulating well	
	-		clean.	

24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To				Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:		Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 23-Pool; 11-Service; Total=35:No Incidents & No-Non Compliance. Pool Crews Have Worked "55" Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost:	AFE Number: WVR66277
Cum Mud Cost:	Cum Tang Cost: $8,960	Cum Well Cost:	Total Appr: $1,214,200
Materials On Hand: 63-Sxs. Sulf X ; 6.5 Drums Scale X ; 80 Sxs Xanvis ; 180 Sxs Salt			API Well No: 56-045-20062

APR 1 1

C-1 Fmt.xls

4/10/97

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 19	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 33
Mud Type: Seawater			Wt: 8.5	PV:	YP:	Wt:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @ MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details (Do Not Use This Area)
3 1/2"	9.3	L-80	501 Hyd.		
4 1/2"	12.75	L-80	501 Hyd	9,223'	

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

Post-It® Fax Note 7671 Date # of pages ▶ 1

To Dan Knowlson From Laura Phillips

Co./Dept. MMS - BM Co. Chevron

Phone # 922-1958 Phone # 658 4493

Fax # 925 8546 Fax # 658 4405

BHA No:	Details:
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup

Hrs.	(From - To)	hr:mm	Operations Covering 24 Hours Ending at Midnight (Do Not Use This Area)
	-		Held pre-tour safety meeting: Discussed tripping pipe, & crane safety.
	-		
02:30	00:00 -	02:30	With coiled tubing at 9247', pumped hi-visc sweep and circ around.
01:30	02:30 -	04:00	Circulate While POOH w/CT to 3000'.
01:30	04:00 -	05:30	Circulate While RIH w/CT to 6200'. Notice 30 bbl pit gain. Stop pumps and check for flow.
	-		Well flowing, shut-in at valve on flow tee.
01:30	05:30 -	07:00	Monitor well pressure. Crew change and Pre-tour Safety Inspection.SITP = 1025 psi
	-		SICP = 1020 psi after 1 1/2 hrs and rising slowly. Ballooned formation giving back frac
	-		fluid slowly.
02:00	07:00 -	09:00	Open flo-tee valve and bleed off pressure. No oil or gas. Well flowing approx. 15 bbls/hr.
	-		Start circulating coiled tubing and RIH to 9240' and shut well in to monitor pressure.
00:30	09:00 -	09:30	Platform H2S Alarm. Secure well and muster in safe briefing area. Alarm in Prod facilities.
01:00	09:30 -	10:30	Check pressures. SITP = 807psi & SICP = 800 psi. POOH w/CT while circ at 1/4 BPM
	-		to 1500'.
01:00	10:30 -	11:30	Monitor well flow. 18 bbls in 1 hr.
02:00	11:30 -	13:30	Monitor well flow. 16 bbls in 2 hr.
00:30	13:30 -	14:00	Shut well in an monitor pressures. SITP = 552 psi; SICP = 500 psi.
05:00	14:00 -	19:00	Continue to monitor flowback. Flowed back approx 37 bbls. Flow rate down to +- 4 BPH.
	-		No oil or gas to surface.
02:00	19:00 -	21:00	RIH w/CT from 1500' to 9247' circulating at 1.8 BPM.
01:30	21:00 -	22:30	Pump HI-visc sweep and circulated around. Had some frac sand in returns.
01:30	22:30 -	24:00	Pump 2nd sweep and chase with clean seawater to displace CT and frac string.
	-		
	-		Note: flowed back approx 130 bbls thru out day. At 04:00 well still flowing back at less
	-		than 3 bbl/hr. Prep to rig down Coiled tubing.
	-		
	-		Tranferred 500 bbls of wellbore frac fluid to Dust mud tank and 100 bbls to Pool reserve
	-		tank #5 for production to dispose of.

24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 22-Pool; 10-Service; Total=33;No Incidents & No-Non Compliance. Pool Crews Have Worked "54" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Sulf X ; 6.5 Drums Scale X ; 80 Sxs Xanvis ; 180 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 9-Apr-97	

C-1 Frac.xls

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 18	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 33
Wt: 8.5	PV:	YP:	WL:

Mud Type: Seawater

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From: - To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt. , 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Held pre-tour safety meeting:Discussed running coiled tubing.	
	-		
06:00	00:00 - 06:00	Dump reserve pits. Offload & backload M/V "Jolly Roger". Clean deck.	
06:00	06:00 - 12:00	Rig up Coiled Tubing Unit. Test blind rams as per MMS & Chevron regulations. 250 Psi	
	-	low pressure side-4,500 Psi high pressure side. Test OK.	
12:00	12:00 - 24:00	RIH w/Coiled tubing, circulating out frac sand inside 4 1/2" tubing from 105' to 9247'. Circ.	
	-	bottoms up every 1,000' going in hole. At Midnight, circulating out frac sand from 9,247',	
	-	to perforated pup joint below packer. Pumped sweep and circulated around.	
	-		
	-	Will circulate out to 3000', RIH and check for fill prior to POOH w/CT and R/D.	
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	-	Note: Mr. Bob Hime with MMS on board for Inspection.	
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	-		
	-		
	-		

Post-it® Fax Note 7671 | Date | # of pages ▶ 1
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 7958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: Test CT BOPE to 250/4500 psi. Circ in hole, cleaning out frac sand in 4 1/2" tubing. Circ B/U every 1000'.
Circ Sweep at 9247' at midnite.

Fluid Lost To Formation | Daily: 0 | Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:2-CUSA; 22-Pool; 10-Service; Total=34:No Incidents & No-Non Compliance. Pool Crews Have Worked "53" Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X ; 6.5 Drums Scale X ; 80 Sxs Xanvis ; 180 Sxs Salt					API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 8-Apr-97		

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 17	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'			
Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 18'	Orig KB Elev: 133'				
				Wind:	Seas:	Bar:	POB: 41		
Mud Type: Seawater				Wt: 8.5	PV:	YP:	WL:		
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @				
Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @ MD: 9,018'	TVD:			

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting. Topics: 1) Crew change, discussed tong operator 1st	
	-		side accident.	
	-			
04:00	00:00	04:00	Clear deck of Frac Equipment & unload Coiled Tubing Equipment.	
18:00	04:00	22:00	Rig up 1 1/2" coiled tubing unit and Bowen Preventers.	
	-		Repair Rig Accumulator. Rig up discharge line from	
	-		Active pits to pump To V-9. Stab coiled tubing thru injection head.	
	-		Clean active pits, fill active pits with mud	
02:00	22:00	24:00	Test coiled tubing BOPs to 250 PSI low and 4500 PSI high. (Blind rams would not test).	
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	-		Note: Mr. Bob Mense with MMS on board for rig inspection.	
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To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 1958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: Clear Deck Of Frac Equipment & Offload Coiled Tubing Equipment. Rig Up Coiled Tubing Equipment.
Rig up discharge line to pump active pits to To V-9. Attempt test on Bowen Preventers. Blinds failed.

Fluid Lost To Formation | Daily: | Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 22-Pool;8-Service; Total=31:No Incidents & No-Non Compliance. Pool Crews Have Worked "52" Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X ; 6.5 Drums Scale X ; 80 Sxs Xanvis ; 180 Sxs Salt				API Well No:	56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521		Drilling Rep:	J. W. DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1		Date:	7-Apr-97

Chevron Point Arguello OCS-P 0460 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 16	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 41
Wt: 8.5	PV:	YP:	WL:

Mud Type: Seawater

Prod. Casing Size: 9.625"	Wt: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876'	8,986'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Slt Data Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting topics:1)On going frac job (High pressure lines & noise).	
	-			
01:00	00:00	- 01:00	Rig down frac lines & rig up wireline.	
02:00	01:00	- 03:00	RIH with wireline to retrieve bombs.	
01:00	03:00	- 04:00	Rig down wireline & rig up frac lines.	
05:00	04:00	- 09:00	Mix frac fluid. (Had trouble getting gel to hydrate due to cold weather).	
02:00	09:00	- 11:00	Held safety meeting. Performed Mini-frac.	
05:00	11:00	- 16:00	Cleaned mud pumps, worked on accumulator and hydraulic unit.	
02:00	16:00	- 18:00	Held safety meeting. Performed frac - well screened out while pumping at 6 ppg.	
	-		Attempted to flow to V-9 (Production), well would not back flow.	
06:00	18:00	- 24:00	Cleaned platform to make room for coiled tubing.	
	-			
	-		NOTE: R. Quilter, Chevron production engineer to provide details of mini-frac and frac jobs	
	-		In separate report.	
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	-		A.M. Continue to make room for coil tubing equipment on platform, unload coiled tubing	
	-		from work boat. Rigging up coil tubing.	
	-			
	-		NOTE: Mr. Bob Hime w/ MMS on board to witness mini-frac.	
Revised	-		4/6: Rec'd variance f/ Bob Hime, MMS, to delay BOPE test until rig is ready to pull pipe.	

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To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922-1958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: RIH with wireline to retrieve bombs.Rig down wireline & rig up frac lines, mix frac fluid, & performed mini frac. Held safety meeting & performed frac. Cleaned platform to make room for coiled tubing.

Fluid Lost To Formation | Daily: | Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:2-CUSA; 22-Pool;16-Service; Total=41:No Incidents & No-Non Compliance. Pool Crews Have Worked "51" Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No: 58-045-20062
Profit Center: WBU/PC	Rig: Pool 411	Rig Phone: 805-868-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0460	Well #: C-1	Date: 6-Apr-97	

C-1frac.xls

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 15	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.			KB Correction: 16'		Orig KB Elev: 133'	
Mud Type: Seawater			Wind:	Seas:	Swr:	POB: 41
			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt. , 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Pre-tour safety meeting Topics:1) Discussed inspection of equipment before use.Proper	
	-		operation of hydraulic tongs.	
	-			
04:00	00:00	- 04:00	Continue RIH testing tubing for leaks. Tested tubing to 3,200 Psi. Test O.K.	
02:00	04:00	- 06:00	Make up tubing hanger & RIH & set frac packer W/50,000 down weight.-Set hanger &	
	-		secure. Make up tubing flange.	
01:00	06:00	- 07:00	Rig up hose for casing test. Test casing to 2,500 Psi. Test O.K.	
03:30	07:00	- 10:30	Rig up frac head, clean rig floor.	
07:30	10:30	- 18:00	Test Dowell surface lines to 7,500 Psi.Test OK.Test tubing to 6,000 Psi, test Ok. Test	
	-		pressure release valve to 8,156 Psi. Test OK. Rig down Dowell, R/U & RIH W/pulling	
	-		tool to pull "XX" plug from X-Nipple @ 9,249'. RIH W/Quartz pressure gauges & set in XN	
	-		nipple @9,260'. Rig down wireline.	
01:30	18:00	- 19:30	Rig up frac lines.	
04:30	19:30	- 24:00	Test frac lines & begin data frac.	
	-			
	-		AM activity: Rig down frac lines, & R/U wireline to RIH & retrieve bombs.	
	-		Rig down wireline. & rig up frac lines. Mix frac fluid.	
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	-		Note: Mr. Bob Hime with MMS on board to witness Data Frac.	
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24 hr Summary: RIH checking for leaks.RIH & Set Frac packer, land tbg. hanger & secure. Test casing to 2,500 Psi. Test O.K. Test tubing, RIH & pull "XX" plug. Run pressure gauges. R/U & test frac lines. Begin data frac.

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:2-CUSA: 22-Pool:18-Service: Total=41:No Incidents & No-Non Compliance. Pool Crews Have Worked "50" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand:	83-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel			API Well No:	56-045-20062
Profit Center:	WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	J. W. DeGraffenreid
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	5-Apr-97

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 14	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind: Seas: Ber: POB: 46

Mud Type: Seawater Wt: 8.5 PV: YP: WL:

Prod. Casing Size: 9.625" WT: 43.5 Grade: SS-95 Set @ MD: 9,415' TVD: 7114' Cmt. Top @

Liner Size: 7" Wt: 26 Grade: L-80 Set@ MD: 10,498' TVD: 8,102' Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From-To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Held pre-tour safety meeting; Discussed POOH.	
	-		
02:00	00:00 - 02:00	RIH with wireline & set "XX" plug in "X" Nipple @ 9249' -POOH with wireline.	
07:00	02:00 - 09:00	Rig up Dowell/Schlumberger frac lines to test tubing, pump & lines to 6,000 Psi.	
	-	Unable to get good test on tubing, communicates to annulus.	
01:00	09:00 - 10:00	Rig down frac head - Unland tubing hanger & release packer.	
08:00	10:00 - 18:00	POOH with 4 1/2" frac string wet looking for leaks. Tested tubing w/ tail @ 8283', pumped	
	-	away @ 500 PSI. With tubing tail @ 5470' tubing tested to 2500 PSI O.K.	
06:00	18:00 - 24:00	RIH w/ tubing, spidering in hole. Found loose connections @ 2186', 2010 & 1085'.	
	-	Tested tubing every ten stands in hole.	
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	-	AM Activity: RIH testing for leaks in tubing. M/U landing joint & set frac packer.	
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	-	NOTE: Held H2S drill @ 16:30.	
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	-	NOTE: Mr. Bob Hime W/ MMS on platform.	
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24 hr Summary: RIH with wireline to set plug in X-Nipple. Rigged up & tested frac lines & tubing. Leak in tubing. Rig Down frac head. POOH testing for leaks.

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 22-Pool;8-Service; Total=29;No Incidents & No-Non Compliance.Pool Crews Have Worked^46"Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: (1)1st Aid

Materials On Hand:	63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel			API Well No:	56-045-20062
Profit Center:	WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	J. W. DeGraffenreid
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	4-Apr-97

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 13	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 46
Mud Type: Seawater	Wt: 8.5	PV:	YP: WL:

Prod. Casing Size: 9.625"	Wt: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At	Type	Perforations From	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876'	9,996'	.42" Diameter @ 6 SPF

Plug Top @ Description: Baker Model

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed frac job starting tonight (high noise level) & high	
	-		pressure lines.	
	-			
02:00	00:00	- 02:00	Rig up Gatorhawk. Held pre-job safety meeting. Test frac assembly to	
	-		6,000 Psi.	
15:00	02:00	- 17:00	RIH with frac string, testing with Gatorhawk while RIH. Test to 6,000 Psi.	
02:00	17:00	- 19:00	Rig down Gatorhawk. Set Baker "EA" Packer @ 9,234' with 51K down weight & land tubing	
	-		hanger. Attempt to test back side to 2,500 Psi. - Failed to test.	
03:00	19:00	- 22:00	Unseated packer & pull up to change seals in FMC hanger. Change out seals. Reset Packer &	
	-		& landed tubing hanger- tested back side to 2,500 Psi. Test okay.	
02:00	22:00	- 24:00	Installed frac head & Rig up Golden State wireline.	
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	-		A.M. Activity : Set Wireline Plug in "X" Nipple.	
	-		Rig up frac lines. Pressure testing lines & tubing to 6,000 Psi.	
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	-		NOTE: Mr. Bob Himes On Board to Wit	
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To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922-7958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: Make up Frac assembly-Test same. RIH with frac string, testing with Gatorhawk while RIH. Set Baker "EA" Packer, & land tubing hanger, test back side to 2,500 Psi, Install frac head & R/U Golden State Wireline.

Fluid Lost To Formation | Daily: 0 | Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 3-CUSA; 22-Pool;21-Service; Total=46 No Incidents & No-Non Compliance. Pool Crews Have Worked "46" Days W/Out LT

Chevron %: 28.32 | H_2S: None | Accidents: None

Materials On Hand: 83-Sxs. Suif X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 3-Apr-97	

C-1 Frac.xls

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 12	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 41

Mud Type: Seawater	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @

Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd			

Packer Set At:	Type	Perforations From: - To:	Details
9,710'	Baker Model "D"	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker Model "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed frac job (high pressure), lot of extra equipment on	
	-		board. Discussed testing With Gatorhawk to 6,000 Psi.	
	-			
02:30	00:00	- 02:30	Continue to RIH with Model "F" plug. Spider in hole to packer @ 9,710' - (located @ 9746' tbg meas.)	
02:00	02:30	- 04:30	Latched plug in packer & worked off of plug. Pulled to 9,476'.	
00:30	04:30	- 05:00	Rig up BJ Services to set sand plug, plug to be 4100 lbs of 20/40 sand.	
02:00	05:00	- 07:00	Set sand plug & displace same. Work pipe while placing sand.	
02:00	07:00	- 09:00	POOH to 9,520. Made up landing joint & hanger. Landed hanger on wellhead.	
02:00	09:00	- 11:00	Rig up Schlumberger wireline. RIH with same- Locate fill @ 9,541'.	
01:30	11:00	- 12:30	POOH with wireline & rig down same.	
01:00	12:30	- 13:30	Tested hanger, fat. nip & landing jt to 7,700 Psi. Test Ok.	
00:30	13:30	- 14:00	Rig down test assembly.	
07:30	14:00	- 21:30	POOH standing back tubing. Measure out of hole.	
00:30	21:30	- 22:00	Laydown running/retrieving assembly.	
02:00	22:00	- 24:00	Make up 2 7/8" frac packer w/ accessories.	
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	-		AM Activity: RIH with 4 1/2" Frac string-Testing with Gatorhawk	
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To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 7958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: RIH with Baker Model "F" plug, set sand plug, RIH with wireline & tag fill @ 9,541. POOH with wireline & rig down same. Test hanger to 7,700 Psi, laydown packer assembly & make up 2 7/8" Frac assembly & test to 6,000 Psi.

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 2-CUSA; 21-Pool;18-Service; Total=41 No Incidents & No-Non Compliance. Pool Crews Have Worked "47" Days W/Out LT

Chevron %: 26.32	H_2S: None	Accidents: None

Materials On Hand: 83-Sxs. Suff X ; 6.5 Drums Scale X ; 78 Sxs. MI Gel				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 2-Apr-97	

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 11	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 39
Mud Type: Seawater	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: S95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd			

Packer Set At:	Type	Perforations From: - To:	Details
9,710'	Baker Model "D"	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker Model "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,875' - 9,995'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
4	Baker Model "F-1" Plug			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed slipping & cutting drill line & up coming frac.	
	-			
02:30	00:00	- 02:30	Continue RIH with Schlumberger wire line. Set Baker 7" Model "D" Packer @ 9,710'.	
02:00	02:30	- 04:30	POOH with wireline. Rig down Schlumberger. Pull rotary table, rig down shooting flange. Nipple	
	-		up pitcher nipple & re-install rotary table.	
03:30	04:30	- 08:00	Hang blocks, slip & cut drill line. Continue to pump down annulus. Service rig.	
03:00	08:00	- 11:00	Make up BHA & RIH with 12-stands of 3 1/2" Hydril 501 tubing. Rig down 3 1/2" handling	
	-		equipment & rig up 4 1/2" handling equipment.	
06:00	11:00	- 17:00	Rig hydraulic tubing tongs down for the repairs.	
01:00	17:00	- 18:00	Tubing tongs repaired. RIH with 4 1/2" Hydril 501 tubing.	
06:00	18:00	- 24:00	Continue to run in hole w/ Model "F" Plug.	
	-			
	-			
	-			
	-		A.M. Activity: Set Plug in Model "D" Packer and Release From Plug.	
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	-			
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	-			
	-		NOTE: Mr. Bob Hime with MMS visited Platform.	
	-			
	-			
	-			

Post-it® Fax Note 7671 | Date | # of pages ▶ 1
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922-7958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: RIH with wireline & set 7" Baker Model "D" packer @ 9,710. POOH & rig down wireline. Slip & cut drill line.
RIH with Mdl "F" Plug on 3 1/2" & 4 1/2" Hydril 501 tubing.

Fluid Lost To Formation | Daily: 1,340 | Cumulative: 18,109

Hours Charged To			Hours Used		Other Charges
Contractor: 6	Chevron: 18	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 2-CUSA; 22-Pool;15-Service; Total=39 No Incidents & No-Non Compliance. Pool Crews Have Worked "45" Days W/Out LT

Chevron %: 26.32	H_2S: None	Accidents: None

Materials On Hand: 83-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 1-Apr-97	

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 10	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp.Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 40
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	WT: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	601 Hyd.	7,290'	Recovered	

Packer Set At:	Type	Perforations From:	To:	Details
		9,510'	9,570'	.50" Diameter @ 4 SPF
		9,620'	9,830'	.42" Diameter @ 6 SPF
		9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
3	7" Baker Retrieve-O-Matic, 3-XO Subs, & 4 12" Tubing.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed handling drill pipe, slips, trips, & falls.	
	-			
01:00	00:00	01:00	Finished testing BOPE as per Chevron & MMS regulations- 250-low side- 3,000 high side.	
	-		Each test held for 5-minutes. Tested BOPE W/3 1/2" & 4 1/2" tubing.	
01:00	01:00	02:00	Make up Model E-A retrieve-o-matic packer & RIH with same.	
00:30	02:00	02:30	Change out back-up dies in tubing tongs.	
03:30	02:30	06:00	RIH with 4 1/2" tubing & spider in hole. Held BOP trip drill & H2S drill with crew	
01:00	06:00	07:00	Held pre-tour rig inspection. Pump down tubing.	
04:00	07:00	11:00	Continue to RIH with Baker retrieve-o-matic packer.	
00:30	11:00	11:30	Rig up pump down assembly & fill hole.	
01:00	11:30	12:30	Set packer @ 9,093'. fill hole. Attempt to test liner lap to 2,500 Psi, blew pop off on # -1 pump	
	-		Switched to # -2 pump & pressure test casing to 2,450 Psi for 30- minutes. No leak off.	
07:00	12:30	19:30	Pumped tubing & rat hole volume @ 5 BPM @ 270 Psi. unseat packer & POOH & Lay down	
	-		Same.	
02:00	19:30	21:30	Pull rotary table & nipple down pitcher nipple. Nipple up shooting flange, re-install rotary table.	
	-		rig up lubricator & pack-off & test pack-off to 300 Psi.	
02:30	21:30	24:00	Rig Schlumberger wire line, pick up Model "D" packer & RIH on wire line.	
	-			
	-			
	-			
	-		AM activity: Slip & cut drill line & RIH with Model "F" latch plug	
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	-			
	-			
	-			
	-			
	-			

Post-it® Fax Note 7671 | Date | # of pages ▶ 1
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 1958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: Finish testing BOPE. RIH with Model "E-A" packer, POOH with same, test liner lap, R/U Schlumberger wire line & RIH with Model "D" packer.

Fluid Lost To Formation | Daily: 3,140 | Cumulative: 16,769

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 2-CUSA: 24-Pool:14-Service: Total=40 No Incidents & No-Non Compliance. Pool Crews Have Worked "44" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X : 8.5 Drums Scale X : 78 Sxs. MI Gel				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 31-Mar-97	

C-1 Procds

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 9	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 31
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @MD: 9,016'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	
3 1/2"	9.3	L-80	501 Hyd.	7,290'	Recovered

Post-it® Fax Note 7671 | Date | # of pages ▶ 4
To Dan Knowlson | From Laura Abilay
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 7958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

Packer Set At:	Type	Perfs From:			
		9,510'	-	9,570'	.50" Diameter @ 4 SPF
		9,620'	-	9,830'	.42" Diameter @ 6 SPF
		9,876'	-	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
2	1-Lock set retrievable Bridge plug, Model "FL" on/off tool, XO sub, XO sub, 25-Jts. 3 1/2" 9.3# L-80 Hydril 501 Tubing.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
			Held pre-tour safety meeting; Discussed previous day near miss.	
00:30	00:00 -	00:30	Raised board in derrick due to larger elevators.	
04:30	00:30 -	05:00	Continue to RIH with 4 1/2" tubing to 9,100'. Set Baker 7" Loc-set bridge plug @ 9,100'	
01:00	05:00 -	06:00	Fill tubing and hole with 143 bbls seawater. Stop pump. Fluid level dropping.	
01:00	06:00 -	07:00	Held pre-tour safety check. Reset bridge plug and fill hole. Fluid level falling at 1.5 BPM rate.	
			Packer elements not set, dump valve not closing or liner lap is leaking.	
00:30	07:00 -	07:30	Attempt to J-off of packer with left-hand rotation, backed off of tubing at approximately 3200'	
00:30	07:30 -	08:00	Locate top of fish and screw into same. Fill hole. Fluid level still falling away. Unseat packer.	
06:30	08:00 -	14:30	POOH to check workstring and bridge plug.	
00:30	14:30 -	15:00	Laydown packer.	
09:00	15:00 -	24:00	Make up test assembly. Test BOPE to 250/3000 psi for 5 minutes each as per Chevron &	
			MMS regulations. Tested with 3 1/2" and 4 1/2" tubing. Functioned BOPE from both Koomey	
			unit and BOP deck remote. One 3 1/2" TIW and one 3 1/2" IBOP failed to test. Have backups	
			on platform. Kept hole full by pumping 2.5 BPM thru wing valve during testing.	
			Note: MMS on board for inspection. (Bob Hime)	

24 hr Summary: Finish RIH with 4 1/2" tubing. POOH with packer & L/D same. Circulate well as needed. Test BOPE.

Fluid Lost To Formation | Daily: 3,600 | Cumulative: 13,629

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 2-CUSA; 22-Pool;14-Service; Total=38 No Incidents & No-Non Compliance. Pool Crews Have Worked "43" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand:	63-Sxs. Salt X : 6.5 Drums Scale X : 78 Sxs. MI Gel			API Well No:	56-045-20062
Prod Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 30-Mar-97		

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 8	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 31
Wt: 8.5	PV:	YP:	WL:

Mud Type: Seawater

Prod. Casing Size:	WT:	Grade:	Set @ MD:	TVD:	Cmt. Top @
9.625"	43.5	SS-95	9,415'	7114'	

Liner Size:	Wt:	Grade:	Set@ MD:	TVD:	Top @MD:	TVD:
7"	26	L-80	10,498'	8,102'	9,018'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'	Recovered	

Packer Set At:	Type	Perforations From:	To:	Details
		9,510'	9,570'	.50" Diameter @ 4 SPF
		9,620'	9,830'	.42" Diameter @ 6 SPF
		9,876'	9,998'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
1	6 1/8" bit, 7" casing scraper, xo, 25 jts of 3 1/2" tbg, xo,xo,xo 9 5/8"			
	casing scraper, xo,xo 4 1/2" tubing.	1RR	reed	DM 6332

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed proper lifting techniques, tubing tongs & snub lines.	
06:00	00:00	06:00	Continue to strap, drift & RIH with 4 1/2" tubing. Circulate as needed.	
00:30	06:00	06:30	Service rig & conduct pre-tour inspection.	
09:00	06:30	0:930	Continue to RIH with 4 1/2" tubing, tag top of liner @ 9,018'.	
01:00	09:30	10:30	Rig up to pump down tubing, pump down same.	
03:30	10:30	14:00	Got back oil in returns. Shut down pump. Pumped returns & active pit to production V-9.	
06:00	14:00	20:00	POOH with 4 1/2" tubing. Circulate as needed. Install additional light on rig floor for safety purposes.	
02:00	20:00	22:00	Lay down 6 5/8" Casing scraper & X-0 sub, clear rig floor of same. Rig down 4 1/2" handling equipment & rig up to POOH with 3 1/2" tubing.. POOH with 3 1/2" tubing, laydown X-O sub, 7" casing scraper & 6 1/8" bit.	
01:00	22:00	23:00	M/U Baker bridge plug & RIH with 3 1/2" tubing.	
01:00	23:00	24:00	Rig down 3 1/2" handling equipment & rig up 4 1/2". Begin RIH with 4 1/2" tubing.	
			AM Activity: RIH with 4 1/2" tubing.	

24 hr Summary: Continue RIH with 4 1/2" tubing, circulate as needed. POOH & L/D bit & scraper BHA. RIH with Baker bridge plug.

Fluid Lost To Formation Daily: 1,100 Cumulative: 10,029

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 23-Pool; 7-Service; Total=31 No Incidents & No-Non Compliance. Pool Crews Have Worked "42" Days W/Out LT

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand:	63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel			API Well No:	56-045-20062
Profit Center:	WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	Keith Roberts
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	29-Mar-97

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 7	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Mud Type: Seawater	Wind:	Seas:	Bar:	POB: 29
	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'	Recovered	

Packer Set At:	Type	Perforations From:	To:	Details
		9,510'	9,570'	.50" Diameter @ 4 SPF
		9,620'	9,830'	.42" Diameter @ 6 SPF
		9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data: Number	Type	Serial Number
1	6 1/8" bit, 7" casing scraper, xo, 25 jts of 3 1/2" tbg, xo,xo,xo 9 5/8" casing scraper, xo,xo 4 1/2" tubing.	1RR	reed	DM 6332

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
			Held pre-tour safety meeting: Discussed offloading boat. Nomex clothing.	
06:00	00:00 -	06:00	Change out dies in Foster tongs. Pick up 4 1/2" Hydril tubing-Strap, drift & RIH with same. Pump down kill line @ 2 BPM.	
00:30	06:00 -	06:30	Conducted rig floor inspection & held BOP drill.	
01:00	06:30 -	07:30	Continue to Pick up & RIH with 4 1/2" Hydril 501 tubing.. Pump down back side.	
02:00	07:30 -	09:30	Service rig, Work on koomey unit. Replace check valve on accumulator.	
10:00	09:30 -	19:30	Continue to pick up 4 1/2" tubing & RIH with same. Circulate as needed.	
03:00	19:30 -	22:30	Waiting on tubing. Service rig tongs & counter balance.	
01:30	22:30 -	24:00	Offload tubing from boat. Pick up, strap, drift & RIH with tubing. Circulate as needed.	
			Note: Continuing to RIH with 4 1/2" Hydril 501 tubing.	

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To Dan Knowlson | From Laura Phillips
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Phone # 922 7958 | Phone # 658 4493
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24 hr Summary: RIH with 4 1/2" Hydril 501 tubing, service rig, & wait on 4 1/2" Hydril 501 tubing.

Fluid Lost To Formation Daily: 2,540 Cumulative: 8,929

Hours Charged To: Contractor: 0	Chevron: 24	Travel:	Hours Used: Tongs:	Circ. Equip:	Other Charges: Safety Meeting

Remarks: POB: 1-CUSA: 23-Pool; 5-Service; Total=29 No Incidents & No-Non Compliance. Pool Crews Have Worked "41" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X ; 6.5 Drums Scale X ; 78 Sxs. MI Gel			API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 28-Mar-97

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 6	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.			KB Correction: 16'		Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 27
Mud Type: Seawater			Wt: 8.5	PV:	YP:	Wl:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From - To:	Details
8,892'	Otis "RDH" 9 5/8" Dual Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 8 SPF
		9,876' - 9,996'	.42" Diameter @ 8 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
1	8 1/8" bit, 7" casing scraper, xo, 25 jts of 3 1/2" tbg, xo,xo,xo 9 5/8"			
	casing scraper, xo,xo 4 1/2" tubing.	1RR	reed	DM 6332

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
			Held pre-tour safety meeting; Discussed eye wash stations, use of H2S air packs.	
00:30	00:00 -	00:30	Pump down tubing.	
10:30	00:30 -	11:00	Continue POOH laying down tubing, SCSSV/dual packer assembly, ESP pump & motor.	
02:00	11:00 -	13:00	Rig down Hambros, clear rig floor of tubing equipment & clean oil off rig floor.	
01:30	13:00 -	14:30	Prepare rig floor to make up bit & scraper BHA. Make up same.	
01:30	14:30 -	16:00	RIH with BHA and 3 1/2" tbg to 786'.	
01:00	16:00 -	17:00	Make up test assembly on tubing hanger.	
02:00	17:00 -	19:00	Attempt to test upper & lower pipe rams and annular to 250/3000 psi with 4 1/2" tubing. Able to get low test on all rams, but high test leaks off 100 Psi in 5 minutes. Tighten up connections & retest. No visible leaks. Still unable to get high test. Possibly leaking passed tbg hanger.	
02:00	19:00 -	21:00	Pull tubing hanger and replace with test plug. Set same in well and secure with hold-downs.	
01:00	21:00 -	22:00	Test upper and lower pipe rams and annular to 250/3000 PSI with 4 1/2" tubing to Chevron and MMS specs using seawater. Held each test 5 minutes.	
02:00	22:00 -	24:00	Back out donut screws and pull test plug. Lay down same. Break down test head. Make up 9 5/8" casing scraper on top of 3 1/2" tubing. Measure, P/U drift and RIH with 4 1/2" tubing.	
			Note: MMS on board for inspection, Bob Menae.	
			Note: no bands or clamps lost in hole.	

24 hr Summary: Finish POOH L/D 3 1/2" tubing, jewelry & ESP pump & motor. Test 4 1/2" BOPE.

Fluid Lost To Formation Daily: 3,024 Cumulative: 6,389

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 23-Pool; 3-Service; Total=27 No Incidents & No-Non Compliance. Pool Crews Have Worked "40" Days W/Out LT

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand:	63-Sxs. Suff X : 6.5 Drums Scale X : 78 Sxs. Mi Gel			API Well No:	56-045-20062
Profit Center:	WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	Keith Roberts
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	27-Mar-97

C-1 Frac.xls

Chevron Point Arguello OCS-P 0460 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 5	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133' | Wind: | Seas: | Bar: | POB: 29 | Wt: 8.5 | PV: | YP: | Mud Type: Seawater

Prod. Casing Size:	WT:	Grade:	Set @ MD:	TVD:	Cmt. Top @
9.625"	43.5	SS-95	9,415'	7114'	

Liner Size:	Wt:	Grade:	Set @ MD:	TVD:	Top @ MD:	TVD:
7"	26	L-80	10,498'	8,102'	9,018'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From: - To:	Details
6,692'	Otis "RDH" 9 5/8" Dual Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No: Details:

Post-it® Fax Note 7671 | Date | # of pages ▶ 1

To	Dan Knowlson	From	Laura Phillips
Co./Dept.	MMS - SM	Co.	Chevron
Phone #	922 7958	Phone #	658 4493
Fax #	925 8546	Fax #	658 4405

Hrs.	(From - To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Service Code Area
		Held pre-tour safety meeting: Discussed H2S Alarms; electrical hazards	
01:00	00:00 - 01:00	R/D circulating lines from tbg. POOH w/SSSV and lay down same.	
08:30	01:00 - 09:30	Continue POOH, pressure washing and laying down production tubing and spooling control line and ESP cable. Found holes in control line near 2108', 2170', 2232', 2604.	
00:30	09:30 - 10:00	Platform H2S alarm. Mask up and secure well. Lost platform power. Start emergency genset. Wait on production to restore power. Stand down from alarm.	
14:00	10:00 - 24:00	Continue POOH, laying down production tbg and spooling control line and ESP cable.	
		NOTE: ESP cable has cracks in the armor coating every foot or so. Some places cable is swelled to twice the original diameter. Cable releasing small amounts of H2S at surface. Swelling started about 3900' and below.	
		Note #2: No bands or clamps lost in hole.	
		Note #3: ESP cable appears blown out 1' above splice at packer.	
		Activity at 06:00: Layed down packer and laying down last 15 joints between packer and pump.	
		Note: MMS on board for inspection.	

24 hr Summary: Cont POOH, cleaning, L/D Prod tbg, spooling control line & ESP cable. Respond to Platform H2S alarm. Cont POOH.

Fluid Lost To Formation | Daily: 3,000 | Cumulative: 3,365

Hours Charged To				Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:		Safety Meeting

Remarks: POB: 1-CUSA; 23-Pool; 5-Service; Total=29 No Incidents & No-Non Compliance. Pool Crews Have Worked "39" Days W/Out LTA

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand:	63-Sxs. Sulf X : 6.6 Drums Scale X : 78 Sxs. MI Gel			API Well No:	56-045-20062
Profit Center:	WBU/PC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	Keith Roberts
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	26-Mar-97

C-1 Prelude

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 3	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 25
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set @ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From: - To:	Details
6,692'	Otis "RDH" 9 5/8" Dual Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620' - 9,630'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

SHA No:	Details:

Post-it® Fax Note 7671 Date # of pages ▶ 1

To Dan Knowlson From Launa Phillips

Co./Dept. MMS - SM Co. Chevron

Phone # 922 1958 Phone # 658 4493

Fax # 925 8546 Fax # 658 4405

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed checking power tongs out completely. Held rig floor	
	-		safety meeting to discuss pulling pipe. Discussed situations that might be encountered as for	
	-		as pressures & H2S.	
	-			
07:30	00:00 -	07:30	Continue testing BOPE with seawater to Chevron & MMS regulations- 250 PSI low ; 3,000	
	-		PSI high, held test for 5-min. Function tested pipe rams.	
01:00	07:30 -	08:30	Break out & lay down test assembly.	
01:00	08:30 -	09:30	Make up landing joint & screw into doughnut.	
01:30	09:30 -	11:00	Pulled on tubing to 150 K. Had to shut down due to alarms going off in doghouse.	
00:30	11:00 -	11:30	Continued pulling on packer. Packer free @ 175K.	
02:30	11:30 -	14:00	Prepare rig to pull tubing.	
04:00	14:00 -	18:00	Attempt to pull tubing, hanger hung up in pitcher nipple. ID of pitcher nipple too small to pull	
	-		hanger through. Rig up to pump on tbg. Attempted to hang tubing hanger off in well head.	
	-		Attempt unsuccessful, tubing would not go down.	
02:00	18:00 -	20:00	Work tubing hanger-Attempt unsuccessful. Pump down tubing @ rate of 4 Bbbl per minute.	
	-		Encountered heavy oil returns @ 19:50 hours. Closed annular & pumped oil to production	
	-		thru V-9 @ 20:00 hours W/ 2 Bbls per minute.	
03:00	20:00 -	23:00	Continue to pump to production W/annular closed W/partial returns @ 2 Bbl/min.	
01:00	23:00 -	24:00	Pump down annulus @ 2 Bbls per minute W/no returns. Work tubing.	
	-			
	-			
	-			
	-		A.M. Continue to pump water in well & begin stripping off rotary table and picture nipple.	
	-			
	-			
	-		NOTE: Mr. Roy Bobbitt of the MMS inspected the drilling operations.	
	-			
	-			

24 hr Summary: Finish testing BOPE. Released packer. Circulated oil to production.

Fluid Lost To Formation Daily: 700 Cumulative: 700

Hours Charged To			Hours Used		Other Charges
Contractor: 10	Chevron: 14	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 21-Pool; 7-Service; Total=29 No Incidents & No-Non Compliance. Pool Crews Have Worked "37" Days W/Out LTA

Chevron %: 28.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No: 56-045-20082
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 24-Mar-97	

C-1 Frac.xls

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 4	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.6 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 29
Wt: 8.5	PV:	YP:	WL:

Mud Type: Seawater

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cml. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From	To	Details
8,692'	Otis "RDH" 9 5/8" Dual Packer	9,510'	9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
		9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:

Post-It® Fax Note 7671 Date # of pages ▶ 1

To Don Knowlson	From Laura Ah Hips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 7958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

Hrs.	(From - To)	hh:mm	Ops. - Activity Covering 24 Hours Ending at Midnight	Area
	-		Held pre-tour safety meeting: Discussed shut in procedures W/ESP cable. Handling SSSV.	
	-			
04:30	00:00	- 04:30	Circulate well, taking oily returns to production. Waiting on equipment. Unloaded Woodco	
	-		bowl & slips & pitcher nipple.	
06:00	04:30	- 10:30	Rig up to pull rotary table & pitcher nipple. Production issued work permit to remove flow line	
	-		outlet from pitcher nipple. Remove rotary table & pitcher nipple. Lay down pitcher nipple.	
01:30	10:30	- 12:00	Set slips on top annular. Production electrician disconnected cable from tubing hanger.	
04:00	12:00	- 16:00	Rebuild pitcher nipple with full bore ID.	
01:30	16:00	- 17:30	Make up rebuilt pitcher nipple. Re-install rotary table.	
00:30	17:30	- 18:00	Pump down tubing @ 3.5 BPM. Pumped total of 65 Bbls.	
02:00	18:00	- 20:00	Continue to pump down tubing. Rigged up Hambros sheaves for pulling control line.	
00:30	20:00	- 20:30	Held rig floor safety meeting to discuss operations pulling tubing & well control procedures.	
03:00	20:30	- 23:30	POOH standing back 3 1/2" tubing cutting bands, spooling control lines & ESP cable to SSSV.	
00:30	23:30	- 24:00	Rig up & circulate through SSSV @ 4 BPM prior to L/D same.	
	-			
	-			
	-			
	-			
	-		Note: (Rig Down Time) 10-Hours to pull & modify pitcher nipple.	
	-			
	-		AM Activity: Continuing to L/D tubing & spool ESP cable & control lines. Pressure washing &	
	-		steam cleaning oil from tubing.	
	-			
	-		Note: Deep set control line parted @ flat spot above 1st gas lift mandril. Had to re-sheave	
	-		line.	
	-			
	-			
	-			

24 hr Summary: Rig down pitcher nipple & modify same. Circulate well. Install rebuilt pitcher nipple. POOH with tubing , cut bands & spool control line & ESP cable.

Fluid Lost To Formation Daily: 665 Cumulative: 1,385

Hours Charged To			Hours Used		Other Charges
Contractor: 10	Chevron: 14	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 21-Pool; 7-Service; Total=29 No Incidents & No-Non Compliance. Pool Crews Have Worked "38" Days W/Out LT

Chevron %: 28.32	H_2S: None	Accidents: None

Materials On Hand: 63-Sxs. Sulf X ; 8.6 Drums Scale X ; 78 Sxs. MI Gel				API Well No: 56-045-20062
Profit Center: WBU/PC	Rig: Pool 411	Rig Phone: 806-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 25-Mar-97	

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 2	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 25
Mud Type: Seawater	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @

Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	601 Hyd.	7,290'		

Packer Set At:	Type	Perforations From: - To:	Details
8,892'	Otis "RDH" 9 5/8" Dual Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,820' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed testing BOPE,1st day operation on well work, take time	
	-		to do job safely.	
	-			
15:00	00:00	- 15:00	Install Class IV BOPE. Rig Up choke & kill lines, install picture nipple & koomey lines.	
	-		Chain BOPs to sub base.	
	-			
01:30	15:00	- 16:30	Pressure up accumulators, change fittings on stack & fix leaks.	
	-			
01:30	16:30	- 18:00	Rig up test pump & lines, fill stack. Production checked V-9 on well head.	
	-			
06:00	18:00	- 24:00	Test BOPE per MMS & CUSA regulations, 250 PSI low & 3000 PSI , held each f/ 5 min.	
	-			
	-			
	-			
	-		A.M. = Finish testing BOPs, release packer and POOH.	
	-			
	-			
	-		Note: Held platform H2S drill @ 17:00.	
	-			
	-			
	-			
	-			
	-			
	-			
	-			
	-			
	-			
	-			

24 hr Summary: Install class IV BOPE, choke & kill lines. Secured BOP'S to sub base. Rigged up test pump & test lines. Filled stack. Testing BOPE as per Chevron & MMS regulations.

Fluid Lost To Formation Daily: Cumulative:

Hours Charged To				Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:		Safety Meeting

Remarks: POB: 1-CUSA; 21-Pool; 3-Service; Total=25 No Incidents & No-Non Compliance. Pool Crews Have Worked "36" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand:	63-Sxs. Sulf X : 6.6 Drums Scale X : 78 Sxs. MI Gel			API Well No:	56-045-20062
Profit Center:	WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	J. W. DeGraffenreid
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	23-Mar-97

C-1 Frac Job

R24

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

DISTRICT
Submit original plus two copies with one copy marked "Public Information"

Releasable to public
Name: LLV Date: 10/31/03

OMB No. 1010-0046
Expiration Date:

1. 1ST COMP. x RECOMPLETION ABANDONMENT CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-20582-01/S01	3. WELL NO. S-28WB01	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) NUEVO ENERGY 201 S. BROADWAY SANTA MARIA, CA 93455
8. FIELD NAME Santa Clara	9. UNIT NUMBER 891012369A	10. MMS OPERATOR NUMBER 01546	

COPY TO REGION

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1050322.97 Y=753371.72 723'FWL 6948'FNL	P-0215	6B	486D	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=1050311 Y=753213 711'FWL 7107'FNL	P-0215	6B	486D	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	980321	980322	971219

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
971219	980205	MD 14610' TVD 8672.18'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
14349'	14409'	8465'	8512'
13896'	13956'	8118'	8163'

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	LP-M, LP-N

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
26"	20"	94#	K-55	841'	Class "G"	950 sks
22"	16"	75#	J-55	1674'	Class "G"	1314 sks
20"	13 3/8"	54.5#	K-55	3599'	Class "G"	1420 sks
12 1/4"	9 5/8"	47#	N-80	8841'	Class "G"	1300 sks

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
6 1/8"	2 7/8"	6.5#	L-80	13805'	N/A
6 1/8"	2 3/8"	4.7#	L-80 EUE	13971'	13805'

FORM MMS -125 (August 1993) (Replaces Form MMS-330 which will not be used)

CONFIDENTIAL

Releasable to public
Name: RW Date: 10/31/13

WELL SUMMARY REPORT

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
9 7/8"	7"	26#	P110 Hyd.	6392'	13400'	Class "G"	1096 sks
6 1/8"	5"	15#	L-80 Hyd.	12860'	14608'	Class "G"	135 sks
5"	2 3/8"	4.7#	N-80	13889'	13969'	N/A	N/A
5"	2 3/8"	4.7#	N-80	14343'	14424'	N/A	N/A

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
7251'	7470'	BP set @ 7470' w/Class G	78 sks
14349'	14409'	Frac pack w/ 20/40 gravel	64,000 lbs
13896'	13956'	Frac pack w/ 20/40 gravel	83,000 lbs

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

TP Log f/13338' to 14580'; Platform Express f/14580' to 13397'; USIT/CBT/GR/CCL f/14520' to 12846'; GR/CCL f/14370' to 14000' Directional Survey f/14610' to 0'; Mud Logs

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
LP-K1	13575'	7867'	13732'	7990'	Sandstone, siltstone, oil, gas, water
LP-L	13732'	7990'	13895'	8117'	Sandstone, siltstone, oil, gas, water
LP-M	13895'	8117'	14242'	8381'	Sandstone, siltstone, oil, gas, water
LP-N	14242'	8381'	14454'	8548'	Sandstone, siltstone, oil, gas, water

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
LP-B	10402'	6289'	LP-K	13410'	7741'
LP-D	11942'	6923'	LP-L	13732'	7990'
LP-F	12788'	7302'	LP-M	13895'	8117'
LP-G	12932'	7391'	LP-N	14242'	8381'

26. CONTACT NAME Bob Davis	27. TELEPHONE NUMBER (805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name) John M. Deacon	29. TITLE as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE 980422

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain geologic, well test, and well-completion equipment data. This information will be used by MMS District Supervisors to ensure that they have accurate data and information on the wells under their jurisdiction and to ensure compliance with approved plans. It is also used to evaluate remedial action in the event of well-equipment failure or well-control loss. Response to this request is mandatory (43 U.S.C. 1334). Properietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0046), Washington, DC 20503

Releasable to public
Name: RW Date: 10/31/13

Torch Operating Company

Completion Procedure
S-28 Sidetrack
Santa Clara Field
OCS P-0216
Offshore California
October 23, 1997

Prepared by: Bob Davis

Objective: Complete as a flowing, gravel pack screened, LPL-N oil producer.

Estimated time to complete: 3 weeks

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft
Cond. Csg	20"	Surf- 841	94.0	19.124	18.936	0.3552
Surf. Csg	16"	389- 1674	75.0	15.124	14.936	0.2222
Int. Csg.	13-3/8"	Surf- 3599	68.0	12.415	12.259	0.1457
Prod. Csg. 9-5/8"	Surf- 6000 *	47.0	8.681	8.525	0.0732	
Int. Lnr.	7-5/8" *	6000- 13542	33.7	6.765	6.640	0.0444
Prod. Lnr.	5-1/2" **	13000-14618				

* Estimated top of window
** Estimated

1. NU 5000# BOEs with variable rams. Change lower pipe rams to close against production tubing. Pressure test BOEs to MMS specifications.
2. Pick up as much of the 2-7/8" or 3-1/2", N-80 production string as possible, and stand back. Pick up 4-1/2", IF drillpipe to use for work string.
3. Pick up and RIH with 4-3/4" bit, ~1700' of rented 2-7/8", IF drill pipe, ~7000' of 3-1/2" IF drill pipe and 4-1/2" drill pipe to 5-1/2"liner top. Drill through liner hanger.
4. RIH with WSO tool and negative test 7-5/8"x5-1/2" liner lap.

Note: This test will allow the flexibility to set a production packer at the base of the 7-5/8" casing, should it become necessary.

5. RIH with 4-3/4" bit on tapered work string. Circulate out drill in fluid to ED with sea water. On bottom, continue to circulate with filtered sea water and gel sweeps as required, until returns run clear.

Notes:

1. Lengths to depend on actual liner lengths and spacing.

2. Any remaining fill will reduce accuracy of TCP correlation.

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6. POOH with tapered work string and bit.

7. Rig up and run a CBL-VDL-GR Neutron log across the productive interval, tagging and correlating from ED. Squeeze as required for adequate zone isolation between the intervals to be fracture stimulated. Re-correlate to ED after cleaning out from squeeze, if required.

8. RIH with 5-1/2" casing scrapers and brush. Scrape/brush casing and liner from surface to ED. Reverse circulate from ED, with filtered sea water until returns run clear.

9. Fill active pit, reserve pit, and one steam cleaned Baker tank with 13.3 ppg. CaBr2 water. Displace sea water from tubing and casing. Rig up DE filter press and filter entire system to 30 NTU or less. Consult with duty engineer if turbidity appears to be from dissolved material (i.e. rust). POOH with scrapers and brush.

10. RU WLU. Make gauge ring run to ED.

11. Pick up and run in hole with 3-1/8" tubing conveyed perforating assembly with guns loaded to perforate the LPN interval (~250/200 G/N), equipped with Halliburton Omni valve (well test position), Baker Retrievamatic packer and vent valve. Fill with filtered sea water water while RIH. Tag ED with bull plug on TCP assembly and pick up to desired depth. Set service packer.

12. Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Test Halliburton surface flow equipment to 4700 psi. Pressure up tubing to 250 psi. Drop bar to perforate well with **XX** JSPF.

Note: If actual hole angles of over 65° result, consider annular pressure fired guns. Setting pressures should be lower than Omni valve actuation pressures to minimize the chance of prematurely shifting the Omni valve. Alternatively, Omni valve position could be preset so that a single shift will not change the valve operating mode.

13. Allow well to stabilize long enough to record a stable shut in tubing pressure, and then flow the well for 2 hours, per direction of company representative. Monitor well with bubble bucket. Cycle Omni valve to circulating position (perforations isolated) and reverse out tubing with 13.3 ppg. CaBr2 water.

Note: Insure that a pressure gauge is available in the line between the tubing head and the Halliburton manifold to measure true flowing tubing pressure.

14. Cycle Omni valve to well test position and check for flow. If necessary, cycle Omni valve back to circulating position and weigh up with sack material to kill well.

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15. Once well is dead, POOH with TCP assembly. Procedures to mix and pump any required fluid loss pills will follow.

16. Pick up and run in the hole slowly with gravel pack assembly including seal/locator assembly, **XX** gauge wire wrapped screen, SC-1 tool assembly, and washpipe. Minimize the use of pipe dope.

17. Snap into and out of Baker Model D sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight.

Note: Space out workstring to a safe working height prior to snapping into sump packer.

18. Rig up the pumping equipment and test surface lines to 5,000 psi. (In order to achieve the best control of pump rates and pressures while setting the Baker SC-1 Packer, it is advised that the BJ cement pump unit on the platform be used during this operation.)

19. Establish circulation down workstring. Circulate 5 to 10 bbls to clean ball seat in setting tool. Drop back-up packer setting ball and allow it to gravitate to the setting tool. With ball on seat, set gravel-pack packer as per established procedures.

20. Test the Baker SC-1 packer by picking up and setting down 10,000 lbs. Locate neutral weight on packer and pressure test annulus to minimum 1,500 psi.

Note: Annular pressure will also actuate hydraulie release on the service tools.

21. While holding 500 psi on the annulus, slowly pick up crossover tool until pressure indication is noted. This is the reverse position. Mark tubing at surface.

Note: If crossover tool is not released from the packer, rotate 15 turns to the right to actuate back-up release.

22. Reverse circulate to recover packer setting ball.

23. Shift tool to reverse position. Pump 1500 gal. 15% HCl tubing pickle acid mixture to within 2 joints of the packer and reverse out at maximum rate. Isolate acid returns and pump down S-54 annulus.

24. Lower crossover tool to set down desired weight on packer. This is the **Squeeze Position**. Pick up crossover tool ±1 ft and locate the **Circulating Position.** Mark the tubing at the surface for these positions. Lower crossover tool to the squeeze position.

DATAFRAC PUMPING:

Notes:

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* **Have Victory Seahorse tied up to supply water as required during stimulation operations.**
* **S/D to supply enough headsets for driller, toolman, and two TOC representatives**

25. Shift tool to reverse position. Circulate the following DataFRAC fluids to the GP packer in the reverse position. **Expect the same shut in tubing pressure as that seen directly after perforating.**

26. Inject the DataFRAC as per design to be finalized after the analysis of openhole logs. Once the DataFRAC has been performed, a fracture treatment will be optimized as the data directs.

DataFRAC Fluid requirements:

5,000 gals	120 bbls	YF130LG (**XLK 30# Gel**) Calibration Test fluid (X-linked)_
4,300 gals	92 bbls	WF130 (Linear 30# Gel) Step Rate Test Fluid
3,095 gals	73.7 bbls	2% KCl (w/0.2% ASP820) Displacement fluid

The volumes of fluids may be altered slightly if this would benefit operations of tools and/or pumping, or for a significantly different perforated interval.

Calibration Test - 119 bbls YF130LG at 15 bpm (7.9 min)

Rate Test (2 minutes per stage):

1 bpm 2 bbls

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2 bpm	4 bbls
3 bpm	6 bbls
4 bpm	8 bbls
6 bpm	12 bbls
8 bpm	16 bbls
10 bpm	20 bbls
12 bpm	24 bbls
Total:	92 bbls

27. Shut down - monitor pressure fall off. Do not alter the pressure on the casing or work string

NOTES:

Add another Calibration test or step rate test as necessary

The above schedule is only recommended volumes and can be altered as necessary to suit the formation response .

StimPAC PUMPING:

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Section 1: Expected Propped Fracture Schedule

Job Description

Stage Name	Pump Rate (bbl/min)	Fluid Name	Stage Fluid Volume (gal)	Gel Conc. (lb/mgal)	Prop. Type and Mesh	Prop. Conc. (PPA)
PAD	15.0	YF130LG	1000	30		0.0
1.0 PPA	15.0	YF130LG	1000	30	Econo Prop 20/40	1.0
3.0 PPA	15.0	YF130LG	410	30	Econo Prop 20/40	3.0
4.0 PPA	15.0	YF130LG	390	30	Econo Prop 20/40	4.0
5.0 PPA	15.0	YF130LG	381	30	Econo Prop 20/40	5.0
6.0 PPA	15.0	YF130LG	370	30	Econo Prop 20/40	6.0
7.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	7.0
8.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	8.0
9.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	9.0
10.0 PPA	15.0	YF130LG	350	30	Econo Prop 20/40	10.0
11.0 PPA	15.0	YF130LG	340	30	Econo Prop 20/40	11.0
12.0 PPA	15.0	YF130LG	1350	30	Econo Prop 20/40	12.0
FLUSH	8.0	2% KCL w/ Fr	3394	0		0.0

Fluid Totals

6671 gal	of	YF130LG
3394 gal	of	2% KCL w/ Fr

Proppant Totals

40,000 lb	of	Econo Prop 20/40

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- Maintain casing pressure (to be confirmed with TOC representative) at 2000 psi or more during pumping of the StimPAC.
- Sand Silo to be loaded with enough excess proppant (+/- 5,000 lbs excess) so that total proppant amount designed can be pumped at design rates.
- Rate will be ramped down during flush. Actual rates will be determined after the dataFRAC.

Pressure limits while reversing must be discussed before pumping starts. Use the following as a reference to hydrostatic pressure which may be encountered.

14.00 ppa slurry has a density of 13.73 ppg

12.00 ppa slurry has a density of 13.34 ppg

11.00 ppa slurry has a density of 12.95 ppg

10.00 ppa slurry has a density of 12.67 ppg

8.00 ppa slurry has a density of 12.06 ppg

6.00 ppa slurry has a density of 11.35 ppg

MINIMIZE TIME after shut down to start reverse circulation. No more than 10 minutes.

Do NOT over displace.

If the bleed off after a screen out is fast (possible indication of limited blank fill), do not move to the reverse position until trying to squeeze slurry into the blank section at least once. This must be agreed upon by Dowell tool supervisor, pumping supervisor and the TOC engineer. Maximum re-stress pressure must be calculated before start of frac.

28. Once a screen out has been achieved, bleed off work string and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with 13.3 ppg. CaBr2 water. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of CaBr2 water.

29. If a circulation pack is required to fill screen, use the BJ pump truck and the completion fluid.

30. When screen is packed, pull uphole until end of washpipe is 10 ft below Knock-Out Isolation Valve. Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize. Slowly pull uphole in one continuous movement until the end of the washpipe is 10 ft above flapper valve.

Note: Do not slack off, as any downward movement while the end of the washpipe moves through the valve can damage the flapper and seat.

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31. Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

NOTE: If KOIV does not appear to be holding, attempt to apply ± 200 psi to assist seal. If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer.

32. L/D GP packer service tool.

33. Pull out of the hole with workstring and Baker SC-1 Crossover Tool and washpipe.

34. Pick up and run in hole with 3-1/8" tubing conveyed perforating assembly with guns loaded to perforate the LPN interval (~250/200 G/N), equipped with Halliburton Omni valve (well test position), Baker Retrievamatic packer and vent valve. Fill with filtered sea water water while RIH. Tag ED with bull plug on TCP assembly and pick up to desired depth. Set service packer.

35. Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Test Halliburton surface flow equipment to 4700 psi. Pressure up tubing to 250 psi. Drop bar to perforate well with **XX** JSPF.

Note: If actual hole angles of over 65° result, consider annular pressure fired guns. Setting pressures should be lower than Omni valve actuation pressures to minimize the chance of prematurely shifting the Omni valve. Alternatively, Omni valve position could be preset so that a single shift will not change the valve operating mode.

36. Allow well to stabilize long enough to record a stable shut in tubing pressure, and then flow the well for 2 hours, per direction of company representative. Monitor well with bubble bucket. Cycle Omni valve to circulating position (perforations isolated) and reverse out tubing with 13.3 ppg. CaBr2 water.

37. Cycle Omni valve to well test position and check for flow. If necessary, cycle Omni valve back to circulating position and weigh up with sack CaBr2 to kill well.

38. Once well is dead, POOH with TCP assembly. Procedures to mix and pump any required fluid loss pills will follow.

39. Run in with Baker Retrieving Head on workstring. Tag Baker SB Plug. Reverse out any perforating debris, latch into SB plug and retrieve. Pull out of the hole.

40. Pick up and run in the hole slowly with gravel pack assembly including snap latch/seal/locator assembly, **XX** gauge wire wrapped screen, SC-1 tool assembly and washpipe. Minimize the use of pipe dope.

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41. Snap into and out of Baker SC-1 sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight.

Note: Space out workstring to a safe working height prior to snapping into SC-1 packer.

42. Repeat Stim-Pac procedures for the second "M" interval. Isolate below a second packer, as described above.

43. If deemed prospective, perforate third "L" interval as described above. Repeat preceding step for the subject interval.

44. RIH with snap latch seals, 4-1/2" Pruett chamber (tubing sensing), 1 joint of 2-7/8" or 3-1/2" tubing,, 2-7/8" or 3-1/2" tubing (carrying 1/8" capillary tubing line) to ~500' from surface, tubing retrievable SCSSV, and 2-7/8" or 3-1/2" tubing to surface. Tag top SC packer and POOH to directly on top of packer. Displace tubing with filtered 6% KCl water (send completion fluid returns to shore storage) and sting into snap latch seal assembly. Schematic to be supplied.

Note: Observe pump pressure when fluid turns the corner during displacement. Choke returns to maintain this pressure until fluid is fully displaced.

45. Open SCSSV and flow well per engineering direction, with low initial drawdown. Keep well on platform hotsheet until relieved.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
		AFE: # 645007 WORK PERFORMED: REDRILL
		(CONTINUED FROM S-22RD; RENAMED S-60RD)
/08/94	6991'	Pulled out of hole with Baker setting tool. Ran in hole with whipstock, starting mill and MWD. Oriented whipstock and set face at 95° left of high side. Top of whipstock at 6970', KOP 6982'. Milled from 6970' - 6973'. Pulled out of hole. Ran in hole with window milling assembly. Milled window from 6970' - 6982' and formation to 6991'. Pulled out of hole.
/09/94	6991'	Pulled out of hole. Ran in hole with dressing mill assembly. Dressed window from 6970' - 6982'. Cleaned out to 6991'. Circulated and conditioned. Performed LOT (15.1 ppg EMW). Pulled out of hole. Left window, string and watermelon mills in hole. Total fish 8.21' with top at 6982'. Ran in hole with fishing tools (5-5/8" grapple). Worked over fish. Pulled out of hole.
/10/94	6992'	Pulled out of hole (no recovery). Redressed overshot with 5-3/4" grapple. Ran in hole with fishing assembly #2. Engaged fish and pulled loose. Pulled out of hole (100% recovery). Ran in hole with window dressing assembly. Dressed window from 6970' - 6982'. Cleaned out to 6991'. Milled formation to 6992'. Pulled out of hole. Ran in hole with drilling BHA #1.
/11/94	7923'	Ran in hole to 6940'. Washed to 6952'. Directionally drilled to 7642'. Made wiper trip to shoe. Drilled to 7923'.
/12/94	8453'	Drilled from 7923' - 8453'. Circulated and pulled out of hole. Tested BOPE. Ran in hole to 6800'. Circulated.
/13/94	9045'	Circulated at 6800'. Ran in hole. Washed and reamed from 8323' - 8453'. Drilled to 8825'. Circulated bottoms up for 300 fph drilling break. Well static. Drilled to 9045'. Well flowing. Shut in. 20 bbls gain, SIDP = 150 psi, SICP = 250 psi. Circulated 11.2 ppg mud on choke. SIDP, SICP = 150 psi. Raised MW to 11.7 ppg and circulated. Pressure = 0 psi, well static. Opened well and circulated. Mud cut to 10.5 ppg. Shut in with 150 psi on casing. Circulated on choke until mud stabilized at 11.9 ppg. SICP = 175 psi. Built MW to 12.6 ppg.
/14/94	9045'	Worked pipe. Weighted up to 12.6 ppg. Circulated 12.6 ppg mud - well static. Wiped hole to 8110'. Ran in hole to 9045'. Circulated and pulled out of hole. Made up underreamer and ran in hole. Underreamed to 10" from 7021' - 7113'.
/15/94	9045'	Underreamed to 10" from 7113' - 7983'. Circulated and pulled out of hole. Changed out underreamer. Ran in hole. Washed and reamed from 7910 - 7983'. Underreamed to 8032'.
/16/94	9045'	Underreamed from 8032' - 8345'. Lost 500 psi pump pressure, 15,000# weight. Pulled out of hole. Stabilizer box parted leaving 71.05' of fish in hole (underreamer, bit sub, X-O, 2 drill collars, stab). Top of fish at 8275'.. Made up and ran in hole with overshot. Grapple hit top of whipstock at 6971' - unable to work by. Pulled out of hole. Ran in hole with 8-1/2" bit - unable to work past top of whipstock. Pulled out of hole.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
/17/94	9045'	Made up window mill assembly and ran in hole. Milled from 6969' - 6973'. Hung up while rotating at 6973'. Worked junk up hole to 6940' and freed mills. Pulled out of hole and checked blind rams. Made up window mill and worked through window to 7031'. Pulled out of hole. Made up 3 mill assembly and ran in hole. Milled at 6971'.
/18/94	9045'	Milled to 6982'. Slid to 7013'. Circulated and pulled out of hole. Made up single window mill and ran in hole. Washed from to 8188' to top of fish at 8277'. Circulated and pulled out of hole. Made up overshot and ran in hole. Engaged fish at 8277'. Picked up to 200,000#. Slipped off. Unable to re-engage. Pulled out of hole. Made up 6.625" spiral grapple and packoff.
/19/94	9045'	Ran in hole with 8-1/8" overshot. Engaged fish at 8277'. Jarred on fish. Released from fish. Pulled out of hole to 8090'. Circulated and pulled out of hole. Made up fishing assembly. Ran in hole. Engaged fish at 8277'. Jarred on fish. Overshot failed. Pulled out of hole.
/20/94	9045'	Pulled out of hole. Spiral grapple stayed in hole. Made up 8-1/2" short catch overshot and ran in hole. Engaged fish at 8277'. Jarred on fish. Spotted 50 bbls of Versa-clean around fish. Jarred on fish. Rigged up wireline. Made up and ran in hole with freepoint. Stopped at 2942'. Pulled out of hole. Changed springs and added sinker bars. Ran in hole and measured freepoint at 8282' (bottom connection on stabilizer). Ran in hole with string shot at 8282'. Worked left hand torque and fired string shot. Lost torque. String back off at 5000'. Pulled out of hole with wireline. Screwed back into drill pipe. Ran in hole with string shot.
/21/94	9045'	Jarred on fish. Ran in hole with string shot to 8282'. Fired shot. Appeared to back off overshot machine thread. Retighten jar on fish. Ran freepoint. Stretched at fish - no torque. Jarred on fish. Ran freepoint - no improvement. Picked up kelly and worked fish with hard rotation and stretch. Ran freepoint (40% free at stabilizer). Ran in hole with string shot to 8282' and attempted to back off stabilizer - negative.
/22/94	9045'	Circulated 255 bbls of seawater and attempted to free fish - negative. Kill well with 12.7 ppg mud. Rigged up wireline. Raised MW to 12.9 ppg. Worked overshot loose while running in hole with string shot. Pulled out of hole with string shot. Rigged down wireline. Pulled out of hole. Made up 10 stands of 2-7/8" tubing on drill pipe and ran in hole to 8277'. Circulated and equalized 237 ft^3 Class "G" cement. Cement in place at 2330 hours. Pulled out of hole to 7778' and circulated.
/23/94	8136'	Circulated and pulled out of hole. Ran in hole and tagged top of cement at 7857'. Time drilled to 7898'. Drilled to 8136'.
/24/94	9012'	Drilled from 8136' - 8294'. Circulated and wiped hole to 7452'. Worked tight hole from 8166' - 8073'. Drilled to 8701'. Circulated. Made wiper trip to shoe. Ran in hole to 8660'. Safety reamed to 8701'. Drilled to 9012'.
/25/94	9136'	Directionally drilled from 9012' - 9136'. Circulated and pulled out of hole. Made up underreamer and ran in hole. Gauge reamed from 7021' - 7731'.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
/26/94	9136'	Gauge reamed from 7735' - 7871'. Underreamed from 7871' - 8003'. Circulated and pulled out of hole. Tested BOPE. Ran in hole with underreamer. Washed and reamed from 7971' - 8003'. Underreamed to 8384'.
/27/94	9136'	Underreamed to 8634'. Pulled out of hole for possible washout. Found underreamer body washed out. Checked blind rams. Made up underreamer and ran in hole to 6900'. Repaired rotary table. Ran in hole. Washed and reamed from 8544' - 8634'. Underreamed to 9134'. Circulated and conditioned mud.
/28/94	9136'	Pulled out of hole and laid down underreamer. Ran 58 joints, 2594.71, 7-5/8" 29.7# N-80 Hydril Supreme LX. Set shoe at 9125', top of hanger at 6530'. Circulated and conditioned. Rigged up cementers. Tested lines to 5000 psi. Pumped 5 bbls of water, 40 bbls of weighted preflush and cemented casing with 915 ft^3 Class "G" cement with 1.2% FL-62, .2% CD-32, and .2% R-3. Bumped plug with 2000 psi, increased to 3000 psi and set hanger. Released from hanger and pulled out of hole. Made up clean out assembly and ran in hole to 6527'.

7-5/8" 29.7# N-80 HYDRIL SUPREME CASING DETAIL

FROM	TO	LENGTH	JTS	DESCRIPTION
9124.71	9124.21	0.50		Baker Float Shoe
9124.21	9080.95	43.26	1	7-7/8" 29.7# N-80 Hydril Supreme LX
9080.95	9080.95	0.00		Baker Insert Type Float Collar
9080.95	9036.64	44.31	1	7-5/8" 29.7# N-80 Hydril Supreme LX
9036.64	9036.64	0.00		Baker Insert Type Landing Collar
9036.64	6544.67	2491.97	56	7-5/8" 29.7# N-80 Hydril Supreme LX
6544.67	6530.00	14.67		Brown Type Hydr. Set Hanger
			58	Total

/29/94	9136'	Circulated out cement contaminated mud. Pulled out of hole. Rearranged tubulars in derrick. Ran in hole with 6-3/4" bit to 9037' (landing collar). Conditioned mud. Pulled out of hole to 6481'. Attempted to pressure test 9-5/8" X 7-5/8" lap. Pumped away at 5 BPM at 1000 psi. Pulled out of hole.
/30/94	9136'	Continued pulling out of hole. Ran in hole with RTTS squeeze tool and set at 6280'. Pumped 197 ft3 Class "G" cement mixed with .7% FL-62, .2% CD-32. Squeezed 170 ft3 into lap leaving top of cement at 6481'. Pulled out of hole. Ran in hole with 8-1/2" clean out BHA. Waited on cement.
/01/94	9136'	Cleaned out cement stringers from 6295'. Drilled firm cement 6485' - top of liner at 6530'. Pressure tested lap to 3000 psi for 30 minutes. Pulled out of hole. Ran in hole with 6-3/4" clean out BHA. Cleaned out cement from 6530' - 6642' and stringers from 6675' - 6680' and 7330' - 7335'. Ran in hole to 9022'. Circulated to 9036'. Conditioned mud. Pulled out of hole. Made up WSO tools.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
5/02/94	9136'	Made and ran in hole with WSO tools. Rigged up test head and set packer at 6507', with tail at 6517'. Opened tools - faint blow. Monitored annulus (static). Closed tool. Unset packer and observed well. Pulled out of hole. Laid down WSO tools. Rigged up and ran in hole with wireline. Ran CBL/VDL/GAMMA RAY/CCL from 9036' - 6530'. Rigged down logging tools. Ran in hole with perforating guns - could not pass liner top at 6530'. Pulled out of hole and modified bullnose on perf guns. Ran in hole. Positioned guns and fired (9) 1/2" HPF, 60° phasing from 8908' - 8913'. Pulled out of hole. Rigged down wireline. Made up 6-3/4" bit and scraper.
5/03/94	9136'	Ran in hole to 9022'. Changed well fluid over to filtered seawater. Well started to flow. Shut well in. Shut in pressure = 1180 psi. Maintaining 1180 psi on casing and drill pipe. Made up 300 bbls 12.3 ppg brine.
5/04/94	9136'	Monitored well pressure build-up and worked on rotary table. Final pressure build-up = 1210 psi. Rigged up cementers and pressure tested lines. Performed injection test: less than 1/4 BPM at 3000 psi. Monitored bleed off: 1100 psi in 15 minutes. Bled well down. Pulled out of hole to 8402'. Removed IBOPE. Flowed well to trip tank. Rate = 1 bbl/5 minutes slowing to 1 bbl/15 minutes. Injected 12 bbls at 1/2 BPM and 3000 psi. Monitored bleed off. Surged well - no significant improvement in flowback. Pickled workstring with 6 bbls of HCL. Pumped 18 bbls of HCL into perfs at 8909' - 8913'. Final injection 1 BPM at 3000 psi.
5/05/94	9136'	Shut in well with 15% HCL in place. Soaked for 2 hours. Opened up and flowed 30 bbls. Ran in hole to 8952' and reversed out. Pulled out of hole to 8397'. Flowed well to trip tank. Performed injection test. Pumped 50 bbls at 2 BPM at 2950 psi. Surged well back by bleeding through choke. Attempted to inject - negative. Ran in hole and tagged fill at 8901'. Cleaned out to 8952'. Circulated and pulled out of hole to 8660'. Performed injection test. Pumped 40 bbls at 3 BPM at 2950 psi. Shut in well. Bled to 1700 psi in 30 minutes. Opened well and ran in hole to 8945' (7' additional fill). Cleaned out to 9022'. Circulated and pulled out of hole to 8801'. Closed well in. Pressure built to 920 psi.
5/06/94	9136'	Shut well in. Pressure built to 990 psi. Build 12.7 ppg mud volume. Bled well down through choke. Opened well. Ran in hole from 8801' - 9022' - no fill. Changed well fluid over to 12.7 ppg THIX-SAL fluid. Checked well for flow (negative). Pulled out of hole.
5/07/94	9136'	Pulled out of hole laying down 3-1/2" drill pipe. Tested BOPE to 200 psi/2100 psi. Annular 250/1450 psi. Measured, picked up (2520') and rattled 3-1/2" tubing. Ran in hole with 3-1/2" tubing and 5" drill pipe combo string. Tagged fill at 8946'. Cleaned out fill and pickled tubing by pumping 10 bbls 3% KCL water, 1000 gallons 15% HCL followed by 110 bbls seawater.

LEASE OCS P-0216 WELL NO. S-60RD FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
/08/94	9136'	Pulled out of hole to 8174'. Installed safety valve and inside BOPE valve. Ran in hole to 8995'. Filled work string with 3% KCL and spotted 20 bbls across perfs. Pulled out of hole to 8714'. Removed inside BOPE valve and rigged up Halliburton. Set packer at 8619', pressured annulus to 200 psi and held for back pressure against packer. Tested lines. Pumped 50 bbls of seawater/3% KCL at 10 BPM. Final pressure of 3570 psi. ISIP 2800 psi. Performed step rate test at 1 - 10 BPM. Final injection pressure = 3950 psi. ISIP = 2900 psi. Injected 95 bbls of 80 PPT HEC at 14 BPM. Final pressure = 4160 psi. ISIP = 2800 psi. Pumped 4000 gallons of HEC pad at 5 - 15 BPM. Pumped 4500 gallons of HEC with 1 - 14 ppg of resin coated Proppant. Screened out at 25 bbls into flush. Sand injected = 20,000#. Reversed excess sand from drill string. Shut in to allow resin coated Proppant to cure. Monitored well.
/09/94	9136'	Shut well in to allow sand cure. Monitored pressures 400 psi on workstring - 540 psi on casing. Attempted to circulate (negative), work string plugged. Bled down pressure, checked well for flow (negative). Pulled out of hole wet. Cleaned sand out of workstring and laid down tools. Ran in hole with 3-1/2" sawtooth collar on 3-1/2" 501 wedge - Lok tubing and drill pipe. Tagged sand at 8724', reversed out to 8816'. Unable to reverse any further. Circulated and cleaned out to 8824'.
/10/94	9136'	Circulated out firm sand from 8818' - 8850'. Reverse circulated hole clean. Pulled out of hole. Pressure tested wellbore to 2500 psi. Rigged up Schlumberger lubricator. Ran in hole with perforating guns and perfed 9 (1/2") HPF from 8812' - 8817'. Monitored well - well static. Pulled out of hole with guns and rigged down well. Ran in hole with frac assembly. Tagged fill at 8809'. Reverse circulated out fill to 8850'.
/11/94	9136'	Reverse circulated hole clean at 8850'. Pulled up 230' and installed IBOP. Ran back to 8830' and spotted 151 bbls KCL water down drill pipe. Pulled out of hole to 8620' and set packer at 8523'. Tested surface equipment to 7500 psi. Performed step rate (1-11 BPM up to 4400 psi) and data frac (1-66 BPM up to 4454 psi). ISIP 2800 psi. Analyzed data frac. Performed erosion treatment with 16 bbls of gel and 500# sand at 15 BPM. Rates up to 14.7 BPM and pressures to 4385 psi. ISIP 2470 psi. Performed frac: 143 bbls of pad, 131 bbls of gel with sand 1-14 ppg. Displaced with 37 bbls of KCL when screen out occurred. Maximum pressure 6000 psi, maximum rate 16.6 BPM. Bled off pressure. Reversed tubing clean.
/12/94	9136'	Reversed hole clean. Pulled out of hole to 6320', slow. Dry pipe, continued out of hole. Broke down and laid out tools. Ran in hole with sawtooth collar on 3-1/2" tubing on 5" drill pipe. Tagged top of resin sand fill at 8667'. Cleaned out fill with kelly, reversing until clean to 8892'.
/13/94	9136'	Cleaned out resin coated sand to 9022'. Reversed clean at 9022'. Pulled out of hole to 6500'. Serviced rig. Ran in hole. Reversed at 7723' - hole clean. Ran in hole to 9022' - no fill. Reverse circulated, hole clean. Pulled out of hole. Laid down 3-1/2" tubing. Checked blind rams. Installed test plug. Changed lower pipe rams to 2-7/8" and tested. Pulled test plug. Rigged up to run production equipment. Made up submersible pump.
/14/94	9136'	Ran 2-7/8" production string, drifting and Hydrotesting. Made vertical splice at packer.

LEASE OCS P-0216 WELL NO. S-60RD FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS

3-1/2" 9.2# J-55 LINER DETAIL

FROM	TO	LENGTH	JTS	DESCRIPTION
8943.00	8942.30	0.70		3-1/2" Bull Plug Shoe
8942.30	8671.92	270.38	9	3-1/2" 9.2# J-55 NU 10 RD SSWW .016 Thinpack Pre-Packer Liner
8671.92	8649.04	22.88		Baker Lower Extension
8649.04	8645.89	3.15		Baker Seal Bore Gravel Packing Extension w/Sliding Sleeve
8645.89	8641.10	4.79		Baker Mill-Out Extension
8641.10	8636.40	4.70		Baker SC-1 76-A4-40 Packer
			9	Total

/15/94 9136' Completed splice. Ran in hole with production string. Landed tubing with back pressure valve in place. Tested seals. Nippled down BOPE. Nippled up and tested tree. Changed well over to filtered seawater. Released rig at 2000 hours.

PRODUCTION RATES:

5/16:	126/6	96% CUT	280/600 TBG/CSG
5/17:	129/7	95% CUT	340/390 TBG/CSG
5/18:	142/5	96% CUT	310/460 TBG/CSG
5/19:	147/6	95% CUT	240/460 TBG/CSG
5/20:	118/4	96% CUT	215/680 TBG/CSG
5/21:	106/1	99% CUT	130/700 TBG/CSG
5/22:	178/9	99% CUT	130/40 TBG/CSG
5/23:	166/8	95% CUT	130/40 TBG/CSG
5/24:	202/194	4% CUT	140/40 TBG/CSG
5/25:	207/135	35% CUT	145/40 TBG/CSG

UNOCAL
PLATFORM GILDA

S-60 SIDETRACK
slot #70
SANTA CLARA UNIT

S U R V E Y L I S T I N G

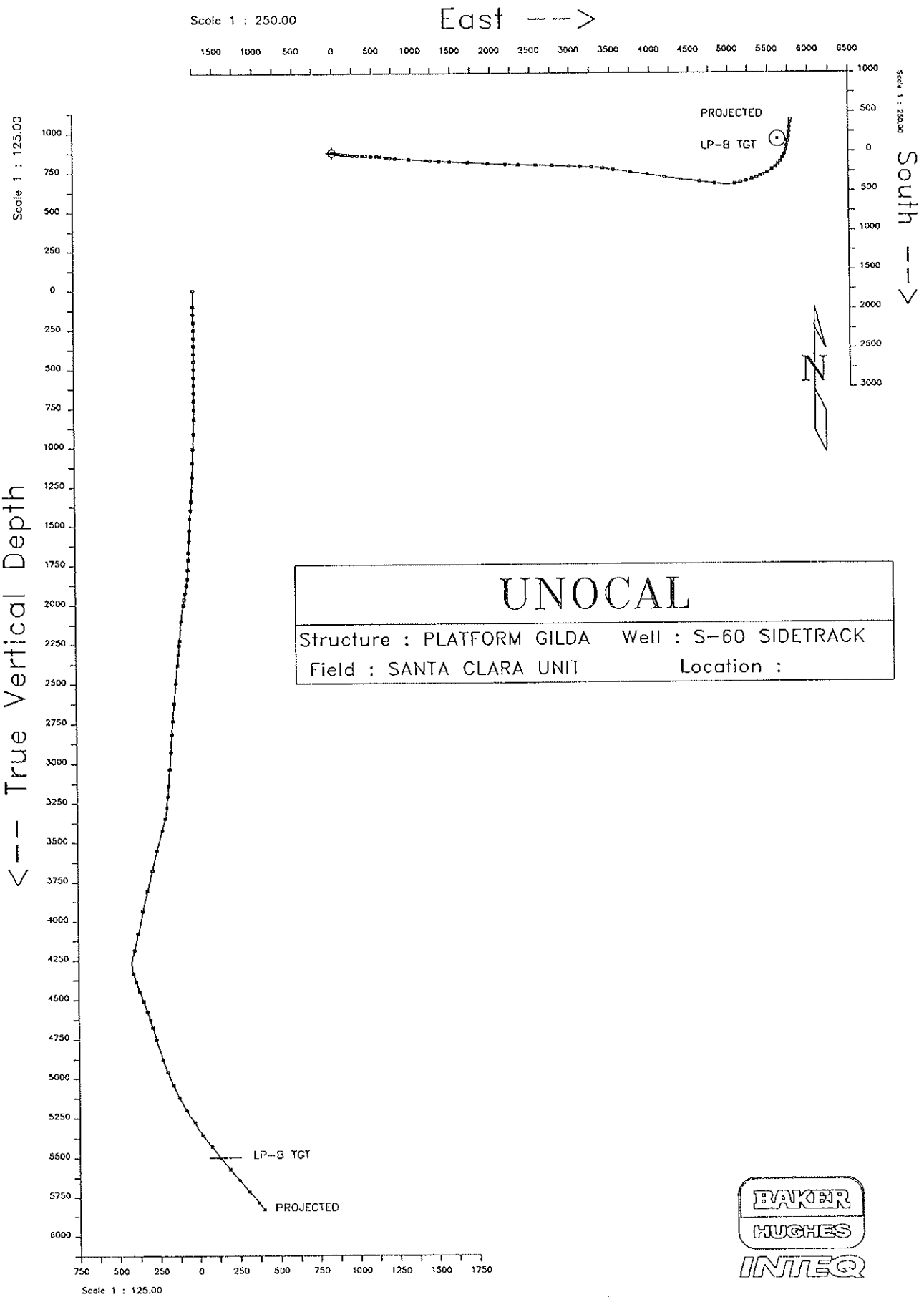
by
Baker Hughes INTEQ

Your ref : DMWD SIDETRACK
Our ref : svy3456
License :

Date printed : 14-Jul-94
Date created : 25-Apr-94
Last revised : 14-Jul-94

Field is centred on 1041733.000,747989.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.561,w119 25 6.229
Slot Grid coordinates are N 748000.260, E 1041783.869
Slot local coordinates are 12.80 N 50.50 E
Reference North is True North



UNOCAL

Structure : PLATFORM GILDA Well : S-60 SIDETRACK

Field : SANTA CLARA UNIT Location :

BAKER HUGHES INTEQ

Vertical Section on 0.00 azimuth with reference 0.00 N, 0.00 E from slot #70

UNOCAL
PLATFORM GILDA,S-60 SIDETRACK
SANTA CLARA UNIT,

SURVEY LISTING Page 1
Your ref : DMWD SIDETRACK
Last revised : 14-Jul-94

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
100.00	0.12	40.93	100.00	0.08 N	0.07 E	0.12	0.08
150.00	0.25	45.23	150.00	0.20 N	0.18 E	0.26	0.20
200.00	0.30	57.52	200.00	0.34 N	0.37 E	0.15	0.34
250.00	0.30	40.82	250.00	0.51 N	0.56 E	0.17	0.51
300.00	0.30	43.57	300.00	0.70 N	0.74 E	0.03	0.70
350.00	0.25	65.35	350.00	0.85 N	0.93 E	0.23	0.85
400.00	0.30	68.50	400.00	0.94 N	1.15 E	0.10	0.94
450.00	0.42	72.43	450.00	1.04 N	1.45 E	0.24	1.04
500.00	0.35	38.85	499.99	1.22 N	1.72 E	0.46	1.22
550.00	0.18	4.75	549.99	1.41 N	1.82 E	0.45	1.41
600.00	0.30	10.67	599.99	1.62 N	1.85 E	0.24	1.62
650.00	0.42	12.57	649.99	1.93 N	1.91 E	0.24	1.93
700.00	0.50	6.94	699.99	2.32 N	1.98 E	0.18	2.32
755.00	2.00	111.75	754.98	2.21 N	2.90 E	3.97	2.21
817.00	4.17	111.00	816.89	1.00 N	6.01 E	3.50	1.00
910.00	7.00	105.00	909.44	1.68 S	14.64 E	3.10	-1.68
1008.00	11.25	105.00	1006.17	5.70 S	29.65 E	4.34	-5.70
1100.00	15.00	98.00	1095.76	9.68 S	50.12 E	4.42	-9.68
1192.00	19.25	96.00	1183.66	12.93 S	77.00 E	4.66	-12.93
1285.00	23.75	96.00	1270.17	16.49 S	110.89 E	4.84	-16.49
1364.00	27.50	99.90	1341.39	21.29 S	144.70 E	5.20	-21.29
1426.00	30.10	97.50	1395.72	25.78 S	174.22 E	4.59	-25.78
1488.00	32.60	94.70	1448.66	29.18 S	206.28 E	4.66	-29.18
1581.00	37.40	95.00	1524.82	33.70 S	259.42 E	5.16	-33.70
1672.00	41.30	93.30	1595.18	37.84 S	316.95 E	4.45	-37.84
1769.00	43.10	91.80	1667.04	40.72 S	382.04 E	2.13	-40.72
1831.00	45.90	92.50	1711.26	42.36 S	425.46 E	4.58	-42.36
1924.00	47.90	90.80	1774.80	44.30 S	493.33 E	2.53	-44.30
2017.00	50.80	95.00	1835.39	47.92 S	563.76 E	4.63	-47.92
2079.00	52.60	96.80	1873.82	52.93 S	612.15 E	3.69	-52.93
2172.00	55.20	96.40	1928.61	61.56 S	686.79 E	2.82	-61.56
2237.00	57.70	97.10	1964.53	67.93 S	740.58 E	3.95	-67.93
2308.00	60.60	95.70	2000.94	74.71 S	801.15 E	4.42	-74.71
2514.00	60.30	93.30	2102.54	88.78 S	979.78 E	1.02	-88.78
2761.00	60.00	93.30	2225.48	101.11 S	1193.66 E	0.12	-101.11
2823.00	61.80	93.30	2255.63	104.23 S	1247.74 E	2.90	-104.23
2946.00	63.60	92.50	2312.05	109.75 S	1356.89 E	1.57	-109.75
3100.00	63.50	92.50	2380.64	115.77 S	1494.64 E	0.06	-115.77
3353.00	63.30	92.90	2493.92	126.42 S	1720.61 E	0.16	-126.42
3635.00	63.10	92.50	2621.07	138.28 S	1972.04 E	0.14	-138.28
3884.00	62.90	92.50	2734.12	147.96 S	2193.69 E	0.08	-147.96
4069.00	62.80	92.20	2818.54	154.71 S	2358.16 E	0.15	-154.71
4316.00	62.80	92.20	2931.44	163.14 S	2577.69 E	0.00	-163.14
4546.00	62.80	92.20	3036.57	170.99 S	2782.10 E	0.00	-170.99
4784.00	64.60	92.50	3142.02	179.75 S	2995.28 E	0.76	-179.75
4940.00	64.50	92.20	3209.05	185.52 S	3136.02 E	0.18	-185.52
5100.00	64.70	92.20	3277.68	191.07 S	3280.45 E	0.12	-191.07
5251.00	60.30	98.50	3347.45	203.40 S	3413.69 E	4.71	-203.40
5407.00	60.40	98.90	3424.62	223.91 S	3547.70 E	0.23	-223.91

All data is in feet unless otherwise stated
Coordinates from slot #70 and TVD from wellhead (214.00 Ft above mean sea level).
Vertical section is from wellhead on azimuth 0.00 degrees.
Declination is 14.11 degrees, Convergence is -1.74 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect	
5659.00	59.30	98.50	3551.19	256.87 S	3763.10 E	0.46	-256.87	
5907.00	59.00	98.20	3678.36	287.79 S	3973.75 E	0.16	-287.79	
6157.00	58.90	98.20	3807.31	318.34 S	4185.74 E	0.04	-318.34	
6405.00	58.00	97.50	3937.07	347.21 S	4395.10 E	0.44	-347.21	
6684.00	60.40	96.80	4079.92	377.02 S	4632.87 E	0.89	-377.02	
6903.00	62.70	97.50	4184.25	401.00 S	4823.90 E	1.09	-401.00	
7000.00	62.50	97.34	4228.88	412.12 S	4909.30 E	0.24	-412.12	
7207.00	57.40	79.90	4333.10	408.54 S	5087.35 E	7.69	-408.54	
7302.00	53.50	75.30	4386.98	391.83 S	5163.74 E	5.72	-391.83	
7396.00	48.50	72.80	4446.13	371.82 S	5233.96 E	5.70	-371.82	
7490.00	47.30	69.30	4509.16	349.19 S	5299.91 E	3.04	-349.19	
7584.00	44.00	69.30	4574.86	325.44 S	5362.78 E	3.51	-325.44	
7652.00	40.30	67.50	4625.26	308.66 S	5405.21 E	5.72	-308.66	
7714.00	36.40	66.80	4673.88	293.74 S	5440.65 E	6.33	-293.74	
7806.00	32.30	61.60	4749.83	271.28 S	5487.40 E	5.48	-271.28	
7871.00	32.48	57.96	4804.73	253.76 S	5517.47 E	3.01	-253.76	
7958.00	30.20	55.20	4879.03	228.88 S	5555.25 E	3.10	-228.88	
8051.00	30.80	48.20	4959.19	199.65 S	5592.22 E	3.87	-199.65	
8146.00	32.00	42.60	5040.29	164.90 S	5627.40 E	3.32	-164.90	
8240.00	33.00	36.30	5119.59	125.92 S	5659.42 E	3.75	-125.92	
8335.00	33.60	27.80	5199.04	81.80 S	5687.01 E	4.95	-81.80	
8429.00	34.30	21.50	5277.04	34.13 S	5708.85 E	3.81	-34.13	
8523.00	36.60	16.90	5353.62	17.34 N	5726.71 E	3.74	17.34	
8618.00	38.80	12.70	5428.79	73.49 N	5741.49 E	3.56	73.49	
8709.00	39.50	10.20	5499.37	129.79 N	5752.89 E	1.90	129.79	
8804.00	39.20	6.00	5572.84	189.40 N	5761.38 E	2.82	189.40	
8895.00	39.20	6.70	5643.36	246.56 N	5767.74 E	0.49	246.56	
8989.00	39.20	7.10	5716.21	305.54 N	5774.88 E	0.27	305.54	
9081.00	39.40	7.10	5787.40	363.36 N	5782.08 E	0.22	363.36	
9135.00	39.40	7.10	5829.13	397.37 N	5786.31 E	0.00	397.37	PROJECTED

All data is in feet unless otherwise stated
Coordinates from slot #70 and TVD from wellhead (214.00 Ft above mean sea level).
Vertical section is from wellhead on azimuth 0.00 degrees.
Declination is 14.11 degrees, Convergence is -1.74 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Comments in wellpath

MD	TVD	Rectangular Coords.	Comment
9135.00	5829.13	397.37 N 5786.31 E	PROJECTED

Targets associated with this wellpath

Target name	Position	T.V.D.	Local rectangular coords.		Date revised
LP-B TGT	not specified	5497.00	156.00N	5624.00E	1-Mar-94

All data is in feet unless otherwise stated
Coordinates from slot #70 and TVD from wellhead (214.00 Ft above mean sea level).
Bottom hole distance is 5799.94 on azimuth 86.07 degrees from wellhead.
Vertical section is from wellhead on azimuth 0.00 degrees.
Declination is 14.11 degrees, Convergence is -1.74 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

WEEKLY ACTIVITY REPORT
Period: 05/19/97 to 05/25/97

Week No. 9

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Co.
2. Well No.:	S-62	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-2063901	10. Spud Date:	04/18/97
5. Water Depth:	205'	11. TD Date:	05/08/97
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 12.5
15. Last BOP Test Date: 05/13/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

Cont. reverse circ. POOH w/bottle brush assembly. RIH w/TCP guns. Run correlation logs and space out guns. Set pkr @ 10668'. PT FL to 3000 psi, manifold to 4700 psi, and tbg to 250 psi. Fire guns - btm shot @ 11046' and top shot @ 10818'. Well flowing. POOH w/pkr. POOH w/guns. RIH and set pkr @ 10674'. RU dowell. Test lines and surf. equip. to 7000 psi. Perform Data Frac. and Stim. Frac. per plan. RIH and tag sand top @ 10755'. POOH w/pkr. RIH w/TCP guns (4 5/8") 12 spf. Run correlation log. Space out btm shot @ 10352'. Set pkr, pressure test, and fire guns. Flowing. POOH w/pkr and guns. RIH w/7" pkr and set @ 10277'. Move pkr up to 10248'. Perform Data & Stim. Frac. POOH w/pkr. RIH w/6" bit to 10290'. Hit sand bridge. Move sand down to 10301'. No more progress.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 07/27/98 to 08/02/98

Week No. 15

GENERAL INFORMATION

1. Lease (BHL) P-0216 Platform Gilda
2. Well No.: S-61
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20615-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **5/17/98**
11. Plug date: **5/3/98**
12. TD Date: **6/25/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 10742 TD
14. Mud Weight: 12.0
15. Last BOP Test Date: 7/31/98 Test Pressure (psi): 250 Low/5000 High
16. Well Status (Dlg, Com, WO, TA, PA): Com

17 Summary of Operations:

RIH w/2 7/8" tbg tail to 10628' (landing collar) - no fill on bottom. POOH. RIH w/5.5 17.0# P-110 wire wrapped liner to 10437'. Prep acid to frac. Set sand control pkr @ 10312'. Snap in to pkr and drop ball. Let it gravitate to btm. Pump 48 bbls of FSW, 1500 gals of 15% HCL acid, and 43 bbls of FSW. POOH. Run data frac #1 from 10470' to btm perf's. Circ. and LD liner assembly. RIH w/5 1/2" gun/pkr assembly to 10312'. Shear off tbg plug. RU w/Halliburton lines & test to 4500 psi. Guns fired at 0550 hrs. - **10230' to 10290'**. POOH. MU overshot for tbg plug & RIH. RIH w/screen liner & 5 1/2" pkr assembly and successfully frac (#2) upper 5 1/2" casing perfs. MU test plug and RIH. C/O 3 1/2" rams w/2 7/8". Test BOPE on 7/31/98 - ok. RIH w/2 7/8" tbg completion string.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7 5/8" Liner	9552'	3500#		600 sks
5 1/2" Liner	10720'	2500#		371 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
6/27/98	Platform Express - CMR	to 10720'	
6/28/98	PNS compressional sonic	9700' - 10742'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 08/03/98 to 08/09/98

Week No. 16

GENERAL INFORMATION

1. Lease (BHL) P-0216 Platform Gilda
2. Well No.: S-61
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20615-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **5/17/98**
11. Plug date: **5/3/98**
12. TD Date: **6/25/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 10742 TD
14. Mud Weight: 12.0
15. Last BOP Test Date: 7/31/98 Test Pressure (psi): 250 Low/5000 High
16. Well Status (Dlg, Com, WO, TA, PA): Com

17 Summary of Operations:

RIH & hydro test. Attempt to land hanger - no good. POOH to SSSV and LD (appears to have some marks on the hanger - like something dropped in the hole). RU Hambros and magnet. POOH w/3 1/2" tong die on magnet. MU seal assembly and RIH. Stab into packer - ok. POOH. RIH w/production lines. Attempt to stab in to packer - no good. RIH w/J tool to 10158'. Workover seal assembly and latch same. POOH w/no recovery. Tag fish at 10158', still no recovery. RIH w/magnet to 10158'. POOH w/no recovery. MU 4.625 overshot dressed w/3.347 spiral grapples and extension - RIH. Workover top of fish at 10158'. POOH and LD fish. RIH to top of SC-1 packer at 10171'. POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7 5/8" Liner	9552'	3500#		600 sks
5 1/2" Liner	10720'	2500#		371 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
6/27/98	Platform Express - CMR	to 10720'	
6/28/98	PNS compressional sonic	9700' - 10742'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 08/10/98 to 08/16/98

Week No. 17

GENERAL INFORMATION

1. Lease (BHL): P-0216 Platform Gilda
2. Well No.: S-61
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20615-01/S01
5. Water Depth: 205'
6. RKB: 107'

7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **5/17/98**
11. Plug date: **5/3/98**
12. TD Date: **6/25/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 10742 TD
14. Mud Weight: 12.0
15. Last BOP Test Date: 7/31/98 Test Pressure (psi): 250 Low/5000 High
16. Well Status (Dlg, Com, WO, TA, PA): Com

17 Summary of Operations:

Finish POOH and left seal assembly in hole. RIH w/overshot and bumper sub - workover top of fish at 10158'. POOH. LD fish and PU 4.5 impression block. RIH. Made impression which indicates top of packer w/2" space missing). MU magnet and RIH. POOH & LD magnet (recovered metal pieces). RIH w/mill to dress top of packer @ 10171'. POOH and RIH w/salt pill. Unable to stab in to packer still. POOH & LD assembly (assembly plugged w/salt). Mix and pump Hi Vis pill. Monitor well - fluid loss. RIH w/seal assembly and stab in to packer. Shear off assembly w/30000# over pull. Monitor well - slight fluid loss. Spot pill @ 10168' & POOH. RIH w/production equipment. Land hanger and pressure test seals to 1500 psi for 15 minutes. ND diverter, riser & BOP stack. Install prod. tree. **BOP test was not done due to loss of circ. Dale Roberts w/MMS was contacted 8/13/98.** NU tress and test hanger/seals to 3000 psi for 15 min. Remove BPV and open SCSSV. ESP will not work at Report time.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
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20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

UNION OIL CO. OF CALIFORNIA
DRILLING RECORD

NOTED WRIGHT

RECEIVED
SEP 23 1985
MINERALS MGT. SERVICE
VENTURA DISTRICT

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
-14-85	12,400'PTD 740'/422'	Moved rig to slot 81 and spudded well 1530 hrs. 6-14-85. Drilled 17-1/2" hole from 318' to 740'. Pulled out of hole. Ran in hole and underreamed to 26" from 318' to 740'. Spotted gel mud and pulled out of hole. Rigging up to run casing.
-15-84	740'/0'	Rigged up and ran 16 joints of 20", 94#, K-55 casing with Dril-Quip connectors, finned pup joint and 20-3/4", 3000 psi lower wellhead unit on running tool and 20" landing joints. Landed casing with Orifice fill stab-in shoe at 726'. Ran in hole with stab-in tool on 5" drill pipe. Stabbed into shoe and dropped ball to activate float equipment. Sheared ball with 800 psi. Cemented as follows; pumped 200 cf of sea water, 420 sacks Class "G" cement with .46 gps A-3L and 400 sacks Class "G" cement with .4 gps A-7L. Displaced cement with 8 barrels of water. Pulled stab-in out of shoe and dumped 30 cf of cement inside 20" casing. CIP 1145 hrs. Waited on cement for 10 hrs. Laid down landing joints and running tool. Installing BOPE.
-16-85	1080'/340'	Continued to install BOPE and riser. Tested casing and blind rams to 250 and 500 psi. Ran in hole with 17-1/2" bit and cleaned out cement and shoe to 740'. Changed well over to clay base mud and pulled out of hole. Ran Gyro survey in 20" casing. Ran in hole with 17-1/2" bit and drilled to 1080'.
-17-85	1583'/503'	Drilled and surveyed 17-1/2" hole from 1080' to 1450'. Circulated bottoms up and pulled out of hole. Drilled and surveyed from 1450' to 1583'. Circulated bottoms up and pulled out of hole. Underreamed hole to 22" from 740' to 1160'.
-18-85	1588'/0'	Continued to underream to 22" from 1160' to 1583'. Circulated clean and pulled out of hole. Pulled wear bushing. Rigged up and ran 31 joints, 16", 75#, X-52 casing with VP-3 connectors and 16" cementing adaptor. Circulated and conditioned mud while reciprocating casing. Cemented as follows; pumped 200 cf of sea water and 1300 sacks Class "G" cement with .2 gps A-7L. Displaced cement with 271 barrels mud and bumped plug with 1200 psi (float equipment held). CIP 2045 hrs. Reciprocated casing through 190 barrels displacement. Landed casing with Orifice fill shoe at 1583', Orifice fill collar at 1542' and 16" adaptor at 368'. Released running tool and pulled out of hole. Ran in hole with 17-1/2" bit and cleaned out cement from 340' to 368'. Circulated clean and pulled out of hole. Waited on cement a total of 4 hrs. Tested blind rams and 16" X 20" lap to 500 psi. Installed wear bushing. Ran in hole with 14-3/4" bit, cleaned out cement adaptor from 368' to 377'. Ran in hole to 1539'. Tested upper and lower pipe rams, kill and choke lines, choke manifold, upper and lower Kelly cocks, inside BOP, safety valve and annular preventer to 250 and 500 psi.
19-85	2408'/825'	Cleaned out float collar at 1539' and cemented to 1547'. Tested casing to 500 psi. Cleaned out cement and shoe to 1583' and drilled to 1588'. Circulated clean. Tested formation to leakoff at 101 pcf equivalent mud weight. Pulled out of hole for drilling assembly change. Ran in hole and directionally drilled from 1588' to 2408'. Pulled out of hole for drilling assembly change.
20-85	3907'/ 1499'	Ran in hole and reamed Dyna-drill run from 1588' to 2408' and drilled to 2901'. Circulated clean and pulled out of hole for drilling assembly change (angle dropping too rapidly). Ran in hole and drilled to 3520'. Wiped hole to 2551'. Ran in hole and drilled to 3907'.

MINERALS MANAGEMENT SERVICE
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SEP 25 1985
FIELD OPERATIONS
LOS ANGELES

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
-21-85	4015'/108'	Drilled 14-3/4" hole from 3907' to 4015'. Circulated and made 10 stand wiper trip. Circulated and pulled out of hole. Ran in hole with 18" underreamer and scraped 16" shoe joint from 1539' to 1583'. Underreamed hole to 18" from 1583' to 3110'.
-22-85	4015'	Continued Underreaming 14-3/4" hole to 18" from 3110' to 4015'. Circulated and conditioned mud. Wiped hole to shoe. Ran in hole - no fill. Circulated and conditioned mud for casing. Pulled out of hole. Rigged up to run 13-3/8" casing. Made space out and drift run with 13-5/8", 5000 psi 3 step wellhead assembly and landing joints - O.K. Ran 100 joints of 13-3/8", 68#, K-55 ASL casing. Circulated and reciprocated casing at 9.9 bpm.
-23-85	4015'	Rigged up cementers and established circulation with BJ - tested lines to 3000 psi. Pumped 35 barrels sea water ahead. Released bottom plug. Mixed and pumped 490 sacks Class "G" cement with .68 gps A-3L followed with 1475 sacks Class "G" cement with .2 gps A-7L. Released top plug and displaced 10 barrels sea water with BJ. Rigged down BJ and hooked up rig pump. Displaced 3200 strokes (393 barrels) while reciprocating casing, landed casing with auto fill shoe at 3998' and auto fill collar at 3956'. Displaced additional 1150 strokes (142 barrels). Pressured up to 1800 psi - total displaced 545 barrels (theoretical displacement 592 barrels). Began mixing lead slurry at 0821 hrs., tail slurry at 0908 hrs. Started displacement at 1013 hrs. CIP at 1123 hrs. Good circulation throughout job, contaminated mud returns after 3900 strokes (480 barrels). Tested seal assembly to 1100 psi - O.K. Laid down landing joint. Washed wellhead and BOPE with sea water. Nippled down 20-3/4" 3000 psi BOP. Installed 13-5/8", 5000 psi BOP and wear bushing at 0600 hrs.
-24-85	4025'/10'	Continued to nipple up 13-5/8", 5000 psi BOPE. Tested casing and blind rams to 250 psi low, 2415 psi high. Ran in hole and tagged cement at 3560'. Tested upper and lower rams, Kelly cocks, choke manifold, choke and kill lines, safety valve, inside BOPE and annular preventer to 250 psi low, 2415 psi high. Cleaned out cement and float collar from 3560' to 3984'. Tested casing to 2450 psi for 30 minutes - OK. Cleaned out cement and shoe from 3984' to 3998'. Cleaned out hole from 3998' to 4015'. Drilled from 4015' to 4025'. Tested formation to leakoff with 800 psi at surface, 71 pcf mud (104.4 pcf EMW). Pulled out of hole.
-25-85	4943'/918'	Ran in hole and cleaned out fill from 4015' to 4025'. Drilled and surveyed from 4025' to 4516'. Made short trip. Drilled and surveyed from 4516' to 4847'. Circulated bottoms up and pulled out of hole. Ran in hole and drilled from 4847' to 4943'.
-26-85	6357'/ 1414'	Drilled and surveyed from 4943' to 5469'. Made short trip. Drilled and surveyed from 5469' to 6056'. Made short trip. Drilled and surveyed from 6056' to 6357'.
-27-85	7267'/910'	Drilled and surveyed 12-1/4" hole from 6357' to 6882'. Circulated bottoms up and pulled out of hole. Ran in hole and reamed from 6671' to 6882'. Drilled from 6882' to 7267'.
-28-85	8254'/987'	Directionally drilled 12-1/4" hole from 7267' to 7582'. Made short trip back to 6662'. Directionally drilled 12-1/4" hole from 7582' to 8254'.
-29-85	8924'/670'	Directionally drilled 12-1/4" hole from 8254' to 8495'. Tripped for new bit. Reamed hole from 8400' to 8495'. Directionally drilled from 8495' to 8924'.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
-30-85	9465'/541'	Directionally drilled 12-1/4" hole from 8924' to 9016'. Made short trip back to 7938'. Had tight hole from 8760' to 9016'. Increased mud weight to 84 pcf and raised Soltex concentration. Directionally drilled 12-1/4" hole from 9016' to 9465'. Tripped to 13-3/8" shoe at 3998'. Ran in hole - no fill or tight hole. Circulated and conditioned mud for 9-5/8" casing. Pulled out of hole laying down 12-1/4" bottom hole assembly at report time.
-1-85	9465'/0'	Continued to lay down bottom hole assembly. Pulled wear bushing. Changed top pipe rams to 9-5/8". Tested BOP doors to 2400 psi. Rigged up and ran 237 joints of 9-5/8", 47#, N-80, 8RD casing. Cemented casing through shoe with 720 sacks Class "G" cement with .46 gps A-3L, .15 gps R-7L and .2% D-6 followed by 600 sacks Class "G" cement with .7% D-28 and .2 gps D-31L and .2% D-6. Preceded cement with 20 barrels weighted mud sweep and displaced with 10 barrels water and 690 barrels mud (3.7% over theoretical). Reciprocated casing throughout cement job and landed casing with shoe at 9422' and float collar at 9337'. Bumped plug with 1800 psi. Displaced cement at 12 bpm. CIP 0335 hrs. Float equipment held - O.K. Backed out landing joint. Installed and tested seal assembly.
-2-85	9465'/0'	Changed rams in BOP. (Power shut down for transformer change at Mandalay from 0700 hrs. - 1700 hrs.) Tested BOP. Tested casing to 2500 psi. Set wear bushing. Ran in hole and tagged float collar at 9336'. Cleaned out float collar and cement to shoe at 9422'. Cleaned out to 9465'.
-3-85	9820'/353'	Drilled 8-1/2" hole to 9475'. Tested formation to leakoff at 136 pcf equivalent mud weight. Drilled to 9820'. Circulated bottoms up and pulled out of hole for bit change. Ran in hole.
-4-85	10,232'/412'	Drilled to 10,051'. Circulated and checked for flow. Continued drilling to 10,232' and weighted up mud from 86 pcf to 97 pcf. Stuck drill string at 10,232' after making connection and surveying at 1900 hrs. Worked stuck drill pipe. Ran in hole with freepoint tools.
-5-85	10,232'/0'	Continued to run in hole with free point tools and string shot - tools not working. Pulled out of hole and adjusted tension springs on free point tool. Ran in hole - tool would not go passed 5900'. Attempted to pump tool down - no good. Ran in hole with string shot. Fired shot and backed off drill pipe at 9373'. Pulled out of hole with wireline. Pulled out of hole. Recovered all drill pipe and 5 joints of Hevi-wate. Ran in hole with fishing assembly to 9373' and screwed into fish. Spotted 90 barrels mineral oil base mud, 40 barrels oil in annulus and 50 barrels in drill string. Jarred on fish while moving oil 1 bph.
7-6-85	10,232'/0'	Continued to jar on fish while moving oil 1 bph (drill pipe stuck for 59 hrs., oil in place for 31 hrs.).
7-7-85	10,232'/0'	Continued to jar on fish while moving oil 1 bph. Ran free point - indicated pipe stuck at 9-5/8" casing shoe. Jarred on fish and circulated bottoms up. Ran in hole and cut drill string at 9495'. Jarred fish free and circulated bottoms up. Pulled out of hole. Recovered 122' of Hevi-wate drill pipe. Ran in hole with 8-1/2" bit.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
7-8-85	10,232'/0	Continued to run in hole to 9422'. Circulated and conditioned mud. Ran in hole to top of fish at 9501' (tight hole from 9422' to 9448'). Circulated bottoms up and checked well for flow. Pulled out of hole to 9345'. Slipped and cut drilling line. Continued to pull out of hole. Ran in hole to 9501' with open end 2-7/8" tubing on 5" drill pipe. Circulated bottoms up. Equalized kick-off plug as follows: pumped 10 barrels of sea water, 120 sacks Class "G" cement with .2 gps A-31L, .4 gps R-12L and .2% D-6, mixed at 17.5 ppg, 1 barrel of sea water and 155 barrels mud. CIP 1810 hrs. (estimated top of cement 9272'). Pulled out of hole to 8502' and circulated bottoms up. Continued to pull out of hole. Pulled wear bushing and tested BOPE. Running in hole with 8-1/2" bit.
7-9-85	9548'/126'	Continued to run in hole and tagged top of cement at 9255'. Cleaned out cement from 9255' to 9422'. Circulated and conditioned mud. Pulled out of hole. Ran in hole and directionally drilled from 9422' to 9548'. Circulated clean and pulled out of hole.
7-10-85	9831'/283	Ran in hole and reamed from 9422' to 9548' and drilled to 9628'. Circulated bottoms up and pulled out of hole to 9422'. Replaced split Kelly hose. Pressure tested hose to 3000 psi. Ran in hole and drilled to 9831'.
7-11-85	10,157'/ 326'	Drilled to 9844' and circulated bottoms up. Pulled out of hole for bit and drilling assembly change. Ran in hole and drilled to 10,157'. Circulated and conditioned mud.
7-12-85	10,521'/ 364'	Continued to circulate bottoms up. Pulled out of hole for bit and drilling assembly change. Ran in hole and drilled to 10,521'. Circulated bottoms up. Pulled out of hole for bit change.
7-13-85	10,682'/ 161'	Continued to pull out of hole. Ran in hole. Established circulation and checked Teleco tool at 900' and 6000' - O.K. Pulled out of hole and laid down Teleco tool due to sticking problem. Ran in hole and drilled to 10,601'. Circulated and increased mud weight to 105 pcf. Drilled to 10,682'.
7-14-85	10,962'/ 280'	Wiped hole to 9-5/8" casing shoe. Ran in hole and drilled to 10,845'. Circulated bottoms up and dropped survey. Pulled out of hole for bit change. Ran in hole and reamed from 10,760' to 10,845' and drilled to 10,962'.
7-15-85	11,319'/ 357'	Drilled from 10,962' to 11,107'. Circulated bottoms up. Made short trip into 9-5/8" shoe. Ran in hole and drilled from 11,107' to 11,144' - drilling break at 11,144'. Circulated and checked for flow - negative. Drilled from 11,144' to 11,319'. Circulated bottoms up. Pulled out of hole for bit change.
7-16-85	11,500'/ 181'	Pulled wear bushing, set test plug and performed weekly BOP test. Changed out stand pipe bumper hose, retrieved test plug and reset wear bushing. Made up BHA. Ran in hole and reamed from 11,190 to 11,319. Drilled from 11,319 to 11,500'. Circulated bottoms up and wiped hole to shoe; tight hole from 10,250' to 10,130'.
7-17-85	11,500'/0	Stuck pipe at 10,428' while making connection on wiper trip. Worked stuck pipe. Spotted 99 barrels of 105 pcf mineral oil mud (50 barrels in annulus, 49 barrels in drill string). Worked pipe and circulated mud 1 bph. Rigged up and ran free point and string shot - free point indicated pipe free at 9578'. Performed back off with string shot at 9405'. Pulled out of hole and rigged down loggers. Made up fishing assembly. Ran in hole with fishing tools.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
-18-85	11,500'/0'	Ran in hole with fishing tools. Screwed into fish at 9405'. Worked stuck pipe.
-19-85	11,500'/0'	Continued working stuck pipe. Began circulating oil base mud at 1600 hrs. Worked pipe while circulating.
-20-85	11,500'/0'	Circulated oil base mud whle working stuck pipe. Rigged up Dialog and ran free point.
-21-85	11,500'/0'	Continued to run freepoint - found pipe free at top of Hevy-wate drill pipe. Performed back-off at 9590' (leaving 1 joint of drill pipe above Hevy-wate drill pipe). Rigged down Dialog. Pulled out of hole and laid down fishing assembly. Ran in hole and reamed from 9422' to 9590'. Circulated bottoms up and pulled out of hole. Ran in hole with 680' of 2-7/8" tubing on 5" drill pipe. Balanced cement plug as follows: pumped 10 barrels of water ahead, mixed and pumped 80 sacks Class "G" cement with .2% D-6, .2 gps D-31L, .04 gps R-12L at 17.5 ppg. Displaced with 1 barrel of water and 158 barrels mud. CIP 0600 hrs.
-22-85	9517'ETD	Pulled out of hole and laid down tubing tail. Ran in hole with bit #19. Tagged top of cement at 9417'. Cleaned out cement from 9417' to 9500'. Circulated and conditioned mud. Made short trip to 9295'. Checked for flow - negative. Slipped and cut drilling line. Ran in hole and cleaned out cement from 9500' to 9517'. Circulated bottoms up and pulled out of hole. Pulled wear bushing. Set test plug and tested annular preventer to 250 psi low, 3500 psi high. Tested upper and lower pipe rams, choke manifold and remaining surface equipment to 250 psi low, 4800 psi high. Pulled test plug and set wear bushing. Changed Kelly bushing, bearings and pins.
-23-85	9613'/91'	Ran in hole and Dyna Drilled from 9517' (KOP) to 9613'. Circulated bottoms up. Pulled out of hole. Laid down Dyna Drill. Made up drilling assembly and ran in hole.
-24-85	9952'/339	Reamed Dyna-drill run from 9517' to 9613'. Drilled from 9613' to 9952'. Circulated bottoms up and pulled out of hole. Changed out bit and stabilizer. Ran in hole.
-25-85	10,333'/ 381'	Ran in hole to 9952'. Drilled from 9952' to 10,197'. Circulated and wiped hole to 9422'. Ran in hole and drilled to 10,333'. Circulated bottoms up. Pulled out of hole to change bit.
-26-85	10,665'/ 332'	Ran in hole and reamed from 10,295' to 10,333'. Drilled and surveyed from 10,333' to 10,512'. Circulated bottoms up. Made short trip to 9422'. Ran in hole and drilled to 10,665'. Circulated bottoms up and pulled out of hole to change bit.
-27-85	11,040'/ 375'	Ran in hole and reamed from 10,625' to 10,665'. Drilled and surveyed from 10,665' to 10,910'. Circulated bottoms up. Made short trip to 9422'. Ran in hole and drilled to 11,040'.
-28-85	11,318'/ 278'	Drilled and surveyed from 11,040' to 11,124'. Circulated bottoms up. Checked for flow - negative. Pulled out of hole for bit change. Made up bottom hole assembly. Ran in hole and reamed from 11,073' to 11,124'. Drilled from 11,124' to 11,306'. Circulated bottoms up. Made short trip to 9386'. Ran in hole and drilled to 11,318'.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
-29-85	11,345'/ 27'	Drilled and surveyed from 11,318' to 11,345'. Circulated bottoms up. Made short trip to 9386'. Cut and slipped drilling line. Ran in hole to 11,345'. Circulated and conditioned mud for logging. Pulled out of hole. Rigged up loggers. Ran DIL-MSFL-GR from 11,331' to 9421'. Running FDC-CNL-GR.
-30-85	11,345'TD	Ran FDC-CNL-GR from 11,351' to 9421'. Rigged down loggers. Pulled wear bushing and set test plug. Tested top and bottom rams, crossover spool, riser, kill and choke lines, choke manifold, upper and lower Kelly cocks, TIW valves, and inside safety valves to 250 psi low, 4800 psi high. Tested annular preventer to 250 psi low, 3500 psi high. Pulled test plug and set wear bushing. Ran in hole with underreamer. Scraped casing from 9370' to 9422'. Cut shoulder at 9432'. Underreamed 8-1/2" hole to 10" from 9432' to 10,000'.
-31-85	11,345'TD	Continued underreaming 8-1/2" hole to 10" from 10,000' to 10,114'. Circulated bottoms up. Pulled out of hole to change underreamer. Ran in hole and underreamed from 10,114' to 10,558'.
-1-85	11,345'TD	Continued underreaming 8-1/2" hole to 10" from 10,558' to 10,966'. Circulated bottoms up. Pulled out of hole to change underreamer. Ran in hole and underreamed from 10,966' to 11,287'.
-85	11,345'TD	Continued to underream hole from 11,287' to 11,345'. Circulated bottoms up and pulled out of hole. Ran in hole with 8-1/2" bit and casing scraper to 9422'. Circulated clean and pulled out of hole. Rigged up and ran 62 joints of 7-5/8", 33.7# N-80 Hydril super flush joint casing with Brown multi-cone hydraulic liner hanger on 5" drill pipe. Circulated and conditioned mud while reciprocating casing.
-3-85	11,345'TD 11,261'ETD	Continued to circulate and condition mud. Cemented 7-5/8" liner as follows: pumped 10 barrels of 105 pcf salt water base clay mud, 522 sacks Class "G" cement with .8% D-28, .2 gps D-31L and .2% D-6. Displaced cement with 10 barrels of 105 pcf salt water mud and 253 barrels of 108 pcf oil base mud. Reciprocated casing through 90% of displacement. Landed casing with float shoe at 11,344', landing collar at 11,262' and liner hanger at 8908'. Bumped plug with 2400 psi and set liner hanger - float equipment held. CIP 1045 hrs. 8-3-85. Released from liner and pulled out of hole to 8814'. Reverse circulated clean (slight cement contamination). Pulled out of hole. Ran in hole with 8-1/2" bit and casing scraper and tagged top of liner at 8908'. Circulated and conditioned mud. Pulled out of hole. Running in hole with 6-5/8" bit and casing scraper.
-4-85	11,345'TD 11,261'ETD	Continued to run in hole and cleaned out cement stringers from 8908' to 8922', 9310' to 10,404' and 11,222' to 11,261'. Circulated and conditioned mud. Tested liner lap to 2500 psi. Circulated and conditioned mud. Pulled out of hole. Rigged up wireline for CBL log.
-5-85	11,345'TD 11,261'ETD	Ran CBL-VDL-GR, PNL-GR logs. Laid down 3-1/2" drill pipe. Installed 3-1/2" upper and lower tubing rams. Pulled wear bushing. Tested BOPE. Installed wear bushing. Running in hole with 5" perforating guns on 3-1/2" PH-6 Hydril tubing.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
8-6-85	11,345'TD 11,261'ETD	Continued to run in hole with perforating assembly and tagged bottom at 11,259'. Pulled up and positioned guns. Established circulation. Displaced 3-1/2" tubing to 1100' with nitrogen. Set packer and closed unloader valve. Bled off nitrogen. Closed tubing rams and pressured annulus to 900 psi. Perforated 7-5/8" liner from 11,062' to 11,190' with twelve .8" hpf. Tubing pressure remained constant and there were no indications of fluid entry. Pulled packer loose and circulated bottoms up - had 120 pcf mud on bottoms up, no oil or formation fluid. Pulled out of hole. Made up DST assembly and tested recorder carriers and tester valve to 5000 psi. Running in hole with test strings for DST #1.
8-7-85	11,345'TD 11,261'ETD	Continued to run in hole with test string. Installed surface equipment and tested to 5000 psi. Attempted to set packer at 11,000' - no good. Pulled packer to 10,545' and continued trying to set packer. Discovered that Baker Retrievomatic packer was left hand set instead of right hand set. Ran in hole and set packer. DST #1 LP-N 11,062'-11,190' (127') Packer at 11,000', tail at 11,030' Cushion: 3950 psi N_2 IF: 6 Min. tubing pressure 4094 psi, fluid level rose 401' (1.9 bbls) ISI: 50 Min. 2nd F: 3 Hrs. 29 Min. Bled down N_2 - total fluid rise 536' (2.5 bbls) Fluid level rose 135' in first 5 Min. of second flow then stopped. Closed well in at surface with no pressure increase - indicating tool plugged. Bled N_2 to zero psi with trace of gas to surface at 2100 hrs. Closed tester valve. Filled tubing with 76 bbls mud, 78 bbls theoretical (2 bbl entry). Blew reversing sub at 2600 psi and reverse circulated clean - no formation fluid or hydrocarbons. Pulled packer loose and circulated bottoms up.
8-8-85	11,345'TD 11,261'ETD	Pulled out of hole and laid down tubing. Inspected Lynes test tools - found that over pressure piston on POTT valve had sheared, causing ball valve to close 5 minutes into second flow period (ball valve had also washed out). Changed upper and lower pipe rams to 2-7/8". Pulled wear bushing. Set test plug. Conducted BOPE test.
8-9-85	11,261'ETD	Completed BOP test. Made up 6-5/8" bit in 7-5/8" casing scraper and ran in hole and tagged fill at 11,078'. Cleaned out fill from 11,078' to 11,261' (183'Fill). Circulated bottoms up. Cleaned and dumped active system.
8-10-85	11,261'ETD	Continued cleaning oil base mud from active system. Took on 105 pcf $CaBr_2$ completion fluid. Pumped 50 barrels of High-viscosity bromide spacer and changed well over to $CaBr_2$. Circulated and conditioned $CaBr_2$ through mud cleaner using 200 Mesh screens.
8-11-85	11,261'ETD	Continued circulating and conditioning $CaBr_2$ fluid through mud cleaner with 200 Mesh screens. Swept hole with High-viscosity sweep. Transferred fluid from active system to Polymer and re-cleaned active mud pits. Shipped fluid back into active system. Mixed one drum of Dirt Magnet with 40 barrels $CaBr_2$ and circulated around to clean hole. Pulled out of hole with scraper. Picked up 8 joints of 3-1/2", N-80 CS Hydril stainless steel wire-wrapped liner with .02 Mesh screen. Picking up gravel pack tail at report time.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
3-12-85	11,345'TD 11,259'ETD	Positioned liner with Bullnose shoe at 11,260', .02" stainless wire-wrapped screen from 11,259' to 11,009', Baker port collar at 10,980', top of SC-1 packer at 10,971'. Established circulation at 2-1/2 bpm, 700 psi. Dropped setting ball and set packer with 1100 psi. Sheared ball seat with 3200 psi. Tested annulus to 1500 psi, released from hanger. Established circulation in backscuttling position at 2-1/2 bpm, 700 psi; in gravel pack position, 2-1/2 bpm, 900 psi. With tool in gravel pack position tested annulus to 1500 psi then pumped 10 barrels pre-pad at 2-1/4 bpm, 700 psi followed by 30 barrels of slurry mixed at 5 ppg with 16-30 Mesh Ottawa sand at 2-1/4 bpm. Displaced with 5 barrels after-pad and 52 barrels of $CaBr_2$. Sanded out at 2500 psi, 1/4 bpm. Reversed clean (40 sacks of gravel in place, 44 sacks theoretical, 91% of theoretical in place). Waited 2 hours. With tool in gravel pack position, established circulation at 2-1/2 bpm, 900 psi. With tool in backscuttle position, pumped 5 barrels of pre-pad, 2-1/4 bpm, 10 barrels slurry mixed at 2.5 ppg 16-30 Mesh Ottawa gravel. Displaced with 5 barrels of after-pad, 40 barrels with $CaBr_2$. Lowered tool into gravel pack position and displaced with total of 65 barrels of $CaBr_2$. Achieved sand-out at 2500 psi, 1/4 bpm. Reversed clean (50 sacks of gravel in place, 113% theoretical). Waited 1 hour. Pumped into pack at 1-1/4 bpm, 1600 psi. Closed port collar and tested to 2000 psi. Pulled out of hole and laid down gravel packing tools.
3-13-85	11,345'TD 11,259'ETD	Rigged up and ran 2-7/8", EUE, 8RD test string, pressure testing to 5000 psi. Landed tubing with shoe at 10,940'.
3-14-85	11,345'TD 11,259'ETD	Attempted to energize seals on tubing hanger without success. Pulled hanger to rig floor and re-dressed. Re-landed hanger, tightened anchor screws and tested hanger to 2000 psi. Rigged up test tree. Rigged up wireline. Ran in hole with XN plug and set in XN nipple at 10,929'. Pulled out of hole with wireline. Pressured tubing to 4500 psi to set packer. Attempted to test packer by pressuring annulus to 2500 psi - at 2100 psi tubing hanger anchor lugs sheared blowing hanger 20' up hole. Pulled hanger. Laid down 1 joint of bent tubing. Pressure tested tubing above flapper valve to 3200 psi - O.K. Opened flapper valve. Ran in hole and retreived XN plug. Reversed out sea water in tubing. Pulled out of hole with test string.
3-15-85	11,345'TD 11,259'ETD	Drained stack and changed out tubing hanger anchor screws. Conducted BOP test. Changed out hydraulic packer and ran in hole with test string.
3-16-85	11,345'TD 11,259'ETD	Landed test string with shoe at 10,940'. Tested tubing anchor to 2000 psi - OK. Displaced tubing with 62 barrels of sea water. Rigged up wireline and lubricator. Ran in hole and set "XN" plug in "XN" nipple at 10,929'. Pressured tubing to 4800 psi to set packer. Retrieved "XN" plug.
8-17-85	11,345'TD 11,259'ETD	Rigged down wireline. Placed well on test - flammable gas to surface at 1330 hours, oil to surface at 1805 hours.
8-18-85	11,345'TD 11,259'ETD	Continued to flow well. Shut well in at 1600 hours. Final rate 182/182, .1%, 109 MCF, 200 psi tubing and 1091 psi BHP. Monitored bottom hole pressure until 1800 hours. Rigged up wireline and tripped travel joint. Rigged down wireline. Closed flapper valve, set tubing back pressure valve, removed BOPE and skid rig.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
8-19-85	11,345'TD 11,259'ETD	Installed production tree. Tested tree to 5000 psi. Turned well over to production. Released rig at 0830 hrs.
8-27-85	11,345'TD 11,259'ETD	Resumed operations 8-27-85. Rigged up coil tubing unit, nitrogen unit, and Halliburton MV 222 stimulation vessel. Attempted to pressure test lines, gauges showed 1000 psi discrepancy. Tore out gauge line and found frac sand in bladder for hydraulic line. Pressure tested lines to swab valve to 5000 psi with water. Ran in hole with 1-1/4" coil tubing to 11,190' while circulating diesel at .5 bpm at 3730 psi. Circulated 650 gallones of HAS solvent with 2% Hyflo IV down 1-1/4" tubing. Shut-in well and pumped another 1350 barrels of solvent at .3 to .4 bpm and 3930 psi. Pumped 5 barrels 2% NH_4Cl water to clear flex hose, then displaced 1-1/4 " coil tubing with nitrogen at 200 SCF/min. 3800 psi. Temporarily released boat. Returned well temporarily to production at 0630 hrs. Brought well on slowly.
8-28-85	11,345'ETD	Flowed well for 16 hours to recover broken emulsion and 2000 gallons of HAS solvent with 2% Hyflo IV. Initial tests showed well was flowing 394 BPD and 103 MCF/D. Production declined to 199 BPD and 125 MCF/D by 2200 hrs. Over 100 barrels of fluid recovered (solvent and crude oil). Rigged up MV 222 to acid stimulate the well. Hydro-tested Halliburton lines downstream of coil tubing unit to 4000 psi; coil tubing at 10,872'. Spotted 650 gallons of MOD 202 acid while reciprocating coil tubing through perforated interval. Shut-in well and pumped 1290 gallons of MOD acid at 0.5 bpm and 3670 psi. Treating pressure decreased to 3520 psi with 1700 gallons of 6% - 1-1/2% HCl-HF pumped. Pumped 430 gallons 5% HCl at 0.5-0.6 bpm at 3600-3700 psi. Diverter stage eliminated due to insufficient rate increase. Pumped 1940 gallons MOD 202 acid at 0.5 bpm and 3670 psi. Pumped 1940 gallons of 6% - 1-1/2% HCl-HF at 0.5 bpm and 3670 psi. Pumped 430 gallons of 5% HCl at 0.5 bpm at 3670 psi. Commenced pumping third stage of MOD 202 acid, 0.5 bpm at 3670 psi. Cumulative pumped = 10,610 gallons (253 barrels).
8-29-85	11,345'ETD	Continued pumping acid treatment. Total acid pumped = 12,900 gallons (5805 gallons MOD 202, 5805 gallons of 6% - 1-1/2% HCl-HF, 1290 gallons 5% HCl). All stages contained the following additives: 0.2% HAI-75 corrosion inhibitor 0.5% LO-SURF 300 surfactant 0.5% AS-7 anti-sludging agent 20#/1000 gallons FERCHECK 50#/1000 gallons EDTA 2% Musol A 2% Cla-Sta FS Displaced acid with 2 barrels of 3% NH_4Cl water followed by nitrogen. Pulled out of hole with coil tubing. Rigged down BJ-Titan and Halliburton. Rigged up work vessel. Pumped 100 barrels of soda ash solution from polymer pits to tanks on boat. Returned well to production at 1800 hrs.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS

20", 94#, X-52, DRIL-QUIP CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
726.23	723.73	2.50		B&W stab-in shoe
723.73	62.47	661.26	16	20", 94#, X-52 csg. w/Dril-Quip jt.
62.47	56.00	6.47		National 20-3/4", 3000 psi head w/pup jt.
56.00	-0-	56.00		Landed below zero

16", 75#, X-52, VP-3 CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
1583.00	1580.80	2.20		B&W orifice fill shoe
1580.80	1542.47	38.33	1	16", 75#, X-52, csg.
1542.47	1542.07	.40		16" nipple
1542.07	1539.62	2.45		B&W orifice fill collar
1539.62	413.77	1125.85	29	16", 75#, X-52, csg.
413.77	376.87	36.90	1	16", 75#, X-52 VP-3 Butt XO jt.
376.87	367.82	9.05		16" cement adapter
367.82	-0-	367.82		Below zero

13-3/8", 68#, K-55, ASL CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
3998.27	3996.07	2.20		Howco auto fill shoe
3996.07	3957.69	38.38	1	13-3/8", 68#, K-55 ASL casing
3957.69	3955.79	1.90		Howco auto fill float collar
3955.79	58.72	3897.07	99	13-3/8, 68#, K-55 Armco NS csg.
58.72	52.00	6.72		National 13-5/8" 5M 3 step upper wellhead
52.00	-0-	52.00		Landed below zero

9-5/8", 47#, N-80, LT&C, 8RD CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
9422.05	9419.95	2.10		Howco auto-fill shoe
9419.95	9339.18	80.77	2	9-5/8", 47#, N-80, 8RD LT&C csg.
9339.18	9337.43	1.75		Howco auto-fill float collar
9337.43	96.50	9240.93	234	9-5/8", 47#, N-80, 8RD LT&C csg.
96.50	57.55	38.95	1	8RD, Pin X butt box XO joint
57.55	53.00	4.55		csg. hanger and pup
53.00	-0-	53.00		Landed below zero

7-5/8", 33.7#, N-80 HYDRIL FLUSH JOINT NS CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
11,344.00	11,342.15	1.85		Brown V-set float shoe
11,342.15	11,303.18	38.97	1	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
11,303.18	11,302.23	.95		Brown ball catcher sub baffle
11,302.23	11,262.73	39.50	1	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
11,262.73	11,261.77	.96		Brown Type 2 landing collar
11,261.77	8921.79	2339.98	60	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
8921.79	8908.90	12.89		Brown HMC liner hanger
8908.90	-0-			Hung below K.B.

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3-1/2", 9.3, N-80 C.S. HYDRIL LINER DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
11,260.00	11,009.04	250.96	8	3-1/2", N-80, 9.3# SSWW
11,009.04	10,983.41	25.63		Lower extension
10,983.41	10,981.92	1.49		Seal bore
10,981.92	10,982.27	1.65		Reciprocating port collar
10,980.27	10,974.77	5.50		Upper extension
10,974.77	10,971.73	3.04		Baker Model SC-1 packer

2-7/8", 6.5#, N-80, EUE, 8-RD TUBING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
10,938.69	10,938.29	.40		45° mule shoe collar
10,938.29	10,928.14	10.15		2-7/8" 6.5#, N-80 pup jt.
10,928.14	10,926.87	1.27		Otis XN nipple
10,926.87	10,896.61	30.26	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,896.61	10,894.50	2.11		2-7/8", 6.5#, N-80 pup jt.
10,894.50	10,890.23	4.27		Otis 7-5/8" R.H. packer
10,890.23	10,885.99	4.24		2-7/8", 6.5#, N-80 tbg. pup
10,885.99	10,854.85	31.14	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,854.85	10,851.67	3.18		Otis XA sliding sleeve
10,851.67	10,820.54	31.13	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,820.54	10,818.42	2.12		2-7/8", 6.5#, N-80 tbg. pup
10,818.42	10,804.90	13.52		Otis wireline release travel jt.
10,804.90	10,800.71	4.19		2-7/8", 6.5#, N-80 tbg. pup
10,800.71	10,769.66	31.05	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,769.66	10,764.29	5.37		Welded tubing pup
10,764.29	10,743.69	20.60		Pruett pressure chamber
10,743.69	10,737.96	5.73		Welded tubing pup
10,737.96	519.93	10,218.03	330	2-7/8", 6.5#, N-80 8RD EUE tbg.
519.93	517.79	2.14		2-7/8", 6.5#, N-80 tbg. pup
517.79	506.09	11.70		Otis "SCSSV" safety valve
506.09	501.88	4.21		2-7/8", 6.5#, N-80 tbg. pup
501.88	73.55	428.33	14	2-7/8", 6.5#, N-80 8RD EUE tbg.
73.55	63.55	10.00		2-7/8", 6.5#, N-80 tbg. pup
63.55	53.55	10.00		2-7/8", 6.5#, N-80 tbg. pup
53.55	52.90	.65		Fatigue nipple
52.90	52.00	.90		National tubing hanger
52.00	-0-	52.00		Landed below zero

tember 18, 1985

UNION OIL CO. OF CALIFORNIA
DRILLING RECORD

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MINERALS MGT. SERVICE
VENTURA DISTRICT

NOTED WRIGHT

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
6-14-85	12,400'PTD 740'/422'	Moved rig to slot 81 and spudded well 1530 hrs. 6-14-85. Drilled 17-1/2" hole from 318' to 740'. Pulled out of hole. Ran in hole and underreamed to 26" from 318' to 740'. Spotted gel mud and pulled out of hole. Rigging up to run casing.
6-15-84	740'/0'	Rigged up and ran 16 joints of 20", 94#, K-55 casing with Dril-Quip connectors, finned pup joint and 20-3/4", 3000 psi lower wellhead unit on running tool and 20" landing joints. Landed casing with Orifice fill stab-in shoe at 726'. Ran in hole with stab-in tool on 5" drill pipe. Stabbed into shoe and dropped ball to activate float equipment. Sheared ball with 800 psi. Cemented as follows; pumped 200 cf of sea water, 420 sacks Class "G" cement with .46 gps A-3L and 400 sacks Class "G" cement with .4 gps A-7L. Displaced cement with 8 barrels of water. Pulled stab-in out of shoe and dumped 30 cf of cement inside 20" casing. CIP 1145 hrs. Waited on cement for 10 hrs. Laid down landing joints and running tool. Installing BOPE.
6-16-85	1080'/340'	Continued to install BOPE and riser. Tested casing and blind rams to 250 and 500 psi. Ran in hole with 17-1/2" bit and cleaned out cement and shoe to 740'. Changed well over to clay base mud and pulled out of hole. Ran Gyro survey in 20" casing. Ran in hole with 17-1/2" bit and drilled to 1080'.
6-17-85	1583'/503'	Drilled and surveyed 17-1/2" hole from 1080' to 1450'. Circulated bottoms up and pulled out of hole. Drilled and surveyed from 1450' to 1583'. Circulated bottoms up and pulled out of hole. Underreamed hole to 22" from 740' to 1160'.
6-18-85	1588'/0'	Continued to underream to 22" from 1160' to 1583'. Circulated clean and pulled out of hole. Pulled wear bushing. Rigged up and ran 31 joints, 16", 75#, X-52 casing with VP-3 connectors and 16" cementing adaptor. Circulated and conditioned mud while reciprocating casing. Cemented as follows; pumped 200 cf of sea water and 1300 sacks Class "G" cement with .2 gps A-7L. Displaced cement with 271 barrels mud and bumped plug with 1200 psi (float equipment held). CIP 2045 hrs. Reciprocated casing through 190 barrels displacement. Landed casing with Orifice fill shoe at 1583', Orifice fill collar at 1542' and 16" adaptor at 368'. Released running tool and pulled out of hole. Ran in hole with 17-1/2" bit and cleaned out cement from 340' to 368'. Circulated clean and pulled out of hole. Waited on cement a total of 4 hrs. Tested blind rams and 16" X 20" lap to 500 psi. Installed wear bushing. Ran in hole with 14-3/4" bit, cleaned out cement adaptor from 368' to 377'. Ran in hole to 1539'. Tested upper and lower pipe rams, kill and choke lines, choke manifold, upper and lower Kelly cocks, inside BOP, safety valve and annular preventer to 250 and 500 psi.
6-19-85	2408'/825'	Cleaned out float collar at 1539' and cemented to 1547'. Tested casing to 500 psi. Cleaned out cement and shoe to 1583' and drilled to 1588'. Circulated clean. Tested formation to leakoff at 101 pcf equivalent mud weight. Pulled out of hole for drilling assembly change. Ran in hole and directionally drilled from 1588' to 2408'. Pulled out of hole for drilling assembly change.
6-20-85	3907'/ 1499'	Ran in hole and reamed Dyna-drill run from 1588' to 2408' and drilled to 2901'. Circulated clean and pulled out of hole for drilling assembly change (angle dropping too rapidly). Ran in hole and drilled to 3520'. Wiped hole to 2551'. Ran in hole and drilled to 3907'.

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LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
6-21-85	4015'/108'	Drilled 14-3/4" hole from 3907' to 4015'. Circulated and made 10 stand wiper trip. Circulated and pulled out of hole. Ran in hole with 18" underreamer and scraped 16" shoe joint from 1539' to 1583'. Underreamed hole to 18" from 1583' to 3110'.
6-22-85	4015'	Continued Underreaming 14-3/4" hole to 18" from 3110' to 4015'. Circulated and conditioned mud. Wiped hole to shoe. Ran in hole - no fill. Circulated and conditioned mud for casing. Pulled out of hole. Rigged up to run 13-3/8" casing. Made space out and drift run with 13-5/8", 5000 psi 3 step wellhead assembly and landing joints - O.K. Ran 100 joints of 13-3/8", 68#, K-55 ASL casing. Circulated and reciprocated casing at 9.9 bpm.
6-23-85	4015'	Rigged up cementers and established circulation with BJ - tested lines to 3000 psi. Pumped 35 barrels sea water ahead. Released bottom plug. Mixed and pumped 490 sacks Class "G" cement with .68 gps A-3L followed with 1475 sacks Class "G" cement with .2 gps A-7L. Released top plug and displaced 10 barrels sea water with BJ. Rigged down BJ and hooked up rig pump. Displaced 3200 strokes (393 barrels) while reciprocating casing, landed casing with auto fill shoe at 3998' and auto fill collar at 3956'. Displaced additional 1150 strokes (142 barrels). Pressured up to 1800 psi - total displaced 545 barrels (theoretical displacement 592 barrels). Began mixing lead slurry at 0821 hrs., tail slurry at 0908 hrs. Started displacement at 1013 hrs. CIP at 1123 hrs. Good circulation throughout job, contaminated mud returns after 3900 strokes (480 barrels). Tested seal assembly to 1100 psi - O.K. Laid down landing joint. Washed wellhead and BOPE with sea water. Nippled down 20-3/4" 3000 psi BOP. Installed 13-5/8", 5000 psi BOP and wear bushing at 0600 hrs.
6-24-85	4025'/10'	Continued to nipple up 13-5/8", 5000 psi BOPE. Tested casing and blind rams to 250 psi low, 2415 psi high. Ran in hole and tagged cement at 3560'. Tested upper and lower rams, Kelly cocks, choke manifold, choke and kill lines, safety valve, inside BOPE and annular preventer to 250 psi low, 2415 psi high. Cleaned out cement and float collar from 3560' to 3984'. Tested casing to 2450 psi for 30 minutes - OK. Cleaned out cement and shoe from 3984' to 3998'. Cleaned out hole from 3998' to 4015'. Drilled from 4015' to 4025'. Tested formation to leakoff with 800 psi at surface, 71 pcf mud (104.4 pcf EMW). Pulled out of hole.
6-25-85	4943'/918'	Ran in hole and cleaned out fill from 4015' to 4025'. Drilled and surveyed from 4025' to 4516'. Made short trip. Drilled and surveyed from 4516' to 4847'. Circulated bottoms up and pulled out of hole. Ran in hole and drilled from 4847' to 4943'.
6-26-85	6357'/ 1414'	Drilled and surveyed from 4943' to 5469'. Made short trip. Drilled and surveyed from 5469' to 6056'. Made short trip. Drilled and surveyed from 6056' to 6357'.
6-27-85	7267'/910'	Drilled and surveyed 12-1/4" hole from 6357' to 6882'. Circulated bottoms up and pulled out of hole. Ran in hole and reamed from 6671' to 6882'. Drilled from 6882' to 7267'.
6-28-85	8254'/987'	Directionally drilled 12-1/4" hole from 7267' to 7582'. Made short trip back to 6662'. Directionally drilled 12-1/4" hole from 7582' to 8254'.
6-29-85	8924'/670'	Directionally drilled 12-1/4" hole from 8254' to 8495'. Tripped for new bit. Reamed hole from 8400' to 8495'. Directionally drilled from 8495' to 8924'.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
6-30-85	9465'/541'	Directionally drilled 12-1/4" hole from 8924' to 9016'. Made short trip back to 7938'. Had tight hole from 8760' to 9016'. Increased mud weight to 84 pcf and raised Soltex concentration. Directionally drilled 12-1/4" hole from 9016' to 9465'. Tripped to 13-3/8" shoe at 3998'. Ran in hole - no fill or tight hole. Circulated and conditioned mud for 9-5/8" casing. Pulled out of hole laying down 12-1/4" bottom hole assembly at report time.
7-1-85	9465'/0'	Continued to lay down bottom hole assembly. Pulled wear bushing. Changed top pipe rams to 9-5/8". Tested BOP doors to 2400 psi. Rigged up and ran 237 joints of 9-5/8", 47#, N-80, 8RD casing. Cemented casing through shoe with 720 sacks Class "G" cement with .46 gps A-3L, .15 gps R-7L and .2% D-6 followed by 600 sacks Class "G" cement with .7% D-28 and .2 gps D-31L and .2% D-6. Preceded cement with 20 barrels weighted mud sweep and displaced with 10 barrels water and 690 barrels mud (3.7% over theoretical). Reciprocated casing throughout cement job and landed casing with shoe at 9422' and float collar at 9337'. Bumped plug with 1800 psi. Displaced cement at 12 bpm. CIP 0335 hrs. Float equipment held - O.K. Backed out landing joint. Installed and tested seal assembly.
7-2-85	9465'/0'	Changed rams in BOP. (Power shut down for transformer change at Mandalay from 0700 hrs. - 1700 hrs.) Tested BOP. Tested casing to 2500 psi. Set wear bushing. Ran in hole and tagged float collar at 9336'. Cleaned out float collar and cement to shoe at 9422'. Cleaned out to 9465'.
7-3-85	9820'/353'	Drilled 8-1/2" hole to 9475'. Tested formation to leakoff at 136 pcf equivalent mud weight. Drilled to 9820'. Circulated bottoms up and pulled out of hole for bit change. Ran in hole.
7-4-85	10,232'/412'	Drilled to 10,051'. Circulated and checked for flow. Continued drilling to 10,232' and weighted up mud from 86 pcf to 97 pcf. Stuck drill string at 10,232' after making connection and surveying at 1900 hrs. Worked stuck drill pipe. Ran in hole with freepoint tools.
7-5-85	10,232'/0'	Continued to run in hole with free point tools and string shot - tools not working. Pulled out of hole and adjusted tension springs on free point tool. Ran in hole - tool would not go passed 5900'. Attempted to pump tool down - no good. Ran in hole with string shot. Fired shot and backed off drill pipe at 9373'. Pulled out of hole with wireline. Pulled out of hole. Recovered all drill pipe and 5 joints of Hevi-wate. Ran in hole with fishing assembly to 9373' and screwed into fish. Spotted 90 barrels mineral oil base mud, 40 barrels oil in annulus and 50 barrels in drill string. Jarred on fish while moving oil 1 bph.
7-6-85	10,232'/0'	Continued to jar on fish while moving oil 1 bph (drill pipe stuck for 59 hrs., oil in place for 31 hrs.).
7-7-85	10,232'/0'	Continued to jar on fish while moving oil 1 bph. Ran free point - indicated pipe stuck at 9-5/8" casing shoe. Jarred on fish and circulated bottoms up. Ran in hole and cut drill string at 9495'. Jarred fish free and circulated bottoms up. Pulled out of hole. Recovered 122' of Hevi-wate drill pipe. Ran in hole with 8-1/2" bit.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
7-8-85	10,232'/0'	Continued to run in hole to 9422'. Circulated and conditioned mud. Ran in hole to top of fish at 9501' (tight hole from 9422' to 9448'). Circulated bottoms up and checked well for flow. Pulled out of hole to 9345'. Slipped and cut drilling line. Continued to pull out of hole. Ran in hole to 9501' with open end 2-7/8" tubing on 5" drill pipe. Circulated bottoms up. Equalized kick-off plug as follows: pumped 10 barrels of sea water, 120 sacks Class "G" cement with .2 gps A-31L, .4 gps R-12L and .2% D-6, mixed at 17.5 ppg, 1 barrel of sea water and 155 barrels mud. CIP 1810 hrs. (estimated top of cement 9272'). Pulled out of hole to 8502' and circulated bottoms up. Continued to pull out of hole. Pulled wear bushing and tested BOPE. Running in hole with 8-1/2" bit.
7-9-85	9548'/126'	Continued to run in hole and tagged top of cement at 9255'. Cleaned out cement from 9255' to 9422'. Circulated and conditioned mud. Pulled out of hole. Ran in hole and directionally drilled from 9422' to 9548'. Circulated clean and pulled out of hole.
7-10-85	9831'/283'	Ran in hole and reamed from 9422' to 9548' and drilled to 9628'. Circulated bottoms up and pulled out of hole to 9422'. Replaced split Kelly hose. Pressure tested hose to 3000 psi. Ran in hole and drilled to 9831'.
7-11-85	10,157'/ 326'	Drilled to 9844' and circulated bottoms up. Pulled out of hole for bit and drilling assembly change. Ran in hole and drilled to 10,157'. Circulated and conditioned mud.
7-12-85	10,521'/ 364'	Continued to circulate bottoms up. Pulled out of hole for bit and drilling assembly change. Ran in hole and drilled to 10,521'. Circulated bottoms up. Pulled out of hole for bit change.
7-13-85	10,682'/ 161'	Continued to pull out of hole. Ran in hole. Established circulation and checked Teleco tool at 900' and 6000' - O.K. Pulled out of hole and laid down Teleco tool due to sticking problem. Ran in hole and drilled to 10,601'. Circulated and increased mud weight to 105 pcf. Drilled to 10,682'.
7-14-85	10,962'/ 280'	Wiped hole to 9-5/8" casing shoe. Ran in hole and drilled to 10,845'. Circulated bottoms up and dropped survey. Pulled out of hole for bit change. Ran in hole and reamed from 10,760' to 10,845' and drilled to 10,962'.
7-15-85	11,319'/ 357'	Drilled from 10,962' to 11,107'. Circulated bottoms up. Made short trip into 9-5/8" shoe. Ran in hole and drilled from 11,107' to 11,144' - drilling break at 11,144'. Circulated and checked for flow - negative. Drilled from 11,144' to 11,319'. Circulated bottoms up. Pulled out of hole for bit change.
7-16-85	11,500'/ 181'	Pulled wear bushing, set test plug and performed weekly BOP test. Changed out stand pipe bumper hose, retrieved test plug and reset wear bushing. Made up BHA. Ran in hole and reamed from 11,190 to 11,319. Drilled from 11,319 to 11,500'. Circulated bottoms up and wiped hole to shoe; tight hole from 10,250' to 10,130'.
7-17-85	11,500'/0'	Stuck pipe at 10,428' while making connection on wiper trip. Worked stuck pipe. Spotted 99 barrels of 105 pcf mineral oil mud (50 barrels in annulus, 49 barrels in drill string). Worked pipe and circulated mud 1 bph. Rigged up and ran free point and string shot - free point indicated pipe free at 9578'. Performed back off with string shot at 9405'. Pulled out of hole and rigged down loggers. Made up fishing assembly. Ran in hole with fishing tools.

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7-18-85	11,500'/0'	Ran in hole with fishing tools. Screwed into fish at 9405'. Worked stuck pipe.
7-19-85	11,500'/0'	Continued working stuck pipe. Began circulating oil base mud at 1600 hrs. Worked pipe while circulating.
7-20-85	11,500'/0'	Circulated oil base mud whle working stuck pipe. Rigged up Dialog and ran free point.
7-21-85	11,500'/0'	Continued to run freepoint - found pipe free at top of Hevy-wate drill pipe. Performed back-off at 9590' (leaving 1 joint of drill pipe above Hevy-wate drill pipe). Rigged down Dialog. Pulled out of hole and laid down fishing assembly. Ran in hole and reamed from 9422' to 9590'. Circulated bottoms up and pulled out of hole. Ran in hole with 680' of 2-7/8" tubing on 5" drill pipe. Balanced cement plug as follows: pumped 10 barrels of water ahead, mixed and pumped 80 sacks Class "G" cement with .2% D-6, .2 gps D-31L, .04 gps R-12L at 17.5 ppg. Displaced with 1 barrel of water and 158 barrels mud. CIP 0600 hrs.
7-22-85	9517'ETD	Pulled out of hole and laid down tubing tail. Ran in hole with bit #19. Tagged top of cement at 9417'. Cleaned out cement from 9417' to 9500'. Circulated and conditioned mud. Made short trip to 9295'. Checked for flow - negative. Slipped and cut drilling line. Ran in hole and cleaned out cement from 9500' to 9517'. Circulated bottoms up and pulled out of hole. Pulled wear bushing. Set test plug and tested annular preventer to 250 psi low, 3500 psi high. Tested upper and lower pipe rams, choke manifold and remaining surface equipment to 250 psi low, 4800 psi high. Pulled test plug and set wear bushing. Changed Kelly bushing, bearings and pins.
7-23-85	9613'/91'	Ran in hole and Dyna Drilled from 9517' (KOP) to 9613'. Circulated bottoms up. Pulled out of hole. Laid down Dyna Drill. Made up drilling assembly and ran in hole.
7-24-85	9952'/339'	Reamed Dyna-drill run from 9517' to 9613'. Drilled from 9613' to 9952'. Circulated bottoms up and pulled out of hole. Changed out bit and stabilizer. Ran in hole.
7-25-85	10,333'/ 381'	Ran in hole to 9952'. Drilled from 9952' to 10,197'. Circulated and wiped hole to 9422'. Ran in hole and drilled to 10,333'. Circulated bottoms up. Pulled out of hole to change bit.
7-26-85	10,665'/ 332'	Ran in hole and reamed from 10,295' to 10,333'. Drilled and surveyed from 10,333' to 10,512'. Circulated bottoms up. Made short trip to 9422'. Ran in hole and drilled to 10,665'. Circulated bottoms up and pulled out of hole to change bit.
7-27-85	11,040'/ 375'	Ran in hole and reamed from 10,625' to 10,665'. Drilled and surveyed from 10,665' to 10,910'. Circulated bottoms up. Made short trip to 9422'. Ran in hole and drilled to 11,040'.
7-28-85	11,318'/ 278'	Drilled and surveyed from 11,040' to 11,124'. Circulated bottoms up. Checked for flow - negative. Pulled out of hole for bit change. Made up bottom hole assembly. Ran in hole and reamed from 11,073' to 11,124'. Drilled from 11,124' to 11,306'. Circulated bottoms up. Made short trip to 9386'. Ran in hole and drilled to 11,318'.

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7-29-85	11,345'/ 27'	Drilled and surveyed from 11,318' to 11,345'. Circulated bottoms up. Made short trip to 9386'. Cut and slipped drilling line. Ran in hole to 11,345'. Circulated and conditioned mud for logging. Pulled out of hole. Rigged up loggers. Ran DIL-MSFL-GR from 11,331' to 9421'. Running FDC-CNL-GR.
7-30-85	11,345'TD	Ran FDC-CNL-GR from 11,351' to 9421'. Rigged down loggers. Pulled wear bushing and set test plug. Tested top and bottom rams, crossover spool, riser, kill and choke lines, choke manifold, upper and lower Kelly cocks, TIW valves, and inside safety valves to 250 psi low, 4800 psi high. Tested annular preventer to 250 psi low, 3500 psi high. Pulled test plug and set wear bushing. Ran in hole with underreamer. Scraped casing from 9370' to 9422'. Cut shoulder at 9432'. Underreamed 8-1/2" hole to 10" from 9432' to 10,000'.
7-31-85	11,345'TD	Continued underreaming 8-1/2" hole to 10" from 10,000' to 10,114'. Circulated bottoms up. Pulled out of hole to change underreamer. Ran in hole and underreamed from 10,114' to 10,558'.
8-1-85	11,345'TD	Continued underreaming 8-1/2" hole to 10" from 10,558' to 10,966'. Circulated bottoms up. Pulled out of hole to change underreamer. Ran in hole and underreamed from 10,966' to 11,287'.
8-2-85	11,345'TD	Continued to underream hole from 11,287' to 11,345'. Circulated bottoms up and pulled out of hole. Ran in hole with 8-1/2" bit and casing scraper to 9422'. Circulated clean and pulled out of hole. Rigged up and ran 62 joints of 7-5/8", 33.7# N-80 Hydril super flush joint casing with Brown multi-cone hydraulic liner hanger on 5" drill pipe. Circulated and conditioned mud while reciprocating casing.
8-3-85	11,345'TD 11,261'ETD	Continued to circulate and condition mud. Cemented 7-5/8" liner as follows: pumped 10 barrels of 105 pcf salt water base clay mud, 522 sacks Class "G" cement with .8% D-28, .2 gps D-31L and .2% D-6. Displaced cement with 10 barrels of 105 pcf salt water mud and 253 barrels of 108 pcf oil base mud. Reciprocated casing through 90% of displacement. Landed casing with float shoe at 11,344', landing collar at 11,262' and liner hanger at 8908'. Bumped plug with 2400 psi and set liner hanger - float equipment held. CIP 1045 hrs. 8-3-85. Released from liner and pulled out of hole to 8814'. Reverse circulated clean (slight cement contamination). Pulled out of hole. Ran in hole with 8-1/2" bit and casing scraper and tagged top of liner at 8908'. Circulated and conditioned mud. Pulled out of hole. Running in hole with 6-5/8" bit and casing scraper.
8-4-85	11,345'TD 11,261'ETD	Continued to run in hole and cleaned out cement stringers from 8908' to 8922', 9310' to 10,404' and 11,222' to 11,261'. Circulated and conditioned mud. Tested liner lap to 2500 psi. Circulated and conditioned mud. Pulled out of hole. Rigged up wireline for CBL log.
8-5-85	11,345'TD 11,261'ETD	Ran CBL-VDL-GR, PNL-GR logs. Laid down 3-1/2" drill pipe. Installed 3-1/2" upper and lower tubing rams. Pulled wear bushing. Tested BOPE. Installed wear bushing. Running in hole with 5" perforating guns on 3-1/2" PH-6 Hydril tubing.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
8-6-85	11,345'TD 11,261'ETD	Continued to run in hole with perforating assembly and tagged bottom at 11,259'. Pulled up and positioned guns. Established circulation. Displaced 3-1/2" tubing to 1100' with nitrogen. Set packer and closed unloader valve. Bled off nitrogen. Closed tubing rams and pressured annulus to 900 psi. Perforated 7-5/8" liner from 11,062' to 11,190' with twelve .8" hpf. Tubing pressure remained constant and there were no indications of fluid entry. Pulled packer loose and circulated bottoms up - had 120 pcf mud on bottoms up, no oil or formation fluid. Pulled out of hole. Made up DST assembly and tested recorder carriers and tester valve to 5000 psi. Running in hole with test strings for DST #1.
8-7-85	11,345'TD 11,261'ETD	Continued to run in hole with test string. Installed surface equipment and tested to 5000 psi. Attempted to set packer at 11,000' - no good. Pulled packer to 10,545' and continued trying to set packer. Discovered that Baker Retrievomatic packer was left hand set instead of right hand set. Ran in hole and set packer. DST #1 LP-N 11,062'-11,190' (127') Packer at 11,000', tail at 11,030' Cushion: 3950 psi N_2 IF: 6 Min. tubing pressure 4094 psi, fluid level rose 401' (1.9 bbls) ISI: 50 Min. 2nd F: 3 Hrs. 29 Min. Bled down N_2 - total fluid rise 536' (2.5 bbls) Fluid level rose 135' in first 5 Min. of second flow then stopped. Closed well in at surface with no pressure increase - indicating tool plugged. Bled N_2 to zero psi with trace of gas to surface at 2100 hrs. Closed tester valve. Filled tubing with 76 bbls mud, 78 bbls theoretical (2 bbl entry). Blew reversing sub at 2600 psi and reverse circulated clean - no formation fluid or hydrocarbons. Pulled packer loose and circulated bottoms up.
8-8-85	11,345'TD 11,261'ETD	Pulled out of hole and laid down tubing. Inspected Lynes test tools - found that over pressure piston on POTT valve had sheared, causing ball valve to close 5 minutes into second flow period (ball valve had also washed out). Changed upper and lower pipe rams to 2-7/8". Pulled wear bushing. Set test plug. Conducted BOPE test.
8-9-85	11,261'ETD	Completed BOP test. Made up 6-5/8" bit in 7-5/8" casing scraper and ran in hole and tagged fill at 11,078'. Cleaned out fill from 11,078' to 11,261' (183'Fill). Circulated bottoms up. Cleaned and dumped active system.
8-10-85	11,261'ETD	Continued cleaning oil base mud from active system. Took on 105 pcf $CaBr_2$ completion fluid. Pumped 50 barrels of High-viscosity bromide spacer and changed well over to $CaBr_2$. Circulated and conditioned $CaBr_2$ through mud cleaner using 200 Mesh screens.
8-11-85	11,261'ETD	Continued circulating and conditioning $CaBr_2$ fluid through mud cleaner with 200 Mesh screens. Swept hole with High-viscosity sweep. Transferred fluid from active system to Polymer and re-cleaned active mud pits. Shipped fluid back into active system. Mixed one drum of Dirt Magnet with 40 barrels $CaBr_2$ and circulated around to clean hole. Pulled out of hole with scraper. Picked up 8 joints of 3-1/2", N-80 CS Hydril stainless steel wire-wrapped liner with .02 Mesh screen. Picking up gravel pack tail at report time.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
8-12-85	11,345'TD 11,259'ETD	Positioned liner with Bullnose shoe at 11,260', .02" stainless wire-wrapped screen from 11,259' to 11,009', Baker port collar at 10,980', top of SC-1 packer at 10,971'. Established circulation at 2-1/2 bpm, 700 psi. Dropped setting ball and set packer with 1100 psi. Sheared ball seat with 3200 psi. Tested annulus to 1500 psi, released from hanger. Established circulation in backscuttling position at 2-1/2 bpm, 700 psi; in gravel pack position, 2-1/2 bpm, 900 psi. With tool in gravel pack position tested annulus to 1500 psi then pumped 10 barrels pre-pad at 2-1/4 bpm, 700 psi followed by 30 barrels of slurry mixed at 5 ppg with 16-30 Mesh Ottawa sand at 2-1/4 bpm. Displaced with 5 barrels after-pad and 52 barrels of $CaBr_2$. Sanded out at 2500 psi, 1/4 bpm. Reversed clean (40 sacks of gravel in place, 44 sacks theoretical, 91% of theoretical in place). Waited 2 hours. With tool in gravel pack position, established circulation at 2-1/2 bpm, 900 psi. With tool in backscuttle position, pumped 5 barrels of pre-pad, 2-1/4 bpm, 10 barrels slurry mixed at 2.5 ppg 16-30 Mesh Ottawa gravel. Displaced with 5 barrels of after-pad, 40 barrels with $CaBr_2$. Lowered tool into gravel pack position and displaced with total of 65 barrels of $CaBr_2$. Achieved sand-out at 2500 psi, 1/4 bpm. Reversed clean (50 sacks of gravel in place, 113% theoretical). Waited 1 hour. Pumped into pack at 1-1/4 bpm, 1600 psi. Closed port collar and tested to 2000 psi. Pulled out of hole and laid down gravel packing tools.
8-13-85	11,345'TD 11,259'ETD	Rigged up and ran 2-7/8", EUE, 8RD test string, pressure testing to 5000 psi. Landed tubing with shoe at 10,940'.
8-14-85	11,345'TD 11,259'ETD	Attempted to energize seals on tubing hanger without success. Pulled hanger to rig floor and re-dressed. Re-landed hanger, tightened anchor screws and tested hanger to 2000 psi. Rigged up test tree. Rigged up wireline. Ran in hole with XN plug and set in XN nipple at 10,929'. Pulled out of hole with wireline. Pressured tubing to 4500 psi to set packer. Attempted to test packer by pressuring annulus to 2500 psi - at 2100 psi tubing hanger anchor lugs sheared blowing hanger 20' up hole. Pulled hanger. Laid down 1 joint of bent tubing. Pressure tested tubing above flapper valve to 3200 psi - O.K. Opened flapper valve. Ran in hole and retreived XN plug. Reversed out sea water in tubing. Pulled out of hole with test string.
8-15-85	11,345'TD 11,259'ETD	Drained stack and changed out tubing hanger anchor screws. Conducted BOP test. Changed out hydraulic packer and ran in hole with test string.
8-16-85	11,345'TD 11,259'ETD	Landed test string with shoe at 10,940'. Tested tubing anchor to 2000 psi - OK. Displaced tubing with 62 barrels of sea water. Rigged up wireline and lubricator. Ran in hole and set "XN" plug in "XN" nipple at 10,929'. Pressured tubing to 4800 psi to set packer. Retrieved "XN" plug.
8-17-85	11,345'TD 11,259'ETD	Rigged down wireline. Placed well on test - flammable gas to surface at 1330 hours, oil to surface at 1805 hours.
8-18-85	11,345'TD 11,259'ETD	Continued to flow well. Shut well in at 1600 hours. Final rate 182/182, .1%, 109 MCF, 200 psi tubing and 1091 psi BHP. Monitored bottom hole pressure until 1800 hours. Rigged up wireline and tripped travel joint. Rigged down wireline. Closed flapper valve, set tubing back pressure valve, removed BOPE and skid rig.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
8-19-85	11,345'TD 11,259'ETD	Installed production tree. Tested tree to 5000 psi. Turned well over to production. Released rig at 0830 hrs.
8-27-85	11,345'TD 11,259'ETD	Resumed operations 8-27-85. Rigged up coil tubing unit, nitrogen unit, and Hallibutron MV 222 stimulation vessel. Attempted to pressure test lines, gauges showed 1000 psi discrepancy. Tore out gauge line and found frac sand in bladder for hydraulic line. Pressure tested lines to swab valve to 5000 psi with water. Ran in hole with 1-1/4" coil tubing to 11,190' while circulating diesel at .5 bpm at 3730 psi. Circulated 650 gallones of HAS solvent with 2% Hyflo IV down 1-1/4" tubing. Shut-in well and pumped another 1350 barrels of solvent at .3 to .4 bpm and 3930 psi. Pumped 5 barrels 2% NH_4Cl water to clear flex hose, then displaced 1-1/4 " coil tubing with nitrogen at 200 SCF/min. 3800 psi. Temporarily released boat. Returned well temporarily to production at 0630 hrs. Brought well on slowly.
8-28-85	11,345'ETD	Flowed well for 16 hours to recover broken emulsion and 2000 gallons of HAS solvent with 2% Hyflo IV. Initial tests showed well was flowing 394 BPD and 103 MCF/D. Production declined to 199 BPD and 125 MCF/D by 2200 hrs. Over 100 barrels of fluid recovered (solvent and crude oil). Rigged up MV 222 to acid stimulate the well. Hydro-tested Halliburton lines downstream of coil tubing unit to 4000 psi; coil tubing at 10,872'. Spotted 650 gallons of MOD 202 acid while reciprocating coil tubing through perforated interval. Shut-in well and pumped 1290 gallons of MOD acid at 0.5 bpm and 3670 psi. Treating pressure decreased to 3520 psi with 1700 gallons of 6% - 1-1/2% HCl-HF pumped. Pumped 430 gallons 5% HCl at 0.5-0.6 bpm at 3600-3700 psi. Diverter stage eliminated due to insufficient rate increase. Pumped 1940 gallons MOD 202 acid at 0.5 bpm and 3670 psi. Pumped 1940 gallons of 6% - 1-1/2% HCl-HF at 0.5 bpm and 3670 psi. Pumped 430 gallons of 5% HCl at 0.5 bpm at 3670 psi. Commenced pumping third stage of MOD 202 acid, 0.5 bpm at 3670 psi. Cumulative pumped = 10,610 gallons (253 barrels).
8-29-85	11,345'ETD	Continued pumping acid treatment. Total acid pumped = 12,900 gallons (5805 gallons MOD 202, 5805 gallons of 6% - 1-1/2% HCl-HF, 1290 gallons 5% HCl). All stages contained the following additives: 0.2% HAI-75 corrosion inhibitor 0.5% LO-SURF 300 surfactant 0.5% AS-7 anti-sludging agent 20#/1000 gallons FERCHECK 50#/1000 gallons EDTA 2% Musol A 2% Cla-Sta FS Displaced acid with 2 barrels of 3% NH_4Cl water followed by nitrogen. Pulled out of hole with coil tubing. Rigged down BJ-Titan and Halliburton. Rigged up work vessel. Pumped 100 barrels of soda ash solution from polymer pits to tanks on boat. Returned well to production at 1800 hrs.

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20", 94#, X-52, DRIL-QUIP CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
726.23	723.73	2.50		B&W stab-in shoe
723.73	62.47	661.26	16	20", 94#, X-52 csg. w/Dril-Quip jt.
62.47	56.00	6.47		National 20-3/4", 3000 psi head w/pup jt.
56.00	-0-	56.00		Landed below zero

16", 75#, X-52, VP-3 CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
1583.00	1580.80	2.20		B&W orifice fill shoe
1580.80	1542.47	38.33	1	16", 75#, X-52, csg.
1542.47	1542.07	.40		16" nipple
1542.07	1539.62	2.45		B&W orifice fill collar
1539.62	413.77	1125.85	29	16", 75#, X-52, csg.
413.77	376.87	36.90	1	16", 75#, X-52 VP-3 Butt XO jt.
376.87	367.82	9.05		16" cement adapter
367.82	-0-	367.82		Below zero

13-3/8", 68#, K-55, ASL CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
3998.27	3996.07	2.20		Howco auto fill shoe
3996.07	3957.69	38.38	1	13-3/8", 68#, K-55 ASL casing
3957.69	3955.79	1.90		Howco auto fill float collar
3955.79	58.72	3897.07	99	13-3/8, 68#, K-55 Armco NS csg.
58.72	52.00	6.72		National 13-5/8" 5M 3 step upper wellhead
52.00	-0-	52.00		Landed below zero

9-5/8", 47#, N-80, LT&C, 8RD CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
9422.05	9419.95	2.10		Howco auto-fill shoe
9419.95	9339.18	80.77	2	9-5/8", 47#, N-80, 8RD LT&C csg.
9339.18	9337.43	1.75		Howco auto-fill float collar
9337.43	96.50	9240.93	234	9-5/8", 47#, N-80, 8RD LT&C csg.
96.50	57.55	38.95	1	8RD, Pin X butt box XO joint
57.55	53.00	4.55		csg. hanger and pup
53.00	-0-	53.00		Landed below zero

7-5/8", 33.7#, N-80 HYDRIL FLUSH JOINT NS CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
11,344.00	11,342.15	1.85		Brown V-set float shoe
11,342.15	11,303.18	38.97	1	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
11,303.18	11,302.23	.95		Brown ball catcher sub baffle
11,302.23	11,262.73	39.50	1	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
11,262.73	11,261.77	.96		Brown Type 2 landing collar
11,261.77	8921.79	2339.98	60	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
8921.79	8908.90	12.89		Brown HMC liner hanger
8908.90	-0-			Hung below K.B.

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3-1/2", 9.3, N-80 C.S. HYDRIL LINER DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
11,260.00	11,009.04	250.96	8	3-1/2", N-80, 9.3# SSWW
11,009.04	10,983.41	25.63		Lower extension
10,983.41	10,981.92	1.49		Seal bore
10,981.92	10,982.27	1.65		Reciprocating port collar
10,980.27	10,974.77	5.50		Upper extension
10,974.77	10,971.73	3.04		Baker Model SC-1 packer

2-7/8", 6.5#, N-80, EUE, 8-RD TUBING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
10,938.69	10,938.29	.40		45° mule shoe collar
10,938.29	10,928.14	10.15		2-7/8" 6.5#, N-80 pup jt.
10,928.14	10,926.87	1.27		Otis XN nipple
10,926.87	10,896.61	30.26	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,896.61	10,894.50	2.11		2-7/8", 6.5#, N-80 pup jt.
10,894.50	10,890.23	4.27		Otis 7-5/8" R.H. packer
10,890.23	10,885.99	4.24		2-7/8", 6.5#, N-80 tbg. pup
10,885.99	10,854.85	31.14	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,854.85	10,851.67	3.18		Otis XA sliding sleeve
10,851.67	10,820.54	31.13	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,820.54	10,818.42	2.12		2-7/8", 6.5#, N-80 tbg. pup
10,818.42	10,804.90	13.52		Otis wireline release travel jt.
10,804.90	10,800.71	4.19		2-7/8", 6.5#, N-80 tbg. pup
10,800.71	10,769.66	31.05	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,769.66	10,764.29	5.37		Welded tubing pup
10,764.29	10,743.69	20.60		Pruett pressure chamber
10,743.69	10,737.96	5.73		Welded tubing pup
10,737.96	519.93	10,218.03	330	2-7/8", 6.5#, N-80 8RD EUE tbg.
519.93	517.79	2.14		2-7/8", 6.5#, N-80 tbg. pup
517.79	506.09	11.70		Otis "SCSSV" safety valve
506.09	501.88	4.21		2-7/8", 6.5#, N-80 tbg. pup
501.88	73.55	428.33	14	2-7/8", 6.5#, N-80 8RD EUE tbg.
73.55	63.55	10.00		2-7/8", 6.5#, N-80 tbg. pup
63.55	53.55	10.00		2-7/8", 6.5#, N-80 tbg. pup
53.55	52.90	.65		Fatigue nipple
52.90	52.00	.90		National tubing hanger
52.00	-0-	52.00		Landed below zero

September 18, 1985

TED WRIGHT

UNION OIL COMPANY OF CALIF.
OCS-P-0216 #S-44
PLAT. GILDA, SANTA CLARA UNIT

RECEIVED
OCT - 1985
MINERALS MGT. SERVICE
VENTURA DISTRICT

JOB NUMBER 113DM785155
JUNE-JULY, 1985
ELEVATION 107 FT.

DECL. CORR. 14 DEG. 30 MIN. EAST

MEAS. DEPTH	DRIFT ANGLE	DRIFT BEARING	VERTICAL DEPTH	ELEVATION (-) SUB-SEA	TOTAL COORDINATES		DOGLEG /100'
700	0012	S15 29W	700.0	-593.0	.3 S	.3 W	TIE IN
882	0030	N64 30E	882.0	-775.0	1.0 S	.6 E	.4
1038	0030	S25 30E	1038.0	-931.0	1.5 S	1.8 E	.5
1195	0030	S35 30E	1195.0	-1088.0	2.6 S	2.5 E	.1
1420	0100	N73 54E	1420.0	-1313.0	3.6 S	5.3 E	.4
1541	0318	N45 48E	1540.9	-1433.9	1.3 S	9.2 E	2.0
1597	0600	N32 06E	1596.7	-1489.7	2.2 N	12.1 E	5.2
1659	0854	N32 06E	1658.2	-1551.2	9.0 N	16.4 E	4.7
1751	1400	N31 24E	1748.3	-1641.3	24.5 N	26.0 E	5.5
1844	1918	N32 06E	1837.4	-1730.4	47.2 N	40.0 E	5.7
1938	2254	N33 06E	1925.1	-1818.1	75.7 N	58.2 E	3.8
2033	2730	N31 42E	2011.1	-1904.1	109.9 N	79.9 E	4.9
2127	3130	N32 48E	2092.9	-1985.9	149.0 N	104.6 E	4.3
2249	3706	N33 48E	2193.7	-2086.7	206.5 N	142.3 E	4.6
2342	4218	N35 54E	2265.2	-2158.2	255.2 N	176.3 E	5.8
2436	4524	N34 54E	2333.0	-2226.0	308.3 N	214.0 E	3.4
2591	4436	N35 12E	2442.6	-2335.6	398.0 N	277.0 E	.5
2778	4400	N34 54E	2576.5	-2469.5	504.9 N	352.0 E	.3
2928	4354	N34 54E	2684.5	-2577.5	590.3 N	411.5 E	.1
3240	4442	N35 12E	2907.8	-2800.8	768.7 N	536.7 E	.3
3393	4500	N35 12E	3016.2	-2909.2	856.9 N	598.9 E	.2
3550	4548	N34 54E	3126.5	-3019.5	948.4 N	663.1 E	.5
3705	4600	N34 54E	3234.3	-3127.3	1039.7 N	726.8 E	.1
3859	4600	N35 12E	3341.3	-3234.3	1130.4 N	790.4 E	.1
4114	4630	N35 36E	3517.6	-3410.6	1280.5 N	897.1 E	.2
4359	4812	N35 12E	3683.6	-3576.6	1427.4 N	1001.5 E	.7
4598	4906	N34 54E	3841.5	-3734.5	1574.3 N	1104.5 E	.4
4884	5006	N34 30E	4026.9	-3919.9	1753.4 N	1228.5 E	.4
5038	4942	N34 12E	4126.1	-4019.1	1850.6 N	1295.0 E	.3
5285	4912	N34 30E	4286.7	-4179.7	2005.6 N	1400.9 E	.2
5533	4848	N33 54E	4449.4	-4342.4	2160.4 N	1506.1 E	.2
5686	4830	N34 12E	4550.4	-4443.4	2255.5 N	1570.4 E	.2
5930	4736	N34 12E	4713.6	-4606.6	2405.6 N	1672.4 E	.4
6176	4648	N33 48E	4880.7	-4773.7	2555.3 N	1773.3 E	.3
6420	4624	N33 48E	5048.3	-4941.3	2702.6 N	1871.9 E	.2

MEAS. DEPTH	DRIFT ANGLE	DRIFT BEARING	VERTICAL DEPTH	ELEVATION (-)SUB-SEA	TOTAL COORDINATES		DOGLEG /100'
6662	4612	N33 30E	5215.5	-5108.5	2848.2 N	1968.9 E	.1
6813	4612	N33 30E	5320.1	-5213.1	2939.1 N	2029.0 E	0.0
7049	4624	N33 30E	5483.1	-5376.1	3081.4 N	2123.2 E	.1
7296	4636	N33 30E	5653.1	-5546.1	3230.8 N	2222.1 E	.1
7480	4630	N33 48E	5779.7	-5672.7	3342.0 N	2296.1 E	.1
7757	4630	N32 48E	5970.3	-5863.3	3509.9 N	2406.4 E	.3
8000	4630	N33 06E	6137.6	-6030.6	3657.8 N	2502.3 E	.1
8243	4636	N32 48E	6304.7	-6197.7	3805.9 N	2598.2 E	.1
8426	4636	N33 06E	6430.5	-6323.5	3917.4 N	2670.6 E	.1
8580	4648	N33 30E	6536.1	-6429.1	4011.1 N	2732.1 E	.2
8731	4648	N33 48E	6639.4	-6532.4	4102.8 N	2793.1 E	.1
8885	4636	N34 12E	6745.1	-6638.1	4195.7 N	2855.8 E	.2
9037	4618	N34 30E	6849.8	-6742.8	4286.6 N	2917.9 E	.2
9190	4624	N35 12E	6955.4	-6848.4	4377.5 N	2981.2 E	.3
9395	4600	N35 36E	7097.3	-6990.3	4498.1 N	3066.9 E	.2
9563	4606	N35 36E	7213.9	-7106.9	4596.4 N	3137.3 E	.1
9715	4540	N35 36E	7319.7	-7212.7	4685.2 N	3200.8 E	.3
9867	4612	N35 12E	7425.4	-7318.4	4774.2 N	3264.1 E	.4
10019	4624	N35 12E	7530.4	-7423.4	4864.0 N	3327.4 E	.1
10170	4618	N34 54E	7634.7	-7527.7	4953.4 N	3390.2 E	.2
10237	4618	N34 54E	7680.9	-7573.9	4993.1 N	3417.9 E	0.0

CLOSURE: 6050.9 FEET N 34 DEG. 24 MIN. E

COMPUTED USING THE AVERAGED ANGLE METHOD

COORDINATES AT 700 FT. FROM SDI GYRO SURVEY.

SURVEY AT 10237 FT. DEPTH IS PROJECTED.

UNION OIL COMPANY OF CALIF.
OCS-P-0216 #S-44 SIDETRACK #1
PLAT. GILDA, SANTA CLARA UNIT

JOB NUMBER 113DM785155
JULY, 1985
ELEVATION 107 FT.

DECL. CORR. 14 DEG. 30 MIN. EAST

MEAS. DEPTH	DRIFT ANGLE	DRIFT BEARING	VERTICAL DEPTH	ELEVATION (-)SUB-SEA	TOTAL COORDINATES		DOGLEG /100'
9395	4600	N35 36E	7097.3	-6990.3	4498.1 N	3066.9 E	TIE IN
9455	4648	N39 48E	7138.7	-7031.7	4532.5 N	3093.5 E	5.2
9741	4836	N38 00E	7331.1	-7224.1	4697.1 N	3226.3 E	.8
9865	4854	N39 30E	7412.9	-7305.9	4769.8 N	3284.6 E	.9
10016	4836	N37 18E	7512.5	-7405.5	4858.8 N	3355.2 E	1.1
10166	4812	N38 06E	7612.1	-7505.1	4947.5 N	3423.8 E	.5
10318	4754	N38 48E	7713.7	-7606.7	5036.0 N	3494.0 E	.4
10471	4730	N38 24E	7816.6	-7709.6	5124.5 N	3564.6 E	.3
11500	4730	N38 24E	8511.8	-8404.8	5719.0 N	4035.9 E	0.0

CLOSURE: 6999.7 FEET N 35 DEG. 13 MIN. E

COMPUTED USING THE AVERAGED ANGLE METHOD

COORDINATES AT 9395 FT. FROM S-44 SURVEY..

SURVEY AT 11500 FT. DEPTH IS PROJECTED.

UNION OIL COMPANY OF CALIF.
OCS-P-0216 #S-44 SIDETRACK #2
PLAT. GILDA, SANTA CLARA UNIT

JOB NUMBER 113DM885163
JULY, 1985
ELEVATION 107 FT.

DECL. CORR. 14 DEG. 30 MIN. EAST

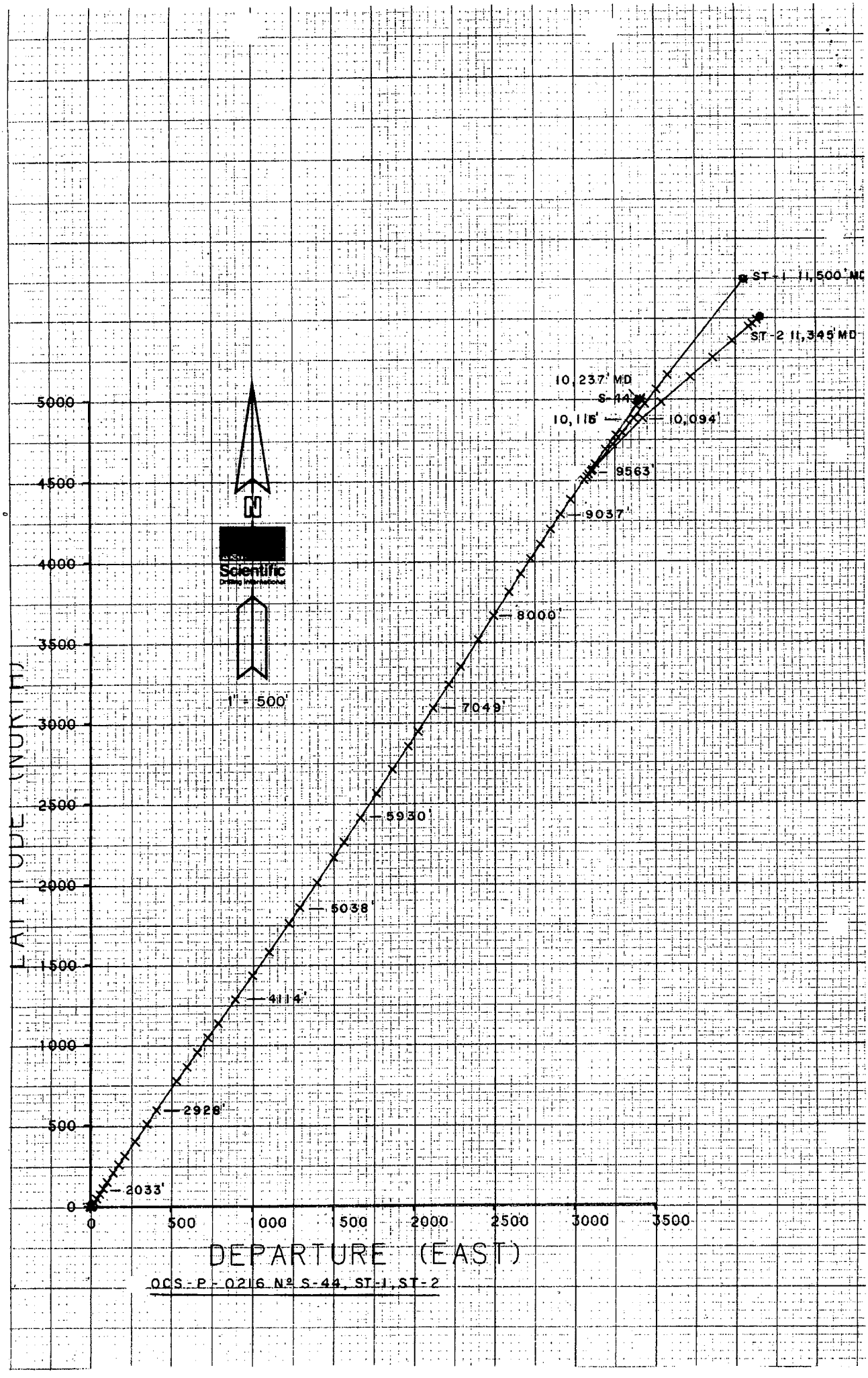
MEAS. DEPTH	DRIFT ANGLE	DRIFT BEARING	VERTICAL DEPTH	ELEVATION (-)SUB-SEA	TOTAL COORDINATES		DOGLEG /100'
9455	4648	N39 48E	7138.7	-7031.7	4532.5 N	3093.5 E	TIE IN
9504	4818	N39 42E	7171.7	-7064.7	4560.3 N	3116.6 E	3.1
10094	4900	N49 18E	7561.5	-7454.5	4876.2 N	3427.0 E	1.2
10296	4854	N49 42E	7694.2	-7587.2	4975.1 N	3542.8 E	.2
10612	4842	N49 18E	7902.3	-7795.3	5129.5 N	3723.6 E	.1
10859	4800	N49 18E	8066.5	-7959.5	5249.9 N	3863.6 E	.3
11073	4748	N49 18E	8210.0	-8103.0	5353.4 N	3983.9 E	.1
11254	4654	N49 42E	8332.6	-8225.6	5439.9 N	4085.2 E	.5
11294	4648	N49 42E	8359.9	-8252.9	5458.7 N	4107.4 E	.3
11345	4648	N49 42E	8394.9	-8287.9	5482.8 N	4135.8 E	0.0

CLOSURE: 6867.7 FEET N 37 DEG. 2 MIN. E

COMPUTED USING THE AVERAGED ANGLE METHOD

COORDINATES AT 9455 FT. FROM FIRST SIDETRACK.

SURVEY AT 11345 FT. DEPTH IS PROJECTED.



OCS-P-0216 Nº S-44, ST-1, ST-2

NAME UNION UCS P-0216 S-44 SIDETRACK NO. 2 (SLOT 81)(L.REP NNE)
DATA ELEV(107)RT LAMB(1041775.485 747990.691 6) SEC(N36E)
0 0 N18:43W
50 0 N18:43W
100 0:12 N18:43W
150 0:15 N9:49W
200 0:15 N38:05E
250 0:35 N30:00W
300 0:22 N53:34W
350 0:15 S46:29W
400 0:30 S1:45E
450 0:25 S69:51E
500 0:07 S31:03W
550 0:10 S0:55W
600 0:17 S30:46W
650 0:07 S77:22E
700 0:12 S15:29W
882 0.5 N64.5E
1038 0.5 S25.5E
1195 0.05 S35.5E
1420 1.0 N73.9E
1541 3.3 N45.8E
1597 6.0 N32.1E
1659 8.9 N32.1E
1751 14.0 N31.4E
1844 19.3 N32.1E
1938 22.9 N33.1E
2033 27.5 N31.7E
2127 31.5 N32.8E
2249 37.1 N33.8E
2342 42.3 N35.9E
2436 45.4 N34.9E
2591 44.6 N35.2E
2778 44.0 N34.9E
2928 43.9 N34.9E
3240 44.7 N35.2E
3393 45.0 N35.2E
3550 45.8 N34.9E
3705 46.0 N34.9E
3859 46.0 N35.2E
4114 46.5 N35.6E
4359 48.2 N35.2E
4598 49.1 N34.9E
4884 50.1 N34.5E
5038 49.7 N34.2E
5285 49.2 N34.5E
5533 48.8 N33.9E
5686 48.5 N34.2E
5930 47.6 N34.2E
6176 46.8 N33.9E
6420 46.4 N33.8E
6662 46.2 N33.9E
6813 46.2 N33.9E
7049 46.4 N33.5E
7296 46.6 N33.8E

NOTED WRIGHT

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VENTURA DISTRICT

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7480 46.5 N33.8E
7757 46.5 N32.8E
8000 46.5 N33.1E
8243 46.6 N32.9E
8426 46.6 N33.1E
8580 46.8 N33.5E
8731 46.8 N33.8E
8885 46.6 N34.2E
9037 46.3 N34.5E
9190 46.4 N35.2E
9395 46.0 N35.6E
9455 46.8 N39.8E
9504 48.3 N39.7E
10094 49.0 N49.3E
10296 48.9 N49.7E
10612 48.7 N49.3E
10859 48.0 N49.3E
11073 47.8 N49.3E
11254 46.9 N49.7E
11294 46.3 N49.7E
11345 46.3 N49.7E
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MMS.

NOTED WRIGHT

Operator Union Oil Co.
Address P.O. Box 6176
Ventura, CA 93006

Well Name and No. OCS-P-0216

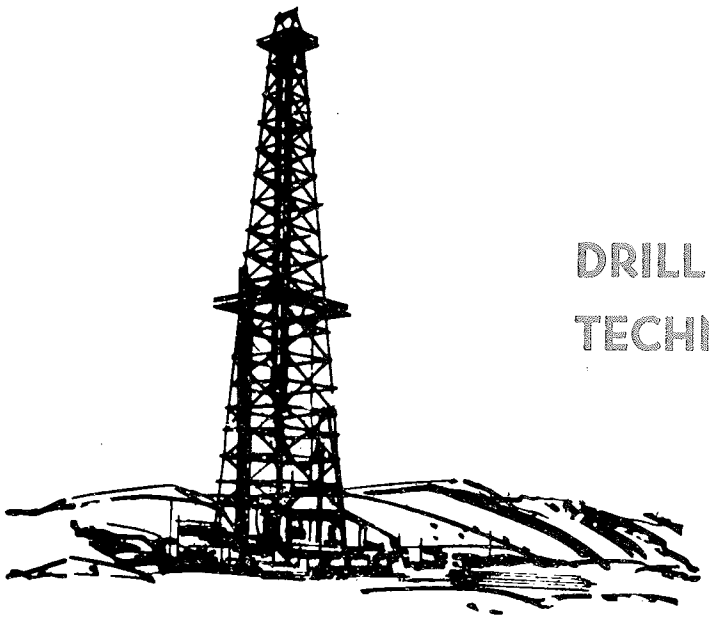
Ticket No. 20870

8-8-85

DST No. 1

No. Final Copies 5

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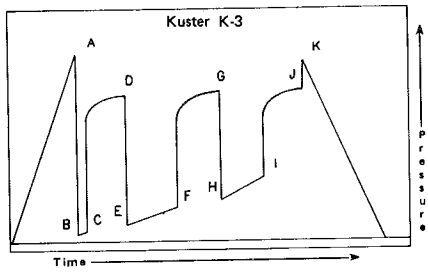
DRILL STEM TEST
TECHNICAL SERVICE REPORT

GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

CODE USED ON CHART ENVELOPES

K-3 recorders. Read from left to right.



A – Initial Hydrostatic
B – First Initial Flow
C – First Final Flow
D – Initial Shut-in
E – Second Initial Flow
F – Second Final Flow
G – Second Shut-in
H – Third Initial Flow
I – Third Final Flow
J – Third Shut-in
K – Final Hydrostatic

AK-1 recorders. Read from right to left.

NOMENCLATURE

Symbol	Definition	DST Unit
k	permeability	millidarcys (md)
h	pay thickness	feet (ft.)
u	viscosity	centipoise
T	reservoir temperature	°Rankin (°R)
$\bar{z}$	gas compressibility factor at average condition	———
g_{sc}	gas production rate	MCF/d
M	Horner slope for liquid analysis	PSI/Cycle
Mg	Horner slope for (P^2) gas analysis	PSI ^{2}/Cycle
Pi	initial static reservoir pressure	PSI
Pwf	flowing bottom hole pressure	PSI
Ø	porosity	(fraction)
rw	well bore radius	ft.
S	skin factor	———
AOF	absolute open flow	MCF/d
D. R.	damage ratio	———
re	external drainage radius	ft.
ISIP	initial shut-in pressure	PSI
FSIP	final shut-in pressure	PSI
b	approx. radius of investigation	ft.
t	flowing time	hrs.
B	formation volume factor	———
q	liquid production rate	bbls/day
$\bar{c}$	gas compressibility	1/PSI
c	liquid compressibility	1/PSI

A. Liquid Calculations

1. Transmissibility
$$\frac{Kh}{u} = \frac{162.6\ q\ B}{m}$$

2. Capacity
$$Kh = \frac{Kh}{u} \times u$$

3. Permeability
$$K = \frac{Kh}{h}$$

4. Skin Factor
$$S = 1.151\left[\frac{Pi - Pwf}{m} - \text{Log}\ \frac{Kt}{\phi u c r_w^2} + 3.2275\right]$$

5. Pressure Drop Due to Skin
$$\Delta P_{skin} = \frac{162.6\ Bqu}{Kh} \times 0.869s \quad \text{or} \quad \Delta P_{skin} = 0.869\ M\ S$$

6. Damage Ratio
$$\frac{Pi - Pwf}{m\left[\text{Log}\ \frac{Kt}{\phi u c r_w 2} - 3.2275\right]}$$

7. Productivity Index
$$P.I. = \frac{qa}{Pi\text{-}Pwf}$$

8. Productivity Index Damage Removed
$$\frac{qt}{Pi\text{-}Pwf} = P.I.\ a \times D.R.$$

9. Radius of Investigation
$$b = 0.029\sqrt{\frac{Kt}{\phi uc}}$$

10. Depletion Factor %
$$\frac{ISIP\text{-}FSIP}{ISIP} \times 100$$

B. Gas Calculations

1. Transmissibility
$$\frac{Kh}{u} = \frac{1637\ T\ \bar{z}\ q_{sc}}{Mg}$$

2. Capacity
$$\frac{Kh}{u} \times u = Kh$$

3. Permeability
$$\frac{Kh}{h} = K$$

4. Apparent Skin Factor
$$S = 1.151\left[\frac{Pi^2 - Pwf^2}{Mg} - \log\left(\frac{Kt}{\phi u c r_w^2}\right) + 3.2275\right]$$

5. Pressure Drop Due to Skin
$$\Delta P_{skin} = Pi - Pwf = \sqrt{(Pwf^2) + 0.869\ Mg\ S}$$

6. Damage Ratio
$$\frac{Pi^2 - Pwf^2}{Mg\left[\text{Log}\ \frac{Kt}{\phi u c r_w 2} - 3.2275\right]}$$

7. Absolute Open Flow
$$\frac{(Pi^2)\ \ (Kh)}{Mg\left[\text{Log}\ \frac{Kt}{\phi u c r_w 2} - 3.2275 + .869s\right]}$$

8. AOF Damage removed
AOF X DR

9. Estimated Stabilized AOF
$$\frac{(Pi^2)\ \ (Kh)}{3263\ uzt\left[\text{Log}\left(\frac{.472\ re}{rw}\right) + \frac{s}{2.303}\right]}$$

10. Radius of Investigation
$$b = 0.029\sqrt{\frac{Kt}{\phi uc}}$$

11. Depletion %
$$\frac{ISIP - FSIP}{ISIP} \times 100$$

BAKER
PRODUCTION TECHNOLOGY
A Baker Oil Tools Company

TECHNICAL SERVICES, Security Life Bldg. • Suite 1350 • 1616 Glenarm • Denver, Colorado 80202 • Phone: (303) 573-8027

Contractor	Pool Offshore	Top Choke	--
Rig No.	429	Bottom Choke	2"
Spot	--	Size Hole	7 5/8" 32# csg.
Sec.	--	Size Rat Hole	--
Twp.	--	Size & Wt. D. P.	3½"
Rng.	--	Size Wt. Pipe	--
Field	Santa Clara	I. D. of D. C.	2¼"
County	Federal Waters	Length of D. C.	--
State	California	Total Depth	11261 ft.
Elevation	--	Interval Tested	11000-11261 ft.
Formation	Lower Repetto	Type of Test	P.O.T.T.

Flow No. 1	6 Min.
Shut-in No. 1	53 Min.
Flow No. 2	225 Min.
Shut-in No. 2	-- Min.
Flow No. 3	-- Min.
Shut-in No. 3	-- Min.
Bottom Hole Temp.	--
Mud Weight	105#/cu. ft.
Gravity	--
Viscosity	--
Tool opened @	6:28 p.m.

--

PRD Make --
No. -- Cap. -- @ --

Press		Corrected
Initial Hydrostatic	A	--
Final Hydrostatic	K	--
Initial Flow	B	--
Final Initial Flow	C	--
Initial Shut-in	D	--
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

All charts retained by customer

Lynes Dist.: Ventura, CA
Our Tester: John Hrenchir
Witnessed By: Glen Anthony

Operator Union Oil Co.
Address P.O. Box 6176 Ventura, CA 93006
Well Name and No. OCS-P-0216
Ticket No. 20870
Date 8-8-85
DST No. 1
No. Final Copies 5

Did Well Flow – Gas Yes Oil No Water No

Ran 3956 psi nitrogen cushion.

RECOVERY IN PIPE:
536 ft. Total Recovery

Blow Description:

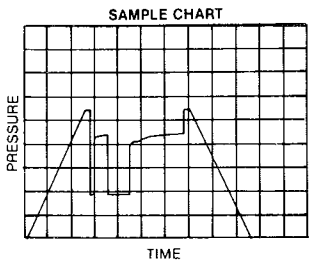
1st Flow: Tool opened with 1600 psi; bled off nitrogen cushion.

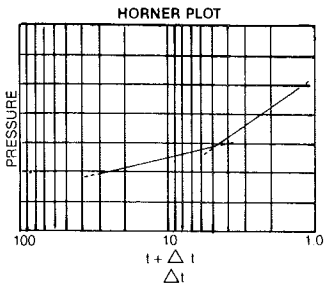
2nd Flow: Tool opened with 1300 psi; bled off nitrogen cushion. Gas to surface one hour and 36 minutes into flow.

COPY TO REGION

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SEP 23 1985
MINERALS MGT. SERVICE
VENTURA DISTRICT

Lynes Guide to Detection of Geological Anomalies

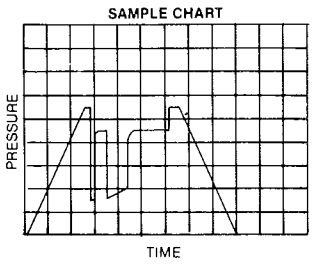


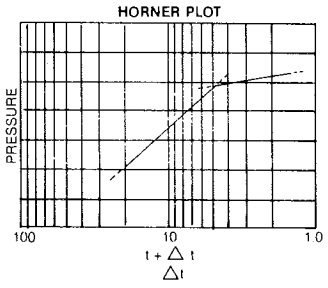


Horner Plot Slope Breaks Upward

Possible Causes

(1) decrease in pay thickness away from the wellbore
(2) decrease in permeability away from the wellbore
(3) increase in viscosity of reservoir fluid (fluid contact)
(4) barrier within the radius of investigation

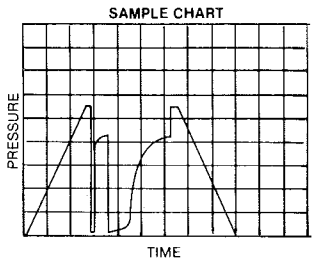


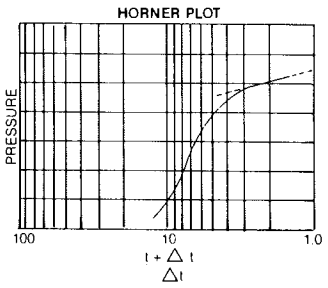


Horner Plot Slope Breaks Downward

Possible Causes

(1) increase in pay thickness away from the wellbore
(2) increase in permeability away from the wellbore
(3) decrease in viscosity away from the wellbore

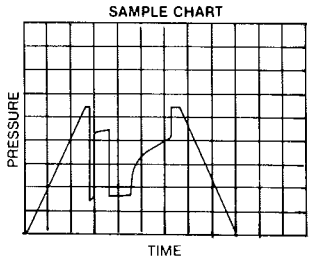


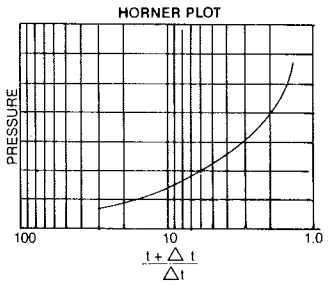


Early Time Deviation of Horner Plot

Possible Causes

(1) wellbore damage due to filtrate invasion, drilling solids, etc.
(2) partial penetration of pay zone
(3) plugging or choking of perforations (casing test only)
(4) wellbore storage effects (low permeability gas wells)

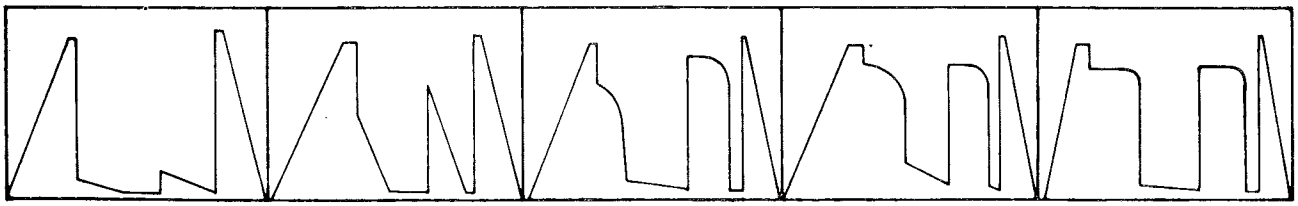




Horner Plot Slope Continually Increasing

Possible Causes

(1) well between two parallel boundaries (channel sand)
(2) induced hydraulic fractures



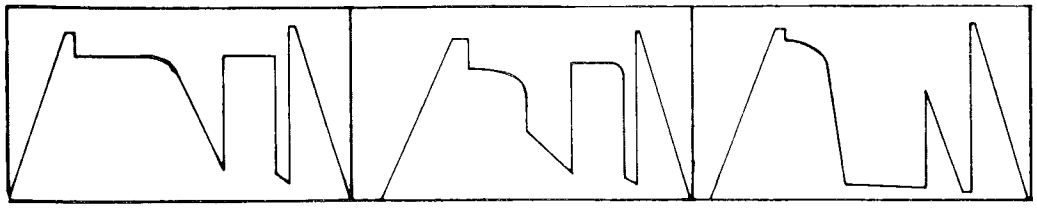
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

Slightly higher permeability. Small recovery, less than 200 ft).

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.



Excelent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
10/96	6940	11073	2449	7067	9654	1596	26	6940	11073
11/96	6635	9178	2040	6662	8175	1383	24	13575	20251
12/96	8359	8316	1643	8386	7243	995	16	21934	28567
Tot/ 96	21934	28567	6132	22116	25072				
01/97	7610	9496	1984	7590	8322	1248	21	29543	38063
02/97	6379	9827	1232	6375	8496	1541	16	35922	47890
03/97	7845	12959	1798	7816	11249	1652	19	43768	60849
04/97	8695	10967	1470	8717	9592	1261	14	52463	71816
05/97	7907	9289	2232	7902	8093	1175	22	60370	81105
06/97	7750	7489	1500	7762	6511	966	16	68120	88594
07/97	7697	7049	2015	7679	6384	916	21	75817	95643
08/97	7388	8368	1922	7395	7824	1133	21	83205	104011
09/97	6891	9837	1650	6905	9270	1428	19	90096	113848
10/97	7060	7280	2046	7158	6828	1031	22	97156	121128
11/97	8135	9862	1860	8141	9275	1212	19	105291	130990
12/97	9103	11790	1302	9079	11029	1295	13	114394	142780
Tot/ 97	92461	114213	21011	92519	102873				
01/98	8643	12972	2046	8664	12125	1501	19	123037	155752
02/98	8334	12438	1540	8307	11620	1493	16	131371	168190
03/98	4012	6688	651	4009	6271	1667	14	135382	174878
Tot/ 98	20988	32098	4237	20980	30016				

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
10/96	6940	11073	2449	7067	9654	1596	26	6940	11073
11/96	6635	9178	2040	6662	8175	1383	24	13575	20251
12/96	8359	8316	1643	8386	7243	995	16	21934	28567
Tot/96	21934	28567	6132	22116	25072				
01/97	7610	9496	1984	7590	8322	1248	21	29543	38063
02/97	6379	9827	1232	6375	8496	1541	16	35922	47890
03/97	7845	12959	1798	7816	11249	1652	19	43768	60849
04/97	8695	10967	1470	8717	9592	1261	14	52463	71816
05/97	7907	9289	2232	7902	8093	1175	22	60370	81105
06/97	7750	7489	1500	7762	6511	966	16	68120	88594
07/97	7697	7049	2015	7679	6384	916	21	75817	95643
08/97	7388	8368	1922	7395	7824	1133	21	83205	104011
09/97	6891	9837	1650	6905	9270	1428	19	90096	113848
10/97	7498	7280	2046	7159	6828	971	21	97594	121128
11/97	8314	9862	1860	8064	9275	1186	18	105908	130990
12/97	8653	11790	1302	9023	11029	1363	13	114561	142780
Tot/97	92628	114213	21011	92386	102873				
01/98	8701	12972	2046	8674	12125	1491	19	123263	155752
Tot/98	8701	12972	2046	8674	12125				

UNOCAL

Dear Mr. Fox:

As discussed on December 12, 1994, Shell Western E&P Inc. and Chevron U.S.A. Inc. signed during coil tubing operations on the subject well [illegible] Section 252.124 (e)(2)(ii)(C). [illegible] has been amended to reflect [illegible].

The well is currently producing [illegible] production until 12-30-94. [illegible]

If you have any questions or comments, please contact [illegible] at (805) [illegible].

approved
12/17/94
[illegible]

cc: [illegible]

150

February 28, 1990

Mr. Jon Cronk
Unocal
2323 Knoll Drive
Ventura, CA 93006

Re: Request for Well MPR
Lease OCS-P 0216
Santa Clara Field
Offshore California

Dear Mr. Cronk:

The Minerals Management Service (MMS) hereby approves your January 9, 1990 Request for Well Maximum Production Rate (MPR's) for Lease OCS-P 0216 Wells S-44, and S-57 in the Santa Clara Field for the amounts and on the dates indicated on the enclosed Forms MMS-1867.

If you have any questions, please contact Mr. S. T. Eng at (213) 894-0393.

Sincerely,

(Orig. Sgd.) R. S. Sallarmore

for

Thomas W. Dunaway
Regional Supervisor
Office of Field Operations

Enclosure

bcc: File: 1101-02b Lease OCS-P 0216 (w/o encl)
1301-05a Request for Well MPR, Santa Clara Field (w/encl)
RD (w/o encl)
Chron (w/o encl)
DS, Ventura (w/encl)
Chief, R&D (w/o encl)
S. Eng (w/encl)

OFO: STEng/pf:pc:Letter/MPR0216.STE:02-28-90

OMB Approval No. 1010-0019
Expiration Date: December 31, 1990

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

REQUEST FOR WELL MAXIMUM PRODUCTION RATE (MPR)

Operator: Unocal

Address: 2323 Knoll Drive/P.O. Box 6176

Ventura, CA 93006

Field: Santa Clara Unit Lease No: OCS P-0216

Well Completion No.	API Well Serial No.	Reservoir	Present Reservoir MER	Present Well MPR	Requested Well MPR	Effective Date
S-44	04-311-20610	Santa Clara	N/A	296	420	11/23/89
S-57	04-311-20611	Santa Clara		19	48	11/01/89

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
JAN 12 1990
FIELD OPERATIONS
LOS ANGELES

JAN 10

Signed: [signature] Date: 1-9-90

Approved: [signature] Date: 2/25/90

Thomas W. Dunaway, RS, OFO, POCSR

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that: This information is being collected for purposes of establishing the maximum daily rate at which oil or gas may be produced from a specific well completion. This information will be used in conjunction with Form MMS-1868 to evaluate and approve lease operator's requested Maximum Production Rate for each well completion. Response to this request is mandatory (43 U.S.C. 1334).

Form MMS-1867 (February 1988)
(Supersedes Form MMS-1867 (April 1986)
which will not be used.)

OMB Approval No. 1010-0019
Expiration Date: December 31, 1990

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

REQUEST FOR WELL MAXIMUM PRODUCTION RATE (MPR)

Operator: Unocal

Address: 2323 Knoll Drive/P.O. Box 6176

Ventura, CA 93006

Field: Santa Clara Unit Lease No: OCS P-0216

Well Completion No.	API Well Serial No.	Reservoir	Present Reservoir MER	Present Well MPR	Requested Well MPR	Effective Date
S-44	04-311-20610	Santa Clara	N/A	296	420	11/23/89
S-57	04-311-20611	Santa Clara		19	48	11/01/89

COPY TO REGION

RECEIVED
JAN 10 1990

Signed: [signature] Date: 1-9-90

Approved: _____ Date: _____

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that: This information is being collected for purposes of establishing the maximum daily rate at which oil or gas may be produced from a specific well completion. This information will be used in conjunction with Form MMS-1868 to evaluate and approve lease operator's requested Maximum Production Rate for each well completion. Response to this request is mandatory (43 U.S.C. 1334).

Form MMS-1867 (February 1988)
(Supersedes Form MMS-1867 (April 1986)
which will not be used.)

OMB Approval No. 1010-0039
Expiration Date: December 31, 1990

COPY TO REGION

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

JAN 10 1990

WELL POTENTIAL TEST REPORT

Field Santa Clara Unit Operator Unocal

Area and Block Santa Clara #373 Lease/Well No. OCS P-0216 S-44 API Well No. 04-311-20610

Type Well: Oil (X) Gas ( ) Reservoir Name Lower Repetto

Type Test: Init. Comp. ( ) Recomp. ( ) (Former Reservoir _____) Rework ( ) Retest (X)

Perf. Int. 11062 to 11190 (MD) Flowing ( ) Gas Lift ( ) Pumping (X)

Date of First Production (After comp. or recomp.) 8-19-85

Pretest time 24 hrs. Choke size 64/64 in.

Date of test 11/23/89 No. of hrs. tested 24 hrs. Choke size 64/64 in.

Production During Test Period:

Oil 420 bbls. Gas 717 MCF Water 89 bbls.

GOR 1707 cu. ft./bbls. Water Cut 17.5 % Flowing Tubing Pressure 150 psig

Calculated 24 hr.-Rate

Oil 420 bbls. Gas 717 MCF Water 89 bbls.

Oil Gravity 20.5 Deg. API Specific Gravity of Gas 0.700 (Est)

Static Bottom Hole Pressure (if taken prior to test):

Cumulative production during entire approved testing period:

Oil 420 bbls. Gas 717 MCF Water 89 bbls.

Test Period Dates: From 11/22/89 to 11/23/89

REMARKS:

I hereby certify that the foregoing results are true and correct.

Signed [signature] Title Field Superintendent Date 1-9-90

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et seq.) requires us to inform you that: This information is being collected for purposes of establishing well Maximum Production Rates. This information will be used to determine well, lease, and field producing capability, and serves as the basis for approval of Maximum Production Rates requested by lease operator (Form MMS-1867). Response to this request is mandatory (43 U.S.C. 1334).

Form MMS-1868 (April 1988)
(Supersedes Form MMS-1868 (April 1986)
which will not be used)

APPROVED MAXIMUM EFFICIENT RATES FOR RESERVOIRS
AND
MAXIMUM PRODUCTION RATES FOR WELL COMPLETIONS

Quarter 4 (October 1 - December 31, 1986)

CALIFORNIA FIELD OPERATOR	SAND AND RESERVOIR	SUP. REC.	APPROVED MAX. EFFICIENT RATE OIL-B	APPROVED MAX. EFFICIENT RATE GAS-M	LEASE BLOCK	LEASE	WELL NUMBER	APPROVED MAX. PRODUCTION RATE OIL-B/D	APPROVED MAX. PRODUCTION RATE GAS-M
Santa Clara Union Oil	Repetto		Sum of MPR's		48N61W	OCS-P 0216	S-1	114	
							S-2	62	
							S-3	5	
	Monterey		Sum of MPR's				S-4	47	
							S-5	1	
							S-6	116	
							S-7	220	
							S-8	103	
							S-9	221	
							S-12	13	
							S-13	536	
							S-14	92	
							S-15	396	
							S-17	205	
							S-18	91	
							S-19	322	
							S-21	271	
							S-22	59	
							S-23	197	
							S-24	194	
							S-25	244	
							S-26	230	
							S-27	294	
							S-29	0	
							S-33	98	
							S-35	28	
							S-36	55	
							S-37	68	
							S-39	0	
							S-40	0	
							S-41	9	
							S-42	524	
							S-44	348	
							S-46	405	
							S-48	431	
							S-49	0	
							S-50	358	
							S-51	0	
							S-55	608	
							S-57	44	
							S-61	158	
							S-65	268	
	Pico			Sum of MPR's			S-11		220
							S-16		1084
							S-59		4488

APPROVED MAXIMUM EFFICIENT RATES FOR RESERVOIRS
AND
MAXIMUM PRODUCTION RATES FOR WELL COMPLETIONS

Quarter 3 (July 1 - September 30, 1986)

CALIFORNIA FIELD OPERATOR	SAND AND RESERVOIR	SUP. REC.	APPROVED MAX. EFFICIENT RATE OIL-B	APPROVED MAX. EFFICIENT RATE GAS-M	LEASE BLOCK	LEASE	WELL NUMBER	APPROVED MAX. PRODUCTION RATE OIL-B/D	APPROVED MAX. PRODUCTION RATE GAS-M
Santa Clara Union Oil	Repetto		Sum of MPR's		48N61W	OCS-P 0216	S-1	114	
							S-2	64	
							S-3	5	
	Monterey		Sum of MPR's				S-4	70	
							S-5	35	
							S-6	120	
							S-7	220	
							S-8	103	
							S-9	221	
							S-12	13	
							S-13	543	
							S-14	103	
							S-15	430	
							S-17	241	
							S-18	110	
							S-19	336	
							S-21	156	
							S-22	69	
							S-23	141	
							S-24	194	
							S-25	252	
							S-26	230	
							S-27	294	
							S-29	0	
							S-33	108	
							S-35	28	
							S-36	48	
							S-37	80	
							S-39	0	
							S-40	0	
							S-41	28	
							S-42	714	
							S-44	381	
							S-46	562	
							S-48	592	
							S-49	0	
							S-50	274	
							S-51	0	
							S-55	682	
							S-57	60	
							S-61	158	
							S-65	316	
	Pico			Sum of MPR's			S-11		220
							S-16		1084
							S-59		4488

APPROVED MAXIMUM EFFICIENT RATES FOR RESERVOIRS
AND
MAXIMUM PRODUCTION RATES FOR WELL COMPLETIONS

Quarter 1 (January 1 - March 31, 1986)

CALIFORNIA FIELD OPERATOR	SAND AND RESERVOIR	SUP. REC.	APPROVED MAX. EFFICIENT RATE OIL-B	APPROVED MAX. EFFICIENT RATE GAS-M	LEASE BLOCK	LEASE	WELL NUMBER	APPROVED MAX. PRODUCTION RATE OIL-B/D	APPROVED MAX. PRODUCTION RATE GAS-M
Santa Clara Union Oil	Repetto		Sum of MPR's		48N61W	OCS-P 0216	S-1	87	
							S-2	84	
							S-3	8	
	Monterey		Sum of MPR's				S-4	82	
							S-5	35	
							S-6	14	
							S-7	224	
							S-8	103	
							S-9	221	
							S-12	4	
							S-13	543	
							S-14	167	
							S-15	430	
							S-17	305	
							S-18	117	
							S-19	218	
							S-21	273	
							S-22	88	
							S-23	215	
							S-24	181	
							S-25	194	
							S-26	230	
							S-27	300	
							S-29	29	
							S-33	234	
							S-35	73	
							S-36	33	
							S-37	196	
							S-39	104	
							S-40	0	
							S-41	47	
							S-44	418	
							S-46	711	
							S-48	644	
							S-49	0	
							S-51	0	
							S-55	0	
							S-57	88	
							S-59	343	
	Pico			Sum of MPR's			S-11		468
							S-16		3874

NOTED WRIGHT

October 1, 1985

150

RECEIVED
OCT 2- 1985
MINERALS MGT. SERVICE
VENTURA DISTRICT

Union Oil Company of California
Attention: Mr. E. A. Dombrowski
1003 E. Main Street
Santa Paula, CA 93060

Gentlemen:

We have reviewed your September 23, 1985 initial Request for Well Maximum Production Rate (MPR) for the Wells S-44 and S-57 in the Santa Clara Field, Lease OCS-P 0216.

This request is hereby approved for the amounts and on the dates as stated on the enclosures (Form 9-1867).

Sincerely,

Thomas W. Dunaway

Thomas W. Dunaway
Regional Supervisor
Office of Field Operations

Enclosures

bcc: File MPR Request OCS-P 0216 (w/enclosure)
RD (chron)
DS, Ventura
Chron
S. Eng

OFO: SEng/yma:10-01-85:Disk 2,#2

Form 9-3167
(May 1975)

Form Approved
Budget Bureau No. 42-R 1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REQUEST FOR WELL MAXIMUM PRODUCTION RATE (MPR)

Operator: Union Oil Company of California

Address: 1003 E. Main Street

Santa Paula, CA 93060

Field: Santa Clara Unit Lease No.: OCS P-0216

Well Completion No.	API Well Serial No.	Reservoir	Present Reservoir MER	Present Well MPR	Requested Well MPR	Effective Date
S-44	04-311-20610	Lower Repetto	Sum of MPR's	--	418	9-9-85

RECEIVED
SEP 25 1985
MINERALS MGT. SERV.
VENTURA DISTRICT

Signed: David M. Cole Date: 9-23-85
For R.A. Dombrowski

Approved: Thomas W Dunaway Date: 10-1-85
Thomas W. Dunaway
Regional Supervisor

GPO. 1975—O-572-452

Form 9-1867
(May 1975)

Form Approved
Budget Bureau No. 42-R 1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REQUEST FOR WELL MAXIMUM PRODUCTION RATE (MPR)

Operator: Union Oil Company of California

Address: 1003 E. Main Street

Santa Paula, CA 93060

Field: Santa Clara Unit Lease No.: OCS P-0216

Well Completion No.	API Well Serial No.	Reservoir	Present Reservoir MER	Present Well MPR	Requested Well MPR	Effective Date
S-44	04-311-20610	Lower Repetto	Sum of MPR's	--	418	9-9-85

RECEIVED
SEP 25 1985
MINERALS MGT. SERV.
VENTURA DISTRICT

Signed: David A. Cole
For R.A. Dombrowski Date: 9-23-85

Approved: _____ Date: _____
Oil and Gas Supervisor Gulf of Mexico Area

COPY TO REGION

FILE COPY

GPO: 1975—O-572-452

Form 9-1868
(Mar. 1975)

Form Approved
Budget Bureau No. 42-R-1691

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELL POTENTIAL TEST REPORT

Field Santa Clara Unit Operator Union Oil Company of California

Area and Block Santa Clara Unit #373 Lease/Well No. OCS P-0216 S-44 API Well No. 04-311-20610

Type Well: Oil (X) Gas ( ) Reservoir Name Lower Repetto

Type Test: Init. Comp. (X) Recomp. ( ) (Former Reservoir _____) Rework ( ) Retest ( )

Perf. Int. 11,062' to 11,190' (MD) Flowing ( ) Gas Lift ( ) Pumping (X)

Date of First Production (After comp. or recomp.) 8-19-85

Pretest time 24 hrs. Choke size 64/64 in.

Date of test 9-9-85 No. of hrs. tested 24 hrs. Choke size 64/64 in.

Production During Test Period:

Oil 418 bbls. Gas 223 MCF Water 6 bbls.

GOR 533 cu. ft./bbls. Water Cut 1.5 % Flowing Tubing Pressure 150 psig

Calculated 24 hr. Rate:

Oil 418 bbls. Gas 223 MCF Water 6 bbls.

Oil Gravity 21.0 Deg. API Specific Gravity of Gas 0.700 (Est.)

Static Bottom Hole Pressure (if taken prior to test):

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SEP 25 1985
MINERALS MGT. SERV.
VENTURA DISTRICT

Cumulative production during entire approved testing period:

Oil 418 bbls. Gas 223 MCF Water 6 bbls.

Test Period Dates: From 9-8-85 to 9-9-85

REMARKS: New Completion

I hereby certify that the foregoing results are true and correct.

Signed For R.A. Dombrowski Title Area Production Supt. Date 9-23-85

U.S. GOVERNMENT PRINTING OFFICE : 1975—O-572-453

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FILE COPY

UNION OIL COMPANY OF CALIFORNIA OCS-P 0216, S-44

LIST OF LOGS

Received September 5, 1985

2"	True Vertical Depth Log 7-30-85	
5"	Thermal Decay Log Run 1, 8-5-85	
2"	Thermal Decay Log Run 1, 8-5-85	
5"	Cement Bond Log Run 1, 8-5-85	
2" & 5"	Compensated Density Compensated Neutron Log	Run 1, 7-29-85
2"	Dual Induction Laterolog Run 1, 7-30-85	
5"	Dual Induction Laterolog Run 1, 7-30-85	

0216

UNION OIL CO. OF CALIFORNIA
SOUTHERN CALIFORNIA DISTRICT
DRILLING REPORT

Week Ending 8-23-85

SANTA CLARA UNIT

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
SEP 06 1985
FIELD OPERATIONS
LOS ANGELES

S-44

8-17/18/19-85
RAN TEST ASSEMBLY. PLACED ON TEST 0754 HOURS 8-15-85. FLOWED WELL UNTIL 1600 HOURS 8-18-85. HAD STABILIZED RATE OF 182/182 BOPD, .1% CUT, 109 MCF, 200 PSI TBG, 2091 BHP; CUMULATIVE OIL PRODUCTION 154 BBLS. SET BACK PRESSURE VALVE, REMOVING BOPE.

8-20-85 INSTALLED AND TESTED TREE. RELEASED RIG AT 0830 HOURS 8-19-85.
ON PRODUCTION 1700 HOURS 8-19-85.
305/305 0.1% 21.0° 141 MCF 160 PSI TBG/0 PSI CSG. 1480 BHP

S-57

8-17/18/19-85
GRAVEL PACKED UPPER 3-1/2" LINER. CLEANED OUT TO 10,449'. RAN PRODUCTION EQUIPMENT. NIPPLING DOWN BOPE.

8-20-85 INSTALLED AND TESTED TREE. CHANGED OVER TO SEA WATER. PREP TO MOVE RIG.

8-21-85 PERFORMED WIRELINE WORK ON WELL. ATTEMPTING TO GET BALL VALVE TO HOLD AND TEST (SEALS IN BALL VALVE RECEPTABLE APPARENTLY NOT HOLDING).

8-22-85 PERFORMED WIRELINE WORK IN AN ATTEMPT TO GET BALL VALVE TO HOLD AND TEST. CONTROL LINE OR SEAL RECEPTABLE - NOT HOLDING. CHANGED OVER TO CaBr TO KILL WELL AND PULL PRODUCTION EQUIPMENT.

8-23-85 REMOVED X-MAS TREE. INSTALLED AND TESTED BOPE. PULLED TUBING AND INSTALLED NEW PRODUCTION PACKER. RE-RAN PRODUCTION EQUIPMENT. REMOVING BOPE.

S-46

8-21-85 SPUDDED WELL AT 0030 HRS. 8-21-85. DRILLED TO 535'.

8-22-85 DRILLED TO 740'. OPENED HOLE TO 26". RAN AND CEMENTED 20" CASING AT 725'.

8-23-85 INSTALLED AND TESTED BOPE. CLEANED OUT 20" CASING. RUNNING GYRO SURVEY.

VS

RECEIVED
AUG 26 1985
MINERALS MGT. SERV.
VENTURA DIST.

UNION OIL CO. OF CALIFORNIA
SOUTHERN CALIFORNIA DISTRICT
DRILLING REPORT

Week Ending 8-16-85

SANTA CLARA UNIT

S-44

8-10/11/12-85 CLEANED OUT FILL FROM 11,078' TO 11,261'ETD (183'FILL). CHANGED OVER FROM OIL BASE TO $CaBr_2$ COMPLETION FLUID. CONDITIONED $CaBr_2$ FLUID OVER MUD CLEANER. RUNNING 3-1/2" SSWW LINER.

8-13-85 RAN AND GRAVEL PACKED 3-1/2" LINER. PREP TO RUN TEST STRING.

8-14-85 RUNNING TEST STRING.

8-15-85 PRESSURED TUBING TO SET PACKER. WHILE PRESSURING ANNULUS TO TEST PACKER, TUBING HANGER ANCHOR LUGS SHEARED CAUSING PACKER TO RELEASE. PULLING OUT OF HOLE TO RE-DRESS PACKER.

8-16-85 PULLED TEST STRING. REPLACED TUBING ANCHOR LUGS. RE-RUNNING TEST ASSEMBLY.

S-57

8-10/11/12-85 PERFORATED 12 HPF FROM 10,310' TO 10,428'. PICKED UP 2-7/8" TUBING. RAN AND GRAVEL PACKED LOWER 3-1/2" SSWW SCREEN - PORT COLLAR WOULD NOT TEST AFTER CLOSING. PULLED OUT GRAVEL PACKING TOOLS. SEALS ON STINGER DAMAGED. RE-STRINGING BLOCKS WITH NEW DRILLING LINE.

8-13-85 RAN NEW GRAVEL PACKING TOOLS. PORT COLLAR WOULD STILL NOT FULLY CLOSE. PULLED GRAVEL PACK TOOLS. CLEANED OUT TO 10,449'. PICKING UP PERFORATING GUNS.

8-14-85 SELECTIVELY PERFORATED LP-K, LP-L AND LP-M SANDS FROM 9594' TO 10,200' WITH 12 HPF.

8-15-85 RUNNING 3-1/2" LINER.

8-16-85 COULD NOT WORK SEAL ASSEMBLY ON BOTTOM OF LINER INTO PACKER AT 10,223'. PULLED OUT OF HOLE - LEFT LINER IN HOLE. RETREIVED LINER. REDRESSED GUIDE SHOE. RAN LINER. ENGAGED PACKER AT 10,223'. DROPPED BALL TO SET UPPER PACKER.

VS

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MINERALS MGT. SERVICE
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UNION OIL CO. OF CALIFORNIA
SOUTHERN CALIFORNIA DISTRICT
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AUG
MINERALS MGT. SERV
VENTURA DISTR

Week Ending 8-9-85

SANTA CLARA UNIT

S-44

8-3/4/5-85 OPENED HOLE TO 11,345'. RAN AND CEMENTED 7-5/8" LINER AT 11,344'. CLEANED OUT 7-5/8" LINER TO 11,261'. TESTED LINER LAP TO 2500 PSI - O.K.

8-6-85 RAN CBL-GR AND PNL-GR LOGS. TESTED BOPE. PICKED-UP 3-1/2" TUBING.

8-7-85 PERFORATED THE LP-N SAND WITH 12 HPF USING TUBING CONVEYED GUNS FROM 11,190' TO 11,062'. RUNNING DST ASSEMBLY.

8-8-85 RAN TEST TOOLS AND TESTED LP-N PERFORATIONS FROM 11,190' TO 11,062'. HAD 3 BARRELS ENTRY WHEN TOOL PLUGGED. PULLED PACKER LOOSE AND CIRCULATED CLEAN.

8-9-85 PULLED OUT OF HOLE LAYING DOWN 3-1/2" TEST STRING. FOUND THAT OVER PRESSURE PISTON HAD SHEARED 5 MIN. INTO 2ND FLOW PERIOD CLOSING TEST VALVE. TEST VALVE WAS ALSO WASHED OUT - HAD SLIGHT LEAK DURING SHUT IN PERIODS. CHANGED RAMS TO 2-7/8". TESTING BOPE.

S-57

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8-9-85 COMPLETED FINAL SHUT IN. REVERSED CLEAN - RECOVERED APPROXIMATELY 1 GALLON OF OIL. CLEANED OUT TO RETAINER AT 10,450'. CIRCULATED CLEAN.

VS

UNION OIL CO. OF CALIFORNIA
SOUTHERN CALIFORNIA DISTRICT
DRILLING REPORT

Week Ending 8-23-85

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COPY TO REGION

RECEIVED
AUG 28 1985
MINERALS MGT. SERV.
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DRILLING REPORT

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VS

UNION OIL CO. OF CALIFORNIA
SOUTHERN CALIFORNIA DISTRICT
DRILLING REPORT

AUG
MINERALS MGT.
VENTURA DIST

Week Ending 8-2-85

SANTA CLARA UNIT

S-44

7-27/28/29-85
DIRECTIONALLY DRILLED TO 11,318'.

7-30-85 DIRECTIONALLY DRILLED TO 11,345'. RUNNING LOGS.

7-31-85 RAN LOGS. OPENED 8-1/2" HOLE TO 10" FROM 9422' TO 10,000'.

8-1-85 OPENED HOLE TO 10,558'.

8-2-85 OPENED HOLE TO 11,287'.

S-57

7-27/28/29-85
DIRECTIONALLY DRILLED TO 10,659'. CIRCULATED AND CONDITIONED FOR LOGS. PREP TO LOG.

7-30-85 RAN LOGS. OPENED HOLE TO 10" FROM 9511' TO 9536'.

7-31-85 OPENED 8-1/2" HOLE TO 10" FROM 9536' TO 10,210'.

8-1-85 OPENED HOLE TO 10,659'.

8-2-85 RAN 7-5/8" LINER. PREP TO CEMENT.

COPY TO REGION

vs/bas/

UNION OIL CO. OF CALIFORNIA
SOUTHERN CALIFORNIA DISTRICT
DRILLING REPORT

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MINERALS MGT.
VENTURA DIS

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vs/bas/

RECEIVED
JUL 2 1985
MINERALS MGT. SERVICE
VENTURA DISTRICT

UNION OIL CO. OF CALIFORNIA
SOUTHERN CALIFORNIA DISTRICT
DRILLING REPORT

Week Ending 7-26-85

SANTA CLARA UNIT

S-44

7-20/21/22-85
CHANGED OVER TO MINERAL OIL MUD. RAN FREE POINT. BACKED OFF AT 9590'. SPOT KICK OFF PLUG.

7-23-85 POLISHED OFF KICK OFF PLUG TO 9517'. TESTED BOPE. PREP TO DRILL.

7-24-85 DIRECTIONALLY DRILLED FROM 9522' to 9613'.

7-25-85 DIRECTIONALLY DRILLED TO 9952'.

7-26-85 DIRECTIONALLY DRILLED TO 10,333'.

S-57

7-20/21/22-85
DRILLED TO 9488'. CIRCULATE AND CONDITION HOLE FOR LOGS.

7-23-85 TESTED BOPE. RAN DLL-MSFL-GR LOG. DRILLED TO 9531'. PREP TO RUN 9-5/8" CASING.

7-24-85 RAN AMD CEMENTED 9-5/8" CASING AT 9511'.

7-25-85 TESTED BOPE. TESTED 9-5/8" CASING TO 2500 PSI. DRILLED TO 9535'. PERFORMED LEAKOFF TEST TO 133 PCF EMW.

7-26-85 DIRECTIONALLY DRILLED TO 9821'.

vs/bas/

COPY TO REGION

UNION OIL CO. OF CALIFORNIA
SOUTHERN CALIFORNIA DISTRICT
DRILLING REPORT

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RECEIVED
JUL 2 1985
MINERALS MGT. SERVICE
VENTURA DISTRICT

SJS 5/14/98

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with DISTRICT
one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20610-00/S02 SJS	S-44	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER X	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041776 Y=747981 7824' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or sun

RECEIVED
MAY 14 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

See attached procedure for Coiled Tubing Cleanout.

Post-it® Fax Note 7671 | Date 5/15/98 | # of pages ▶ 1
To Sabrina Miller/Bob Davis | From Shannon Shaw
Co./Dept. NUEVO | Co. MMS
Phone # (805) 934-8220 | Phone # (805) 389-7797
Fax # (805) 937-8709 | Fax # (805) 389-7784

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 934-8220
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980513

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 5/15/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

OCS P-216
Well S-44
Platform Gilda
Coiled Tubing Clean Out

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft
Cond. Csg	20"	Surf- 726	94.0	19.124	18.936	0.3552
Surf. Lnr.	16"	368- 1,583	75.0	15.124	14.936	0.2222
Inter. Csg-1	13-3/8"	Surf- 3,998	68.0	12.415	12.259	0.1497
Inter. Csg-2	9-5/8"	Surf- 9,422	47.0	8.681	8.525	0.0732
Prod. Lnr.	7-5/8"	8,909- 11,344	33.7	6.765	6.640	0.0444

* 0.02" SSWW screen from 10,345-11,260

1. Blow down 2-7/8" tubing and production casing to production system. Fill tubing and casing with sea water. Trap casing pressure with gauge upstream of valve, to allow for monitoring.
2. MIRU 1-1/4" coiled tubing unit, circulating pump, circulating tank and Baker tank.
3. Fill circulating tank and Baker tank with 13.0 ppg. CaBr2 water (take from current inventory). Insure sufficient volume to allow circulation between the 1-1/4" tubing and tubing/coiled tubing annulus to 11,260', with at least 150 bbl. left over for losses. Hook up on surface to allow returns to flow either to circulating system or to well clean tank.
4. RIH with 1-1/4" coiled tubing to top of observed plug at 8,271'. Break circulation per recommendation of coiled tubing technical representative filling tubing/coiled tubing annulus with CaBr2. Divert sea water returns to well clean tank, closely monitoring and diverting to circulating system as soon as undiluted CaBr2 returns are observed. Monitor and report casing pressure each time a circulation is completed and well stabilizes, for safety, and as another indication of possible tubing/casing communication.
5. While holding an extra 300-500 psi. on the tubing/coiled tubing annulus, begin washing on plug. Monitor and report casing pressures, as an indicator of tubing/coiled tubing friction pressure. If returns are lost, stop coiled tubing penetration, circulate hole clean and record SICTP, SITP and SICP. Sample and describe produced solids as often as possible. Monitor and report any fluid loss.
6. If plug can not be washed out consult with duty engineer. If directed, POOH with coiled tubing. Attach Dynadrill to coiled tubing and attempt to drill out plug, monitoring casing pressure and watching and reacting to lost returns as before. Sample and describe produced solids as often as possible. Monitor and report any fluid loss.
7. Wash/drill to 11,200' (10' below bottom perforation). Monitor and report any fluid loss.

8. When clean out is completed, circulate out CaBr2 with sea water. POOH with coiled tubing and tools. **Do not RD coiled tubing and circulating equipment.**
9. Return well to flowing production at a maximum surface drawdown of 500 psi. (based on SITP recorded directly after POOH with coiled tubing). Direct production to well clean tank, sampling hourly for water cut and solids.
10. If well does not appear to be producing solids, RU slickline. RIH and tag. Report tag to duty engineer.
11. If tag depth is satisfactory, RD coiled tubing and circulating equipment.
12. Return well to production, increasing drawdown per direction of duty engineer. Report on hourly hotsheet until no longer required.

Nuevo Energy Company
201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

May 13, 1998

Mr. Shannon Shaw
Minerals Management Service
770 Paseo Camarillo - MS 7210
Camarillo, CA 93010-6064

RECEIVED
MAY 14 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

RE: Sundry Notice for Platform Gilda #S-44

Please see the enclosed Sundry Notices submitted for your approval with 1 original and 3 copies. Nuevo would like to begin this work as early as this coming weekend. Let me know if you foresee any problems with the timeline.

Call me with any questions or comments on the attached.

Thank you,

Torch Operating Company, on behalf of
Nuevo Energy Company

Sabrina J. Miller
Regulatory Coordinator

OMB No. 1010-0045
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form MMS-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Union Oil Company of California

3. ADDRESS OF OPERATOR *(Where form is completed)*
P. O. Box 6176, Ventura, Ca. 93006

4. LOCATION OF WELL *(Report location in accordance with instructions* and Item 16.)*
AT SURFACE: X=1,041,776 Y=747,981 7824' FEL 3501' FSL
AT TOP PROD. INTERVAL: X=1,045,550 Y=752,912 4050'FEL 6562'FNL
AT TOTAL DEPTH: X=1,046,075 Y=753,335 3525'FEL 6985'FNL

5. LEASE NO.
OCS P-0216

6. AREA & BLOCK
48N 61W Map 6B

7. WELL NO.
S-44 (Platform Gilda)

8. UNIT AGREEMENT
Santa Clara Unit

9. FIELD
Santa Clara Unit

10. EXPLORATION [ ]
DEVELOPMENT [X]

11. ADJACENT STATE
California

12. API NO.
04-311-20610

13. ELEVATIONS
RKB 107' DF MLLW

14. WATER DEPTH
205'

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
ACIDIZE	[X]	[X]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
PERFORATE	[ ]	[X]
PERMANENT ABANDONMENT	[ ]	[ ]
TEMPORARY ABANDONMENT	[ ]	[ ]
ARTIFICIAL LIFT	[ ]	[ ]
(Other)		

(NOTE: Report results of multiple completion or zone change on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10-30-87	Perforate LP-K,L,M sands: 10916'-10736' 10703'-10684',10629'-10578', 10501'-10437' w/12SPF.
11-2-87	Set SSWW liner from 10971'-10324'
11-3-87	Gravel pack liner with 16-30 mesh Ottowa sand
11-6-87	Returned well to production
02-23-88	Solvent Wash
03-02-88	Acidize

Subsurface Safety Valve: Manu. and Type 2-7/8" EVE Otis QLP Flapper-ser#166 Set @ 518 Ft.

17. I hereby certify that the foregoing is true and correct

SIGNED /R.M. HINKEL TITLE DIST. DRILLING SUPERINTENDENT DATE 5-17-88

(This space for Federal or State office use)

APPROVED John C. McCarthy TITLE Acting District Supervisor DATE 5/20/88
CONDITIONS OF APPROVAL, IF ANY:

CONFIDENTIAL

Form MMS-331 (May 1983)
(Supersedes USGS Form 9-331 which will not be used)

*See instructions on reverse

INSTRUCTIONS

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal Outer Continental Shelf (OCS) lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted may be obtained from the local District Office.

Item 4: Location should be described in accordance with the instructions of the local District Office. In the Gulf of Mexico Region, indicate the distance in feet to the nearest block lines.

Item 16: Proposals to abandon a well and subsequent reports of abandonment should include the reasons for the abondonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspections looking to approval of the abandonment.

UNION OIL CO. OF CALIFORNIA
DRILLING RECORD

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LEASE OCS P 0216 WELL NO. S-44 FIELD Santa Clara Field

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
10-26-87	11,344'TD/ 11,259'ETD	Skid rig from well S-17 to well S-44. Turn pipe rack around. Rigging up.
10-28-87 & 10-29-87	11,344'TD/ 11/259'ETD	Continue POH w/production equipment. Set test plug. Pressure test blind rams and upper pipe rams. RIH w/7-5/8" casing scraper, scrape 7-5/8" liner f/8908'-10,961'. Change hole over to clean 105+ pcf Calcium Bromide. Circulate and condition well.
10-30-87	11,344'TD/ 11,259'ETD	Continue to circulate & condition Calcium Bromide @ 10,965'. POH with 7-5/8" scraper. RIH with Baker 5" 12 spf tubing conveyed guns tagged top of liner at 10,971', spaced out. Set packer @ 10,395'. Pressured annulus to 1600 psi to fire guns. Perforate LP-K, L, M sands: 10,916'-10,736', 10,703'-10,684', 10,629'-10,578', 10,501'-10,437'. Circulate bottoms up and POH.
10-31-87	11,344'TD/ 11,259'ETD	RIH w/7-5/8" casing scraper. Tag top of 3-1/2" L @ 10,971. RU and run 10 jts of 3-1/2" SSWW liner w/Baker gravel pack assembly. Liner stopped at 10,949'. Attempt to work liner to 10,971'. Liner stuck at 10,949'. Attempt to circulate liner, negative. Attempt to circulate liner down annulus, negative. Pressure annulus to 1500 psi and released liner. POH.
11-01-87	11,344'TD/ 11,259'ETD	Measure, pickup & RIH w/4-3/4" BHA on 3-1/2" DP. RIH to 10,295' and engage top of liner. Pull 15-20,000# over & work liner free. RIH and engage liner snap latch @ 10,371'. Snap in & out twice. POH.
11-02-87	11,344'TD/ 11,259'ETD	Pressure test top pipe rams to 250 psi x 2450 psi. RIH w/7-5/8" scraper & scrape 7-5/8" liner f/8908'-10,971'. Circulate & wash liner top. POH. Cut & slip drilling line. RU and run 19 jts of 3-1/2" 9.3# N-80 .02" SSWW liner, 1 jt 3-1/2" blank (upper liner section), and gravel pack equipment to 10,971' on 2-7/8" tubing. Check snap latch, OK. Established circulation @ 2 bpm 500 psi, dropped setting ball & set packer w/2000 psi. Sheared ball out w/3300 psi. Tested annulus to 1500 psi and released from packer. Established circulation in back scuttling position @ 2 bpm and 800 psi. Performed pack #1 as follows: with tool in gravel pack position, tested annulus to 1500 psi, pumped 10 bbls of 318 vis prepad fluid at 2.3 bpm and 1000 psi, followed by 96 bbls of 3 ppg 16-30 mesh Ottawa slurry from 1000-1800 psi and 2-1 bpm, respectively. Displaced with 5 bbls afterpad & 39 bbls of Calcium Bromide. Achieved sand out at 2500 psi and 0.25 bpm. Reversed tubing clean. 88 sacks of gravel in place (105 sx theoretical, 84%). Waited 2 hours and established circulation in gravel pack position at 1100 psi and 2 bpm.
11-03-87	11,344'TD 11,259'ETD	Mixed 24 bbls of slurry with 3 ppg sand and performed pack #2 as follows: With tool in back scuttle position, pumped 5 bbls prepad, 24 bbls slurry, and 5 bbls afterpad. Displaced with 16 bbls Calcium Bromide. Set tool in gravel pack position and continued to displace slurry at 1500 psi and 2 bpm (total displacement volume = 50 bbls). Sanded out at 2500 psi and 0.25 bpm. 104 sacks of gravel in place (105 sx theoretical, 99%). Waited 1 hour and established circulation in gravel pack position at 1000 psi and 2 bpm. Performed pack #3 as follows: Mixed 15 bbls of slurry at 3# sand/gallon. Pumped 5bbls prepad, 10 bbls slurry and 4 bbls afterpad @ 950 psi and 3 bpm in backscuttle position. Displaced with 40 bbls Calcium Bromide and set tool in gravel pack position. Sanded out at 2400 psi and 0.125 bpm. 110 sacks of gravel in place (105 theoretical, 105%). Reversed tubing clean. Waited 1 hour and attempted circulation in gravel pack position. Pressured pack to 2500 psi, no rate established. POH laying down gravel pack tools. RIH w/1-1/4" CS Hydril tubing on 2-7/8" tubing. Found bridge in liner f/11,125'-11,135'. Pumped through bridge. Continue RIH to 11,260' (no fill). POH laying down excess 2-7/8" tubing and 1-1/4" tubing. RU to run production equipment.

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LEASE OCS P 0216 WELL NO. S-44 FIELD Santa Clara Field

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
11-04-87	11,344'TD/ 11,259'ETD	Ran production equipment, Hydro-testing tubing and all equipment to 5000 psi. Landed tubing w/BPV in place. Tested hanger seals to 2500 psi. Landed tubing w/tail at 10,299'. Nippling down BOPE.
11-05-87	11,344'TD/ 11,259'ETD	Changeover to seawater. Turn well over to production. Released rig @ 1400 hours 11-05-87.

DATE	B/D	CUT	GAS	TBG	BHP	CHOKE
PREVIOUS	180/180	0	270	110	1100	64
11/06/87	109/0	100	0	95	3589	40
11/07/87	71/57	20.6	57	100	3546	55
11/08/87	87/64	27.0	45	112	3066	55
11/09/87	258/237	8.0	103	130	2150	31
11/10/87	310/301	3.0	114	135	1950	27
11/11/87	299/292	2.5	118	140	1853	27
11/12/87	288/282	2.0	116	140	1853	27
11/13/87	256/251	2.0	107	120	1792	27
11/14/87	260/255	2.0	118	120	1821	53
11/15/87	256/252	1.5	130	120	1843	53
11/16/87	260/255	2.0	125	120	1853	53

3-1/2",9.3#, N-80, CS Hydril SSWW Liner Detail

From	To	Length	Jts	Decription
10,971.73	10,971.05	.68	1	Baker model S-22 Snap Latch
10,971.05	10,939.63	31.42	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,030.63	10,908.21	31.42	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,908.21	10,876.90	31.31	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,976.90	10,844.01	32.89	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,844.01	10,812.19	31.82	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,812.19	10,781.61	30.58	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,781.61	10,748.83	32.78	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,748.83	10,717.43	31.40	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,717.43	10,686.01	31.42	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,686.01	10,654.60	31.41	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,654.60	10,626.05	28.55	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,626.05	10,594.83	31.22	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,594.83	10,566.61	28.22	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,566.61	10,535.27	31.34	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,535.27	10,503.99	31.28	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,503.99	10,474.35	29.64	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,474.35	10,443.03	31.32	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,443.03	10,411.68	31.35	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,411.68	10,379.80	31.88	1	3-1/2",9.3#,N-80 CS Hydr. .02" SSWW
10,379.80	10,348.46	31.34	1	3-1/2",9.3#,N-80 CS Hydril tbg.
10,348.46	10,347.91	.55	1	3-1/2",CS Hydr x 4-1/2" 8 RD XO Sub
10,347.91	10,332.16	15.75	1	Lower Extension
10,332.16	10,330.67	1.49	1	Seal Bore
10,330.67	10,329.01	1.66	1	Reciprocating port collar
10,329.01	10,324.19	4.82	1	Upper Extension
10,324.19	10,320.48	3.71	1	Baker Model SC-1 packer

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS

2-7/8",6.5#, N-80, EUE 8 RD Tubing Detail

From	To	Length	Jts	Decription
10,299.94	10,299.52	.42		2-7/8" Mule Shoe
10,299.52	10,299.13	.39		2-7/8" EUE shear out sub
10,299.13	10,288.98	10.15		2-7/8", 6.5#, N-80 pup
10,288.98	10,287.70	1.28		2-7/8" EUE Otis 'XN' nppl(2.205 ID)
10,287.70	10,257.44	30.26	1	2-7/8", 6.5# N-80 tubing
10,257.44	10,255.32	2.12		2-7/8" pup jt.
10,255.32	10,251.02	4.30		Otis 'R.H.' packer
10,251.02	10,246.81	4.21		2-7/8" EUE pup jt.
10,246.81	10,215.67	31.14	1	2-7/8", 6.5# N-80 tubing
10,215.67	10,212.49	3.18		Otis 'XA' sleeve
10,212.49	10,181.18	31.31	1	2-7/8" N-80 EUE tubing
10,181.18	10,179.06	2.12		2-7/8" N-80 pup jt.
10,179.06	10,165.56	13.50		2-7/8" EUE Otis Travel JT w/sleeve lock
10,165.56	10,161.38	4.18		2-7/8" pup jt.
10,161.38	10,130.33	31.05	1	2-7/8" EUE tubing
10,130.33	10,098.53	31.80		2-7/8" EUE BST Pressure Chamber
10,098.53	532.62	9565.91	309	2-7/8", 6.5# EUE N-80 tubing
532.62	530.99	1.63		2-7/8" pup jt.
530.99	524.84	6.15		2-7/8" EUE BST Chemical Injection 600# Mandrel
524.84	520.73	4.11		2-7/8" pup jt.
520.73	518.60	2.13		2-7/8" pup jt.
518.60	506.87	11.73		2-7/8" EUE Otis QLP Flapper-ser #166
506.87	502.67	4.20		2-7/8" pup jt.
502.67	73.82	428.85	14	2-7/8", 6.5# N-80 tubing
73.82	63.82	10.00		2-7/8" pup jt.
63.82	53.82	10.00		2-7/8" pup jt.
53.82	53.17	.65		2-7/8" fatigue nipple
53.17	52.00	1.17		National tubing hanger
52.00	-0-	52.00		Landed below zero

0930D

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
02-01-88	11,344'TD 11,259'ETD	Skidded rig to wellroom #4. Rigged up equipment. Installed piperack over wellroom #3 at 2400 hours.
02-02-88	11,344'TD 11,259'ETD	Bled down tubing pressure. Bullheaded 10 barrels of FSW followed by 15 barrels of Matriseal pill followed by 60 barrels of CaBr. Bled back 1 barrel from tubing. Tubing pressure zero. Rigged up Otis and tested lubricator to 2500 psi. Ran gauge cutter and stopped at 100'. Pulled tool and recovered tar. Spotted 5 barrels of diesel at 1-1/2 BPM, 1400 psi. Ran gauge tool to 10,212'. Ran shifting tool and opened sliding sleeve. Could not pump through sliding sleeve. Tubing pressure zero, casing on a vacuum. Installed BPV and nippled down tree and bonnet. Nippled up riser and BOPE at 2400 hours.
02-03-88	11,344'TD 11,259'ETD	Nippled up 13-5/8" BOPE. Pressure tested BOPE to UNOCAL specs. Released packer with 70,000# overpull. Filled annulus with 125 barrels of CaBr. Well flowing slightly. Shut-in well, casing pressure 25 psi, tubing zero. Circulated 105 pcf CaBr through choke at 2 BPM, 75 psi. Pumped 73 barrels of 105 pcf and tubing pressured up to 2100 psi at 3/4 BPM. Shut-in well and observed, well static. Call out Dia-Log to perforate tubing. Perforated three 1/4" holes at 10,136'. Rigged up to circulate. Had negative results at 1800 psi.
02-04-88	11,344'TD 11,259'ETD	Shot holes in tubing at 10,136'. Could not circulate at 10,136' with 1800 psi. Rigged up Dia-Log and re-shot holes at 9915'. Circulated well with 105 pcf CaBr. POH with completion string. Sent all jewelry to beach for reconditioning. Lost 15 barrels of CaBr on trip. Made up test plug and tested blind rams. Picked up 33 joints of 1-1/2" CS Hydril tubing for clean out run at 2400 hours.
02-05-88	11,344'TD/ 11,259'ETD	RIH with 1-1/2" CS Hydril tubing on 2-7/8" tubing to 8908'. Rigged up power swivel. RIH to 10,200' and broke circulation. Cleaned out hard fill from 10,344' - 10,348' and bridge at 10,919'. Cleaned out hard fill from 10,930' - 11,002'. RIH to 11,259'ETD. Circulated and conditioned CaBr. Spotted 15 barrels of Xylene across interval. POH with tubing at 2400 hours.
02-06-88	11,344'TD/ 11,259'ETD	Laid down 1-1/2" CS Hydril tubing. Plug tested all production jewelry to 5000 psi. Made up and ran completion schematic. Hydrotested all tubing to 5000 psi. Banded all capillary tubing to 2-7/8". Landed on tubing hanger. Set packer. Test annulus to 1200 psi, OK. Set BPV. Nippled down BOPE at 2400 hours.
02-07-88	11,344'TD/ 11,259'ETD	Continued to nipple down BOPE. Nippled up production tree and tested to 5000 psi. Pulled BPV. Rigged up wireline and opened travel joint. Opened sliding sleeve. Set 'PXN' plug at 10,266'. Changed well over to seawater with 5 GPH E-200 and 5 GPH Biocide 490. Closed sliding sleeve at 10,190'. Retrieved 'PXN' plug. Turned well over to production at 2130 hours. Flowed well, made 68 BPD rate. Released rig at 2400 hours.
02-09-88	11,344'TD/ 11,259'ETD	Rigged up coiled tubing on S-44 at 0030 hours. Pressure tested equipment to 4000 psi. Ran in hole with coiled tubing and start nitrogen lift with 200 SCF/M. Lifted well from 10,200' with 250 SCF/minute at 1130 hours. Decreased rate to 200 SCF/Minute at 1600 hours. Increased rate to 350 SCF/M at 1830 hours. Pulled coiled tubing to 9200' and lifted well at 350 SCF/M at 2400 hours.
02-10-88	11,344'TD/ 11,259'ETD	Continued pulling out with coiled tubing. Changed out spool and spooled up remaining 2000'. Well flowed intermittenly through test trap at low rates. Loaded out coiled tubing and nitrogen equipment and sent to beach. Released rig to S-52 at 1930 hours.
02-23-88		MIRU B.J. marine portable tanks, containing xylene, on drilldeck. RU header system and lines from MPT's to B.J. pumping unit.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
02-24-88	11,259'ETD	Installed swab valve on well and riser to drilldeck. RU Camco Coil Tbg Unit. Installed snubbing unit and B.O.P.E. RU Nowsco Nitrogen Skid Unit. RU lines from B.J. pumping unit and nitrogen skid unit to coil tbg unit. Shut in well at 1200 hrs. Tested all surface lines to swab valve 4000 psig, OK. RIH w/ 1-1/4" coil tbg tagging fill @ 11185' (75' of fill, covers 5' of perfs). Open well flowline. Flowing well conditions of 105# T.P., 3992# FBHP @ sensor, 0# C.P. prior to start of solvent job. Start solvent job at 1927 hrs. Pumped 2000 gallons of xylene down coil tubing spotting xylene across liner while taking emulsified crude oil and water returns at surface. (Average circ rate .5 BPM @ 3750# coil tbg press, 116# flowline press, 4695# BHP @ sensor. Pulled coil tbg up to 10,250' after pumping 630 gallons.) Closed flowline at 2105 hours and bullheaded remaining 4630 gallons xylene down coil tbg. Pulled coil tbg up to 1600' during last 2000 gallons of injection. (Initial stabalized injection rate: 0.5 BPM @ 4650 psi coil T.P., 2450 psi S.I. 2-7/8" T.P., 5991 psi BHP @ sensor. Final stabalized injection rate: 0.4 BPM @ 4000 psi coil T.P., 2450 psi S.I. T.P., 5760 psi BHP @ sensor. No breakdown seen.)
02-25-88	11,259'ETD	Displaced 2-7/8" tbg w/ 82950 SCF N_2 to 10108'± by pumping through coil tbg at 100'. Finished N_2 displacement @ 0315 hrs. Shut in well for 6 hr soak with 3500# coil T.P., 2900# S.I. 2-7/8" T.P., 5100# SBHP @ sensor. Total of 6630 gal xylene w/5% Inflo-40 mutual solvent and .4% NE-10 non-ionic water wetting surfactant injected during job. Shut in well conditions at 0900 hrs of 2790# T.P., 4725# SBHP sensor, fluid level 3225' from surface. Open well to flow on 10/64" choke at 0920 hrs. Had fluid to surface in 57 minutes. Initial rate 110/110 B/D, 0% cut, all xylene, 10/64" choke. From 1230 to 1330 hrs produced 20± bbl of CaBr wtr as cut increased to 90% cut (possibly water block fluids).

1800 hrs: 259/244 B/D, 67% cut, 26° API, 80 MCF/D, 560 psi T.P., 2888 psi FBHP @ sensor, 16/64" choke.

	B/D	% cut	°API	MCF/D	T.P.	FBHP @ Sensor	Choke
2-26-88	232/231	.4%	19.8°	70	160 psi	2483 psi	18/64"
2-27-88	228/227	.5%	19.8°	21	200 psi	2584 psi	19/64"

03-02-88	11,344'TD/ 11,259'ETD	Resumed operations at 1930 hours. Rigged up Howco 222 acid boat to platform. Tied acid line to Camco coiled tubing unit. Pressure tested equipment to 5000 psi. Ran in hole with coiled tubing to 8466' at 2400 hours.
03-03-88	11,344'TD/ 11,259'ETD	Continued acidizing as per procedure. Initial rate 0.6 BPM at 3770 psi CT pressure, 3367 psi BHP. Pumped 1000 gallons of solvent and shut well in for a 35 minute soak. Started pumping 5 stage acid job at 0315 hours. Pumped total of 31,610 gallons of which 28,230 gallons are acid. Rate of 0.6 BPM at 4260 psi CT pressure, 5340 BHP at 2400 hours.
03-04-88	11,344'TD/ 11,259'ETD	Continued pumping five stage acid job. Pumped a total of 42,009 gallons, 36,500 of which were acid. Followed acid with 1000 gallons of HAS solvent. Final pumping rate was .54 BPM, coiled tubing pressure was 4710 psi, bottom hole pressure 5430 psi. Displace 2-7/8" tubing with 112,200 SCF of nitrogen. Shut in w11 for a total of four hours for solvent soak. Returned well to production at 1535 hours and had fluid to surface at 1808 hours. Continued to flow well to production facilities at 2400 hours.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS

ACIDIZED L REPETTO 3/4.

3/5:	306/37	88.0%	19.8°API	8 MCF	100 TBG	0 CSG	42/64
3/6:	444/111	75.0%	19.8°API	184 MCF	95 TBG	0 CSG	32/64
3/7:	475/166	65.0%	19.8°API	70 MCF	105 TBG	0 CSG	24/64
3/8:	435/183	58.0%	19.8°API	70 MCF	150 TBG	0 CSG	
3/9:	510/255	50.0%	19.8°API	81 MCF	145 TBG	0 CSG	35/64
3/10:	370/192	48.0%	19.8°API	53 MCF	105 TBG	0 CSG	35/64
3/11:	341/211	38.1%	19.8°API	62 MCF	95 TBG	0 CSG	35/64
3/12:	380/133	65.0%	19.8°API	81 MCF	90 TBG	0 CSG	35/64
3/13:	413/235	43.0%	19.8°API	84 MCF	90 TBG	0 CSG	64/64
3/14:	335/198	41.0%	19.8°API	63 MCF	110 TBG	0 CSG	64/64

2-7/8",6.4#, N-80, EUE 8 RD Tubing Detail

From	To	Length	Jts	Decription
10,278.27	10,277.83	.44		2-7/8" EUE Mule Shoe Collar
10,277.83	10,277.46	.37		2-7/8" EUE Shear Out Sub (Otis)
10,277.46	10,267.31	10.15		2-7/8" N-80 6.4# Pup Jt.
10,267.31	10,266.04	1.27		2-7/8" EUE "XN" No-Go Landing Nipple (2.20)
10,266.04	10,235.04	31.00	1	2-7/8" N-80 6.4# TBG.
10,235.04	10,232.92	2.12		2-7/8" N-80 6.4# Pup
10,232.92	10,228.65	4.27		2-7/8" 29.7#-39# RH Packer
10,228.65	10,224.43	4.22		2-7/8 EUE Pup Jt. N-80 6.4#
10,224.43	10,193.29	31.14	1	2-7/8" EUE N-80 6.4# TBG
10,193.29	10,190.15	3.14		2-7/8" EUE "XA" SSD Sleeve
10,190.15	10,159.15	31.00	1	2-7/8" EUE N-80 6.4# TBG
10,159.15	10,157.05	2.12		2-7/8" EUE N-80 6.4# TBG Pup
10,157.03	10,144.43	12.60		2-7/8" EUE Travel Joint W/Sleeve Lock
10,144.43	10,140.21	4.22		2-7/8" EUE Pup Joint
10,140.21	10,108.41	31.80		2-7/8 EUE BST Pressure Chamber
10,108.41	541.66	9566.75	309	2-7/8" N-80 EUE 6.4# TBG
541.66	540.03	1.63		2-7/8" EUE Pup Jt. N-80 6.4#
540.03	533.87	6.16		2-7/8" EUE Chemical Injection Mandrel
533.87	529.76	4.11		2-7/8" EUE N-80 6.4# Pup Jt.
529.76	527.62	2.14		2-7/8" EUE N-80 6.4# Pup
527.62	515.20	12.42		2-7/8" EUE FLP SCSSV Flapper Valve (Ser.# FLP 121)
515.20	509.23	5.97		2-7/8" EUE N-80 6.4# Pup
509.23	73.82	435.41	14	2-7/8" EUE Tub N-80 6.4#
73.32	63.82	10.00	1	2-7/8" EUE N-80 6.4# TBG Pup
63.82	53.82	10.00	1	2-7/8" EUE N-80 6.4# Tbg Pup
53.82	53.17	.65		2-7/8" EUE N-80 6.4# Fatique Nipple
53.17	52.00	1.17		National Tbg Hanger
52.00	0	52.00		Landed Below KB

OMB No. 1010-0045
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form MMS-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Union Oil Company of California

3. ADDRESS OF OPERATOR *(Where form is completed)*
P. O. Box 6176, Ventura, Ca 93006

4. LOCATION OF WELL *(Report location in accordance with instructions* and Item 16.)*
AT SURFACE: X=1,041,776 Y=747,981 7824' FEL 3501' FSL
AT TOP PROD. INTERVAL: X=1,045,901 Y=753,196 3690'FEL 7124'FNL
AT TOTAL DEPTH: X=1,046,075 Y=753,335 3525'FEL 6985'FNL

5. LEASE NO.
OCS P-0216

6. AREA & BLOCK
48N 61W Map 6 B

7. WELL NO.
S-44 (Platform Gilda)

8. UNIT AGREEMENT
Santa Clara Unit

9. FIELD
Santa Clara Unit

10. EXPLORATION [ ] DEVELOPMENT [X]

11. ADJACENT STATE
California

12. API NO.
04-311-20610

13. ELEVATIONS
RKB 107' above MLLW

14. WATER DEPTH
205'

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
PERFORATE	[X]	[ ]
PERMANENT ABANDONMENT	[ ]	[ ]
TEMPORARY ABANDONMENT	[ ]	[ ]
ARTIFICIAL LIFT	[ ]	[ ]
(Other)		

(NOTE: Report results of multiple completion or zone change on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well S-44 is currently a Lower Repetto producer completed in the LP-N sand. It is planned to perforate and complete additional Lower Repetto sands (LP-K, LP=L, and LP-M).
See attached procedure and schematic.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

17. I hereby certify that the foregoing is true and correct

SIGNED R. M. Hinkel by E. R. Callahan TITLE District Drilling Superintendent DATE 10-27-87

(This space for Federal or State office use)

APPROVED BKU TITLE Act. District Supervisor DATE NOV 12 1987
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
OCT 28 1987
MINERALS MGT. SERVICE
VENTURA DISTRICT

Form MMS-331 (May 1983)
(Supersedes USGS Form 9-331 which will not be used)

*See instructions on reverse

INSTRUCTIONS

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal Outer Continental Shelf (OCS) lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted may be obtained from the local District Office.

Item 4: Location should be described in accordance with the instructions of the local District Office. In the Gulf of Mexico Region, indicate the distance in feet to the nearest block lines.

Item 16: Proposals to abandon a well and subsequent reports of abandonment should include the reasons for the abondonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspections looking to approval of the abandonment.

S-44 RECOMPLETION PROCEDURE

1. Skid rig over Slot #81, Well S-44.
2. Kill well with CaBr.
3. Install and test 13-5/8". 5000#, BOPE.
4. Pull existing production equipment.
5. Perforate the LP-K, L, and M sands 12hpf as follows:

LP-K:	10,437' - 10,501'
LP-L:	10,578' - 10,629'
	10,684' - 10,703'
LP-M:	10,736' - 10,916'

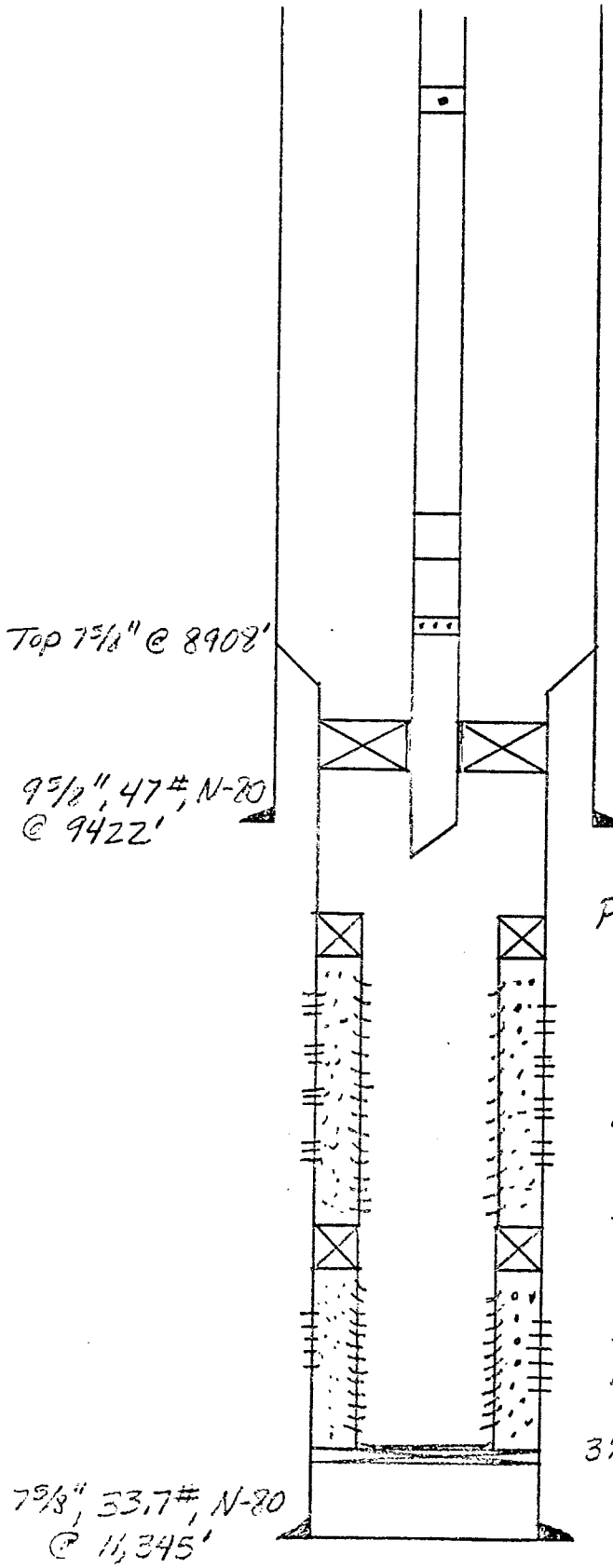
6. Run scraper.
7. Run and gravel pack 3-1/2" SSWW liner.
8. Run production equipment.
9. Remove BOPE and install tree.
10. Change over to sea water.
11. Return well to production.

Calculation F ord

UNOCAL 76

PREPARED BY	CHECKED BY	DATE	PAGE
ERC		10-27-27	OF

SUBJECT: Platform Gilda S-44 Proposed Recompletion



SSSV

2 7/8", 6.5#, N-80, EUE 8RD tubing

Pruett Chamber

XA Sleeve

Top 7 5/8" @ 8908'

7 5/8" Permanent Pkr

9 5/8", 47#, N-80 @ 9422'

2 7/8" tail @ 10,326'

Proposed top of SC-1 Pkr @ 10,357'

Proposed Perfs: (12 spf)
LP-K 10,437' - 10,501'
LP-L 10,578' - 10,629'
LP-L 10,684' - 10,703'
LP-M 10,736' - 10,916'

Top SC-1 Pkr @ 10,971'

Existing Perfs:
LP-N - 11,062' - 11,190' 12 SPF

3 1/2", 9.3#, N-80 SSWW @ 11,260'

7 5/8", 33.7#, N-80 @ 11,345'

OMB No. 1010-0046
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

SUBMIT IN DUPLICATE*

Rafless

WELL-COMPLETION OR RECOMPLETION REPORT AND LOG*

LEASE NO. OCS P-0216
6. AREA & BLOCK
7. WELL NO. S-44 (Slot 81)
8. UNIT AGREEMENT NAME Santa Clara Unit
9. FIELD Santa Clara Unit
10. EXPLORATION [ ] DEVELOPMENT [X]
11. ADJACENT STATE California
12. API NO. 04-311-20610

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other
b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR
Union Oil Company of California

3. ADDRESS OF OPERATOR
P.O. Box 6176, Ventura, Ca. 93006

4. LOCATION OF WELL *(Report location in accordance with instructions)* *
At surface X=1,041,776 Y=747,981 7824'FEL 3501'FSL
At top prod. interval reported below X=1,045,901 Y=753,196 3690'FEL 7124'FNL
At total depth X=1,046,075 Y=753,335 3525'FEL 6985'FNL

13. DATE SPUDDED	14. DATE T.D. REACHED	15. DATE COMPL. OR OPERATIONS FINALIZED	16. ELEVATION*	17. WATER DEPTH
6-14-85	7-29-85	8-29-85	RKB 107' above MLLW	205'

18. TOTAL DEPTH, MD & TVD	19. PLUG BACK, T.D., MD & TVD	20. IF MULTIPLE COMPL., HOW MANY*
11,345'TMD/8395'TVD		

ENTERED OCSIS SEP 25 1985

21. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
11,062'MD/8206'VD - 11,190'MD/8253'VD LP-N

22. WAS DIRECTIONAL SURVEY MADE: yes

23. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-MSFL-GR, FDC-CNL-GR, CBL-VDL-GR, PNL-GR

24. WAS WELL CORED: no

25. CASING RECORD *(Report all strings set in well)*

CASING SIZE & GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20" X-52	94#	726'	17½" UR 26"	1300 cf	
*16" X-52	75#	1583'	17½" UR 22"	1482 cf	
13-3/8" K-55	68#	3998'	14-3/4"UR 18"	3053 cf	
9-5/8" N-80	47#	9422'	12-1/4"	2165 cf	

MINERALS MANAGEMENT SERVICE PACIFIC OCS REGION RECEIVED OCT 03 1985 FIELD OPERATIONS LOS ANGELES

26. *Liner LINER RECORD

SIZE & GRADE	TOP (MD)	BOTTOM (MD)	CU. FT. CEMENT	SCREEN (MD)
7-5/8"N-80	8908'	11,344'	595 cf	
3-1/2"N-80	10,971'	11,260'	50 sks gravel	

27. TUBING RECORD

SIZE & GRADE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	10,938'	10,890'

28. PERFORATION RECORD *(Interval, size and number)*
11,062'-11,190'
Tubing conveyed twelve .8" hpf

29. ACID, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
IN HISTORY.....	

30* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD *(Flowing, gas lift, pumping—size and type of pump)*	WELL STATUS *(Producing or shut-in)*
8-20-85	Pumping	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-6-85	24	64/S.I.		421	229	6	.544

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
140 psi	450 psi		Same			21.0°

31. DISPOSITION OF GAS *(Sold, used for fuel, vented, etc.)*
Sold

RECEIVED SEP 23 1985 MINERALS MGT. SERVICE VENTURA DISTRICT

TEST WITNESSED BY: Ken Ferguson

32. LIST OF ATTACHMENTS

33. Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A.M. Laurie TITLE Dist. Drlg. Supt. DATE 9-17-85

Form MMS-330 (May 1983)
(Supersedes USGS Form 9-330 which will not be used)

*See instructions on reverse

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to procedures and practices may be obtained from the local District Office. See instructions on items 20, 21, and 30 below, regarding separate reports for separate completions.

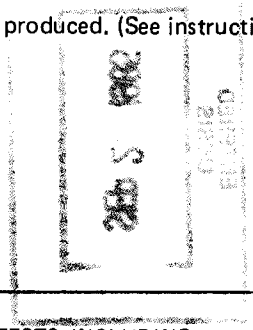
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable regulations. All attachments should be listed on this form, see item 32.

Item 4: Locations should be described in accordance with the instructions of the local District Office. In the ~~Gulf of Mexico~~ Pacific OCS Region, indicate the distance in feet to the ~~nearest block lines~~. Two nearest straight lease lines.

Item 16: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Item 20 and 21: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 20 and in item 21 show the producing interval, or intervals, top(s), bottom(s), and name(s) (if any) for only the interval reported in item 30. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 30: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for item 20 and 21 above.)



35. SUMMARY OF POROUS ZONES:
SHOW ALL ZONES CONTAINING HYDROCARBONS; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL, TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

36. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
LP-B	8712'	6627'
LP-E	9476'	7152'
LP-K	10,262'	7672'
LP-L	10,577'	7879'
LP-M	10,737'	7985'
LP-N	11,040'	8188'

OMB No. 1010-0046
(Expires July 31, 1986)

Peter

UNIT STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

SUBMIT IN DUPLICATE*

LA

5. LEASE NO. OCS P-0216

6. AREA & BLOCK

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

7. WELL NO. S-44 (Slot 81)

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

8. UNIT AGREEMENT NAME: Santa Clara Unit

9. FIELD: Santa Clara Unit

2. NAME OF OPERATOR: Union Oil Company of California

10. EXPLORATION ☐ DEVELOPMENT ☒

3. ADDRESS OF OPERATOR: P.O. Box 6176, Ventura, Ca. 93006

4. LOCATION OF WELL (Report location in accordance with instructions)*
At surface X=1,041,776 Y=747,981 7824'FEL 3501'FSL
At top prod. interval reported below X=1,045,901 Y=753,196 3690'FEL 7124'FNL
At total depth X=1,046,075 Y=753,335 3525'FEL 6985'FNL

11. ADJACENT STATE: California

12. API NO. 04-311-20610

13. DATE SPUDDED	14. DATE T.D. REACHED	15. DATE COMPL. OR OPERATIONS FINALIZED	16. ELEVATION*	17. WATER DEPTH
6-14-85	7-29-85	8-29-85	RKB 107' above MLLW	205'

18. TOTAL DEPTH, MD & TVD	19. PLUG BACK, T.D., MD & TVD	20. IF MULTIPLE COMPL., HOW MANY*
11,345'TMD/8395'TVD		

ENTERED OCSIS SEP 25 1985

21. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
11,062'MD/8206'VD - 11,190'MD/8253'VD LP-N

22. WAS DIRECTIONAL SURVEY MADE: yes

23. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-MSFL-GR, FDC-CNL-GR, CBL-VDL-GR, PNL-GR

24. WAS WELL CORED: no

25. CASING RECORD (Report all strings set in well)

CASING SIZE & GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20" X-52	94#	726'	17½" UR 26"	1300 cf	
*16" X-52	75#	1583'	17½" UR 22"	1482 cf	
13-3/8" K-55	68#	3998'	14-3/4"UR 18"	3053 cf	
9-5/8" N-80	47#	9422'	12-1/4"	2165 cf	

26. *Liner — LINER RECORD

SIZE & GRADE	TOP (MD)	BOTTOM (MD)	CU. FT. CEMENT	SCREEN (MD)
7-5/8"N-80	8908'	11,344'	595 cf	
3-1/2"N-80	10,971'	11,260'	50 sks gravel	

27. TUBING RECORD

SIZE & GRADE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	10,938'	10,890'

28. PERFORATION RECORD (Interval, size and number)

11,062'-11,190'
Tubing conveyed twelve .8" hpf

29. ACID, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
IN HISTORY.....	

30* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
8-20-85	Pumping	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-6-85	24	64/S.I.		421	229	6	.544

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL--BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
140 psi	450 psi		Same			21.0°

31. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold

TEST WITNESSED BY: Ken Ferguson

32. LIST OF ATTACHMENTS

MINERALS MANAGEMENT SERVICE PACIFIC OCS REGION RECEIVED SEP 27 1985 FIELD OPERATIONS LOS ANGELES

33.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A.M. Laurie TITLE Dist. Drlg. Supt. DATE 9-17-85

Form MMS-330 (May 1983)
(Supersedes USGS Form 9-330 which will not be used)

*See instructions on reverse

INSTRUCTIONS

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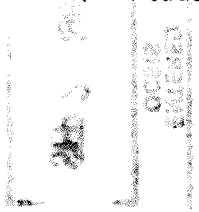
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable regulations. All attachments should be listed on this form, see item 32.

Item 4: Locations should be described in accordance with the instructions of the local District Office. In the ~~Gulf of Mexico~~ Pacific OCS Region, indicate the distance in feet to the ~~nearest block lines~~. Two nearest straight lease lines.

Item 16: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Item 20 and 21: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 20 and in item 21 show the producing interval, or intervals, top(s), bottom(s), and name(s) (if any) for only the interval reported in item 30. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 30: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for item 20 and 21 above.)



35. SUMMARY OF POROUS ZONES:
SHOW ALL ZONES CONTAINING HYDROCARBONS; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL, TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

36. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
LP-B	8712'	6627'
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LP-L	10,577'	7879'
LP-M	10,737'	7985'
LP-N	11,040'	8188'

UNION OIL CO. OF CALIFORNIA
DRILLING RECORD

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
6-14-85	12,400'PTD 740'/422'	Moved rig to slot 81 and spudded well 1530 hrs. 6-14-85. Drilled 17-1/2" hole from 318' to 740'. Pulled out of hole. Ran in hole and underreamed to 26" from 318' to 740'. Spotted gel mud and pulled out of hole. Rigging up to run casing.
6-15-84	740'/0'	Rigged up and ran 16 joints of 20", 94#, K-55 casing with Dril-Quip connectors, finned pup joint and 20-3/4", 3000 psi lower wellhead unit on running tool and 20" landing joints. Landed casing with Orifice fill stab-in shoe at 726'. Ran in hole with stab-in tool on 5" drill pipe. Stabbed into shoe and dropped ball to activate float equipment. Sheared ball with 800 psi. Cemented as follows; pumped 200 cf of sea water, 420 sacks Class "G" cement with .46 gps A-3L and 400 sacks Class "G" cement with .4 gps A-7L. Displaced cement with 8 barrels of water. Pulled stab-in out of shoe and dumped 30 cf of cement inside 20" casing. CIP 1145 hrs. Waited on cement for 10 hrs. Laid down landing joints and running tool. Installing BOPE.
6-16-85	1080'/340'	Continued to install BOPE and riser. Tested casing and blind rams to 250 and 500 psi. Ran in hole with 17-1/2" bit and cleaned out cement and shoe to 740'. Changed well over to clay base mud and pulled out of hole. Ran Gyro survey in 20" casing. Ran in hole with 17-1/2" bit and drilled to 1080'.
6-17-85	1583'/503'	Drilled and surveyed 17-1/2" hole from 1080' to 1450'. Circulated bottoms up and pulled out of hole. Drilled and surveyed from 1450' to 1583'. Circulated bottoms up and pulled out of hole. Underreamed hole to 22" from 740' to 1160'.
6-18-85	1588'/0'	Continued to underream to 22" from 1160' to 1583'. Circulated clean and pulled out of hole. Pulled wear bushing. Rigged up and ran 31 joints, 16", 75#, X-52 casing with VP-3 connectors and 16" cementing adaptor. Circulated and conditioned mud while reciprocating casing. Cemented as follows; pumped 200 cf of sea water and 1300 sacks Class "G" cement with .2 gps A-7L. Displaced cement with 271 barrels mud and bumped plug with 1200 psi (float equipment held). CIP 2045 hrs. Reciprocated casing through 190 barrels displacement. Landed casing with Orifice fill shoe at 1583', Orifice fill collar at 1542' and 16" adaptor at 368'. Released running tool and pulled out of hole. Ran in hole with 17-1/2" bit and cleaned out cement from 340' to 368'. Circulated clean and pulled out of hole. Waited on cement a total of 4 hrs. Tested blind rams and 16" X 20" lap to 500 psi. Installed wear bushing. Ran in hole with 14-3/4" bit, cleaned out cement adaptor from 368' to 377'. Ran in hole to 1539'. Tested upper and lower pipe rams, kill and choke lines, choke manifold, upper and lower Kelly cocks, inside BOP, safety valve and annular preventer to 250 and 500 psi.
6-19-85	2408'/825'	Cleaned out float collar at 1539' and cemented to 1547'. Tested casing to 500 psi. Cleaned out cement and shoe to 1583' and drilled to 1588'. Circulated clean. Tested formation to leakoff at 101 pcf equivalent mud weight. Pulled out of hole for drilling assembly change. Ran in hole and directionally drilled from 1588' to 2408'. Pulled out of hole for drilling assembly change.
6-20-85	3907'/ 1499'	Ran in hole and reamed Dyna-drill run from 1588' to 2408' and drilled to 2901'. Circulated clean and pulled out of hole for drilling assembly change (angle dropping too rapidly). Ran in hole and drilled to 3520'. Wiped hole to 2551'. Ran in hole and drilled to 3907'.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
6-21-85	4015'/108'	Drilled 14-3/4" hole from 3907' to 4015'. Circulated and made 10 stand wiper trip. Circulated and pulled out of hole. Ran in hole with 18" underreamer and scraped 16" shoe joint from 1539' to 1583'. Underreamed hole to 18" from 1583' to 3110'.
6-22-85	4015'	Continued Underreaming 14-3/4" hole to 18" from 3110' to 4015'. Circulated and conditioned mud. Wiped hole to shoe. Ran in hole - no fill. Circulated and conditioned mud for casing. Pulled out of hole. Rigged up to run 13-3/8" casing. Made space out and drift run with 13-5/8", 5000 psi 3 step wellhead assembly and landing joints - O.K. Ran 100 joints of 13-3/8", 68#, K-55 ASL casing. Circulated and reciprocated casing at 9.9 bpm.
6-23-85	4015'	Rigged up cementers and established circulation with BJ - tested lines to 3000 psi. Pumped 35 barrels sea water ahead. Released bottom plug. Mixed and pumped 490 sacks Class "G" cement with .68 gps A-3L followed with 1475 sacks Class "G" cement with .2 gps A-7L. Released top plug and displaced 10 barrels sea water with BJ. Rigged down BJ and hooked up rig pump. Displaced 3200 strokes (393 barrels) while reciprocating casing, landed casing with auto fill shoe at 3998' and auto fill collar at 3956'. Displaced additional 1150 strokes (142 barrels). Pressured up to 1800 psi - total displaced 545 barrels (theoretical displacement 592 barrels). Began mixing lead slurry at 0821 hrs., tail slurry at 0908 hrs. Started displacement at 1013 hrs. CIP at 1123 hrs. Good circulation throughout job, contaminated mud returns after 3900 strokes (480 barrels). Tested seal assembly to 1100 psi - O.K. Laid down landing joint. Washed wellhead and BOPE with sea water. Nippled down 20-3/4" 3000 psi BOP. Installed 13-5/8", 5000 psi BOP and wear bushing at 0600 hrs.
6-24-85	4025'/10'	Continued to nipple up 13-5/8", 5000 psi BOPE. Tested casing and blind rams to 250 psi low, 2415 psi high. Ran in hole and tagged cement at 3560'. Tested upper and lower rams, Kelly cocks, choke manifold, choke and kill lines, safety valve, inside BOPE and annular preventer to 250 psi low, 2415 psi high. Cleaned out cement and float collar from 3560' to 3984'. Tested casing to 2450 psi for 30 minutes - OK. Cleaned out cement and shoe from 3984' to 3998'. Cleaned out hole from 3998' to 4015'. Drilled from 4015' to 4025'. Tested formation to leakoff with 800 psi at surface, 71 pcf mud (104.4 pcf EMW). Pulled out of hole.
6-25-85	4943'/918'	Ran in hole and cleaned out fill from 4015' to 4025'. Drilled and surveyed from 4025' to 4516'. Made short trip. Drilled and surveyed from 4516' to 4847'. Circulated bottoms up and pulled out of hole. Ran in hole and drilled from 4847' to 4943'.
6-26-85	6357'/ 1414'	Drilled and surveyed from 4943' to 5469'. Made short trip. Drilled and surveyed from 5469' to 6056'. Made short trip. Drilled and surveyed from 6056' to 6357'.
6-27-85	7267'/910'	Drilled and surveyed 12-1/4" hole from 6357' to 6882'. Circulated bottoms up and pulled out of hole. Ran in hole and reamed from 6671' to 6882'. Drilled from 6882' to 7267'.
6-28-85	8254'/987'	Directionally drilled 12-1/4" hole from 7267' to 7582'. Made short trip back to 6662'. Directionally drilled 12-1/4" hole from 7582' to 8254'.
6-29-85	8924'/670'	Directionally drilled 12-1/4" hole from 8254' to 8495'. Tripped for new bit. Reamed hole from 8400' to 8495'. Directionally drilled from 8495' to 8924'.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
6-30-85	9465'/541'	Directionally drilled 12-1/4" hole from 8924' to 9016'. Made short trip back to 7938'. Had tight hole from 8760' to 9016'. Increased mud weight to 84 pcf and raised Soltex concentration. Directionally drilled 12-1/4" hole from 9016' to 9465'. Tripped to 13-3/8" shoe at 3998'. Ran in hole - no fill or tight hole. Circulated and conditioned mud for 9-5/8" casing. Pulled out of hole laying down 12-1/4" bottom hole assembly at report time.
7-1-85	9465'/0'	Continued to lay down bottom hole assembly. Pulled wear bushing. Changed top pipe rams to 9-5/8". Tested BOP doors to 2400 psi. Rigged up and ran 237 joints of 9-5/8", 47#, N-80, 8RD casing. Cemented casing through shoe with 720 sacks Class "G" cement with .46 gps A-3L, .15 gps R-7L and .2% D-6 followed by 600 sacks Class "G" cement with .7% D-28 and .2 gps D-31L and .2% D-6. Preceded cement with 20 barrels weighted mud sweep and displaced with 10 barrels water and 690 barrels mud (3.7% over theoretical). Reciprocated casing throughout cement job and landed casing with shoe at 9422' and float collar at 9337'. Bumped plug with 1800 psi. Displaced cement at 12 bpm. CIP 0335 hrs. Float equipment held - O.K. Backed out landing joint. Installed and tested seal assembly.
7-2-85	9465'/0'	Changed rams in BOP. (Power shut down for transformer change at Mandalay from 0700 hrs. - 1700 hrs.) Tested BOP. Tested casing to 2500 psi. Set wear bushing. Ran in hole and tagged float collar at 9336'. Cleaned out float collar and cement to shoe at 9422'. Cleaned out to 9465'.
7-3-85	9820'/353'	Drilled 8-1/2" hole to 9475'. Tested formation to leakoff at 136 pcf equivalent mud weight. Drilled to 9820'. Circulated bottoms up and pulled out of hole for bit change. Ran in hole.
7-4-85	10,232'/412'	Drilled to 10,051'. Circulated and checked for flow. Continued drilling to 10,232' and weighted up mud from 86 pcf to 97 pcf. Stuck drill string at 10,232' after making connection and surveying at 1900 hrs. Worked stuck drill pipe. Ran in hole with freepoint tools.
7-5-85	10,232'/0'	Continued to run in hole with free point tools and string shot - tools not working. Pulled out of hole and adjusted tension springs on free point tool. Ran in hole - tool would not go passed 5900'. Attempted to pump tool down - no good. Ran in hole with string shot. Fired shot and backed off drill pipe at 9373'. Pulled out of hole with wireline. Pulled out of hole. Recovered all drill pipe and 5 joints of Hevi-wate. Ran in hole with fishing assembly to 9373' and screwed into fish. Spotted 90 barrels mineral oil base mud, 40 barrels oil in annulus and 50 barrels in drill string. Jarred on fish while moving oil 1 bph.
7-6-85	10,232'/0'	Continued to jar on fish while moving oil 1 bph (drill pipe stuck for 59 hrs., oil in place for 31 hrs.).
7-7-85	10,232'/0'	Continued to jar on fish while moving oil 1 bph. Ran free point - indicated pipe stuck at 9-5/8" casing shoe. Jarred on fish and circulated bottoms up. Ran in hole and cut drill string at 9495'. Jarred fish free and circulated bottoms up. Pulled out of hole. Recovered 122' of Hevi-wate drill pipe. Ran in hole with 8-1/2" bit.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
7-8-85	10,232'/0'	Continued to run in hole to 9422'. Circulated and conditioned mud. Ran in hole to top of fish at 9501' (tight hole from 9422' to 9448'). Circulated bottoms up and checked well for flow. Pulled out of hole to 9345'. Slipped and cut drilling line. Continued to pull out of hole. Ran in hole to 9501' with open end 2-7/8" tubing on 5" drill pipe. Circulated bottoms up. Equalized kick-off plug as follows: pumped 10 barrels of sea water, 120 sacks Class "G" cement with .2 gps A-31L, .4 gps R-12L and .2% D-6, mixed at 17.5 ppg, 1 barrel of sea water and 155 barrels mud. CIP 1810 hrs. (estimated top of cement 9272'). Pulled out of hole to 8502' and circulated bottoms up. Continued to pull out of hole. Pulled wear bushing and tested BOPE. Running in hole with 8-1/2" bit.
7-9-85	9548'/126'	Continued to run in hole and tagged top of cement at 9255'. Cleaned out cement from 9255' to 9422'. Circulated and conditioned mud. Pulled out of hole. Ran in hole and directionally drilled from 9422' to 9548'. Circulated clean and pulled out of hole.
7-10-85	9831'/283'	Ran in hole and reamed from 9422' to 9548' and drilled to 9628'. Circulated bottoms up and pulled out of hole to 9422'. Replaced split Kelly hose. Pressure tested hose to 3000 psi. Ran in hole and drilled to 9831'.
7-11-85	10,157'/ 326'	Drilled to 9844' and circulated bottoms up. Pulled out of hole for bit and drilling assembly change. Ran in hole and drilled to 10,157'. Circulated and conditioned mud.
7-12-85	10,521'/ 364'	Continued to circulate bottoms up. Pulled out of hole for bit and drilling assembly change. Ran in hole and drilled to 10,521'. Circulated bottoms up. Pulled out of hole for bit change.
7-13-85	10,682'/ 161'	Continued to pull out of hole. Ran in hole. Established circulation and checked Teleco tool at 900' and 6000' - O.K. Pulled out of hole and laid down Teleco tool due to sticking problem. Ran in hole and drilled to 10,601'. Circulated and increased mud weight to 105 pcf. Drilled to 10,682'.
7-14-85	10,962'/ 280'	Wiped hole to 9-5/8" casing shoe. Ran in hole and drilled to 10,845'. Circulated bottoms up and dropped survey. Pulled out of hole for bit change. Ran in hole and reamed from 10,760' to 10,845' and drilled to 10,962'.
7-15-85	11,319'/ 357'	Drilled from 10,962' to 11,107'. Circulated bottoms up. Made short trip into 9-5/8" shoe. Ran in hole and drilled from 11,107' to 11,144' - drilling break at 11,144'. Circulated and checked for flow - negative. Drilled from 11,144' to 11,319'. Circulated bottoms up. Pulled out of hole for bit change.
7-16-85	11,500'/ 181'	Pulled wear bushing, set test plug and performed weekly BOP test. Changed out stand pipe bumper hose, retrieved test plug and reset wear bushing. Made up BHA. Ran in hole and reamed from 11,190 to 11,319. Drilled from 11,319 to 11,500'. Circulated bottoms up and wiped hole to shoe; tight hole from 10,250' to 10,130'.
7-17-85	11,500'/0'	Stuck pipe at 10,428' while making connection on wiper trip. Worked stuck pipe. Spotted 99 barrels of 105 pcf mineral oil mud (50 barrels in annulus, 49 barrels in drill string). Worked pipe and circulated mud 1 bph. Rigged up and ran free point and string shot - free point indicated pipe free at 9578'. Performed back off with string shot at 9405'. Pulled out of hole and rigged down loggers. Made up fishing assembly. Ran in hole with fishing tools.

* Denny Rau Approved Union's Request For NO Directional Survey !!

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
7-18-85	11,500'/0'	Ran in hole with fishing tools. Screwed into fish at 9405'. Worked stuck pipe.
7-19-85	11,500'/0'	Continued working stuck pipe. Began circulating oil base mud at 1600 hrs. Worked pipe while circulating.
7-20-85	11,500'/0'	Circulated oil base mud whle working stuck pipe. Rigged up Dialog and ran free point.
7-21-85	11,500'/0'	Continued to run freepoint - found pipe free at top of Hevy-wate drill pipe. Performed back-off at 9590' (leaving 1 joint of drill pipe above Hevy-wate drill pipe). Rigged down Dialog. Pulled out of hole and laid down fishing assembly. Ran in hole and reamed from 9422' to 9590'. Circulated bottoms up and pulled out of hole. Ran in hole with 680' of 2-7/8" tubing on 5" drill pipe. Balanced cement plug as follows: pumped 10 barrels of water ahead, mixed and pumped 80 sacks Class "G" cement with .2% D-6, .2 gps D-31L, .04 gps R-12L at 17.5 ppg. Displaced with 1 barrel of water and 158 barrels mud. CIP 0600 hrs.
7-22-85	9517'ETD	Pulled out of hole and laid down tubing tail. Ran in hole with bit #19. Tagged top of cement at 9417'. Cleaned out cement from 9417' to 9500'. Circulated and conditioned mud. Made short trip to 9295'. Checked for flow - negative. Slipped and cut drilling line. Ran in hole and cleaned out cement from 9500' to 9517'. Circulated bottoms up and pulled out of hole. Pulled wear bushing. Set test plug and tested annular preventer to 250 psi low, 3500 psi high. Tested upper and lower pipe rams, choke manifold and remaining surface equipment to 250 psi low, 4800 psi high. Pulled test plug and set wear bushing. Changed Kelly bushing, bearings and pins.
7-23-85	9613'/91'	Ran in hole and Dyna Drilled from 9517' (KOP) to 9613'. Circulated bottoms up. Pulled out of hole. Laid down Dyna Drill. Made up drilling assembly and ran in hole.
7-24-85	9952'/339'	Reamed Dyna-drill run from 9517' to 9613'. Drilled from 9613' to 9952'. Circulated bottoms up and pulled out of hole. Changed out bit and stabilizer. Ran in hole.
7-25-85	10,333'/ 381'	Ran in hole to 9952'. Drilled from 9952' to 10,197'. Circulated and wiped hole to 9422'. Ran in hole and drilled to 10,333'. Circulated bottoms up. Pulled out of hole to change bit.
7-26-85	10,665'/ 332'	Ran in hole and reamed from 10,295' to 10,333'. Drilled and surveyed from 10,333' to 10,512'. Circulated bottoms up. Made short trip to 9422'. Ran in hole and drilled to 10,665'. Circulated bottoms up and pulled out of hole to change bit.
7-27-85	11,040'/ 375'	Ran in hole and reamed from 10,625' to 10,665'. Drilled and surveyed from 10,665' to 10,910'. Circulated bottoms up. Made short trip to 9422'. Ran in hole and drilled to 11,040'.
7-28-85	11,318'/ 278'	Drilled and surveyed from 11,040' to 11,124'. Circulated bottoms up. Checked for flow - negative. Pulled out of hole for bit change. Made up bottom hole assembly. Ran in hole and reamed from 11,073' to 11,124'. Drilled from 11,124' to 11,306'. Circulated bottoms up. Made short trip to 9386'. Ran in hole and drilled to 11,318'.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
7-29-85	11,345'/ 27'	Drilled and surveyed from 11,318' to 11,345'. Circulated bottoms up. Made short trip to 9386'. Cut and slipped drilling line. Ran in hole to 11,345'. Circulated and conditioned mud for logging. Pulled out of hole. Rigged up loggers. Ran DIL-MSFL-GR from 11,331' to 9421'. Running FDC-CNL-GR.
7-30-85	11,345'TD	Ran FDC-CNL-GR from 11,351' to 9421'. Rigged down loggers. Pulled wear bushing and set test plug. Tested top and bottom rams, crossover spool, riser, kill and choke lines, choke manifold, upper and lower Kelly cocks, TIW valves, and inside safety valves to 250 psi low, 4800 psi high. Tested annular preventer to 250 psi low, 3500 psi high. Pulled test plug and set wear bushing. Ran in hole with underreamer. Scraped casing from 9370' to 9422'. Cut shoulder at 9432'. Underreamed 8-1/2" hole to 10" from 9432' to 10,000'.
7-31-85	11,345'TD	Continued underreaming 8-1/2" hole to 10" from 10,000' to 10,114'. Circulated bottoms up. Pulled out of hole to change underreamer. Ran in hole and underreamed from 10,114' to 10,558'.
8-1-85	11,345'TD	Continued underreaming 8-1/2" hole to 10" from 10,558' to 10,966'. Circulated bottoms up. Pulled out of hole to change underreamer. Ran in hole and underreamed from 10,966' to 11,287'.
8-2-85	11,345'TD	Continued to underream hole from 11,287' to 11,345'. Circulated bottoms up and pulled out of hole. Ran in hole with 8-1/2" bit and casing scraper to 9422'. Circulated clean and pulled out of hole. Rigged up and ran 62 joints of 7-5/8", 33.7# N-80 Hydril super flush joint casing with Brown multi-cone hydraulic liner hanger on 5" drill pipe. Circulated and conditioned mud while reciprocating casing.
8-3-85	11,345'TD 11,261'ETD	Continued to circulate and condition mud. Cemented 7-5/8" liner as follows: pumped 10 barrels of 105 pcf salt water base clay mud, 522 sacks Class "G" cement with .8% D-28, .2 gps D-31L and .2% D-6. Displaced cement with 10 barrels of 105 pcf salt water mud and 253 barrels of 108 pcf oil base mud. Reciprocated casing through 90% of displacement. Landed casing with float shoe at 11,344', landing collar at 11,262' and liner hanger at 8908'. Bumped plug with 2400 psi and set liner hanger - float equipment held. CIP 1045 hrs. 8-3-85. Released from liner and pulled out of hole to 8814'. Reverse circulated clean (slight cement contamination). Pulled out of hole. Ran in hole with 8-1/2" bit and casing scraper and tagged top of liner at 8908'. Circulated and conditioned mud. Pulled out of hole. Running in hole with 6-5/8" bit and casing scraper.
8-4-85	11,345'TD 11,261'ETD	Continued to run in hole and cleaned out cement stringers from 8908' to 8922', 9310' to 10,404' and 11,222' to 11,261'. Circulated and conditioned mud. Tested liner lap to 2500 psi. Circulated and conditioned mud. Pulled out of hole. Rigged up wireline for CBL log.
8-5-85	11,345'TD 11,261'ETD	Ran CBL-VDL-GR, PNL-GR logs. Laid down 3-1/2" drill pipe. Installed 3-1/2" upper and lower tubing rams. Pulled wear bushing. Tested BOPE. Installed wear bushing. Running in hole with 5" perforating guns on 3-1/2" PH-6 Hydril tubing.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
8-6-85	11,345'TD 11,261'ETD	Continued to run in hole with perforating assembly and tagged bottom at 11,259'. Pulled up and positioned guns. Established circulation. Displaced 3-1/2" tubing to 1100' with nitrogen. Set packer and closed unloader valve. Bled off nitrogen. Closed tubing rams and pressured annulus to 900 psi. Perforated 7-5/8" liner from 11,062' to 11,190' with twelve .8" hpf. Tubing pressure remained constant and there were no indications of fluid entry. Pulled packer loose and circulated bottoms up - had 120 pcf mud on bottoms up, no oil or formation fluid. Pulled out of hole. Made up DST assembly and tested recorder carriers and tester valve to 5000 psi. Running in hole with test strings for DST #1.
8-7-85	11,345'TD 11,261'ETD	Continued to run in hole with test string. Installed surface equipment and tested to 5000 psi. Attempted to set packer at 11,000' - no good. Pulled packer to 10,545' and continued trying to set packer. Discovered that Baker Retrievomatic packer was left hand set instead of right hand set. Ran in hole and set packer. DST #1 LP-N 11,062'-11,190' (127') Packer at 11,000', tail at 11,030' Cushion: 3950 psi N_2 IF: 6 Min. tubing pressure 4094 psi, fluid level rose 401' (1.9 bbls) ISI: 50 Min. 2nd F: 3 Hrs. 29 Min. Bled down N_2 - total fluid rise 536' (2.5 bbls) Fluid level rose 135' in first 5 Min. of second flow then stopped. Closed well in at surface with no pressure increase - indicating tool plugged. Bled N_2 to zero psi with trace of gas to surface at 2100 hrs. Closed tester valve. Filled tubing with 76 bbls mud, 78 bbls theoretical (2 bbl entry). Blew reversing sub at 2600 psi and reverse circulated clean - no formation fluid or hydrocarbons. Pulled packer loose and circulated bottoms up.
8-8-85	11,345'TD 11,261'ETD	Pulled out of hole and laid down tubing. Inspected Lynes test tools - found that over pressure piston on POTT valve had sheared, causing ball valve to close 5 minutes into second flow period (ball valve had also washed out). Changed upper and lower pipe rams to 2-7/8". Pulled wear bushing. Set test plug. Conducted BOPE test.
8-9-85	11,261'ETD	Completed BOP test. Made up 6-5/8" bit in 7-5/8" casing scraper and ran in hole and tagged fill at 11,078'. Cleaned out fill from 11,078' to 11,261' (183'Fill). Circulated bottoms up. Cleaned and dumped active system.
8-10-85	11,261'ETD	Continued cleaning oil base mud from active system. Took on 105 pcf $CaBr_2$ completion fluid. Pumped 50 barrels of High-viscosity bromide spacer and changed well over to $CaBr_2$. Circulated and conditioned $CaBr_2$ through mud cleaner using 200 Mesh screens.
8-11-85	11,261'ETD	Continued circulating and conditioning $CaBr_2$ fluid through mud cleaner with 200 Mesh screens. Swept hole with High-viscosity sweep. Transferred fluid from active system to Polymer and re-cleaned active mud pits. Shipped fluid back into active system. Mixed one drum of Dirt Magnet with 40 barrels $CaBr_2$ and circulated around to clean hole. Pulled out of hole with scraper. Picked up 8 joints of 3-1/2", N-80 CS Hydril stainless steel wire-wrapped liner with .02 Mesh screen. Picking up gravel pack tail at report time.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
8-12-85	11,345'TD 11,259'ETD	Positioned liner with Bullnose shoe at 11,260', .02" stainless wire-wrapped screen from 11,259' to 11,009', Baker port collar at 10,980', top of SC-1 packer at 10,971'. Established circulation at 2-1/2 bpm, 700 psi. Dropped setting ball and set packer with 1100 psi. Sheared ball seat with 3200 psi. Tested annulus to 1500 psi, released from hanger. Established circulation in backscuttling position at 2-1/2 bpm, 700 psi; in gravel pack position, 2-1/2 bpm, 900 psi. With tool in gravel pack position tested annulus to 1500 psi then pumped 10 barrels pre-pad at 2-1/4 bpm, 700 psi followed by 30 barrels of slurry mixed at 5 ppg with 16-30 Mesh Ottawa sand at 2-1/4 bpm. Displaced with 5 barrels after-pad and 52 barrels of $CaBr_2$. Sanded out at 2500 psi, 1/4 bpm. Reversed clean (40 sacks of gravel in place, 44 sacks theoretical, 91% of theoretical in place). Waited 2 hours. With tool in gravel pack position, established circulation at 2-1/2 bpm, 900 psi. With tool in backscuttle position, pumped 5 barrels of pre-pad, 2-1/4 bpm, 10 barrels slurry mixed at 2.5 ppg 16-30 Mesh Ottawa gravel. Displaced with 5 barrels of after-pad, 40 barrels with $CaBr_2$. Lowered tool into gravel pack position and displaced with total of 65 barrels of $CaBr_2$. Achieved sand-out at 2500 psi, 1/4 bpm. Reversed clean (50 sacks of gravel in place, 113% theoretical). Waited 1 hour. Pumped into pack at 1-1/4 bpm, 1600 psi. Closed port collar and tested to 2000 psi. Pulled out of hole and laid down gravel packing tools.
8-13-85	11,345'TD 11,259'ETD	Rigged up and ran 2-7/8", EUE, 8RD test string, pressure testing to 5000 psi. Landed tubing with shoe at 10,940'.
8-14-85	11,345'TD 11,259'ETD	Attempted to energize seals on tubing hanger without success. Pulled hanger to rig floor and re-dressed. Re-landed hanger, tightened anchor screws and tested hanger to 2000 psi. Rigged up test tree. Rigged up wireline. Ran in hole with XN plug and set in XN nipple at 10,929'. Pulled out of hole with wireline. Pressured tubing to 4500 psi to set packer. Attempted to test packer by pressuring annulus to 2500 psi - at 2100 psi tubing hanger anchor lugs sheared blowing hanger 20' up hole. Pulled hanger. Laid down 1 joint of bent tubing. Pressure tested tubing above flapper valve to 3200 psi - O.K. Opened flapper valve. Ran in hole and retreived XN plug. Reversed out sea water in tubing. Pulled out of hole with test string.
8-15-85	11,345'TD 11,259'ETD	Drained stack and changed out tubing hanger anchor screws. Conducted BOP test. Changed out hydraulic packer and ran in hole with test string.
8-16-85	11,345'TD 11,259'ETD	Landed test string with shoe at 10,940'. Tested tubing anchor to 2000 psi - OK. Displaced tubing with 62 barrels of sea water. Rigged up wireline and lubricator. Ran in hole and set "XN" plug in "XN" nipple at 10,929'. Pressured tubing to 4800 psi to set packer. Retrieved "XN" plug.
8-17-85	11,345'TD 11,259'ETD	Rigged down wireline. Placed well on test - flammable gas to surface at 1330 hours, oil to surface at 1805 hours.
8-18-85	11,345'TD 11,259'ETD	Continued to flow well. Shut well in at 1600 hours. Final rate 182/182, .1%, 109 MCF, 200 psi tubing and 1091 psi BHP. Monitored bottom hole pressure until 1800 hours. Rigged up wireline and tripped travel joint. Rigged down wireline. Closed flapper valve, set tubing back pressure valve, removed BOPE and skid rig.

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DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
8-19-85	11,345'TD 11,259'ETD	Installed production tree. Tested tree to 5000 psi. Turned well over to production. Released rig at 0830 hrs.
8-27-85	11,345'TD 11,259'ETD	Resumed operations 8-27-85. Rigged up coil tubing unit, nitrogen unit, and Hallibutron MV 222 stimulation vessel. Attempted to pressure test lines, gauges showed 1000 psi discrepancy. Tore out gauge line and found frac sand in bladder for hydraulic line. Pressure tested lines to swab valve to 5000 psi with water. Ran in hole with 1-1/4" coil tubing to 11,190' while circulating diesel at .5 bpm at 3730 psi. Circulated 650 gallones of HAS solvent with 2% Hyflo IV down 1-1/4" tubing. Shut-in well and pumped another 1350 barrels of solvent at .3 to .4 bpm and 3930 psi. Pumped 5 barrels 2% NH_4Cl water to clear flex hose, then displaced 1-1/4 " coil tubing with nitrogen at 200 SCF/min. 3800 psi. Temporarily released boat. Returned well temporarily to production at 0630 hrs. Brought well on slowly.
8-28-85	11,345'ETD	Flowed well for 16 hours to recover broken emulsion and 2000 gallons of HAS solvent with 2% Hyflo IV. Initial tests showed well was flowing 394 BPD and 103 MCF/D. Production declined to 199 BPD and 125 MCF/D by 2200 hrs. Over 100 barrels of fluid recovered (solvent and crude oil). Rigged up MV 222 to acid stimulate the well. Hydro-tested Halliburton lines downstream of coil tubing unit to 4000 psi; coil tubing at 10,872'. Spotted 650 gallons of MOD 202 acid while reciprocating coil tubing through perforated interval. Shut-in well and pumped 1290 gallons of MOD acid at 0.5 bpm and 3670 psi. Treating pressure decreased to 3520 psi with 1700 gallons of 6% - 1-1/2% HCl-HF pumped. Pumped 430 gallons 5% HCl at 0.5-0.6 bpm at 3600-3700 psi. Diverter stage eliminated due to insufficient rate increase. Pumped 1940 gallons MOD 202 acid at 0.5 bpm and 3670 psi. Pumped 1940 gallons of 6% - 1-1/2% HCl-HF at 0.5 bpm and 3670 psi. Pumped 430 gallons of 5% HCl at 0.5 bpm at 3670 psi. Commenced pumping third stage of MOD 202 acid, 0.5 bpm at 3670 psi. Cumulative pumped = 10,610 gallons (253 barrels).
8-29-85	11,345'ETD	Continued pumping acid treatment. Total acid pumped = 12,900 gallons (5805 gallons MOD 202, 5805 gallons of 6% - 1-1/2% HCl-HF, 1290 gallons 5% HCl). All stages contained the following additives: 0.2% HAI-75 corrosion inhibitor 0.5% LO-SURF 300 surfactant 0.5% AS-7 anti-sludging agent 20#/1000 gallons FERCHECK 50#/1000 gallons EDTA 2% Musol A 2% Cla-Sta FS Displaced acid with 2 barrels of 3% NH_4Cl water followed by nitrogen. Pulled out of hole with coil tubing. Rigged down BJ-Titan and Halliburton. Rigged up work vessel. Pumped 100 barrels of soda ash solution from polymer pits to tanks on boat. Returned well to production at 1800 hrs.

LEASE OCS P-0216 WELL NO. S-44 FIELD Santa Clara Unit

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS

20", 94#, X-52, DRIL-QUIP CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
726.23	723.73	2.50		B&W stab-in shoe
723.73	62.47	661.26	16	20", 94#, X-52 csg. w/Dril-Quip jt.
62.47	56.00	6.47		National 20-3/4", 3000 psi head w/pup jt.
56.00	-0-	56.00		Landed below zero

16", 75#, X-52, VP-3 CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
1583.00	1580.80	2.20		B&W orifice fill shoe
1580.80	1542.47	38.33	1	16", 75#, X-52, csg.
1542.47	1542.07	.40		16" nipple
1542.07	1539.62	2.45		B&W orifice fill collar
1539.62	413.77	1125.85	29	16", 75#, X-52, csg.
413.77	376.87	36.90	1	16", 75#, X-52 VP-3 Butt XO jt.
376.87	367.82	9.05		16" cement adapter
367.82	-0-	367.82		Below zero

13-3/8", 68#, K-55, ASL CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
3998.27	3996.07	2.20		Howco auto fill shoe
3996.07	3957.69	38.38	1	13-3/8", 68#, K-55 ASL casing
3957.69	3955.79	1.90		Howco auto fill float collar
3955.79	58.72	3897.07	99	13-3/8, 68#, K-55 Armco NS csg.
58.72	52.00	6.72		National 13-5/8" 5M 3 step upper wellhead
52.00	-0-	52.00		Landed below zero

9-5/8", 47#, N-80, LT&C, 8RD CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
9422.05	9419.95	2.10		Howco auto-fill shoe
9419.95	9339.18	80.77	2	9-5/8", 47#, N-80, 8RD LT&C csg.
9339.18	9337.43	1.75		Howco auto-fill float collar
9337.43	96.50	9240.93	234	9-5/8", 47#, N-80, 8RD LT&C csg.
96.50	57.55	38.95	1	8RD, Pin X butt box XO joint
57.55	53.00	4.55		csg. hanger and pup
53.00	-0-	53.00		Landed below zero

7-5/8", 33.7#, N-80 HYDRIL FLUSH JOINT NS CASING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
11,344.00	11,342.15	1.85		Brown V-set float shoe
11,342.15	11,303.18	38.97	1	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
11,303.18	11,302.23	.95		Brown ball catcher sub baffle
11,302.23	11,262.73	39.50	1	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
11,262.73	11,261.77	.96		Brown Type 2 landing collar
11,261.77	8921.79	2339.98	60	7-5/8", 33.7#, N-80 Hydril flush jt. csg.
8921.79	8908.90	12.89		Brown HMC liner hanger
8908.90	-0-			Hung below K.B.

OCS P-0216, S-44 Santa Clara Unit

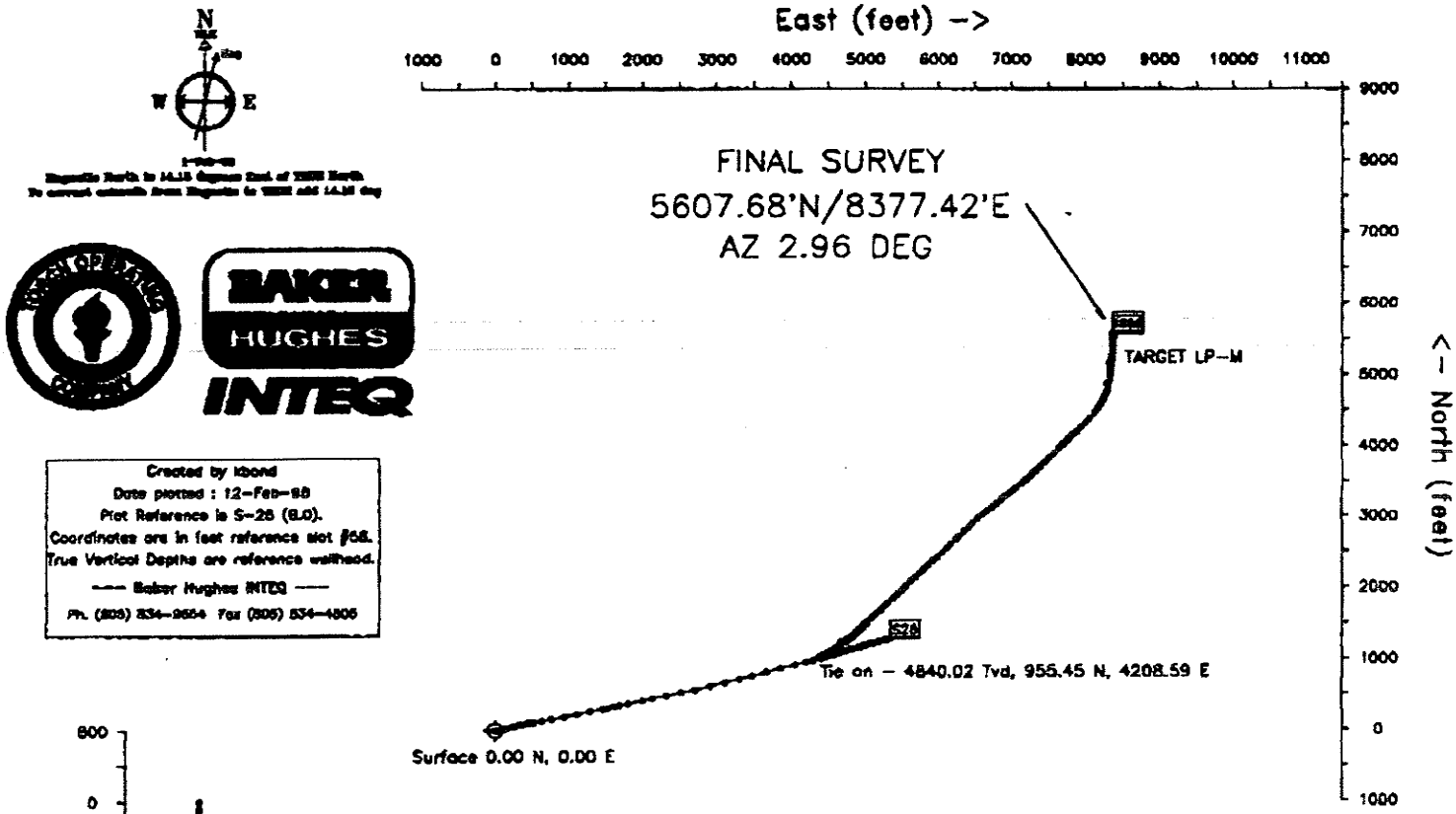
3-1/2", 9.3, N-80 C.S. HYDRIL LINER DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
11,260.00	11,009.04	250.96	8	3-1/2", N-80, 9.3# SSWW
11,009.04	10,983.41	25.63		Lower extension
10,983.41	10,981.92	1.49		Seal bore
10,981.92	10,982.27	1.65		Reciprocating port collar
10,980.27	10,974.77	5.50		Upper extension
10,974.77	10,971.73	3.04		Baker Model SC-1 packer

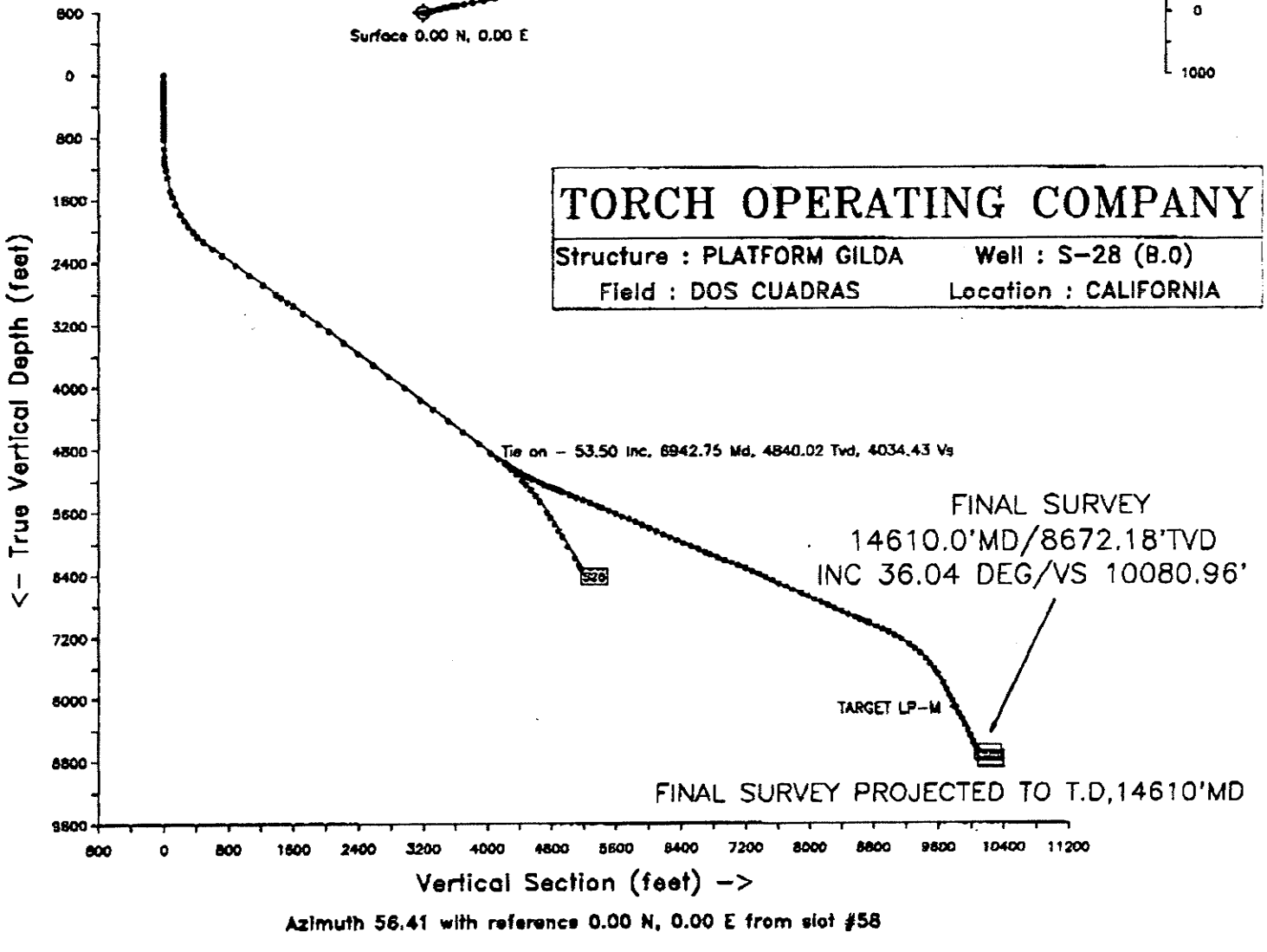
2-7/8", 6.5#, N-80, EUE, 8-RD TUBING DETAIL

FROM	TO	LENGTH	JTS.	DESCRIPTION
10,938.69	10,938.29	.40		45° mule shoe collar
10,938.29	10,928.14	10.15		2-7/8" 6.5#, N-80 pup jt.
10,928.14	10,926.87	1.27		Otis XN nipple
10,926.87	10,896.61	30.26	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,896.61	10,894.50	2.11		2-7/8", 6.5#, N-80 pup jt.
10,894.50	10,890.23	4.27		Otis 7-5/8" R.H. packer
10,890.23	10,885.99	4.24		2-7/8", 6.5#, N-80 tbg. pup
10,885.99	10,854.85	31.14	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,854.85	10,851.67	3.18		Otis XA sliding sleeve
10,851.67	10,820.54	31.13	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,820.54	10,818.42	2.12		2-7/8", 6.5#, N-80 tbg. pup
10,818.42	10,804.90	13.52		Otis wireline release travel jt.
10,804.90	10,800.71	4.19		2-7/8", 6.5#, N-80 tbg. pup
10,800.71	10,769.66	31.05	1	2-7/8", 6.5#, N-80 tbg. 8RD EUE
10,769.66	10,764.29	5.37		Welded tubing pup
10,764.29	10,743.69	20.60		Pruett pressure chamber
10,743.69	10,737.96	5.73		Welded tubing pup
10,737.96	519.93	10,218.03	330	2-7/8", 6.5#, N-80 8RD EUE tbg.
519.93	517.79	2.14		2-7/8", 6.5#, N-80 tbg. pup
517.79	506.09	11.70		Otis "SCSSV" safety valve
506.09	501.88	4.21		2-7/8", 6.5#, N-80 tbg. pup
501.88	73.55	428.33	14	2-7/8", 6.5#, N-80 8RD EUE tbg.
73.55	63.55	10.00		2-7/8", 6.5#, N-80 tbg. pup
63.55	53.55	10.00		2-7/8", 6.5#, N-80 tbg. pup
53.55	52.90	.65		Fatigue nipple
52.90	52.00	.90		National tubing hanger
52.00	-0-	52.00		Landed below zero

September 18, 1985



Created by kbond
Date plotted : 12-Feb-99
Plot Reference is S-28 (8.0).
Coordinates are in feet reference slot #58.
True Vertical Depths are reference wellhead.
—— Baker Hughes INTEQ ——
Ph. (805) 834-9654 Fax (805) 834-4806



TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : S-28 (8.0)
Field : DOS CUADRAS Location : CALIFORNIA

Azimuth 56.41 with reference 0.00 N, 0.00 E from slot #58

TORCH OPERATING COMPANY
PLATFORM GILDA

S-28 ST #1
slot #58
DOS CUADRAS
CALIFORNIA

Santa Clara

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : S-28 SIDETRACK #1 MWD
Our ref : svy11113
License :

Date printed : 17-Feb-98
Date created : 29-Dec-97
Last revised : 12-Feb-98

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.763,w119 25 6.300
Slot Grid coordinates are N 748020.835, E 1041778.491
Slot local coordinates are 33.20 N 44.50 E

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Should reference Grid North.
Correct directional to
Grid North.

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 1
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	1041778.49	748020.83
75.00	0.17	108.42	75.00	0.04S	0.11E	0.23	0.07	1041778.60	748020.80
100.00	0.25	31.95	100.00	0.00S	0.17E	1.07	0.14	1041778.66	748020.83
125.00	0.25	11.97	125.00	0.10N	0.21E	0.35	0.23	1041778.70	748020.93
150.00	0.25	16.63	150.00	0.20N	0.24E	0.08	0.31	1041778.73	748021.03
175.00	0.25	326.65	175.00	0.30N	0.22E	0.84	0.35	1041778.72	748021.13
200.00	0.25	341.68	200.00	0.40N	0.18E	0.26	0.37	1041778.68	748021.23
225.00	0.50	358.72	225.00	0.56N	0.16E	1.08	0.44	1041778.66	748021.39
250.00	0.75	8.73	250.00	0.83N	0.18E	1.09	0.61	1041778.69	748021.66
275.00	1.00	18.97	274.99	1.20N	0.27E	1.18	0.89	1041778.80	748022.03
300.00	1.25	26.70	299.99	1.65N	0.47E	1.17	1.30	1041779.01	748022.47
325.00	1.25	19.92	324.98	2.15N	0.68E	0.59	1.76	1041779.24	748022.96
350.00	1.33	23.15	349.98	2.67N	0.89E	0.43	2.22	1041779.46	748023.48
375.00	1.25	32.88	374.97	3.17N	1.15E	0.93	2.71	1041779.74	748023.97
400.00	1.33	32.73	399.96	3.64N	1.46E	0.32	3.23	1041780.06	748024.43
425.00	1.17	38.97	424.96	4.08N	1.77E	0.84	3.74	1041780.39	748024.86
450.00	1.25	58.18	449.95	4.43N	2.17E	1.65	4.25	1041780.79	748025.19
475.00	1.25	69.42	474.95	4.67N	2.65E	0.98	4.79	1041781.29	748025.42
500.00	1.33	82.13	499.94	4.80N	3.20E	1.19	5.32	1041781.83	748025.54
525.00	1.25	86.82	524.93	4.86N	3.76E	0.53	5.82	1041782.39	748025.57
550.00	1.25	88.98	549.93	4.88N	4.30E	0.19	6.28	1041782.94	748025.58
575.00	1.08	93.67	574.92	4.87N	4.81E	0.78	6.70	1041783.45	748025.55
600.00	1.08	100.33	599.92	4.81N	5.28E	0.50	7.05	1041783.91	748025.48
625.00	1.17	105.52	624.91	4.70N	5.75E	0.54	7.39	1041784.38	748025.36
650.00	1.08	100.07	649.91	4.59N	6.23E	0.56	7.73	1041784.86	748025.23
675.00	1.17	99.75	674.90	4.50N	6.71E	0.36	8.09	1041785.34	748025.13
700.00	1.17	103.93	699.90	4.40N	7.21E	0.34	8.44	1041785.84	748025.01
725.00	1.00	97.60	724.89	4.31N	7.68E	0.83	8.78	1041786.30	748024.91
750.00	0.83	110.78	749.89	4.22N	8.06E	1.08	9.05	1041786.68	748024.80
775.00	0.83	97.90	774.89	4.13N	8.41E	0.74	9.29	1041787.02	748024.70
800.00	0.67	103.03	799.89	4.07N	8.73E	0.69	9.53	1041787.34	748024.64
825.00	0.50	140.75	824.89	3.95N	8.94E	1.64	9.64	1041787.55	748024.51
943.00	1.00	121.43	942.88	3.02N	10.15E	0.47	10.12	1041788.73	748023.54
1035.00	2.00	95.00	1034.84	2.46N	12.43E	1.29	11.72	1041790.99	748022.91
1096.00	4.00	79.00	1095.76	2.77N	15.58E	3.52	14.51	1041794.15	748023.13
1155.00	5.50	76.18	1154.55	3.84N	20.35E	2.57	19.07	1041798.95	748024.05
1215.00	7.50	82.32	1214.17	5.05N	27.02E	3.52	25.30	1041805.66	748025.06
1308.00	11.00	77.93	1305.94	7.72N	41.72E	3.84	39.02	1041820.43	748027.28
1487.00	18.75	76.18	1478.81	18.18N	86.42E	4.34	82.05	1041865.43	748036.38
1579.00	22.00	77.95	1565.05	25.31N	117.64E	3.60	112.00	1041896.86	748042.56
1679.00	25.75	77.68	1656.47	33.86N	157.20E	3.75	149.68	1041936.65	748049.90
1814.00	29.60	76.70	1776.01	47.79N	218.32E	2.87	208.30	1041998.17	748061.97
1907.00	33.90	75.30	1855.07	59.66N	265.78E	4.69	254.40	1042045.98	748072.39
2001.00	38.70	78.50	1930.81	72.18N	319.97E	5.49	306.47	1042100.52	748083.26
2094.00	43.10	78.80	2001.09	84.15N	379.65E	4.74	362.81	1042160.55	748093.42
2183.00	47.50	79.20	2063.68	96.21N	441.74E	4.95	421.20	1042222.98	748103.58
2281.00	52.20	79.20	2126.85	110.24N	515.30E	4.80	490.24	1042296.93	748115.38
2440.00	55.30	78.80	2220.86	134.72N	641.15E	1.96	608.62	1042423.48	748136.01
2595.00	55.50	78.80	2308.87	159.50N	766.30E	0.13	726.59	1042549.34	748156.98
2812.00	55.60	79.20	2431.63	193.64N	941.96E	0.16	891.80	1042725.96	748185.77

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10081.03 on azimuth 56.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 2
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
3030.00	55.80	78.50	2554.48	228.47N	1118.65E	0.28	1058.25	1042903.64	748215.22
3250.00	55.80	78.80	2678.14	264.28N	1297.05E	0.11	1226.67	1043083.05	748245.59
3464.00	56.00	78.50	2798.11	299.15N	1470.79E	0.15	1390.69	1043257.78	748275.17
3546.00	56.00	78.10	2843.97	312.94N	1537.35E	0.40	1453.77	1043324.74	748286.93
3650.00	56.10	77.10	2902.05	331.46N	1621.61E	0.80	1534.21	1043409.53	748302.89
3745.00	55.50	78.10	2955.45	348.34N	1698.35E	1.08	1607.47	1043486.75	748317.42
3899.00	55.30	78.10	3042.89	374.47N	1822.39E	0.13	1725.26	1043611.53	748339.78
4147.00	54.20	78.10	3186.02	416.24N	2020.56E	0.44	1913.44	1043810.89	748375.51
4301.00	54.10	78.10	3276.22	441.98N	2142.70E	0.06	2029.43	1043933.77	748397.52
4550.00	54.00	77.80	3422.40	484.06N	2339.83E	0.11	2216.92	1044132.10	748433.60
4798.00	53.80	77.40	3568.52	527.08N	2535.54E	0.15	2403.76	1044329.04	748470.66
5046.00	53.70	76.70	3715.17	571.90N	2730.45E	0.23	2590.91	1044525.23	748509.54
5298.00	53.70	76.40	3864.35	619.14N	2927.97E	0.10	2781.59	1044724.11	748550.76
5547.00	53.80	75.70	4011.59	667.55N	3122.85E	0.23	2970.71	1044920.38	748593.23
5794.00	53.90	75.70	4157.30	716.81N	3316.12E	0.04	3158.96	1045115.07	748636.60
6012.00	53.80	75.30	4285.90	760.89N	3486.54E	0.16	3325.31	1045286.76	748675.48
6260.00	53.60	75.30	4432.71	811.61N	3679.87E	0.08	3514.41	1045481.56	748720.30
6507.00	53.20	75.00	4579.98	862.43N	3871.54E	0.19	3702.20	1045674.70	748765.27
6760.00	53.40	74.60	4731.18	915.61N	4067.29E	0.15	3894.68	1045871.99	748812.49
6942.00	53.50	73.91	4839.57	955.28N	4208.01E	0.31	4033.85	1046013.85	748847.87
7172.00	55.20	64.10	4973.84	1022.26N	4382.07E	3.54	4215.91	1046189.88	748909.53
7235.00	57.20	62.30	5008.88	1045.87N	4428.79E	3.96	4267.89	1046237.30	748931.72
7298.00	58.40	63.00	5042.45	1070.36N	4476.14E	2.12	4320.88	1046285.38	748954.76
7329.00	59.10	62.00	5058.54	1082.60N	4499.65E	3.56	4347.23	1046309.24	748966.28
7390.00	60.60	59.90	5089.18	1108.22N	4545.75E	3.86	4399.81	1046356.11	748990.48
7454.00	60.70	59.50	5120.54	1136.36N	4593.92E	0.57	4455.50	1046405.11	749017.15
7514.00	62.00	58.50	5149.31	1163.48N	4639.05E	2.61	4508.10	1046451.04	749042.89
7578.00	62.80	57.10	5178.96	1193.71N	4687.04E	2.31	4564.80	1046499.93	749071.64
7671.00	65.70	51.80	5219.39	1242.42N	4755.12E	6.00	4648.46	1046569.47	749118.27
7737.00	66.50	50.40	5246.13	1280.31N	4802.08E	2.29	4708.54	1046617.56	749154.72
7799.00	67.30	48.60	5270.45	1317.35N	4845.44E	2.97	4765.15	1046662.03	749190.42
7862.00	67.20	47.90	5294.82	1356.03N	4888.78E	1.04	4822.66	1046706.53	749227.77
7924.00	68.50	46.90	5318.19	1394.90N	4931.05E	2.57	4879.37	1046749.96	749265.34
7988.00	68.70	44.70	5341.55	1436.44N	4973.76E	3.22	4937.94	1046793.92	749305.57
8080.00	69.00	44.00	5374.74	1497.80N	5033.74E	0.78	5021.85	1046855.74	749365.08
8171.00	69.00	44.00	5407.35	1558.91N	5092.76E	0.00	5104.82	1046916.59	749424.37
8263.00	68.20	43.30	5440.92	1620.89N	5151.88E	1.12	5188.36	1046977.57	749484.53
8357.00	67.50	45.40	5476.37	1683.14N	5212.73E	2.20	5273.49	1047040.30	749544.91
8450.00	67.40	46.40	5512.03	1742.91N	5274.41E	1.00	5357.94	1047103.77	749602.78
8517.00	67.30	46.50	5537.83	1785.51N	5319.23E	0.20	5418.84	1047149.86	749644.01
8610.00	66.80	46.90	5574.10	1844.25N	5381.55E	0.67	5503.25	1047213.94	749700.82
8704.00	66.20	46.50	5611.58	1903.37N	5444.29E	0.75	5588.22	1047278.45	749758.01
8797.00	67.10	46.20	5648.44	1962.30N	5506.07E	1.01	5672.29	1047342.00	749815.05
8891.00	66.40	45.80	5685.54	2022.30N	5568.20E	0.84	5757.23	1047405.92	749873.13
8983.00	65.40	45.80	5723.11	2080.84N	5628.40E	1.09	5839.78	1047467.88	749929.82
9080.00	65.10	46.20	5763.72	2142.04N	5691.77E	0.49	5926.42	1047533.08	749989.06
9169.00	65.20	46.50	5801.12	2197.78N	5750.20E	0.33	6005.93	1047593.19	750043.01
9265.00	64.00	46.90	5842.30	2257.26N	5813.31E	1.31	6091.41	1047658.08	750100.54
9359.00	63.50	46.50	5883.87	2315.07N	5874.67E	0.65	6174.51	1047721.17	750156.47
9453.00	66.50	45.80	5923.60	2374.09N	5936.09E	3.26	6258.33	1047784.36	750213.60

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10081.03 on azimuth 56.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 3
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
9548.00	67.10	45.40	5961.02	2435.18N	5998.48E	0.74	6344.10	1047848.58	750272.77
9645.00	67.50	45.40	5998.45	2498.02N	6062.20E	0.41	6431.93	1047914.18	750333.65
9739.00	67.40	45.10	6034.50	2559.13N	6123.85E	0.31	6517.11	1047977.67	750392.87
9833.00	67.60	45.80	6070.47	2620.06N	6185.74E	0.72	6602.37	1048041.38	750451.88
9926.00	67.50	46.20	6105.99	2679.76N	6247.57E	0.41	6686.90	1048105.00	750509.69
9998.00	66.70	46.20	6134.01	2725.67N	6295.44E	1.11	6752.18	1048154.24	750554.12
10095.00	67.30	46.50	6171.91	2787.30N	6360.04E	0.68	6840.09	1048220.70	750613.77
10191.00	67.80	46.50	6208.57	2848.37N	6424.40E	0.52	6927.49	1048286.89	750672.86
10285.00	68.30	47.90	6243.71	2907.61N	6488.37E	1.48	7013.55	1048352.63	750730.13
10378.00	67.30	48.60	6278.84	2964.95N	6552.61E	1.28	7098.78	1048418.59	750785.49
10473.00	66.60	49.30	6316.04	3022.35N	6618.53E	1.00	7185.46	1048486.23	750840.87
10568.00	65.80	50.00	6354.38	3078.63N	6684.77E	1.08	7271.77	1048554.15	750895.11
10661.00	65.40	50.70	6392.80	3132.67N	6749.98E	0.81	7355.99	1048620.98	750947.15
10755.00	65.40	51.80	6431.93	3186.17N	6816.63E	1.06	7441.11	1048689.23	750998.60
10848.00	64.00	51.80	6471.67	3238.16N	6882.71E	1.51	7524.92	1048756.85	751048.57
10941.00	65.00	50.40	6511.71	3290.88N	6948.03E	1.73	7608.50	1048823.75	751099.27
11034.00	64.90	50.00	6551.09	3344.81N	7012.76E	0.40	7692.25	1048890.09	751151.22
11127.00	65.60	49.00	6590.02	3399.66N	7076.98E	1.23	7776.09	1048955.95	751204.09
11250.00	64.20	47.60	6642.20	3473.74N	7160.14E	1.54	7886.36	1049041.34	751275.62
11343.00	65.50	46.20	6681.72	3531.26N	7221.60E	1.95	7969.38	1049104.52	751331.25
11437.00	66.10	45.40	6720.26	3591.04N	7283.07E	1.00	8053.65	1049167.78	751389.14
11528.00	66.10	45.80	6757.13	3649.25N	7342.51E	0.40	8135.37	1049228.96	751445.52
11624.00	66.50	44.70	6795.71	3711.13N	7404.93E	1.13	8221.61	1049293.25	751505.48
11721.00	67.10	44.00	6833.93	3774.89N	7467.26E	0.91	8308.80	1049357.48	751567.32
11817.00	66.60	43.70	6871.67	3838.54N	7528.41E	0.59	8394.96	1049420.54	751629.09
11910.00	65.40	43.70	6909.49	3899.97N	7587.10E	1.29	8477.83	1049481.08	751688.70
12005.00	65.70	44.40	6948.81	3962.12N	7647.23E	0.74	8562.31	1049543.07	751749.01
12076.00	66.10	44.70	6977.81	4008.31N	7692.70E	0.68	8625.74	1049589.93	751793.79
12102.00	66.40	44.70	6988.28	4025.22N	7709.44E	1.15	8649.04	1049607.17	751810.19
12165.00	66.80	44.70	7013.30	4066.32N	7750.11E	0.63	8705.65	1049649.07	751850.04
12210.00	67.10	44.70	7030.92	4095.75N	7779.23E	0.67	8746.20	1049679.08	751878.57
12305.00	66.60	44.70	7068.26	4157.84N	7840.67E	0.53	8831.73	1049742.39	751938.77
12391.00	65.70	44.40	7103.04	4213.89N	7895.85E	1.09	8908.71	1049799.25	751993.12
12478.00	64.00	43.70	7140.01	4270.49N	7950.61E	2.09	8985.63	1049855.70	752048.03
12568.00	60.90	43.30	7181.63	4328.36N	8005.53E	3.47	9063.40	1049912.36	752104.21
12662.00	57.20	41.60	7229.97	4387.82N	8059.95E	4.23	9141.62	1049968.56	752161.99
12786.00	54.00	36.70	7300.05	4467.06N	8124.57E	4.16	9239.29	1050035.56	752239.24
12882.00	51.40	34.20	7358.22	4529.24N	8168.87E	3.41	9310.60	1050081.74	752300.04
12978.00	47.10	32.40	7420.88	4589.98N	8208.82E	4.70	9377.48	1050123.52	752359.55
13069.00	44.50	28.90	7484.32	4646.06N	8242.10E	3.97	9436.24	1050158.49	752414.60
13162.00	42.10	25.10	7552.01	4702.86N	8271.09E	3.81	9491.80	1050189.19	752470.48
13253.00	40.10	19.80	7620.60	4758.07N	8293.97E	4.41	9541.40	1050213.74	752524.98
13335.00	39.40	15.90	7683.66	4807.95N	8310.04E	3.16	9582.40	1050231.32	752574.36
13483.00	41.50	13.10	7796.29	4900.90N	8334.03E	1.88	9653.80	1050258.12	752666.54
13607.00	38.60	3.70	7891.28	4979.60N	8345.85E	5.40	9707.19	1050272.33	752744.85
13701.00	38.00	1.50	7965.06	5037.79N	8348.50E	1.58	9741.59	1050276.75	752802.94
13790.00	37.80	1.20	8035.28	5092.45N	8349.79E	0.31	9772.90	1050279.70	752857.54
13885.00	40.10	2.80	8109.16	5152.13N	8351.89E	2.64	9807.67	1050283.62	752917.12
13990.00	41.50	4.20	8188.65	5220.60N	8356.09E	1.59	9849.05	1050289.89	752985.44
14080.00	41.40	4.80	8256.10	5279.99N	8360.77E	0.46	9885.80	1050296.37	753044.67

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10081.03 on azimuth 56.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK.S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 4
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
14179.00	38.90	2.00	8331.78	5343.69N	8364.59E	3.11	9924.23	1050302.13	753108.23
14273.00	38.40	2.70	8405.19	5402.35N	8367.00E	0.71	9958.69	1050306.32	753166.79
14367.00	38.20	3.10	8478.96	5460.54N	8369.95E	0.34	9993.33	1050311.03	753224.86
14458.00	37.80	2.80	8550.67	5516.49N	8372.83E	0.48	10026.69	1050315.61	753280.70
14553.00	36.70	2.90	8626.28	5573.92N	8375.69E	1.16	10060.85	1050320.22	753338.03
14610.00	36.04	2.96	8672.18	5607.68N	8377.42E	1.16	10080.96	1050322.97	753371.72

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10081.03 on azimuth 56.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 5
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
6942.00	4839.57	955.28N	4208.01E	TIE-ON
14610.00	8672.18	5607.68N	8377.42E	FINAL SURVEY PROJECTED TO T.D.14610'MD

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
TARGET LP-M	1050262.000,752935.000,999.00	8107.00	5169.34N	8329.75E	13-Oct-97
T.D.	1050315.000,753324.000,999.00	8592.00	5559.74N	8370.90E	13-Oct-97

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WEEKLY ACTIVITY REPORT
Period: 03/16/98 to 03/22/98

Week No. 15

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	**03/21/98**

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: n/a
15. Last BOP Test Date: 3/17/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RD surface equip. Install BPV and ND BOPE stack & riser. NU xmas tree, tested void to 5000 psi for 1/2 hour, set stinger plug in tree, tested tree to 5000 psi for 1/2 hour. RU Dowell tbg. **Test BOPE 250# low and 5000# high on 3/17/98.** RIH w/1 1/4" coiled tbg, jet @ 150 scf to 500'. Cont. RIH to 1000'. Jet well, rec. total of 6.6 bbls (oil-gas/water). Jet well @ 1500', 1800' & 2000'. Well started to flow at 0100 hrs. Flow well back until 0400 hrs. Attempt to keep rate @ 100 bpd. Jet and flow 58 bbls back in 9 hours (avg. 6.4 bph, 155 bpd). POOH w/coiled tbg. Monitor well. All seems o.k. **Release rig from S-28 @ 2400 hrs on 3/21/98.**

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT
Period: 03/09/98 to 03/15/98

Week No. 14

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD:	14,610		
14. Mud Weight:	14.1		
15. Last BOP Test Date:	3/1/98	Test Pressure (psi):	250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA):	COM		

17 Summary of Operations:

RIH w/GP assembly. Run all of 2 3/8" tbg and 20 stds of 3 1/2" tbg. Rabbit tbg in hole to 13971'. Drop ball and set pkr @ 13805'. Pressure test all - o.k. Pump Dowell's Stim-Pac for the "M" interval. Monitor tbg & csg press. Underbalance between tbg & csg. Well appears to be static. Rev. circ. and shut pump down. POOH w/tbg & csg. PU and run production string - 31 jts of 2 3/8" 4.7# N-80 EUE tbg, 12288.68" Halliburton 2 7/8" LX A flapper SSSV serial #171-LL-5, 20.01'. Test valve to 5000 psi for 1/2 hour - o.k. Displace 13 ppg Bromide w/6% KCL water on annulus down to 12281'. Left 30 bbls Bromide in annulus. Cont. to displace 6% KCL water w/13# Bromide on backside. Landed hanger, backed out landing jts. PU new w/pup jts. Snapped out of SC-1 pkr. Displace 13# Bromide w/6% KCL water + inhibitor & oxygen scavenger on backside to 12281'. Left 30 bbls on backside. Landed hanger in well head. Tested stinger seals and tbg to 1000 psi - o.k.
Received verbal approval for variance on BOPE test until 1200 hrs on 3/15/98 provided that Xmas tree has not been installed by Mr. Dave Gebaur w/MMS. Variance granted @ 3/14/98 2030 hrs. Received verbal approval for BOPE extension till bromide displacement w/KCL water has been completed, tbg hanger landed, ND, & tree installed f/Rishi Tyagi w/MMS @ 2300 hrs on 3/14/98.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT
Period: 03/02/98 to 03/08/98

Week #13

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD:	14,610		
14. Mud Weight:	14.1		
15. Last BOP Test Date:	3/1/98	Test Pressure (psi):	250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA):	COM		

17 Summary of Operations:

Pump 40 bbls Hi VIS pill and follow w/13.3# caustic bromide water. Pumped 441 bbls, open annular and cont. to displace seawater w/13.3# cal. bro. water @ 4.4 bpm (750#). Circ. out gel pill and check NTU's on bro. water. Had 200+ after 66 additional bbls. Pump NTU 15, and remained 15 to 16. Cont. to circ. RIH and test **BOPE per MMS regs on 3/1/98.** POOH. Prep and RIH w/Schlumberger logging tools. RIH w/ATC & CCL to 11500' - tool failed. POOH. RIH w/Gamma Ray and CCL loggers f/14370'-14000'. Tied in RA tag w/Gamma Ray and made a 6' correction to 14424'. Re-run log to verify depth. POOH. MU Howco 3 3/8" perf gun w/12 spf. RIH w/perf gun and to 14424'. Tag sump pkr. Space out **w/btm shot @ 14409' and top shot @ 14349'.** Champ pkr and set @ 12805'. Guns fired. POOH. Lay out Baker 20/40 gravel pack screen, SC-1 pckr and MU assembly. RIH w/GP assembly to 12800' and prep for frac job. Pump frac pack, displaced w/70 bbls flush, got sand out & pressure up. Bleed down and circ. Flush clean. POOH w/5 stds. Took 22 bbls to fill hole. Monitor well and POOH. PU Howco perf gun assembly and TIH. Set pkr plug in Baker SC-1 pkr @ 13973'. Set 7" pkr @ 12733'. Pressure up and **fire guns f/13896' to 13956' w/12 spf.** Monitor well and POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT
Period: 02/23/98 to 03/01/98

Week No. 12

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RIH w/4.250" bit to top of liner @ 12846' and cont. in hole to 14525'. Circ. mud out of 5" liner. Pump 22 bbls Gel Sweep until fluid clean. POOH. RIH w/5", 7" & 9.625" csg scrapers & brushing tools to 14518'. M/P and pump 50 bbls caustic pill - circ. POOH. TIH and test tbg @ 7500 psi. **Note: Received verbal approval from Ralph Vasqez @ 0830 hrs. on 2/28/98 to extend BOP test until coming out of hole after changing over fluid.** Break circ. and wash to btm @ 14525' no fill. Start circ. w/FSW following with 75 bbls HI VIS Gel pill, 5 gpb Safe VIS E, 100 bbls of caustic pill mixed w/2 ppb caustic, follow w/75 bbls of FSW, follow w/100 bbls caustic pill mixed w/2 ppb of caustic and 3 drums of rinse aid, follow w/ 75 bbls of FSW, follow s/200 bbl caustic pill mixed w/2 ppb of caustic. Circ. until clean NTU's 36.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

COPY TO REGION

WEEKLY ACTIVITY REPORT
Period: 02/16/98 to 02/22/98

Week No. 11

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/06/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Pressure test casing @ 2000 psi - o.k. Pressure test down tbg. to test 7" & 5" liner LAP @ 2000 psi - would blead down to 1800 psi in 10 min. Unseat pkr and POOH. CO pack off insert f/12875' to 13105'. Wash & rotate f/13105' to 14525'. Circ. hole clean & pump pill. POOH. RIH w/5.161" flutted mill and tag @ 12857'. Polish tie back sleeve & CBU. POOH. RIH w/tie back pkr. Break circ. & set tie back in place. PT seals @ 1000 psi. Set pkr TOP @ 12846'. Close rams & PT tie back to 2000 psi for 30 min. CBU & pump pill. POOH. Run Schlumberger USIT-CBT-GR-CCL from 14520' to 13400'. POOH. **Note: Notified MMS at 1130 hrs. that we would be disposing of 14.2# mud. Rishi Tyagi gave approval.** Pump 44 bbls of HI VIS Gel Sweep and circ. until clean. POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 13400'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25. Geochem Sample:

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WEEKLY ACTIVITY REPORT

Period: 02/09/98 to 02/15/98

Week No. 10

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/06/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Logged Platform Express f/14580' to 13397' on 2/10/98. POOH. W&R f/13397' to 14610'. Circ. for casing. **Began completion on 02/11/98.** Prepare to run 5" liner. Received verbal approval from MMS to hold off on BOPE test until 5" liner has been run and cemented. Run 5" 15# L-80 521 new liner w/135 sks Class "G" + 1% CD-32, 1.2% FL-1.2 + 2% SR-30 & 15.8 ppg - CIP 1010 hrs. on 2/12/98. POOH and pump pill. MU RR bit #9 and RIH w/ 3.5" DP. RIH to TOL @ 12860'. Attempt to PT liner lap - no good. 300 psi loss in 20 min. Pump pill. MU and run test plug. PT all rams, safety valves, C&K valves & choke manifold 250 low to 4700 high. Pull test plug and MU test string. PT lower pipe rams same. PT annular 250 low and 3500 high. All tests good. MU 7", 26# RTTS and RIH. RU and set packer @ 6492'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT

Period: 02/02/98 to 02/08/98

Week No. 09

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Drill f/13400' to 13405' and circulate. Perform P.I.T. w/13.5 ppg & TVD of csg shoe @ 7732 & 825 psi = 15.6 ppg EMW. Cont. drilling f/13405' to 14003'. Circ.and wait on weather (high winds). Cont. drilling f/14003' to TD @ 14610'. Circ. and POOH to shoe @ 13397'. Prepare to log. TIH w/logging tools to 13321' and ran T.P. Log f/13338' to 14580'. Logging going in hole. Logging out of hole f/14580' w/T.P. Logs.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/26/98 to 02/01/98

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Week No. 08

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 12.2
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

PU and set cast iron bridge plug @ 7082'. POOH to 6364'. Test lines to 3000 psi - 625.5 bpm. POOH. RIH w/ 9.625 cement retainer and set @ 6360'. Test casing above retainer to 2500 psi. Pump 25 sks Class "G" w/20 ghs CD-31L + 50 ghs FL-33L + 2 ghs R-21L + 2 ghs FP-6L to top of liner. Total cement in liner lap 12.5 bbls. Final pressure @ 1020 psi. **Estimated top of cement @ 6346'. CIP @ 0555 hrs on 1/27/98.** Pump slug & POOH. NU 13 5/8" 3000X 13 5/8" W.H. w/5000 HUB. Pressure test seals to 3000 psi. NU riser & BOP's. Install diverter. Test BOPE as per MMS regulations - 250 low & 4700 high on 1/28/98. Pressure test 5" & 3.5" annular f/250 low & 3000 high. CO cement and retainer f/6263' to top of liner @ 6393'. Circ. RIH w/BHA and tag @ 6260'. Wash to 6292'. CO cement f/6392' to 7080' (bull plug). Mill BP and chase f/7395' to 12679'. CO cement f/12679' to 12848' & mill on BP. Pump pill. CO cement f/12850 to 12905' - gas detected. Drill cement f/12905' to13371'. Test casing & liner lap @ 2500 psi for 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/19/98 to 01/25/98

Week No. 07

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Finish underreaming. Prep to run 7" 26# P110 Hyd. new csg. Mix and wt up Ultra Flush II and pump M/P 940 sks lead cmt Class "G" 12.5 wt w/2% sodium metasilicate + .8% FL-62; + .5% CD-32 + 2 ghs FP-12L, followed w/158 sks Class "G" mixed @ 15.8 w/20 ghs CD-31L; 45 ghs FL-33L; 2 ghs FP-12L. Displaced cmt w/11.9 mud to landing collar @ 13305'. Bumped plug w/2550/600 over displacement pressure. Bled to 0 psi. CIP @ 1120 hrs. on 01/22/98. RIH and tag cmt @ 3405'. Circ. Hole clean. RIH to 5442' and circ. Same. Drill cmt f/6382' to TOL @ 6392'. Circ. RU BJ and test lines to 3000 psi. MU and set test plug. Test 3.5 DP on variable rams. Test 3.5 TIW & IBOP to 3000h/250l. Test hydrill same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/12/98 to 01/18/98

Week No. 06

GENERAL INFORMATION

1. Lease (BHL): OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Bit stacking up and unable to slide @ 12280'. Add .6% by volume S.O. lube, slide drill & rotate to 12543'. Pull to 9843'. Tight hole f/12543'-10920'. Add nut plug to enhance sliding. Pulsar on MWD failed @ 12566'. POOH to change out MWD. Move heavy wall to top of string, RIH and drill ahead to 12882'. WB indicating possible over balance. Reduce mud wt. To 11.88 ppg. Wiper trip @ 13183'. Pulled tight and had to pump stands out to 12560'. Safety ream back to bottom. Drill to 13210' and short trip to 10050' (hole much improved). **Continued drilling to 13400' (TD).** Circ. Btms up. LD directional drilling tools & RIH w/9 7/8" underreamer. Underream to 8724'. POOH & **test BOPE per MMS specs. On 1/16/98.** Cont. RIH, washed last 90' to bottom. Underream to 8912'. Pull to shoe @ 6928'. Continue to Underream to 10519' at report time.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/05/98 to 01/11/98

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Week No. 05

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 12300'
14. Mud Weight: 12
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue to survey and drill from 10260' to 12300'. Wash & ream the same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT
Period: 12/29/97 to 01/04/98

Week No. 04

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 10260'
14. Mud Weight: 10.8
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue drilling f/7088' to 9996'. Pressure test BOPE per MMS specifications on 1/2/98. RIH w/114 jts 5" 19.5 G-105 D.P. to 4797' and continue to shoe @ 6903'. RIH to 9881' and W&R to 9996'. (Calibrated Baker depth sensor) Drill f/9996' to 10260.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25. Geochem Sample:

DATE 12-23-97
AFE No. 5188
DHC 2,358,450
COMPL 2,067,000
TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 2,7[illegible] DWC 30,900
TMC 34,600 TWC 567,700

PROP. DAYS 43
PROP. F 7,500'
ACT. DAYS 20
DEPTH 6832'
PROGRESS

OBJECTIVE FORMATION LOWER REGRETTO WELL TYPE PRODUCER PROP.VS/ZONE

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WELL NAME OCS-P0216-528 ST CO./ST. OFFSHORE, CA API NO. 004-551-205-02-01
RIG TOC-10 LAST CSG 9 5/8' SET @ 8841'
LAST BOP TEST/2-19-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS WAIT ON CEMENT (RIG MAINTENANCE).

TIME 0900	HRS	TR CODE	OPERATIONS SUMMARY
0130	1 1/2		POH WITH UNDERREAMER. WET PIPE.
0300	1 1/2		BREAK DOWN AND LOAD OUT UNDERREAMING ASSEMBLY. FOUND UNDERREAMER PACKED WITH METAL SHAVINGS.
0430	1 1/2		CLEAN RIG FLOOR. MEASURE 15 JTS 2 7/8" TBG.
1100	6 1/2		RIH WITH MULE SHOE ON BOTTOM OF 15 JTS 2 7/8" TBG AND 5" DRILL PIPE TO 6984'.
1330	2 1/2		CIRCULATE A 5 SK SAWDUST SWEEP. REDUCE VISCOSITY F/76 T/46 SEC/QT. PRETREAT MUD WITH BCARB. CIRCULATE AND CONDITION MUD.
1500	1 1/2		RIG UP CEMENTERS. TEST CEMENTING LINE TO 2500 PSI. HELD A PRIOR SAFETY MEETING. EQUALIZED 105 CU.FT. (106 SX) OF 17.2 PPG "G" SLURRY CONTAINING 32 GPM D-314, 7 GPM R-21L AND 3 GPM FP6L FROM 6984' TO 6833' (THEORETICAL TOP OF CEMENT). CIP @ 14:50 HRS, 12-22-97.
1530	1/2		PULLED TBG TAIL TO 6051'.
1600	1/2		REVERSE TBG AND D.P. CLEAN.
1900	3		POH LAYING DOWN 2 7/8" TBG.
2400	5		WAIT ON CEMENT.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.4				
SIZE			TYPE	P29	P29	FV	46				
MAKE			LINER	6	6	PV/YP	8/34				
TYPE			STROKE	9	9	GELS	30/52				
SER NO.			PRESS			WL	20				
JETS			SPM			HTHPWL	0				
IN			GPM			PH	8.7				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	0				
HRS			NOZ VEL			CA	100				
FPH			BTMS UP	59		CL	15000				
WOB			ECD			HGS	7.9				
RPM			BIT HHP/IN²			LGS	35.5	TOTAL			
T			JIF			MBT	15	DP CONNECTION:			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) 56/43 FLUID TYPE SEAWATER MUD VISUAL SHEEN YES (NO)

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WEEKLY ACTIVITY REPORT
Period: 12/22/97 to 12/28/97

Week No. 03

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 7088'
14. Mud Weight: 9.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue milling window f/6966' to 6978'. Under-reamed open hole to 15" f/6928' to 6978'. RIH w/mule shoe on btm of 15 jts 2 7/8" tbg and 5" D.P. to 6984'. Circulate & pretreat mud. RU cementers (for kick off plug) and equalized 103 ft3 (106 sks) of 17.2 ppg, Class "G" slurry w/32 gph D-316, 7 gph R-21L and 3 gph FP-6L f/6984' to 6833' CIP @ 1450 hrs. 12/22/97. POOH and wait on cement. Tag cement stringers f/6571' to 6660', clean out f/6660' to 6978' (no kick off plug). RIH w/2 7/8" tbg and DP to 6950' - tbg plugged - attempt to unplug was no good. POOH. Tbg plugged w/metal shavings. LD & CO tbg. RU BJ and pressure test lines to 2500 psi. BJ M&P 106 sks (103 ft^3) Class "G" w/30 ghs CD-31L, 7 ghs R-21L, 2 ghs defoamer. CIP @ 1815 hrs (for kick off plug). RIH w/bit & tag hard cement @ 6800'. CO cmt f/6800' to 6928' & circ. **NOTE: Torch obtained verbal approval 12/26/97 from Ralph Vasquez w/MMS to continue operations w/3000 psi W.H. until 7" csg PT.** RIH and tag TOC @ 6928'. CO cmt f/6928' to 6930'. Slide f/6930' to 6988'. Perform LOT - 9.6 ppg/1720 psi. Drill f/6988' to 7088'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:

23. Paleo Samples:

DATE 12-22-97 | TORCH OPERATING COMPANY | PROP. D 43
AFE No. 5188 | DAILY DRILLING REPORT | P. 14,500'
DHC 2,358,450 | DMC 1,500 | DWC 33,700 | ACT. DAYS 19
COMPL 2,067,000 | TMC 31,900 | TWC 536,700 | DEPTH 7139'
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P0216 · 5-28 ST CO./ST. OFFSHORE, CA API NO. 04-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-17-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS POH WITH UNDERREAMER.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0430	4 1/2		CONTINUE MILLING WINDOW IN 9 5/8" CSG WITH SECTION MILL NO. 2 F/6966' T/6978' (BOTTOM OF WINDOW).
0700	2 1/2		PUMP HI-VIS PILL. CIRCULATE HOLE CLEAN.
0800	1		PUMP DRY JOB.
1200	4		POH WITH SECTION MILL.
1300	1		SERVICE RIG.
1600	3		RIH WITH 7 1/4" X 15" UNDERREAMER TO TOP OF WINDOW @ 6928'.
1900	3		BREAK CIRCULATION AND DRILL PIPE PLUGGED. WORKED PIPE UNABLE TO CLEAR OBSTRUCTION. ATTEMPTED TO POH UNABLE TO RETRACT ARMS ON UNDERREAMER.
2100	2		UNDERREAMED (DRY REAMED) OPEN HOLE SECTION TO 15" T/6928' T/6978'. WORKED UNDERREAMER AGAINST 9 5/8" CSG STUB @ 6978'.
2400	3		CLOSED ARMS ON UNDERREAMER AND POH (WET) @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.6	UNDERREAMER	7 1/4"	2.25	7.00
SIZE			TYPE	P29	P29	FV	77	SHOCK SUB	6 1/2"	3.125	13.30
MAKE			LINER	6	6	PV/YP	15/67	BIT SUB	6 1/2"	2.125	2.42
TYPE			STROKE	9	9	GELS	45/69	6- DRILL COLLARS	6 1/2"	2.37	182.01
SER NO.			PRESS			WL	17	34- HWDP	5"	2.32	1043.84
JETS			SPM	DRILL PIPE		HTHPWL	—	25, 25.6" G105 DP	5"	3.75	781.29
IN			GPM	PLUGGED		PH	9	159-17.6" " "	5"	4.27	4985.57
OUT			DC AV			PF	.35	UP			- 10.00
FEET			DP AV			PM	0				
HRS			NOZ VEL			CA	60				
FPH			BTMS UP			CL	111500				
WOB			ECD			HGS	86.7				
RPM			BIT HHP/IN²			LGS	40.6	TOTAL			6978.80
T			JIF			MBT	18	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		DIL SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	60°	FLAT	0-5	470	1240			

DISCHARGE MONITORING: EST. VOL. (BBLS) 0/375 FLUID TYPE SEAWATER MUD VISUAL SHEEN YES (NO)

COPY TO REGION

WEEKLY ACTIVITY REPORT
Period: 12/15/97 to 12/21/97

Week No. 02

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 6966'
14. Mud Weight: 10.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Recovered total of 77 jts. of tbg while fishing (top of fish @ 7473'). RIH w/bit & scraper. Tag top of fish @ 7473' and pull bit to 7470'. Circulate and condition mud. MU 9 5/8" x 47# mechanical set drillable bridge plug on 15 jts of 2 7/8" tbg. **Set BP @ 7470' and test @ 1500 psi for 5 minutes - o.k. RU and test cement line - o.k. Mixed 90 ft^3 (78 sks) of Class "G" w/20 ghs CP-311, 4 ghs R-211 and 2 ghs FP-6 f/7470' to 7251'. CIP @ 2129 hrs 12/15/97.** POOH laying down 2 7/8" tbg tail. Prep to mill window. Set test plug (12") and test BOPE - 250L/3000H on 12/19/97. RIH w/section mill on 5" D.P. tag top of cement @ 7139'. **Mill window in 9 5/8" csg. F/6928' to 6934' on 12/19/97 @ 2400 hrs.** Continued milling to 6966', pumping Hi-Vis Sweep every 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-21-97
AFE No. 5188
DHC 2,358,450
COMPL 2,067,000
TOTAL 4,425,450

DMC 1,46 TMC 30,600
DWC 32,800 TWC 503,000

PROP. DAYS 43
PT 7,500'
ACT. DAYS 18
DEPTH 7139'
PROGRESS

COPY TO REGION

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P0216-528 37 CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-19-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS MILLING WINDOW IN 9 5/8" CSG.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0930	9 1/2		CONTINUE TO MILL WINDOW IN 9 5/8" CSG. F/6934' T/6962', MILL QUIT.
1200	2 1/2		CIRCULATE HI-VIS SWEEPER.
1900	7		POH WITH SECTION MILL ASSEMBLY.
1930	1/2		MAKE UP SECTION MILL NO. 2.
2200	2 1/2		RIH TO 6962'.
2400	2		CONTINUE MILLING WINDOW IN 9 5/8" CSG F/6962' T/6966', PUMP HI-VIS SWEEP EVERY 50 MIN @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.6	SECTION MILL	7 1/2	2.25	6.65
SIZE			TYPE	P29	P29	FV	72	XO	7 1/2	2.25	3.07
MAKE			LINER	6	6	PV/YP	13/61	SHOCK SUB	6 1/2	2.125	13.30
TYPE			STROKE	9	9	GELS	42/64	BIT SUB	6 1/2	2.125	2.42
SER NO.			PRESS	1800		WL	17	6- DRILL COLLARS	6 1/2	2.37	182.01
JETS			SPM	64		HTHPWL	—	34- HWDP	5	2.32	1013.84
IN			GPM	402		PH	8.8	25-25.6# G105 DP	5	3.75	781.29
OUT			DC AV	704		PF	.3	159-19.6# G105 DP	5	4.27	4985.57
FEET			DP AV	196		PM	0	UP			- 22.00
HRS			NOZ VEL			CA	140				
FPH			BTMS UP	35		CL	11000				
WOB			ECD			HGS	86.7				
RPM			BIT HHP/IN²			LGS	40.9	TOTAL			6966.20
T			JIF			MBT	18	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT 215 SO WT 115			
G						CAKE	2	TORQUE 12.5 FT/LBS. FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES	D/L SEV.
					NS EW	
					NS EW	
					NS EW	
					NS EW	
					NS EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
	59°	CHOP	S-10	970	1240			

DISCHARGE MONITORING: EST. VOL. (BBLS) 62/875 FLUID TYPE BARITE + GEL VISUAL SHEEN YES (NO)

COPY TO REGION

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-20-97 | AFE No. 5188 | DHC 2,358,450 | COMPL 2,067,000 | TOTAL 4,425,450
DMC 4,800 | TMC 29,200 | DWC 27,200 | TWC 470,200
PROP. DAYS 43 | PTD 1,500 | ACT. DAYS 17 | DEPTH 7139' | PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-PO216-S28-ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82.01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-19-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS MILL WINDOW IN 9 5/8" CSG.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0530	5 1/2		CONT. TESTING BOPE. TEST UPPER AND LOWER PIPE RAMS, BLIND RAMS, ANNULAR, CHOKE AND KILL LINES, CHOKE MANIFOLD, STANDPIPE AND STANDPIPE MANIFOLD, UPPER KELLY COCK AND INSIDE B.O.P. ALL EQUIPT TESTED TO 250 PSI LOW/ 3000 PSI HIGH FOR 5/5 MIN USING FILTERED SEAWATER. REMOVE TEST PLUG.
1400	8 1/2		MAKE UP 7 1/2" SECTION MILL AND SHOCK SUB ON 6-6 1/2" DRILL COLLARS AND 34 JTS. HWDP. RIH ON 5" D.P. TAGGED TOP OF CEMENT @ 7139'.
1600	2		ATTEMPTED BUT UNABLE TO LOCATE CSG COLLAR @ 6940'.
2400	8		MILL WINDOW IN 9 5/8" CSG FROM 6928' TO 6934' @ 24:00.

REMARKS: HOLE PACKED OFF. LOST 150 BBLS OF MUD BEFORE CIRCULATION WAS REGAINED.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.5	SECTION MILL	7 1/2"	2.25	6.65
SIZE			TYPE	P29	P29	FV	74	XO	7 1/2"	2.25	3.07
MAKE			LINER	6	6	PV/YP	22/56	SHOCK SUB	6 1/2"	2.125	13.30
TYPE			STROKE	9	9	GELS	28/53	BIT SUB	6 1/2"	2.125	2.43
SER NO.			PRESS	1800		WL	16.5	6- D.C.S	6 1/2"	2.375	182.01
JETS			SPM	64		HTHPWL		34- JTS HWDP	5"	2.52	1013.84
IN			GPM	402		PH	9	184- JTS 5" D.P.	5"	4.27	5766.86
OUT			DC AV	298		PF	.25	UP			-54.00
FEET			DP AV	196		PM					
HRS			NOZ VEL			CA	60				
FPH			BTMS UP	56		CL	11500				
WOB			ECD			HGS	9.4				
RPM			BIT HHP/IN²			LGS	2.3	TOTAL			6934.16
T			JIF			MBT	18	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT 215 SO WT 115			
G						CAKE	2	TORQUE FTLBS or AMPS 17.3			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	56°	FLAT	0-5	770	1546			

DISCHARGE MONITORING: EST. VOL. (BBLS) 0/513 FLUID TYPE BARITE - GEL VISUAL SHEEN YES (NO)

DATE 12-19-97 | AFE No. 5188 | DHC 2,358,450 | COMPL 2,067,000 | TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY RILLING REPORT

DMC 504 | TMC 24,406 | DWC 28,700 | TWC 443,000

PROP. DAYS 43 | P 4,500 | ACT. DAYS 16 | DEPTH 7251' | PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO RECEIVE

WELL NAME OCS-P0216-S28-ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82.01

RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'

LAST BOP TEST 12-19-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF

PRESENT OPERATIONS TEST BOPE

TIME 0900	HRS	TR CODE	OPERATIONS SUMMARY
			CONT. RIGGING UP TOP DRIVE UNIT. MODIFIED THE DERRICKMAN'S WORKING PLATFORM BY HINGEING PLATFORM 18" FROM THE END, (ALLOWS PLATFORM TO BE FOLDED BACK OUT OF THE WAY). EXTENDED STANDPIPE 10'.
0700	7		RE-ATTACH KELLY HOSE INSTALLING SAFETY CLAMPS.
1100	4		ATTACH LINKS AND ELEVATORS TO TOP DRIVE AND MAKE ADJUSTMENTS. INSTALL AND CONNECT 500 GAL FUEL TANK.
1930	8 1/2		TRIP TOP DRIVE UP AND DOWN DERRICK. CHECK FOR CLEARANCE. REMOVE RUBBER ARRESTING MOUNT FROM SWIVEL. HOOKUP HOSES IN DERRICK. TOP DRIVE UNIT IS OPERATIONAL AND INSTALLATION IS COMPLETE @ 19:30 HRS.
2030	1		SET 12" TEST PLUG IN WELLHEAD
2400	3 1/2		PRESSURE TEST PIPE RAMS, BLIND RAMS AND ALL SURFACE EQUIPT TO 250 PSI LOW / 3000 PSI HIGH USING FILTERED SEAWATER AND RIG PUMP @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.6				
SIZE			TYPE			FV	68				
MAKE			LINER			PV/YP	26/66				
TYPE			STROKE			GELS	34/60				
SER NO.			PRESS			WL	18				
JETS			SPM			HTHPWL	—				
IN			GPM			PH	9				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	—				
HRS			NOZ VEL			CA	60				
FPH			BTMS UP			CL	14500				
WOB			ECD			HGS	—				
RPM			BIT HHP/IN²			LGS	39.4	TOTAL			
T			JIF			MBT	16	DP CONNECTION: 4½" I.F.			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
RAIN	64°	CHOP	10-20	970	1546	—		

DISCHARGE MONITORING: EST. VOL. (BBLS) 0 / 3/5 FLUID TYPE VISUAL SHEEN YES (NO)

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-18-97
AFE No. 5188
DHC 2,358,450 DMC 2,000 DWC 22,300
COMPL 2,067,000 TMC 23,900 TWC 414,300
TOTAL 4,425,450

PROP. DAYS 43
PTD 7500
ACT. DAYS 15
DEPTH 7251'
PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P0216 - S28 ST CO./ST. OFFSHORE, CA API NO. 004-331-2055-01
RIG TOC-10 LAST CSG SET @ 8841'
LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN Hart
PRESENT OPERATIONS EXTENDING STAND PIPE 10'.

COPY TO REGION

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0100	2		CONT. INSTALLING TOP DRIVE CONTROL LINES.
0400	2		POSITION TOP DRIVE ON RIG FLOOR. MAKE UP SAME TO KELLY SWIVEL. INSTALL TORQUE BAR.
0700	3		INSTALL CONTROL LINES TO TOP DRIVE.
0800	1		CHANGE BOTTOM PIPE RAMS TO 5".
1030	2½		INSTALL OVERRIDE SWITCH FOR PIPE GRABBER. INSTALL KELLY HOSE.
1900	8½		INSTALL TURNBUCKLES TO TRACK. INSTALL CONTROL LINE TARP.
2300	4		REPLACE DRILLING LINE.
2400	1		MODIFY STAND PIPE AND DERRICKMAN'S STABBING PLATFORM @ 24:00 HRS

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.5				
SIZE			TYPE			FV	62				
MAKE			LINER			PV/YP	28/57				
TYPE			STROKE			GELS	36/57				
SER NO.			PRESS			WL	18.5				
JETS			SPM			HTHPWL	—				
IN			GPM			PH	9				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	—				
HRS			NOZ VEL			CA	60				
FPH			BTMS UP			CL	14500				
WOB			ECD			HGS		TOTAL			
RPM			BIT HHP/IN²			LGS	28				
T			JIF			MBT	16	DP CONNECTION: 4½" I.F.			
B						% OIL	—	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	59°	FLAT	0-5	970	1546	300		

DISCHARGE MONITORING: EST. VOL. (BBLS) 0/313 FLUID TYPE BARITE + GEL VISUAL SHEEN YES NO

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-17-97
AFE No. 5188
DHC 2,358,450
COMPL 2,067,000
TOTAL 4,425,450

DMC 40 DWC 31,200
TMC 21,980 TWC 392,000

PROP. DAYS 43
14,500
ACT. DAYS 14
DEPTH 7251'
PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P0216-528 ST CO./ST. OFFSHORE, CA API NO. 004-331-205-88-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN HOF

PRESENT OPERATIONS INSTALL TOP DRIVE.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0100	1		POH TO 4768'
0300	2		PICK UP KELLY SWIVEL. BREAK OUT UPPER KELLY COCK AND KELLY SPINNER. LAY DOWN SWIVEL.
0530	2 1/2		POH LAYING DOWN 2 7/8" TBG. TAIL. SECURE WELL.
0700	1 1/2		CLEAR DRILL FLOOR FOR TOP DRIVE INSTALLATION.
2400	17		INSTALL TOP DRIVE T-BAR AND TRACK. INSTALL DRILLERS CONSOLE. MOVE POWER PACK TO PIPE DECK. INSTALL CONTROL LINES FROM CONSOLE TO POWER PACK @ 24:00.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.5				
SIZE			TYPE			FV	40				
MAKE			LINER			PV/YP	14/18				
TYPE			STROKE			GELS	5/16				
SER NO.			PRESS			WL	25				
JETS			SPM			HTHPWL	—				
IN			GPM			PH	9				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	0				
HRS			NOZ VEL			CA	ø0				
FPH			BTMS UP			CL	15K				
WOB			ECD			HGS	—				
RPM			BIT HHP/IN²			LGS	27.7	TOTAL			
T			JIF			MBT	13	DP CONNECTION:			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	61°	FLAT	0-5	970	1546	300		

DISCHARGE MONITORING: EST. VOL. (BBLS) 0 / 913 FLUID TYPE BARITE + GEL VISUAL SHEEN YES (NO)

COPY TO REGION

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-16-97 | AFE No. 5188 | DHC 2,558,450 | COMPL 2,067,000 | TOTAL 4,625,450
DMC 1,925 | TMC 21,500 | DWC 24,200 | TWC 357,500
PROP. DAYS 43 | F 4,500 | ACT. DAYS 13 | DEPTH | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO | WELL TYPE PRODUCER | PROP.VS/ZONE

WELL NAME OCS-P0216-S28-ST | CO./ST. OFFSHORE, CA | API NO. 004-331-205-88-01
RIG TBC-10 | LAST CSG 9 5/8" | SET @ 8841'
LAST BOP TEST 12-8-97 | CSG SEAT TEST (EMW) | ROT HRS | CO. MAN HOF

COPY TO REGION

PRESENT OPERATIONS

TIME 0000	HRS	TR CODE	OPERATIONS SUMMARY
0330	3½		RIH WITH 8½" BIT OH BOTTOM OF 9⅝" CSG SCRAPER. TAG TOP OF FISH @ 7473'. PULL BIT TO 7470'.
0600	2½		CIRCULATE AND CONDITION MUD @ 7470'.
0800	2		PUMP DRY JOB. POH WITH BIT AND SCRAPER.
0930	1½		REPAIR DRILL LINE SPOOLING GUIDE.
1100	1½		CONTINUE POH.
1900	8		MAKE UP 9⅝" x 47# MECHANICAL SET DRILLABLE BRIDGE PLUG ON 15 STDS OF 2⅞" TBG. RIH (SLOW) WITH 5" D.P. SET B.P. @ 7470'. TEST B.P. AND 9⅝" CSG TO 1500 PSI FOR 5 MIN (OK).
2200	3		R/U CEMENTERS. TEST CEMENTING LINE TO 2500 PSI. HELD A PRE-JOB SAFETY MEETING. WITH TBG TAIL AT 7464' MIXED AND EQUALIZED 90 CU.FT. (78 SX) OF "G" CEMENT WITH 20 GHS CD-31, 4 GHS R-21 AND 2 GHS FP-6 FROM 7470 TO 7251' (THEORETICAL TOC). CEMENT IN PLACE @ 21:29 HRS, 12-15-97.
2330	1½		PULLED TBG TAIL TO 7075' AND REVERSE CLEAN.
2400	½		POH @ 24:00 HRS.

REMARKS: X- M.M.S. APPROVED.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.5				
SIZE			TYPE			FV	40				
MAKE			LINER			PV/YP	14/18				
TYPE			STROKE			GELS	5/15				
SER NO.			PRESS			WL	25				
JETS			SPM			HTHPWL	—				
IN			GPM			PH	9				
OUT			DC AV			PF	3				
FEET			DP AV			PM	—				
HRS			NOZ VEL			CA	80				
FPH			BTMS UP			CL	15000				
WOB			ECD			HGS	—				
RPM			BIT HHP/IN²			LGS	27.7	TOTAL			
T			JIF			MBT	13	DP CONNECTION:			
B						% OIL	—	ST WT PU WT SO WT			
G						CAKE	3	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	60°	FLAT	0-5	970	1646			

DISCHARGE MONITORING: EST. VOL. (BBLS) 170/313 FLUID TYPE BARITE & GEL VISUAL SHEEN YES (NO)

COPY TO REGION

DATE 12-15-97 | AFE No. 5188 | DHC 1,358,450 | COMPL 2,067,000 | TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 1300 | TMC 19,600 | DWC 23,300 | TWC 333,300

PROP. DAYS 45 | PTD 14,500' | ACT. DAYS 12 | DEPTH 7475 | PROGRESS

OBJECTIVE FORMATION LOWER REPETTO | WELL TYPE PRODUCER | PROP.VS/ZONE

WELL NAME OCS-P0216-528-ST | CO/ST. OFFSHORE, CA | API NO. 004-331-205-82-01

RIG TOC-10 | LAST CSG 9 5/8" | SET @ 8841'

LAST BOP TEST 12-8-97 | CSG SEAT TEST (EMW) | ROT HRS | CO. MAN Hoff

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0230	2 1/2		POH. RECOVERED 57 JTS (1794.21') OF TBG.
0330	1		SERVICE OVERSHOT. CHECK SERVICE BREAKS ON FISHING TOOL ASSEMBLY.
0800	4 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 6844.
1000	2		ENGAGED FISH AND JAR ON SAME. NO MOVEMENT OF FISH INDICATED.
1030	1/2		MAKE BLIND BACK OFF ON TBG.
1100	4 1/2		DRY JOB.
1430	3 1/2		POH. RECOVERED 13 JTS (409.65') OF TBG.
1530	1		SERVICE OVERSHOT. CHECK CONNECTIONS ON FISHING TOOL ASSEMBLY.
1800	2 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 7253'.
1900	1		ENGAGED FISH AND JAR ON SAME. NO UPWARD MOVEMENT NOTICED.
1930	1/2		MAKE BLIND BACK OFF ON TBG.
2000	1/2		DRY JOB.
2230	2 1/2		POH. RECOVERED 7 JTS (220.16') OF TBG, (TOP OF FISH @ 7473').
2400	1 1/2		BREAK DOWN AND LOAD OUT FISHING TOOLS @ 24:00 HRS.

REMARKS: LEFT IN WELL: 18 JTS. 2 7/8" TBG, 2 7/8 X 4 PUP JT., TRAVEL JT., 1-JT 2 7/8" TBG, XO SLEEVE, 9 5/8" RDH PKR, 2 7/8" X 4' PUP JT, 9 JTS 2 7/8" TBG, XO SLEEVE, 1-JT TBG, XN NIPPLE, 1-JT 2 7/8" TBG, LOCATOR SUB W/ SEAL ASSEMBLY. (9861.92').

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.1				
SIZE			TYPE			FV	44				
MAKE			LINER			PV/YP	12/14				
TYPE			STROKE			GELS	4/11				
SER NO.			PRESS			WL	25				
JETS			SPM			HTHPWL	0				
IN			GPM			PH	9.8				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	.5				
HRS			NOZ VEL			CA	400				
FPH			BTMS UP			CL	14000				
WOB			ECD			HGS	0				
RPM			BIT HHP/IN²			LGS	28	TOTAL			
T			JIF			MBT	15	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	3	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
RAIN	60°	FLAT	5	1048	1546			

DISCHARGE MONITORING: EST. VOL. (BBLS) 143 | FLUID TYPE BARITE + GEL | VISUAL SHEEN YES/NO

12-15-97 01:28 P.01

DATE 12-14-97 | AFE No. 5188 | DHC 2,358,450 | COMPL 2,067,000 | TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 2,200 | TMC 18,300 | DWC 40,000 | TWC 310,000

PROP. DAYS 43 | PT. 14,500' | ACT. DAYS 11 | DEPTH | PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS. P0216-528 ST CO./ST. OFFSHORE, CA API NO. 004-331-205-88-01

RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'

LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0230	2 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 2879'.
0300	1/2		ENGAGED FISH AND TIGHTEN TBG. MADE A BLIND BACK OFF ON TBG.
0600	3		POH. RECOVERED 65 JTS (2046.09') OF 2 7/8" TBG.
0700	1		SERVICE OVERSHOT. CHECK CONNECTION ON FISHING TOOL ASSEMBLY.
1130	4 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 4925'.
1430	3		ENGAGED FISH AND JAR ON SAME. NO MOVEMENT OF PACKER INDICATED. MAKE BLIND BACK OFF.
1500	1/2		MIX AND PUMP DRY JOB.
1900	4		POH. RECOVERED 4 JTS. (125.00') OF TBG.
2130	2 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 5050'.
2230	1		ENGAGED FISH AND TIGHTEN TBG STRING. BACK TBG OFF.
2300	1/2		DRY JOB.
2400	1		POH @ 24:00 HRS.

REMARKS: WELL BACK FLOWING UP TBG @ THE RATE OF 12 BBLS/HR.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.1	OVERSHOT	5 3/4	2.74	5.82
SIZE			TYPE	P29	P29	FV	45	XO	5 3/4	2.25	1.41
MAKE			LINER	6	6	PV/YP	14/16	BUMPER SUB	5"	2.25	4.65
TYPE			STROKE	9	9	GELS	5/14	XO	5"	2.25	2.54
SER NO.			PRESS			WL	0	JARS	5"	2.25	11.57
JETS			SPM			HTHPWL	0	6 JTS HEVI-WATE	5"	3.06	180.04
IN			GPM			PH	9.8	ACCELLERATOR	5"	2.25	12.93
OUT			DC AV			PF	.3	25 JTS @ 105 DP	5	3.75	781.29
FEET			DP AV			PM	.5	5' PUP JT.	5	3.75	15.00
HRS			NOZ VEL			CA	440	130 SINGLES	5	3.75	4080.06
FPH			BTMS UP			CL	13400	UP			-32.00
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS	28.4	TOTAL			5050.38
T			JIF			MBT	15	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT 136 SO WT 90			
G						CAKE	0	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	57°	FLAT	5	1048	746			

DISCHARGE MONITORING: EST. VOL. (BBLS) 36 FLUID TYPE BARITE + GEL VISUAL SHEEN YES (NO)

COPY TO REGION

DATE 12-13-97 | TORCH [illegible]RATING COMPANY | PROP. DAY 43
AFE No. 5188 | DAILY [illegible]ILLING REPORT | PTL 4,500'
DHC 2,358,450 | DMC 2,300 | DWC 86,700 | ACT. DAYS 10
COMPL 2,067,000 | TMC 16,100 | TWC 270,000 | DEPTH
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REALITO | WELL TYPE PRODUCER | PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P0216-SZB-S7 | CO/ST. OFFSHORE, CA | API NO. 004.331.205.82.01
RIG TOC-10 | LAST CSG 9 5/8" | SET @ 8841'
LAST BOP TEST 12-8-97 | CSG SEAT TEST (EMW) | ROT HRS | CO. MAN HOFF
PRESENT OPERATIONS FISHING TBG

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0030	1/2		MAKE A BLIND BACK OFF ON TBG @ 2091'.
0230	2		POH. RECOVERED 6 JTS (188.90') OF TBG.
0400	1 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY TO 2262', (TOF @ 2280').
0730	3 1/2		RIG UP DIALOG. MAKE UP 1 3/8" X 32' SPUD BAR. STRIP SPUD BAR AND PACK OFF THRU TOP SINGLE D.P.
0830	1		ENGAGED FISH WITH OVERSHOT. PULLED UP TO 120,000# AND TBG SEPARATED. LAY DOWN DIALOG SPUD BAR.
1200	3 1/2		POH. RECOVERED 12 JTS (379.13') OF TBG.
1500	3		RIH WITH FISHING ASSEMBLY TO 2644', (TOP OF FISH @ 2659'). RIG UP DIALOG. ENGAGED TBG AND TIGHTEN TBG. PULL 10,000# OVER AND SET SLIPS.
2000	5		RIH WITH 1 3/8" SPUD BAR ON WIRELINE. STOPPED @ 2670' (W.L.M.). WORKED SPUD BAR THRU SCALE DEPOSIT TO 3889'. PROGRESS DECREASED TO APPROXIMATELY 40'/HR. DISCUSSED SITUATION WITH TOC ENGINEERING (WIRELINE OPERATOR IS INEXPERIENCED WITH STRING SHOTS). IT WAS DECIDED TO CONTINUE WITH TBG BACK OFF. RDMO DIALOG.
2100	1		BACK OFF TBG @ 2659'.
2300	2		POH. RECOVERED 7 JTS (220.57') OF TBG.
2400	1		CHANGE OUT GRAPPLE IN OVERSHOT. MAKE UP FISHING ASSEMBLY @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.7	OVERSHOT	5 3/4"	2.25	5.82
SIZE			TYPE	P29	P29	FV	45	XO	5 3/4	2.25	1.41
MAKE			LINER	6	6	PV/YP	16/20	BUMPER SUB	5"	2.25	4.65
TYPE			STROKE	9	9	GELS	8/24	XO	5"	2.25	2.54
SER NO.			PRESS			WL	24	JARS	5"	2.25	11.37
JETS			SPM			HTHPWL	—	6 JTS HEVI-WATE	5"	3.06	186.04
IN			GPM			PH	7	ACCELERATOR	5"	2.25	12.23
OUT			DC AV			PF	—	25 JTS G-105 D.P.	5"	3.75	781.29
FEET			DP AV			PM	—	53 SINGLES D.P.	5"	3.75	1670.91
HRS			NOZ VEL			CA	800				
FPH			BTMS UP			CL	7800				
WOB			ECD			HGS	—				
RPM			BIT HHP/IN²			LGS	26	TOTAL			2671.16
T			JIF			MBT	15	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	—	ST WT PU WT 89 SO WT 72			
G						CAKE	3	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
EXAM	58	FLAT	10	1048	826	0		

DISCHARGE MONITORING: EST. VOL. (BBLS) | FLUID TYPE BARITE + GEL | VISUAL SHEEN YES (NO)

DATE 12-12-97
AFE No. 5188
DHC 2,358,450
COMPL 2,067,000
TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 600 DWC 28,600
TMC 13,800 TWC 243,300

PROP. DAYS 43
PTD 5007
ACT. DAYS 9
DEPTH
PROGRESS

COPY TO REGION

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-PO216-S-28 ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 7 5/8" SET @ 8541'
LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN ROFF

PRESENT OPERATIONS FISHING TBG.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0430	4 1/2		RIH WITH 5 3/4" OVERSHOT WITH 7 3/4" GUIDE AND 2 7/8" GRAPPLE, BUMPER SUB AND JARS ON BOTTOM OF 6 JTS OF 5" HEVI-WATE AND 5" D.P. TAGGED TOP OF FISH @ 1523' (MD).
0730	3 1/2		ENGAGED FISH, MOVED FISH UPHOLE 45' AND STARTED JARRING. JARRED FISH UPHOLE 5' @ 30,000# OVER. INCREASED JARRING TO 50,000# OVER WITH NO FURTHER MOVEMENT NOTICED.
0830	1		PERFORMED A BLIND BACK-OFF ON TBG STRING.
1100	2 1/2		POH. RECOVERED 5 JTS. OF TBG AND L-BROKEN (PARTED) JT, 188.18' TBG RECOVERED.
1400	3		RIH WITH OVERSHOT/FISHING ASSEMBLY, TAGGED TOP OF FISH @ 1711'.
1500	1		ENGAGED FISH AND JAR ON SAME WITH NO MOVEMENT NOTICED. TIGHTEN TBG STRING. PERFORMED A BLIND BACK-OFF ON TBG STRING.
1730	2 1/2		POH. RECOVERED 12 JTS (379.11') OF TBG.
2200	4 1/2		CHANGE UPPER PIPE RAMS TO 2 7/8" X 5 1/2" VARIABLE. TEST PIPE RAMS TO 250 PSI LOW, 3000 PSI HIGH FOR 5/5 MIN.
2330			RIH WITH OVERSHOT/FISHING ASSEMBLY, (SPIDER ALL D.P. CONNECTIONS). TAGGED TOP OF FISH @ 2091'.
2400	1/2		ENGAGED FISH AND RE TIGHTEN TBG STRING @ 2400 HR.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	11.6	OVERSHOT	5 3/4"	2.25	5.82
SIZE			TYPE	P-79	P-79	FV	44	X-OVER	5 3/4"	2.25	1.41
MAKE			LINER	6	6	PV/YP	12/20	BUMPER SUB	5"	2.25	4.65
TYPE			STROKE	9	9	GELS	6/22	X-OVER	5"	2.25	2.54
SER NO.			PRESS			WL	20.8	JARS	5"	2.25	11.57
JETS			SPM			HTHPWL		6-JTS. HEVI-WATE	5"	3 3/4"	180.04
IN			GPM			PH	7	ACCELLERATOR	5"	2 1/4"	12.93
OUT			DC AV			PF		2.5 JTS. G-105 P.P.	5"	3 3/4"	781.29
FEET			DP AV			PM		35 SINGLES 5"	5"	3 3/4"	1103.65
HRS			NOZ VEL.			CA	800				
FPH			BTMS UP			CL	5200				
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS	29.7	TOTAL			2103.90
T			JIF			MST	17.5	DP CONNECTION: 4 1/2" I.F.			
B						% OIL		ST WT PU WT 70 SO WT 68			
G						CAKE	3	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CHGE	61°	10-15	SE	1048	826	0		

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE BARITE + GEL VISUAL SHEEN YES (NO)

COPY TO REGION

DATE 12-11-97 | TORCH OPERATING COMPANY | PROP. D/ 43
AFE No. 5188 | DAILY DRILLING REPORT | P 14,600'
DHC 2,358,450 | DMC 900 | DWC 24,000 | ACT. DAYS 8
COMPL 2,067,000 | TMC 15,200 | TWC 214,100 | DEPTH
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO | WELL TYPE PRODUCER | PROP.VS/ZONE

WELL NAME OCS-P0216-5-28 | CO./ST. OFFSHORE, CA | API NO. 004-331-205-82-01
RIG 70C-10 | LAST CSG 9 7/8" | SET @ 8841'
LAST BOP TEST 12-8-97 | CSG SEAT TEST (EMW) | ROT HRS | CO. MAN
PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0730	7 1/2		POH LAYING DOWN 2 3/8" SHORT STRING.
0800	1/2		MAKE UP TBG SPEAR WITH 2.438" GRAPPLE ON 2 JTS. OF 2 3/8" N80 TBG.
1330	5 1/2		BACK OUT HANGER LOCK SCREWS. REPLACED ALL HANGER HOLD DOWNS DUE TO RUST.
1900	5 1/2		ENGAGED LONG STRING WITH TBG SPEAR. RELEASED PACKER @ 8101'. WORKED PKR UPHOLE TO 8056'. ATTEMPTED TO WORK PKR FREE AND TBG PARTED @ 100,000 #, POH. RECOVERED 2-10' PUP JTS. AND 46 JTS OF TBG. TBG PARTED 3' BELOW COUPLING ON JT. NO 47. ALSO RECOVERED BPV AND INJECTION VALVE IN JT NO 24. TOP OF FISH @ 1506'.
2100	3		RIG UP 5" ROTARY TOOLS AND PIPE SPINNER.
2300	1		MAKE UP SPEAR WITH 4 1/8" GRAPPLE ON LANDING JT. RET. TBG HANGER FROM TBG HEAD
2400	1		MEASURE AND PICK UP OVERSHOT, BUMPER SUB AND JARS @ 24:00 HRS

REMARKS: NOTE: TBG IS SEVERELY SCALED. BOTTOM 3 SINGLES CAME WET.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	12.2				
SIZE			TYPE			FV	44				
MAKE			LINER			PV/YP	20/13				
TYPE			STROKE			GELS	4/15				
SER NO.			PRESS			WL	12.6				
JETS			SPM			HTHPWL					
IN			GPM			PH	8.5				
OUT			DC AV			PF	.05				
FEET			DP AV			PM	.10				
HRS			NOZ VEL			CA	80				
FPH			BTMS UP			CL	680				
WOB			ECD			HGS					
RPM			BIT HHP/IN ^{2}			LGS	4/5	TOTAL			
T			JIF			MBT	20	DP CONNECTION:			
B						% OIL	–	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES	D/L SEV.
					NS EW	
					NS EW	
					NS EW	
					NS EW	
					NS EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

COPY TO REGION

DATE 12-10-97 | **TORCH RATING COMPANY** | PROP. DAY 43
AFE No. 5188 | **DAILY DRILLING REPORT** | PTD 4,500'
DHC 2,358,450 DMC 8,000 DWC 37,600 | ACT. DAYS 7
COMPL 2,067,000 TMC 12,300 TWC 190,700 | DEPTH
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P0216-S-28 ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TDC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0330	3 1/2		RIG UP SLICKLINE EQUIPT ON LONG STRING (2 7/8").
			RETRIEVE TEST PLUG FROM LONG STRING. RDMO SLICKLINE.
1530	1 1/2		BUILD MUD WT TO 12.2 PPG IN ACTIVE PITS.
1700	1 1/2		STAB OUT OF PACKER @ 8101' AND ESTABLISH CIRC.
			WITH RETURNS GOING TO PRODUCTION. CIRCULATE
			DOWN SHORT STRING (2 3/8").
2000	3		WEIGHT UP MUD IN RESERVE PITS TO 12.2 PPG.
2300	3		CIRCULATE AND KILL WELL WITH 12.2 PPG MUD @ 3 BPM.
			OPEN ANNULAR PREVENTER AND CHECK FOR FLOW.
			WELL DEAD.
2400	1		POH LAYING DOWN 2 3/8" SHORT STRING @ 24:00 HRS.

REMARKS: RE-INSTALLED REPAIRED SHAKERS ON MUD PITS.

BIT DATA			PUMP DATA			MUD DATA	
BIT NO.			PUMP NO.			MW	12.2
SIZE			TYPE			FV	45
MAKE			LINER			PV/YP	12/14
TYPE			STROKE			GELS	9/21
SER NO.			PRESS			WL	12.4
JETS			SPM			HTHPWL	
IN			GPM			PH	8.6
OUT			DC AV			PF	.06
FEET			DP AV			PM	.10
HRS			NOZ VEL			CA	40
FPH			BTMS UP			CL	500
WOB			ECD			HGS	
RPM			BIT HHP/IN^2			LGS	27.5
T			JIF			MBT	20
B						% OIL	
G						CAKE	

BHA DESCRIPTION	OD	ID	LENGTH
TOTAL			

DP CONNECTION:
ST WT PU WT SO WT
TORQUE FTLBS or AMPS

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

DATE 12-9-97 | TORCH ERATING COMPANY | PROP. DA 43
AFE No. 5188 | DAI RILLING REPORT | F 4,500'
DHC 2,358,450 | DMC 4300 | DWC 23,300 | ACT. DAYS 6
COMPL 2,067,000 | TMC 4300 | TWC 153,100 | DEPTH
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P-0216-S-28-ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS BUILD KILL WEIGHT MUD

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
1000	10		REPAIR AND REWELD BEARING RETAINER PLATE ON DRAWWORKS DRUM SHAFT. REINSTALL LOW DRUM CLUTCH ASSEMBLY. REINSTALL AND RECONNECT DRILLERS CONSOLE.
1700	7		TEST BOPE AND ALL SURFACE EQUIPT TO 250 PSI LOW FOR 5 MIN, 3000 PSI HIGH FOR 5 MIN.
2000	3		BUILD KILL WEIGHT MUD (12.5 PPG)
2400	4		RIG UP SLICKLINE EQUIPT ON 2 7/8" SHORT STRING. RETRIEVE TEST PLUG AND BPV FROM SHORT STRING @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	9				
SIZE			TYPE			FV	45				
MAKE			LINER			PV/YP	15/12				
TYPE			STROKE			GELS	3/12				
SER NO.			PRESS			WL	15.4				
JETS			SPM			HTHPWL					
IN			GPM			PH	8.5				
OUT			DC AV			PF	.05				
FEET			DP AV			PM	.10				
HRS			NOZ VEL			CA	40				
FPH			BTMS UP			CL	600				
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS	45	TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE BARITE + GEL VISUAL SHEEN YES NO

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-7-97
AFE No. 5188
DHC 2,358,450
COMPL
TOTAL

DMC — TMC —
DWC 32100 TWC 108200

PROP. DAYS
PTL
ACT. DAYS 4
DEPTH
PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P-0216 · S-28 ST CO./ST. OFF-SHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0300	3		SKID RIG NORTH OVER WELL BAY NO. 3. POSITION RIG OVER WELL NO. S-28.
0700	4		RIG UP TO SKID TOP SECTION AND PIPE RACK.
1800	5		SKID RIG FLOOR OVER WELL S-28. SKID PIPE RACK IN PLACE.
1800	6		INSTALL CATWALK, STAIRS, HAND RAILS ETC. RIG UP CIRC. EQUIPT.
2000	4		CLEAN ACTIVE AND RESERVE PITS.
2400	2		RIG UP SLICKLINE EQUIPT. TO SHORT STRING. 1100 PSI SITP SHORT STRING. BLEED TBG. DOWN. RIH WITH 1.77" GAUGE RING TO 7764'. STUCK WIRELINE TOOLS @ 7764'. WORKED WIRELINE TOOLS FREE AND POH @ 2400 HRS.

REMARKS: WIRELINE OPERATOR UNABLE TO EXPLAIN WHY TOOL STRING STOPPED 32' HIGH. SEE REPORT DATED 12-3-97.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW					
SIZE			TYPE			FV					
MAKE			LINER			PV/YP					
TYPE			STROKE			GELS					
SER NO.			PRESS			WL					
JETS			SPM			HTHPWL					
IN			GPM			PH					
OUT			DC AV			PF					
FEET			DP AV			PM					
HRS			NOZ VEL			CA					
FPH			BTMS UP			CL					
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS		TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

COPY TO REGION

DATE 12-7-97
AFE No. 5188
DHC 2,358,450
COMPL
TOTAL

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 0 DWC 21,600
TMC 0 TWC 129,800

PROP. DAYS
P
ACT. DAYS 5
DEPTH
PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS.P.0816.S-28-ST CO./ST. OFFSHORE, CA API NO. 004-334-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN Host

PRESENT OPERATIONS

TIME 0500	HRS	TR CODE	OPERATIONS SUMMARY
0900	8		RERAN 1.77" GAUGE RING TO 7764', UNABLE TO WORK TOOLS BELOW 7764' (SOCIA), POH.
			RIH WITH 1 3/4" IMPRESSION BLOCK TO 7764', POH. T.B. SHOWED SCALE ON TBG WALL.
			SET BPV IN SHORT STRING @ 300'. SET TEST PLUG @ 100' WITH SLICKLINE.
			SET TEST PLUG IN LONG STRING @ 100'. RDMO SCHLUMBERGER.
1100	3		REMOVE INJECTION TREE. (NOTE: NO THREADS IN LONG STRING LANDING JT. ERODED)
1600	5		INSTALL RISER AND BOPE. FUNCTION TEST BOPE.
1900	3		TEST BOPE; CHECK AND FIX LEAKS.
2400	5		REMOVE DRILLER'S CONSOLE. REMOVE LOW DRUM CLUTCH.
			REPAIR DRAWWORKS ON RIG @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW					
SIZE			TYPE			FV					
MAKE			LINER			PV/YP					
TYPE			STROKE			GELS					
SER NO.			PRESS			WL					
JETS			SPM			HTHPWL					
IN			GPM			PH					
OUT			DC AV			PF					
FEET			DP AV			PM					
HRS			NOZ VEL			CA					
FPH			BTMS UP			CL					
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS		TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
	68	10-12	40	1048	1586	750		

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

DATE 12-6-97 | TORCH OPERATING COMPANY | PROP. DAYS
AFE No. 5188 | DAILY DRILLING REPORT | PTD
DHC 2,358,450 DMC TMC | DWC 18,600 TWC 76,100 | ACT. DAYS 3
COMPL DEPTH
TOTAL PROGRESS
OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P-0216 · S-28 CO./ST. OFFSHORE, CA API NO. 004-321-205-88-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS SKIDDING RIG

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0100	1		RIH WITH 2" TBG SCRATCHER ON SLICKLINE. WORKED SCRATCHER FROM 730' - 743' (TOP OF INJECTION VALVE W/ L.M.), POH.
0400	3		RIH WITH 1 5/8" BAILER, STOPPED @ 740'. BAILED SCALE TO 743' AND WELL STARTED TO BACK FLOW @ THE APPROXIMATE RATE OF 1.5 BBL/HR.
0600	2		BACK FLOW WELL, WELL DEAD @ 0550 HRS.
0730	1 1/2		RIH WITH 2" GS PULLING TOOL TO 743', ATTEMPTED BOT UNABLE TO ENGAGE VALVE, POH. PULLING TOOL PACKED WITH SCALE.
0800	1/2		ATTEMPTED TO RETURN WELL TO INJECTION, TBG PLUGGED.
1300	5		RIH WITH 1 5/8" BAILER, STOPPED @ 737'. BAILED TBG TO 743'. RECOVERED VERY SMALL AMOUNTS OF SCALE LAST 2 RUNS.
1530	2 1/2		RIH WITH 2" GS PULLING TOOL, STOPPED @ 774' (VALVE FELL THRU X NIPPLE @ 743'), POH.
1630	1		RIH WITH 2" IMPRESSION BLOCK TO 774', POH. I.B. SHOWED MINIMAL I.P. DUE TO SCALE, NO INDICATION OF VALVE.
1830	2		RIH WITH 1 5/8" BAILER TO 774', BAIL SCALE, UNABLE TO MAKE ANY SIGNIFICANT PROGRESS. DISCUSSED SITUATION WITH TOC ENGINEERING. IT WAS DECIDED TO ABORT THE ATTEMPT AND SKID THE RIG.
2030	2		SET BPV IN LONG STRING @ 317' WITH SLICKLINE. RDMO SLICKLINE EQUIPT.
2400	3 1/2		SKID RIG EAST TO NORTH/SOUTH TRAVERSE @ 24:00 HRS

REMARKS: EXPERIENCING GALE FORCE WINDS (SOUTH-EASTERLY) AND HEAVY RAIN. ALL WELDING WAS TERMINATED DUE TO SHOCK HAZARD.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW					
SIZE			TYPE			FV					
MAKE			LINER			PV/YP					
TYPE			STROKE			GELS					
SER NO.			PRESS			WL					
JETS			SPM			HTHPWL					
IN			GPM			PH					
OUT			DC AV			PF					
FEET			DP AV			PM					
HRS			NOZ VEL			CA					
FPH			BTMS UP			CL					
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS		TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

COPY TO FILE

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-4-97
AFE No. 5188
DHC
COMPL
TOTAL 2,358,450
OBJECTIVE FORMATION LOWER REPETTO

DMC -1- DWC 18,600
TMC -0- TWC 57,500

PROP. DAYS
ACT. DAYS 2
DEPTH
PROGRESS

WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P-0216-S-28 CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN M. HOFF

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0530	5½		RIH W/1.77" GAUGE RING ON SLICKLINE, STOPPED @ 106'. WORKED GAUGE RING TO TOP OF INJ. VALVE @ 743' (WLM). RIH W/2" GAUGE RING, WORKED GAUGE RING TO TOP OF INJ. VALVE @ 743', POH. RIH W/2.25" GAUGE RING, STOPPED @ 109'. WORKED GAUGE RING TO 743', POH.
0600	½		RETURNED WELL TO WATER INJECTION FOR CLEAN UP.
0800	2		RIH W/2.35" GAUGE RING, WORKED GAUGE RING DOWN TO TOP OF INJECTION VALVE @ 743' (WLM), POH. RIH W/2" "GS" PULLING TOOL. ENGAGED VALVE POH. NO RECOVERY. RIH W/2" IMPRESSION BLOCK TO 743', POH. I.B. SHOWED TOP OF VALVE (BODY CAVITY PACKED W/SCALE).
1300	5		RIH W/1 3/8" BAILER. BAIL SCALE OFF OF AND OUT OF INJECTION VALVE. RIH W/2" "GS" PULLING TOOL. ENGAGED VALVE. WORKED VALVE OFF SEAT AND TOOL STRING WAS BLEW UP HOLE BALLING UP WIRELINE. STRIP WIRELINE TOOLS OUT OF WELL.
1400	1		BACK FLOW WELL WHILE REHEADING TOOL STRING.
1800	4		RIH W/2" "GS" PULLING TOOL, FOUND VALVE LODGED IN TBG @ 691'. ATTEMPTED TO RE-ENGAGE VALVE AND VALVE STARTED DOWNHOLE TO SEAT @ 743'. UNABLE TO ENGAGE VALVE, POH. FOUND PULLING TOOL PACKED WITH SCALE.
2100	3		ATTEMPTED TO BACK FLOW WELL, WELL DEAD, RIH WITH 1 3/8" BAILER, BAIL SCALE OFF OF AND OUT OF VALVE.
2400	3		RIH W/2" "GS" PULLING TOOL. ATTEMPTED BUT UNABLE TO WORK PULLING TOOL INTO VALVE DEEP ENOUGH TO LATCH VALVE. POH. PULLING TOOL PACKED WITH SCALE. UNABLE TO INJECT INTO OR BACK FLOW WELL. RIH WITH 2" TBG SCRATCHER. ATTEMPTING TO REMOVE SCALE FROM VALVE POCKET @ 24:00 HRS
RIG WORK:			REPAIRING CATWALK; WORK ON LIGHTS IN DERRICK. REPAIR GRATING ON RIG FLOOR; REPLACED CABLE TRAY ON RIG; REPAIR HANGERS FOR ROTARY TABLE ETC.

REMARKS: REMOVED SHAKERS FROM MUD PITS FOR REPAIRS.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW					
SIZE			TYPE			FV					
MAKE			LINER			PV/YP					
TYPE			STROKE			GELS					
SER NO.			PRESS			WL					
JETS			SPM			HTHPWL					
IN			GPM			PH					
OUT			DC AV			PF					
FEET			DP AV			PM					
HRS			NOZ VEL			CA					
FPH			BTMS UP			CL					
WOB			ECD			HGS					
RPM			BIT HHP/IN^2			LGS		TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FT-LBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

COPY TO REGION

RECEIVED
DEC - 8 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

TORCH OPERATING COMPANY

DAILY DRILLING COSTS

DATE: 12-3-97 THRU _____

WELL: OCS-P-0216-S-28-ST CO, ST: OFFSHORE, CA RIG: TOC-10 AFE #: 5188 DH AFE$: 2,358,450

		AFE AMOUNT	PRIOR TOTAL	12-3-97	12-4-97						WEEKLY CUM	TOTAL
1.	LOCATION	12,000	-0-									
2.	CONTRACT DRILLING											
	a. Footage/Turnkey $/Ft. or $											
	b. Install & Remove Rig	24,000		3900								
	c. Daywork	320,000			7800							
3.	DRILLING BITS	47,000										
4.	FUEL & WATER	8,400		600	1200							
5.	CEMENT & SERVICE	66,300										
6.	FORMATION EVALUATION											
	a. Electric Surveys (open hole) Specialized Service	37,500										
	b. Mud Logging	22,500										
7.	DRILLSTEM TEST (INCLUDING TEST UNIT)											
8.	CONVENTIONAL CORING & ANALYSIS											
9.	SPECIALIZED SERVICE											
	a. Directional/MWD Services	300,000										
	b. All Other Services	29,000										
10.	FISHING TOOLS & SERVICE											
11.	EQUIPMENT RENTAL	269,000		1300	3000							
12.	LOST IN HOLE											
13.	DRILLING MUD & COMPLETION FLUIDS											
	a. Materials/Liquid Mud	250,000										
	b. Maintenance & Monitoring Equipment/Transp	40,000										
	c. Mud/cutting disposal charges											
	d. All Other Services	12,000		4500								
14.	CONSTRUCTION/WELLSITE SUPERVISION	28,000		300	700							
15.	TRANSPORTATION	468,000		1500	3000							
16.	CASED HOLE WIRELINE			1900								
17.	SUPPLIES & SMALL TOOLS			100	200							
18.	ENVIRONMENTAL	5,000										
19.	COMMUNICATIONS	4,000			100							
20.	CATERING/GROCERIES	44,000		400	900							
21.	INSURANCE $/Ft.	16,000		20700								
22.	OVERHEAD $/Day	4,750										
23.	CONTINGENCIES 10 %	100,000		3500	1700							
	TOTAL INTANGIBLES	2,252,450		38,900	18,600							
24.	CASING											
	a. Conductor											
	b. Surface Pipe											
	c. Intermediate/Production	156,000										
	d. Liner & Hanger											
25.	TUBING											
26.	WELLHEAD											
27.	SUBSURFACE EQUIPMENT											
28.	PRODUCTION EQUIPMENT											
	TOTAL TANGIBLES	156,000										
	DAILY TOTAL			38,900	18,600							
	CUMULATIVE	2,358,450		38,900	57,500							

P.02
ID=
12-05-97 00:29

TORCH
OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

RECEIVED
FEB 10 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

February 6, 1998

Mr. Shannon Shaw
Minerals Management Service
770 Paseo Camarillo - MS 7210
Camarillo, CA 93010-6064

RE: Correction Sundry Notice for
Platform Gilda - #S-28WB01

Mr. Shaw:

Enclosed you will find the above referenced information as per your requirements (4 copies). This work had been approved verbally as noted on Sundry Notice.

Please feel free to call with any question or comment at 805-934-8224.

Sincerely,

Sabrina J. Miller
Regulatory Coordinator

RECEIVED

JAN 2 7 1998

MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

TORCH
OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

January 26, 1998

Mr. Rishi Tyagi
U.S. Department of Interior
Mineral Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RE: Platform Gilda Well #S-28
Correction Sundry Notice for Approval

Mr. Tyagi:

Enclosed you will find the above referenced package for your approval, with copies as per your requirements. These are the hard copies for this sundry, which had been faxed to you on this date.

Feel free to call me at 805-934-8224 with any questions or comments.

Thank you,

Sabrina J. Miller
Regulatory Coordinator

TORCH
OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

January 12, 1998

Mr. Shannon Shaw
Minerals Management Service
770 Paseo Camarillo - MS 7210
Camarillo, CA 93010-6064

RE: Correction Sundry Notice for Platform Gilda - #S-28WB01

Mr. Shaw:

Enclosed you will find the above referenced information as per your requirements (4 copies). This had been faxed over to you on this day for approval – these are the hard copies as promised in my fax cover sheet.

Please feel free to call with any question or comment at 805-934-8224.

Sincerely,

Sabrina J. Miller
Regulatory Coordinator

TORCH
OPERATING COMPANY

FAX COVER SHEET

Date:	December 2, 1997	**Time:**	3:22 PM
To:	**Shannon Shaw**	**Phone:**	805-389-7775
Company:	MMS	**Fax:**	805-389-7784
From:	Gary P. Hertfelder	**Phone:**	805-934-8208
Department:	Drilling	**Fax:**	805-937-0237

Number of pages including cover sheet: 5

Message:
Shannon,

As per our telephone conversation, attached are wellbore diagrams for the S-28 well, Platform Gilda.

We would like to change our previously approved abandonment procedure to the following.

1) Set blanking plug in "XN" nipple at 8115.69' TVD in the 2-3/8" tubing string.
2) Set blanking plug in "XN" nipple at 8430.97' TVD in the 2-7/8" tubing string.
3) Install riser, BPV and BOPE. Test BOPE to MMS requirements.
4) Chemically cut 2-3/8" tubing 5' above RDH packer at 8101'. POH and laydown 2-3/8" tubing.
5) Chemically cut 2-7/8" tubing 5' above RDH packer. Mix and pump 100 lineal foot cement plug above RDH packer. Tag top of cement plug. POH laying down 2-7/8" tubing.
6) Continue with original MMS approved well procedure.

If you have any questions, please contact me.

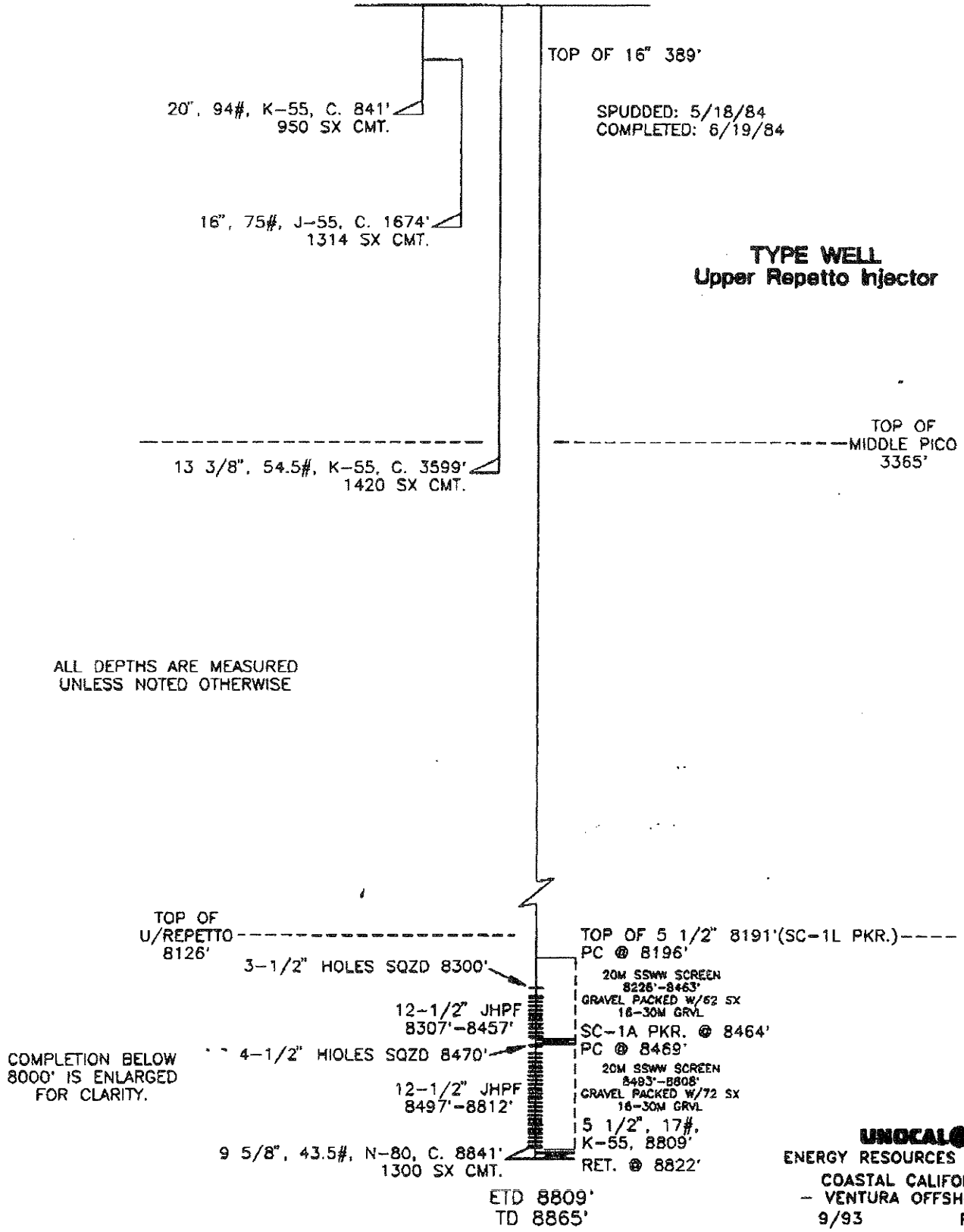
Thanks for your help.

Gary

RECEIVED
DEC - 2 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

SANTA CLARA FIELD
Platform Gilda
Well #S-28

RT: 107' **Slot #58**

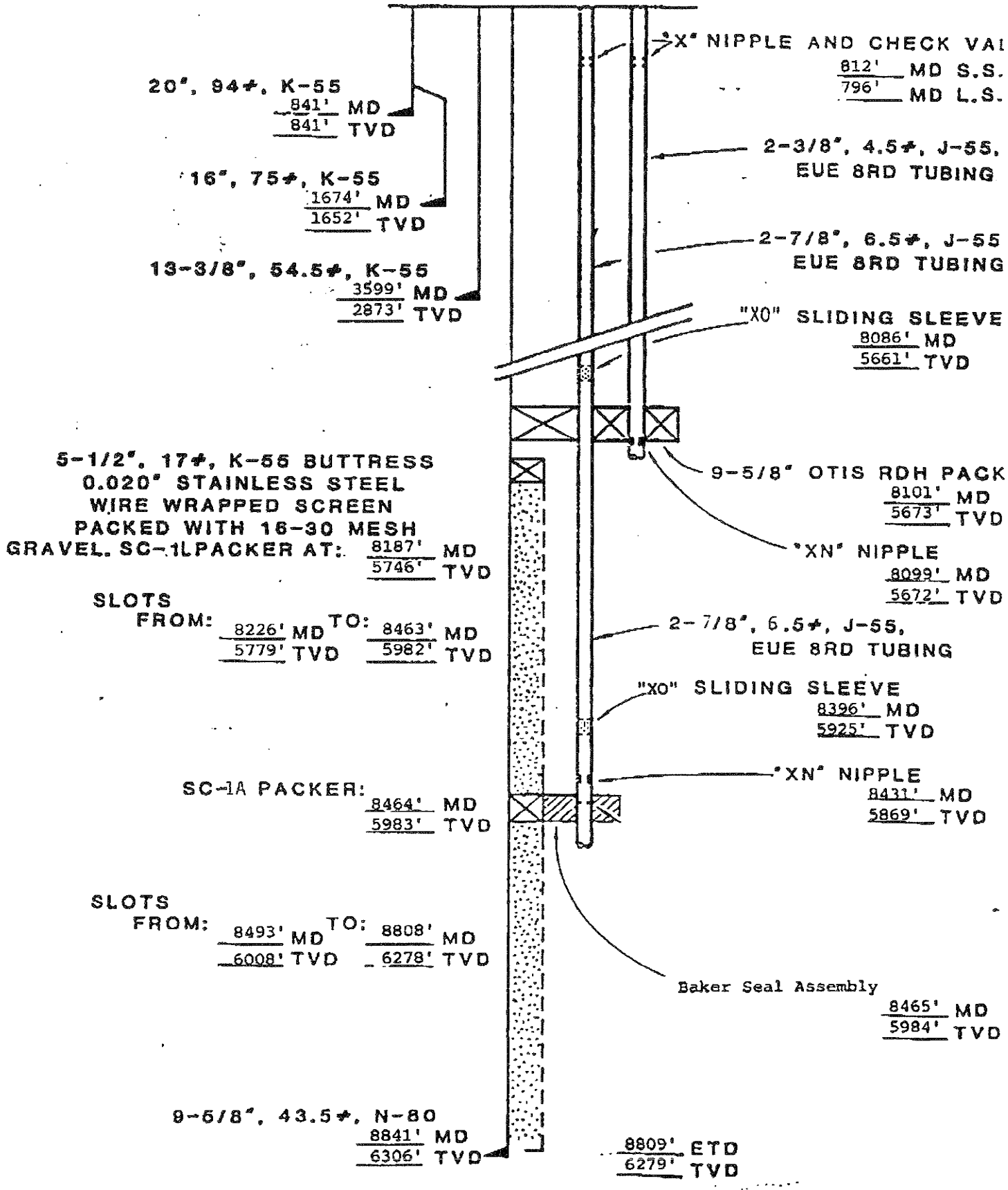


UNOCAL
ENERGY RESOURCES DIVISION
COASTAL CALIFORNIA
- VENTURA OFFSHORE -
9/93 RJDIII

PLATFORM GILDA

COMPLETION DESIGN

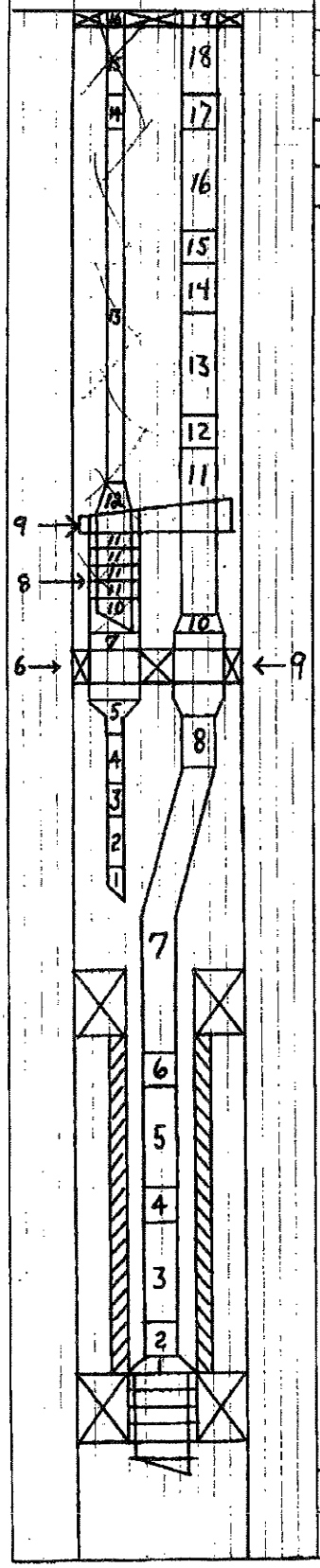
WELL S-28 (Slot 58)



OTIS COMPLETION GUIDE

OTIS ENGINEERING CORPORATION
A HALLIBURTON Company

OEC-217-E



PREPARED FOR	COMPANY	TELEPHONE	DATE
Steve Heiter	Union O.I Co.		6-18-84

FIELD NAME	WELL NAME	COUNTY	STATE	
Platform Gilda	S-28		CA.	☒NEW ☐COMPLETION ☐WORKOVER

	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	9 5/8"	47#			
LINER					

TUBING SIZE: UT 2 7/8" MT LT THREAD

DESCRIPTION	I.D.	O.D.	LENGTH	ESTIMATE OR DEPTH
Long String				
1. Baker Seal Assy. - overall	3.063	4.69	16.70	8464.96
A. Locator above SC-1 Packer			.87	8464.09
2. Catcher Sub 2 7/8" EU			.37	8463.72
3. Joint Tubing 2 7/8" EU			31.48	8432.24
4. XN Landing Nipple 2 7/8" EU	2.205		1.27	8430.97
5. Joint Tubing			31.44	8399.53
6. XO Sliding Sleeve 2 7/8" EU	2.313	3.70	3.21	8396.32
7. Tubing - Nine Joints			283.67	8112.65
8. Pup Joint 2 7/8" EU			4.10	8108.55
9. BDH Dual Packer 9 5/8" 40-47#			7.47	8101.08
10. Swedge 3 1/2" x 2 7/8" EU			.85	8100.23
11. Pup Joints - Three 2 7/8" EU			11.27	8088.96
4.10 + 3.08 + 4.09 = 11.27				
12. XO Sliding Sleeve 2 7/8" EU	2.313	3.70	3.21	8085.75
13. Joint Tubing			31.54	8054.21
14. Wireline Release Travel Joint	2.380	4.00	8.51	8045.70
15. Pup Joint 2 7/8" EU			4.07	8041.63
16. 230 Joints Tubing			7744.00	297.63
17. X Landing Nipple 2 7/8" EU	2.313	3.23	1.23	296.40
18. Tubing to surface - 23 Joints			224.81	71.59
10' pup, 8' pup, and Fatigue Nip.			18.49	53.10
19. Hanger			1.10	52.00
20. KB			52.00	0
			TOTAL ESTIMATE	

Filed with MSO# 454934
454935

PREPARED BY	OFFICE	TELEPHONE
Michael Haave	Ventura	648-3393

OTIS COMPLETION GUIDE

OTIS ENGINEERING CORPORATION
A HALLIBURTON Company

OEC-217-E

PREPARED FOR	COMPANY	TELEPHONE	DATE
Steve Heiter	Union Oil Co		6-18-84

FIELD NAME	WELL NAME	COUNTY	STATE	☒ NEW ☐ COMPLETION ☐ WORKOVER
Platform Gilda	5-28		CA.	

	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	9 5/8"	47#			
LINER					

TUBING SIZE: UT 2 3/8 | MT | LT | THREAD

See Schematic on Long String

DESCRIPTION	I.D.	O.D.	LENGTH	ESTIMATE OR DEPTH
Short String				
1. Guide Shoe 2 3/8" EU			.40	8122.97
2. Pup Joint 2 3/8" EU			6.02	8116.95
3. XN Landing Nipple 2 3/8" EU			1.26	8115.69
4. Pup Joint 2 3/8" EU			6.02	8109.67
5. Swedge 2 3/8" x 3 1/2" EU			1.12	8108.55
6. RDH Dual Packer 9 5/8" 40-47#			7.53	8101.02
7. X-over Packer to Seal Bore			.46	8100.56
8. Seal Bore Extension			7.49	8093.07
9. Scoop Head Guide - No Tally				
10. Seal Guide			.45	8111.46
11. Seal Assembly			11.09	8111.01
Two Seals - 2.32'				
Spacer - 2.67'				
Six Seals - 6.10				
12. No-Go Locator			1.11	8099.90
In Packer - .71'				8099.21
Above Packer - .40'				8098.81
13. 232 Joints Tubing		72	85.14	813.67
14. X Landing Nipple 2 3/8" EU			1.20	812.47
15. 24 Joints Tubing 2 3/8" EU		7	55.67	56.80
Pup Joint			3.70	53.10
16. Hanger			1.10	52.00
17. KB			52.00	0
Filed with MSO # 454934				
454935				
TOTAL ESTIMATE				

PREPARED BY	OFFICE	TELEPHONE
Michael Haave	Ventura	648-3393

TORCH OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

October 23, 1997

Mr. Rishi Tyagi
U.S. Department of Interior
Mineral Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RECEIVED
OCT 24 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

RE: Platform Gilda Well #S-28
Initial Sundry Notice for Approval

Mr. Tyagi:

Enclosed you will find the above referenced package for your approval, with copies as per your requirements. The following information is included in this package:

1. Initial Sundry Notice
2. Location of well with platform
3. Proximity summary sheet
4. Drilling and completion procedures
5. Casing design
6. Cement program
7. Proposed logging program
8. Well control procedure
9. Graph of anticipated pore pressures, mud weights and fracture gradients
10. Proposed mud program
11. Directional survey
12. Wellbore diagram

Feel free to call me at 805-934-8224 with any questions or comments.

Thank you,

Sabrina J. Miller

Sabrina J. Miller
Environmental Specialist

pgr. 894-5349

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28 WB01	NUEVO ENERGY COMPANY 1200 Discovery Dr., Ste 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01546

COPY TO REGION

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___	ESP Conversion	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x=1041779 7821' FEL Y=748021 3451' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Nuevo 6080	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached information for details

RECEIVED
NOV 14 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Richard F. Garcia	As Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE Richard F. Garcia	31. DATE 11/11/02

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 11/14/02

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28 WB01	NUEVO ENERGY COMPANY 1200 Discovery Dr., Ste 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01546

COPY TO REGION

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___	ESP Conversion	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x=1041779 7821' FEL Y=748021 3451' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Nuevo 6080	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached information for details

RECEIVED
MAR 12 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Sabrina J. Miller	As Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
for Sabrina J. Miller	3/8/02

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for District Supervisor

DATE 3/12/02

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

NUEVO ENERGY COMPANY
Santa Clara Field, Offshore California
OCS-P-0216
Platform Gilda
Well # S-28

LP-M & N WORKOVER PROCEDURE TO CONVERT F/FLOWING TO ESP

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft	Hole Vol (bbl) w/o tbg	Hole Vol (bbl) w/ tbg
Cond. Csg	20	Surface - 841	94.0	19.124	18.936	0.3552	---	---
Surf. Csg	16	382- 1,674	75.0	15.124	14.936	0.2222	---	---
Int. Csg.	13-3/8	Surf - 2,531	54.5	12.615	12.459	0.1545	---	---
Int. Csg.	13-3/8	2531 - 3,599	68.0	12.415	12.259	0.1457	---	---
Prod.Csg. t/TOL	9-5/8	Surf- 6,928*	43.5	8.755	8.599	0.0744	515 *	460
Prod. Lnr #1	7"	6,392-12,860'	26.0	6.276	6.151	0.0382	247	196
Prod. Lnr.	5"	12,860-14,608	15.0	4.408	4.283	0.0188	33 *	23- 2 3/8
Extension/Blk	2-3/8	13,805- 13,888	4.7	1.995	1.901	0.00387	0.5 *	
GP Assembly	2-3/8	13,888- 13,973	4.7	1.995	1.901	0.00387	0.5 *	
* Actual H.Vol. without 2-7/8" tbg in hole (Window cut in 9-5/8")							796 * bbl	
Production Tbg.	2-7/8	Surf- 13,806	6.5	2.441	2.347	0.00579		80 bbl
Circulating hole volume with 2-7/8" Tubing in hole								760 bbl

Seal Sub w/perf. hole believed to be 2' below SC-1 pkr.@ 13808' MD(according to rpt of 03/15/98)
Existing LP-M Perfs 13,896'-13,956' MD (8118'-8164' TVD)
2-3/8 x 12 Gg Screen 13,889'-13969' MD (8113'-8173' TVD)
Existing LP-N Perfs 14,349'-14,409' MD (8465'-8513' TVD)
2-3/8 x 12 Gg Screen 14,343'-14,424' MD (8461'-8524' TVD)
Last W/O Fluid: 8.65 ppg KCl (6%) Circ thru Circ.Ports (PU 2' –after snap out pkr) on 3/15/98

Bottom Hole Press./Temp. History: Last Pruett Pressure Reading in Feb. 2002 analyzed the reservoir pressure at the top of the LP "M" to be 2516 psi @ a datum level of 8118' TVD or 0.310 psi per foot. The average reservoir pressure is equal to 6.0 ppg pore pressure. The current 6% KCL completion fluid in the wellbore should provide more than enough hydrostatic to overbalance formation pressure. The bottom hole temperature is in the neighborhood of 200° F.

Intended Pump Setting Depth for the ESP = 12,280' MD
Size of production string to be run is 2-7/8", 6.5#, L-80, EUE 8rd down to the ESP setting depth
Anticipated Production Rate = ± 450 BFPD, ±400 BOPD, Gas Rate between 300-700 mcf/d

PROCEDURE

1. Skid rig to the Well #S-28 slot (slot #58, Well Room #3). ND tree. NU BOP and test according to MMS regulations.

2. Pull the hanger up approximately two feet to lift the un-loader sub above the bore of the production packer to expose the circulating port. Reverse out the wellbore with 6% KCl fluid to kill the well. The well is to be circulated until clean KCl fluid is seen at the surface.

3. POOH with the 2-7/8" tubing and the production seal assembly.

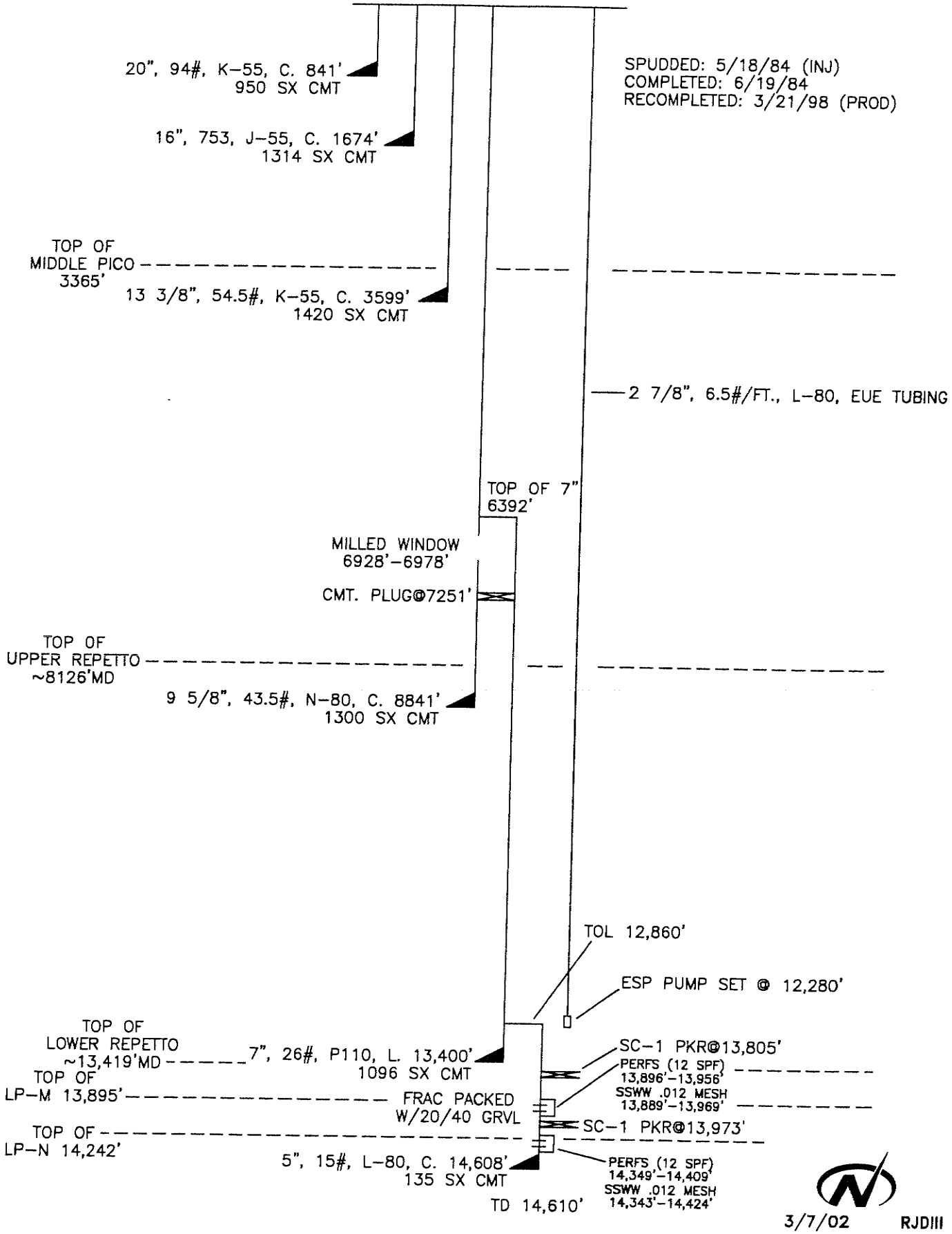
4. RIH with casing scrapers & scrape the existing 7" liner and the 9-5/8 intermediate production casing. POOH with 2-7/8" tubing string and LD same.

5. Pick up the inspected and new tubing string and RIH with ESP equipment to set at ± 12280 ft. inside the 7" production liner.

6. Space out the tubing string and land the tubing hanger. Install BPV and ND BOPE. Install tree. Remove BPV. Install the blanking plug and test the tree. Remove the blanking plug.

7. Return well to production. Verify pump operation. Set packer within 48 hours.

SANTA CLARA FIELD
Platform Gilda
Well S-28



3/7/02 RJDIII

NUEVO ENERGY COMPANY
1200 Discovery Dr., Suite 500
Bakersfield, CA 93309

(661) 395-5265
Fax: (661) 395-5298

CONFIDENTIAL

March 11, 2002

Mr. Rishi Tyagi
Minerals Management Service - District
770 Paseo Camarillo - MS 7210
Camarillo, CA 93010-6064

RECEIVED
MAR 1 7 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO

RE: Sundry Notice for Workover on Gilda S-28

Mr. Tyagi:

Enclosed for your review and approval is the above referenced project. As discussed in the project meeting between your office and Nuevo, we will handle the distribution for your office (see below) to hopefully receive approval as soon as possible.

If you have any question or comment, please feel free to contact the assigned Engineer – Brent Martin at (661) 395-5201 or myself at (661) 395-5265.

Sincerely,

Wilma Vaughn

Wilma Vaughn
Regulatory Assistant
Nuevo Energy Company

Cc: Mr. Tom Laurendine
Minerals Management Service
1201 Elmwood Back Blvd.
New Orleans, LA 70123-2394

Mr. Thomas Dunaway
Mineral Management Service - Regional
770 Paseo Camarillo MS 7200
Camarillo, CA 93010-6064

TRANSMISSION VERIFICATION REPOR

TIME : 03/12/2002 21:36

DATE,TIME	03/12 21:36
FAX NO./NAME	816613955298
DURATION	00:00:31
PAGE(S)	01
RESULT	OK
MODE	STANDARD ECM

SJS 5/19/98

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

DISTRICT
Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28 WBD1	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546 SJS

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL	ACIDIZE	FRACTURE X	PLUG BACK X	WORKOVER	COM/POW
	ALTER CASING	INITIAL COMPLETION X	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		
	CHANGE ZONE	PERFORATE X	SIDETRACK X		
SUBSEQUENT REPORT X	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3451'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached Well Summary, history and schematic for detailed final package.

CONFIDENTIAL

RECEIVED
APR 25 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980422

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE Actg District Supervisor

DATE 6/4/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

WEEKLY ACTIVITY REPORT
Period: 03/16/98 to 03/22/98

Week No. 15

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: **03/21/98**

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: n/a
15. Last BOP Test Date: 3/17/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RD surface equip. Install BPV and ND BOPE stack & riser. NU xmas tree, tested void to 5000 psi for 1/2 hour, set stinger plug in tree, tested tree to 5000 psi for 1/2 hour. RU Dowell tbg. **Test BOPE 250# low and 5000# high on 3/17/98**. RIH w/1 1/4" coiled tbg, jet @ 150 scf to 500'. Cont. RIH to 1000'. Jet well, rec. total of 6.6 bbls (oil-gas/water). Jet well @ 1500', 1800' & 2000'. Well started to flow at 0100 hrs. Flow well back until 0400 hrs. Attempt to keep rate @ 100 bpd. Jet and flow 58 bbls back in 9 hours (avg. 6.4 bph, 155 bpd). POOH w/coiled tbg. Monitor well. All seems o.k. **Release rig from S-28 @ 2400 hrs on 3/21/98.**

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 03/09/98 to 03/15/98

Week No. 14

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/05/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD:	14,610		
14. Mud Weight:	14.1		
15. Last BOP Test Date:	3/1/98	Test Pressure (psi):	250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA):	COM		

17 Summary of Operations:

RIH w/GP assembly. Run all of 2 3/8" tbg and 20 stds of 3 1/2" tbg. Rabbit tbg in hole to 13971'. Drop ball and set pkr @ 13805'. Pressure test all - o.k. Pump Dowell's Stim-Pac for the "M" interval. Monitor tbg & csg press. Underbalance between tbg & csg. Well appears to be static. Rev. circ. and shut pump down. POOH w/tbg & csg. PU and run production string - 31 jts of 2 3/8" 4.7# N-80 EUE tbg, 12288.68" Halliburton 2 7/8" LX A flapper SSSV serial #171-LL-5, 20.01'. Test valve to 5000 psi for 1/2 hour - o.k. Displace 13 ppg Bromide w/6% KCL water on annulus down to 12281'. Left 30 bbls Bromide in annulus. Cont. to displace 6% KCL water w/13# Bromide on backside. Landed hanger, backed out landing jts. PU new w/pup jts. Snapped out of SC-1 pkr. Displace 13# Bromide w/6% KCL water + inhibitor & oxygen scavenger on backside to 12281'. Left 30 bbls on backside. Landed hanger in well head. Tested stinger seals and tbg to 1000 psi - o.k.
Received verbal approval for variance on BOPE test until 1200 hrs on 3/15/98 provided that Xmas tree has not been installed by Mr. Dave Gebaur w/MMS. Variance granted @ 3/14/98 2030 hrs. Received verbal approval for BOPE extension till bromide displacement w/KCL water has been completed, tbg hanger landed, ND, & tree installed f/Rishi Tyagi w/MMS @ 2300 hrs on 3/14/98.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT Week #13
Period: 03/02/98 to 03/08/98

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 3/1/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Pump 40 bbls Hi VIS pill and follow w/13.3# caustic bromide water. Pumped 441 bbls, open annular and cont. to displace seawater w/13.3# cal. bro. water @ 4.4 bpm (750#). Circ. out gel pill and check NTU's on bro. water. Had 200+ after 66 additional bbls. Pump NTU 15, and remained 15 to 16. Cont. to circ. RIH and test **BOPE per MMS regs on 3/1/98.** POOH. Prep and RIH w/Schlumberger logging tools. RIH w/ATC & CCL to 11500' - tool failed. POOH. RIH w/Gamma Ray and CCL loggers f/14370'-14000'. Tied in RA tag w/Gamma Ray and made a 6' correction to 14424'. Re-run log to verify depth. POOH. MU Howco 3 3/8" perf gun w/12 spf. RIH w/perf gun and to 14424'. Tag sump pkr. Space out w/**btm shot @ 14409' and top shot @ 14349'.** Champ pkr and set @ 12805'. Guns fired. POOH. Lay out Baker 20/40 gravel pack screen, SC-1 pckr and MU assembly. RIH w/GP assembly to 12800' and prep for frac job. Pump frac pack, displaced w/70 bbls flush, got sand out & pressure up. Bleed down and circ. Flush clean. POOH w/5 stds. Took 22 bbls to fill hole. Monitor well and POOH. PU Howco perf gun assembly and TIH. Set pkr plug in Baker SC-1 pkr @ 13973'. Set 7" pkr @ 12733'. Pressure up and **fire guns f/13896' to 13956' w/12 spf.** Monitor well and POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/23/98 to 03/01/98

Week No. 12

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/05/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD:	14,610		
14. Mud Weight:	14.1		
15. Last BOP Test Date:	1/28/98	Test Pressure (psi):	250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA):	COM		

17 Summary of Operations:

RIH w/4.250" bit to top of liner @ 12846' and cont. in hole to 14525'. Circ. mud out of 5" liner. Pump 22 bbls Gel Sweep until fluid clean. POOH. RIH w/5", 7" & 9.625" csg scrapers & brushing tools to 14518'. M/P and pump 50 bbls caustic pill - circ. POOH. TIH and test tbg @ 7500 psi. **Note: Received verbal approval from Ralph Vasqez @ 0830 hrs. on 2/28/98 to extend BOP test until coming out of hole after changing over fluid.** Break circ. and wash to btm @ 14525' no fill. Start circ. w/FSW following with 75 bbls HI VIS Gel pill, 5 gpb Safe VIS E, 100 bbls of caustic pill mixed w/2 ppb caustic, follow w/75 bbls of FSW, follow w/100 bbls caustic pill mixed w/2 ppb of caustic and 3 drums of rinse aid, follow w/ 75 bbls of FSW, follow s/200 bbl caustic pill mixed w/2 ppb of caustic. Circ. until clean NTU's 36.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/16/98 to 02/22/98

Week No. 11

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Pressure test casing @ 2000 psi - o.k. Pressure test down tbg. to test 7" & 5" liner LAP @ 2000 psi - would blead down to 1800 psi in 10 min. Unseat pkr and POOH. CO pack off insert f/12875' to 13105'. Wash & rotate f/13105' to 14525'. Circ. hole clean & pump pill. POOH. RIH w/5.161" flutted mill and tag @ 12857'. Polish tie back sleeve & CBU. POOH. RIH w/tie back pkr. Break circ. & set tie back in place. PT seals @ 1000 psi. Set pkr TOP @ 12846'. Close rams & PT tie back to 2000 psi for 30 min. CBU & pump pill. POOH. Run Schlumberger USIT-CBT-GR-CCL from 14520' to 13400'. POOH. **Note: Notified MMS at 1130 hrs. that we would be disposing of 14.2# mud. Rishi Tyagi gave approval.** Pump 44 bbls of HI VIS Gel Sweep and circ. until clean. POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/09/98 to 02/15/98

Week No. 10

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Logged Platform Express f/14580' to 13397' on 2/10/98. POOH. W&R f/13397' to 14610'. Circ. for casing. **Began completion on 02/11/98**. Prepare to run 5" liner. Received verbal approval from MMS to hold off on BOPE test until 5" liner has been run and cemented. Run 5" 15# L-80 521 new liner w/135 sks Class "G" + 1% CD-32, 1.2% FL-1.2 + 2% SR-30 & 15.8 ppg - CIP 1010 hrs. on 2/12/98. POOH and pump pill. MU RR bit #9 and RIH w/ 3.5" DP. RIH to TOL @ 12860'. Attempt to PT liner lap - no good. 300 psi loss in 20 min. Pump pill. MU and run test plug. PT all rams, safety valves, C&K valves & choke manifold 250 low to 4700 high. Pull test plug and MU test string. PT lower pipe rams same. PT annular 250 low and 3500 high. All tests good. MU 7", 26# RTTS and RIH. RU and set packer @ 6492'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/02/98 to 02/08/98

Week No. 09

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Received verbal approval from Rishi Tyagi at MMS for new TD on 02/05/98.
Drill f/13400' to 13405' and circulate. Perform P.I.T. w/13.5 ppg & TVD of csg shoe @ 7732 & 825 psi = 15.6 ppg EMW. Cont. drilling f/13405' to 14003'. Circ.and wait on weather (high winds). Cont. drilling f/14003' to TD @ 14610'. Circ. and POOH to shoe @ 13397'. Prepare to log. TIH w/logging tools to 13321' and ran T.P. Log f/13338' to 14580'. Logging going in hole. Logging out of hole f/14580' w/T.P. Logs.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/26/98 to 02/01/98

Week No. 08

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 12.2
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

PU and set cast iron bridge plug @ 7082'. POOH to 6364'. Test lines to 3000 psi - 625.5 bpm. POOH. RIH w/ 9.625 cement retainer and set @ 6360'. Test casing above retainer to 2500 psi. Pump 25 sks Class "G" w/20 ghs CD-31L + 50 ghs FL-33L + 2 ghs R-21L + 2 ghs FP-6L to top of liner. Total cement in liner lap 12.5 bbls. Final pressure @ 1020 psi. **Estimated top of cement @ 6346'. CIP @ 0555 hrs on 1/27/98.** Pump slug & POOH. NU 13 5/8" 3000X 13 5/8" W.H. w/5000 HUB. Pressure test seals to 3000 psi. NU riser & BOP's. Install diverter. Test BOPE as per MMS regulations - 250 low & 4700 high on 1/28/98. Pressure test 5" & 3.5" annular f/250 low & 3000 high. CO cement and retainer f/6263' to top of liner @ 6393'. Circ. RIH w/BHA and tag @ 6260'. Wash to 6292'. CO cement f/6392' to 7080' (bull plug). Mill BP and chase f/7395' to 12679'. CO cement f/12679' to 12848' & mill on BP. Pump pill. CO cement f/12850 to 12905' - gas detected. Drill cement f/12905' to13371'. Test casing & liner lap @ 2500 psi for 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/19/98 to 01/25/98

Week No. 07

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Finish underreaming. Prep to run 7" 26# P110 Hyd. new csg. Mix and wt up Ultra Flush II and pump M/P 940 sks lead cmt Class "G" 12.5 wt w/2% sodium metasilicate + .8% FL-62; + .5% CD-32 + 2 ghs FP-12L, followed w/158 sks Class "G" mixed @ 15.8 w/20 ghs CD-31L; 45 ghs FL-33L; 2 ghs FP-12L. Displaced cmt w/11.9 mud to landing collar @ 13305'. Bumped plug w/2550/600 over displacement pressure. Bled to 0 psi. CIP @ 1120 hrs. on 01/22/98. RIH and tag cmt @ 3405'. Circ. Hole clean. RIH to 5442' and circ. Same. Drill cmt f/6382' to TOL @ 6392'. Circ. RU BJ and test lines to 3000 psi. MU and set test plug. Test 3.5 DP on variable rams. Test 3.5 TIW & IBOP to 3000h/250l. Test hydrill same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/12/98 to 01/18/98

Week No. 06

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Bit stacking up and unable to slide @ 12280'. Add .6% by volume S.O. lube, slide drill & rotate to 12543'. Pull to 9843'. Tight hole f/12543'-10920'. Add nut plug to enhance sliding. Pulsar on MWD failed @ 12566'. POOH to change out MWD. Move heavy wall to top of string, RIH and drill ahead to 12882'. WB indicating possible over balance. Reduce mud wt. To 11.88 ppg. Wiper trip @ 13183'. Pulled tight and had to pump stands out to 12560'. Safety ream back to bottom. Drill to 13210' and short trip to 10050' (hole much improved). **Continued drilling to 13400' (TD)**. Circ. Btms up. LD directional drilling tools & RIH w/9 7/8" underreamer. Underream to 8724'. POOH & **test BOPE per MMS specs. On 1/16/98.** Cont. RIH, washed last 90' to bottom. Underream to 8912'. Pull to shoe @ 6928'. Continue to Underream to 10519' at report time.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/05/98 to 01/11/98

Week No. 05

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 12300'
14. Mud Weight: 12
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue to survey and drill from 10260' to 12300'. Wash & ream the same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/29/97 to 01/04/98

Week No. 04

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 10260'
14. Mud Weight: 10.8
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue drilling f/7088' to 9996'. Pressure test BOPE per MMS specifications on 1/2/98. RIH w/114 jts 5" 19.5 G-105 D.P. to 4797' and continue to shoe @ 6903'. RIH to 9881' and W&R to 9996'. (Calibrated Baker depth sensor) Drill f/9996' to 10260.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/22/97 to 12/28/97

Week No. 03

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 7088'
14. Mud Weight: 9.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue milling window f/6966' to 6978'. Under-reamed open hole to 15" f/6928' to 6978'. RIH w/mule shoe on btm of 15 jts 2 7/8" tbg and 5" D.P. to 6984'. Circulate & pretreat mud. RU cementers (for kick off plug) and equalized 103 ft3 (106 sks) of 17.2 ppg, Class "G" slurry w/32 gph D-316, 7 gph R-21L and 3 gph FP-6L f/6984' to 6833' CIP @ 1450 hrs. 12/22/97. POOH and wait on cement. Tag cement stringers f/6571' to 6660', clean out f/6660' to 6978' (no kick off plug). RIH w/2 7/8" tbg and DP to 6950' - tbg plugged - attempt to unplug was no good. POOH. Tbg plugged w/metal shavings. LD & CO tbg. RU BJ and pressure test lines to 2500 psi. BJ M&P 106 sks (103 ft^3) Class "G" w/30 ghs CD-31L, 7 ghs R-21L, 2 ghs defoamer. CIP @ 1815 hrs (for kick off plug). RIH w/bit & tag hard cement @ 6800'. CO cmt f/6800' to 6928' & circ. **NOTE: Torch obtained verbal approval 12/26/97 from Ralph Vasquez w/MMS to continue operations w/3000 psi W.H. until 7" csg PT**. RIH and tag TOC @ 6928'. CO cmt f/6928' to 6930'. Slide f/6930' to 6988'. Perform LOT - 9.6 ppg/1720 psi. Drill f/6988' to 7088'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/15/97 to 12/21/97

Week No. 02

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 6966'
14. Mud Weight: 10.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Recovered total of 77 jts. of tbg while fishing (top of fish @ 7473'). RIH w/bit & scraper. Tag top of fish @ 7473' and pull bit to 7470'. Circulate and condition mud. MU 9 5/8" x 47# mechanical set drillable bridge plug on 15 jts of 2 7/8" tbg. **Set BP @ 7470' and test @ 1500 psi for 5 minutes - o.k. RU and test cement line - o.k. Mixed 90 ft^3 (78 sks) of Class "G" w/20 ghs CP-311, 4 ghs R-211 and 2 ghs FP-6 f/7470' to 7251'. CIP @ 2129 hrs 12/15/97.** POOH laying down 2 7/8" tbg tail. Prep to mill window. Set test plug (12") and test BOPE - 250L/3000H on 12/19/97. RIH w/section mill on 5" D.P. tag top of cement @ 7139'. **Mill window in 9 5/8" csg. F/6928' to 6934' on 12/19/97 @ 2400 hrs.** Continued milling to 6966', pumping Hi-Vis Sweep every 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/08/97 to 12/14/97

Week No. 01

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. Plug date: N/A
12. TD Date: N/A
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: N/A
14. Mud Weight: 10.1
15. Last BOP Test Date: 12/8/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

MIRU on 12/8/97. Full test of BOPE on 12/8/97. Displace wellbore with kill mud. Pull short string tbg, dump riser to backout hanger screws, & attempt to pull long string tbg. Tbg parted at 1488'. MU fishing tools. Unable to run dialog due to scale inside tbg. Cont. fishing operations recovering 158 joints to date.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

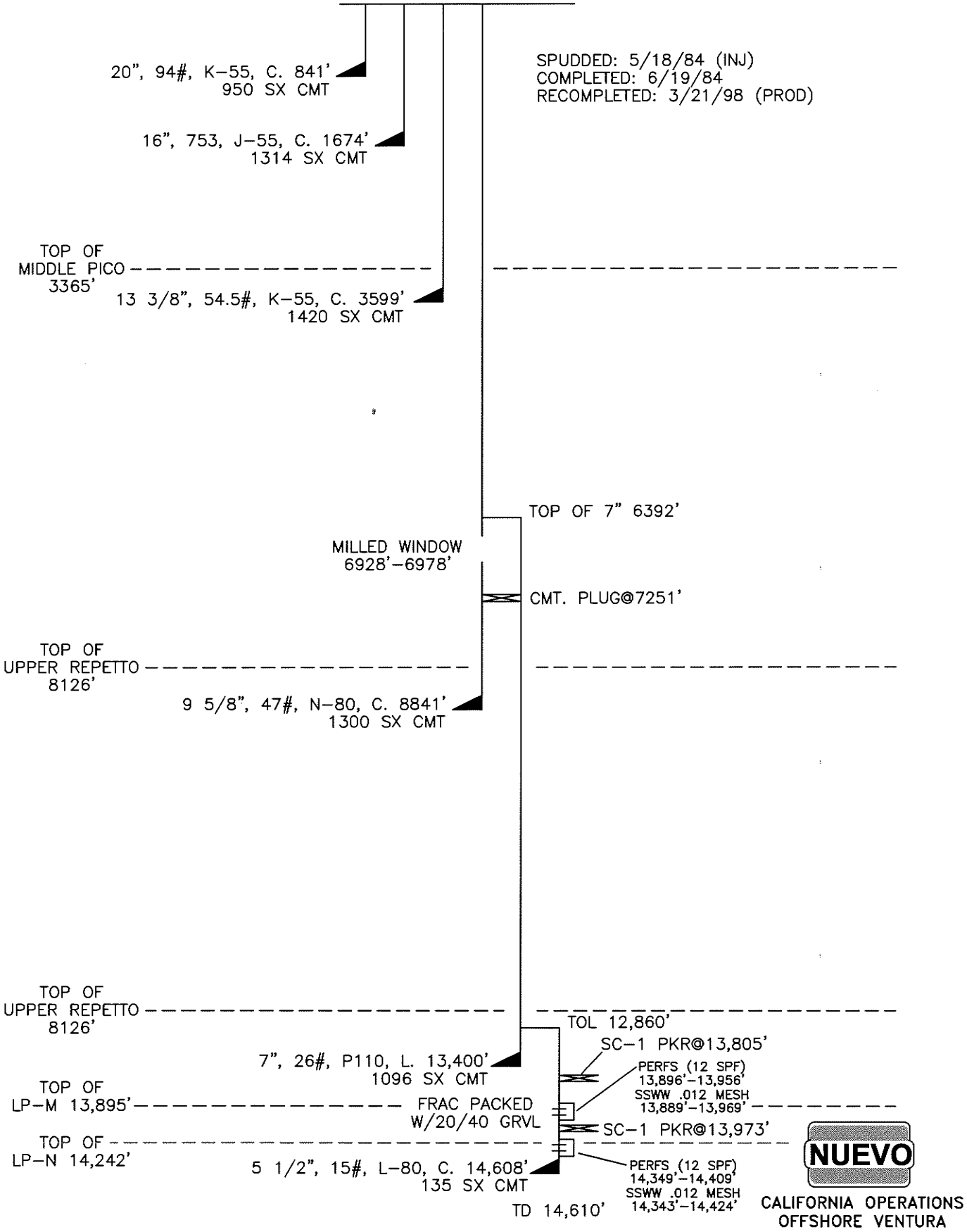
19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

SANTA CLARA FIELD
Platform Gilda
Well S-28



SJS 3/3/98

COPY TO REGION DISTRICT

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___					DRL
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___					
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___						
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X						
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___						

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3451'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch proposes to drill another 100 feet deeper in order to penetrate the entire zone and provide additional rathole for the liner. Thus, the new total depth will be approximately 14, 610 feet MD.
Torch received verbal approval from Mr. Rishi Tyagi, District Supervisor of MMS at 4:30a.m. February 5, 1998.

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CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980205

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/4/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

SJS 3/3/98

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MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

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Expiration Date:

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	891012369A	01546	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___					
APPROVAL X	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___					DRL
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___						
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X						
SUBSEQUENT REPORT	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___						

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3451'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch request's approval to postpone the next scheduled BOPE test on February 11, 1998 to a later date of February 13, 1998. This stems from deteriorating hole conditions that resulted in sticking the drill pipe and logging tools. Torch will resume BOPE testing after the 5 inch liner has been run and cemented.

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MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980210

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 2/10/98

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

SJS 2/10/98

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045

Expiration Date:

1 ORIGINAL / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
ORIGINAL ____ CORRECTION X	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ____	FRACTURE X	PLUG BACK X	WORKOVER ____			DRL
	ALTER CASING ____	INITIAL COMPLETION X	PULL CASING ____	OTHER ____			
SUBSEQUENT REPORT ____	ARTIFICIAL LIFT ____	MULTICOMPLETION ____	RECOMPLETION ____				
	CHANGE ZONE ____	PERFORATE X	SIDETRACK X				
	DEEPEN ____	PERM ABANDONMT ____	TEMPORARY ABANDONMENT ____				

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3444'FSL SJS	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ____	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch request's approval to postpone the next scheduled BOPE test on February 11, 1998 to a later date of February 13, 1998. This stems from deteriorating hole conditions that resulted in sticking the drill pipe and logging tools. Torch will resume BOPE testing after the 5 inch liner has been run and cemented.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	980210

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DATE 2/10/98

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331 and MMS-332 which will not be used

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MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

Post-it® Fax Note 7671	Date 2/10/98	# of pages ▶ 1
To Sabrina Miller	From Shannon Shaw	
Co./Dept. NUEVO	Co. MMS	
Phone # (805) 934-8224	Phone # (805) 389-7775	
Fax # (11) 937-8709	Fax # (11) 389-7784	

TORCH
OPERATING COMPANY

FAX COVER SHEET

Date:	February 10, 1998	**Time:**	1:24 PM
To:	**Shannon Shaw**	**Phone:**	(805) 389-7780
Company:	MMS	**Fax:**	(805) 389-7784
From:	Sabrina J. Miller	**Phone:**	(805) 934-8224
Department:	ES&RC	**Fax:**	(805) 937-8709

Number of pages including cover sheet: 2

Message:
I spoke with Gary Hertfelder today regarding this Sundry Correction and it is my understanding that you are expecting this fax.

Shannon, can you give me a call when you are going to fax this back with approval? I would appreciate it. Sometimes it never quite makes it back to me.

Feel free to call with any question or comment.

Thanks



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MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with DISTRICT
one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___	~~COMA/WW~~ DRL SJS
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 S03541E07821	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch proposes to convert the existing 3,000 psi wellhead assembly to a 5,000 psi wellhead assembly by installing a barrier seal in the upper bowl of the 3,000 psi wellhead and then placing a 13-5/8"-3,000 psi by 13-5/8"- 5,000 psi tubing spool on top of the 3,000 psi unitized wellhead assembly. The attached drawing shows the wellhead conversion components. After installation, Torch will test the BOPE equipment to 5,000 psi. The wellhead conversion will be performed after the 7" casing has been cemented in place and prior to drilling out the shoe of the 7" casing.

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JAN 23 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980121

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DATE 2/4/98

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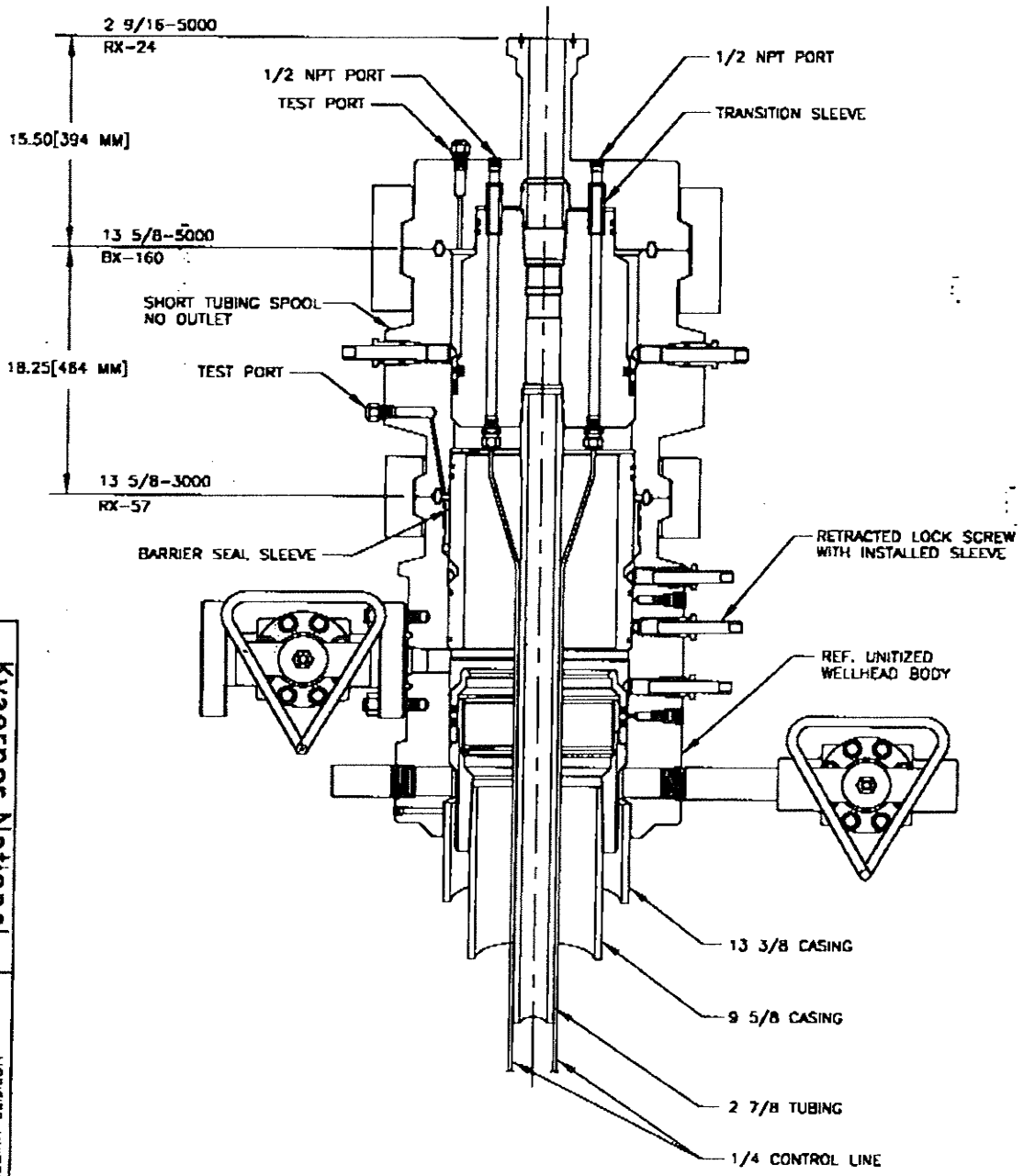
Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

ATTN: GREG HERTFELDER

805-937-0237

FINAL DRAWING PARTS SHOULD BE COMPLETED 1/16/98 DPM



Kvaerner National

HOUSTON, TEXAS U.S.A.
HOUSTON ENGINEERING

MODIFIED UNITIZED WELLHEAD SYSTEM
13 5/8-5M W/ BARRIER SEAL F/5000 WP X
13 5/8-5M X 2 9/16-5M CUP HUB

SJS 2/3/98

DISTRICT COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

CONFIDENTIAL one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER		~~COMA/IW~~ DRL SJS
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER		
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION				
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X			
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT				

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3541'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

After installation of the 5M BOPE and in preparation for testing, Torch personnel discovered that the National Unihead wellhead system is only rated for 3,000 psi. Thus, the BOPE was tested to 3,000 psi. on Dec. 19, 1997. Ralph Vasquez, MMS, was notified on Friday December 26, 1997 of this variance. The original application submitted to the MMS indicated that Torch would test the BOPE to 4,800 psi. or 80% 0f the casing burst pressure. Torch now proposes to continue to drill and conduct 3,000 psi BOPE testing until equipment is ready to convert the wellhead to 5,000 psi. rating. Torch does not anticipate any saftey concerns because offset Lower Repetto wells shut-in tubing pressures are 2,000 psi.

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111

RECEIVED
JAN 13 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy

30. AUTHORIZING SIGNATURE	31. DATE
	980112

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/4/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

COPY TO REGION SJS 2/3/98

DISTRICT
CONFIDENTIAL
Submit original plus three copies with one copy marked "Public Information"

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
ORIGINAL ___ / CORRECTION X	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___					~~COM/W/W~~ DRL SJS
APPROVAL X	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___					
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___						
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X						
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___						

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3541'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Squeeze Liner Lap: The 7" liner lap test was unsuccessful. After pumping 13.7 barrels drilling fluid, the final injection rate was 1 BPM at 2100 psi. Torch now proposes the following corrective actions to repair the leaking lap. 1) Set a bridge plug in the 7" casing at 7078 ft. 2) Retest liner lap and establish injection rate. 3) Set cement retainer in 9-5/8" casing at 6362 ft. and squeeze 75 sacks of Class "G" cement through retainer. 4) Drill out cement retainer and retest lap to 2500 psi. 5) If liner lap test unsuccessful, Torch proposes to set a liner top isolation packer and retest liner lap to 2500 psi. 6) Drill out bridge plug in 7" casing and continue with original procedure.

RECEIVED
JAN 27 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	980126

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 1/26/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

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SJS 1/26/98

MINERALS MANAGEMENT SERVICE **CONFIDENTIAL** OMB No. 1010-0045
SUNDRY NOTICES AND REPORTS ON WELL Submit original plus three copies with one copy marked "Public Information" Expiration Date:

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	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	891012369A	01546	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___			~~COMAWIW~~ DRL
APPROVAL X	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___			
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___				
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X				
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___				

WELL AT SURFACE

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X=1041779 Y=748021 7821'FEL 3541'FSL	P-0216	6B	4861	6B

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NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

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Squeeze Liner Lap: The 7" liner lap test was unsuccessful. After pumping 13.7 barrels drilling fluid, the final injection rate was 1 BPM at 2100 psi. Torch now proposes the following corrective actions to repair the leaking lap. 1) Set a bridge plug in the 7" casing at 7078 ft. 2) Retest liner lap and establish injection rate. 3) Set cement retainer in 9-5/8" casing at 6362 ft. and squeeze 75 sacks of Class "G" cement through retainer. 4) Drill out cement retainer and retest lap to 2500 psi. 5) If liner lap test unsuccessful, Torch proposes to set a liner top isolation packer and retest liner lap to 2500 psi. 6) Drill out bridge plug in 7" casing and continue with original procedure.

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Gary Hertfelder	(805) 739-9111
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John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
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DATE 1/26/98

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FAX

Date 1/26/98

Number of pages including cover sheet 2

TO: Shannon Shaw
MMS

Phone
Fax Phone 389-7184

FROM: Sabrina Miller
NUEVO/Torch Operating
201 S. Broadway
Orcutt, CA 93455

Phone 805-934-8324
Fax Phone 805-937-8709

RE: Dlt Gilda S-28

REMARKS: ☐ Urgent ☐ For your review ☐ Reply ASAP ☐ Please Comment

SJS 1/13/98

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

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OMB No. 1010-0045
Expiration Date:

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8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	891012369A	01546	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL x	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION		
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X	
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT		DRLG.

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3541'FSL	P-0216	6B	4861	6B

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NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

After installation of the 5M BOPE and in preparation for testing, Torch personnel discovered that the National Unihead wellhead system is only rated for 3,000 psi. Thus, the BOPE was tested to 3,000 psi. on Dec. 19, 1997. Ralph Vasquez, MMS, was notified on Friday December 26, 1997 of this variance. The original application submitted to the MMS indicated that Torch would test the BOPE to 4,800 psi. or 80% Of the casing burst pressure. Torch now proposes to continue to drill and conduct 3,000 psi BOPE testing until equipment is ready to convert the wellhead to 5,000 psi. rating. Torch does not anticipate any saftey concerns because offset Lower Repetto wells shut-in tubing pressures are 2,000 psi.

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980112

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DATE 1/14/98

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH
OPERATING COMPANY

RECEIVED
JAN - 8 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

FAX COVER SHEET

Date:	December 30, 1997	**Time:**	5:30 PM
To:	**Khaleeq Siddiqui**	**Phone:**	805-389-7775
Company:	MMS	**Fax:**	805-389-7784
From:	Gary P. Hertfelder	**Phone:**	805-934-8208
Department:	Drilling	**Fax:**	805-937-0237

Number of pages including cover sheet: 1

SITP ≐ 2000 psi after 20+ days.

Subject: Well S-28, Platform Gilda, Santa Clara Field

After installation of 5M BOPE and in preparation for testing, Torch personnel discovered that the National Unihead wellhead system is only rated for 3,000 psi. Thus, the BOPE was satisfactorily tested to 3,000 psi. on December 19, 1997. The original program submitted to MMS indicated that the BOPE should be tested to 4,800 psi (80% of 9-5/8", 47#, N-80 casing burst pressure). Ralph Vasquez, MMS, was notified on Friday December 26, 1997, of this variance. Ralph had indicated that we must contact you to determine if a Sundry Notice is required for the variance in the BOPE test.

Further research determined that the S-28 well was completed as an Upper Repetto injector and like other Upper Repetto and Middle Repetto producing wells had been equipped with 3,000 psi National Unihead wellhead systems. The previously drilled Lower Repetto wells have utilized a 5,000 psi. National Unihead wellhead system. Since this S-28 Sidetrack well is to be completed in the Lower Repetto, Torch is planning on converting the wellhead to 5,000 psi rating after the 7" casing is cemented at the of top of the Lower Repetto zone at approximately 13416 ft. MD/ 7750 ft. TVD and prior to drilling out the shoe of the 7" casing. National will supply Torch with several alternatives for converting the 3,000 psi Unihead system to a 5,000 psi system. After the wellhead is properly installed and tested, Torch will test the BOPE to 4800 psi. as indicated in the original program submitted to the MMS.

A Sundry Notice will be submitted to the MMS as soon as the most appropriate method is determined to convert the wellhead.

If you have any questions, please contact me.

Gary

TORCH
OPERATING COMPANY

FAX COVER SHEET

Date:	January 12, 1998	**Time:**	2:19 PM
To:	**Shannon Shaw**	**Phone:**	(805) 389-7780
Company:	MMS	**Fax:**	(805) 389-7784
From:	Sabrina J. Miller	**Phone:**	(805) 934-8224
Department:	ES&RC	**Fax:**	(805) 937-8709

Number of pages including cover sheet: 2

Message:
Please accept the attached Corrected Sundry Notice submitted for your approval. This is per your conversations with Gary Hertfelder on Plat. Gilda, Well #S-28WB01. Hard copies will follow by Federal Express to you.

Feel free to call with any question or comment.

Sabrina Miller

SJS 12/23/97

COPY TO REGION

DISTRICT

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

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	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER		COM/WIW
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER	
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION			
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X		
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT			

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 S03541E07821	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch was unsuccessful in the recovery of complete 2 7/8" tubing and RDH packer. Top of tubing fish at 7473'. Thus, Torch proposes the following changes to the procedure:

1. Set permanent bridge plug at 7470'.
2. Equalize a 100 lineal ft. (35 sack) Class 'G' cement plug from 7470' to 7370'.
3. RIH and tag top of cement plug.
4. Continue with original procedure

Received verbal approval from Mr. Dale Roberts - MMS at 0725 hrs. 12/15/97.

RECEIVED
DEC 16 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	9712015

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APPROVED BY _____ TITLE Acting District Supervisor

DATE 12/23/97

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TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-28 (slot #58)
December 11, 1997

Proposed TD: 8592' TVD / 14500' MD

Surface Location: Slot No. 58
X= 1041778.5 Y= 748020.5

Subsurface Location: 7385 ft. FNL and 662 ft. FWL of OCS-P0215 at 8592' TVD.
X= 1050315 Y=753324

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	MD (ft)	TVD (ft)	SS (ft)	Est Pressure (psi)
LP-1	7092	4927	4820	1200-1500
LP-A	9732	6037	5930	3100-3200
LP-B	10214	6232	6125	3100-3200
LP-E	12291	7072	6965	3100-3200
LP-K	13416	7749	7642	5000-5500
LP-L	13747	8007	7900	5000-5500
LP-M	13876	8107	8000	5000-5500
LP-N	14242	8392	8285	5000-5500
LP-N	14500	8592	8485	5000-5500

Existing Casing Program:

Casing	Setting Depth (ft. MD)
20", 94#, J-55, Vetco RL-4S	0'-841'
16", 75#, J-55, Buttress	389'- 1674'
13-3/8', 54.5#, K-55, Buttress	0'- 3599'
9-5/8", 47#, N-80, Buttress	0'- 8841'

Proposed Casing Program:

Casing	Setting Depth (ft. MD)
7', 26#, S-95, Hydril 521	6500'- 13416'
5", 15#, S-95, Hydril 521	13000'- 14499'
2-7/8" SSWR screen liner, packed w/ 20-40 sd.	13300'- 14499'

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 and TESCO portable top drive over slot #58.

2. RU Wireline unit. Remove "PXN" plug at 8115.69' MD from 2-3/8" short string.

3. RU on 2-7/8" long string. Fill casing annulus. Circulate well with 12 ppg mud down 2-7/8" tubing taking returns up through 2-3/8" short string.

4. With both the 2-3/8" tubing, 2-7/8" tubing and the casing annulus open, shut down and observe well for thirty minutes. If well is completely dead proceed to next step.

5. RU wireline unit and install "PXN" blanking plugs in the 2-3/8" tubing at 8115.69' MD and 2-7/8" tubing at 8430.97' MD. Test each string to 1,000 psig. RD wireline unit.

6. Install BPV and ND production tree. Install riser, 13-5/8", 5000 psi single gate and double gate blowout preventers, 13-5/8", 5000 psi annular blowout preventer, diverter, bell nipple, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Test the blind rams and casing to 250 psi and 1000 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

7. RU wireline unit and pull blanking plugs from each of the tubing strings. RD and release wireline unit.

8. POH with 2-3/8" short string and LD. PU 20,000 lbs over string weight on 2-7/8" long string and unset Otis RDH packer set at 8101' MD. POH with 2-7/8" long string and packer.

Note:
If packer does not pull free. Re-land tubing. MU and RIH with chemical cutter and cut 2-7/8" tubing 90' below packer. POH with wireline. PU on 2-7/8" tubing and recover packer. If packer is not free, RIH with chemical cutter and cut 2-7/8" tubing pup joint 5' above packer. POH with wireline. MU and RIH with fishing assembly. Jar packer free and POH. LD 2-7/8" tubing.

Table 1: Fishing BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Overshot, 150	2	2	4.125	4.125		6.5		2 ½ EUE
Bumper Sub	12	14		6.25	2.25	6.25	4 ½ IF Pin	4 ½ IF Box
Fishing Jars	12.2	26.2		6.25	2.25	6.25	4 ½ IF Pin	4 ½ IF Box
DC	120	146.2		6.5	2.25	6.5	4 ½ IF Pin	4 ½ IF Box
Accelerator	13.5	159.7		6.25	2.25	6.25	4 ½ IF Pin	4 ½ IF Box
Tubing	7942	8101.7		2.875	2.441	3.5	2 ½ EUE	2 ½ EUE

9. MU and RIH with 8-1/2" bit and 9-5/8" casing scraper on 5" DP to 7470' MD.

10. MU and RIH with 9-5/8" Baker permanet bridge plug on DP. Set bridge plug at 7470' MD. Close rams and pressure test brige plug to 1,000 psig. for 30 minutes.

11. Release from bridge. Equalize 35 sack Class "G" cement plug on top of bridge plug. PU 5 stands and reverse DP clean. Circ and build mud volume for milling. POH. WOC 4 hours. RIH and tag TOC. MMS to witness tagiing TOC. POH.

Table 2: Abandonment Cement

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	35	15.8	1.17

12. MU and RIH with 7-1/2" Section Mill, 6-1/2" shock absorber, 8 6-1/2" DC's, HWDP and 5" DP. Mill section from 6940' MD to 6990' MD. Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program and table below for fluid properties for milling section.

Table 3: Section Milling BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Section Mill	6	6		7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 4: Milling Fluid

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
Gel/Seawater	8.5- 10	28-50	N/A	0-15	0-15	0-6	<6

13. MU and RIH with underreamer. Open hole to 15" from 6940' to 6990'. POH.

Table 5: Underreaming BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	15	7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

14. MU and RIH with OE 2-7/8" tubing tail on 5" drill pipe to 6990' MD. Equalize a 106 sacks Class "G" cement plug. Precede cement with 20 bbls sea water. Displace cement with mud. POH.

Table 6: KOP Cement

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	106	17.2	.97

15. MU and RIH with 8-1/2" bit, 8 6-1/2" DC's and 5" DP. Dress off cement plug to 6942' MD. POH.

16. MU and RIH with 8-1/2" bit and steerable directional assembly. Directional drill from KOP of 6942'MD/4840' TVD to 6962' MD/4850' TVD as per BHI directional program. Conduct formation leak of test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. RU Petrolog mudloggers, John Williams. Change hole over to Glycol Enhanced Mud system. Continue to directionally drill to 7042' MD. Circ hole clean and POH to pick up RWD (Reaming While Drilling Tool).

Table 7: Directional Drilling BHA for 8-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection Bottom	Connection Top
Bit	1	1	8.5					4 ½ R Pin
Motor	26	27	8.375	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	32	8.375	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
CSNM DP	10	42		4.5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2	44		6.75	2.875		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	40	84		6.75			4 ½ IF Box	4 ½ IF Box
NMCS DP	31	115		5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	385		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	420		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1650		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9217		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4199	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

Table 8: Drilling Fluid GEM

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
GEM (glycol)	9.6-12.5	40-50	4-7	15-20	10-30	9-15	<6

17. MU and RIH with SRWD and steerable directional drilling assembly. Turn well to N47.25E and build angle at 4 deg/100 ft. until 66.14 degrees inclination. Hold angle at 66.14 degrees until reraching drop point at 12375' MD/7105' TVD. Drop and turn well as per BHI directional plan until reaching 13416' MD/7749' TVD (top of LP-K interval). Circulate and condition mud and hole for running casing.

Table 9 : SRWD BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection Bottom	Connection Top
Bit SRWD	1	1	8.5					4 ½ R Pin
Motor M1XL	26	27	8.375	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	32	8.375	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
CSNM DP	10	42		4.5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2	44		6.75	2.875		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	40	84		6.75			4 ½ IF Box	4 ½ IF Box
Nortrack Stab	5	115	8.375	6.75	2.875		4 ½ IF Pin	4 ½ IF Box
NMCS DP	31	146		5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	416		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	451		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1681		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9248		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4168	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

NOTE: If bottom turn and drop is not achievable with SRWD tool, POH and RIH with 8-1/2" tri-cone drill bit to finish drop and turn. Then pick up underreamer as per BHA in Table 10 below and open hole to 9-1/2" r\prior to running casing.

Table 10: Underreaming BHA for 9-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	9.5					4 ½ R Pin
Roller reamer	5	11	8.25	6.75			4 ½ R Box	4 ½ IF Box
HWDP	270	281		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	316		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1546		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9113		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4303	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

18. Rig up the Wiggins casing crew. MU and RIH with approximately 7000 ft. of 7 ", 26#, S95, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 9-5/8" X 7" hydraulic liner hanger and tie back receptacle to 13416' MD/ 7749' TVD'.

    a) Use a auto fill float shoe and float collar 2 joints above the shoe.

    b) Place a slip-on rigid centralizer 10' above the shoe and then on every collar to the 9-5/8" casing. Use rigid centalizers in 9-5/8" x 7" liner lap.

Table 11: Casing Program for 7"

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe, "FS"	2.10	2.10			7		Hyd 521 Box
1 Jt. 7" casing	40	42.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	7	3	7	Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	40	84.3	7		7.303	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1				Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	6840	6926.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	6931.1				Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	6934.1					
Tie Back	6.25	6940.35					
Jars, Dailey	35	6975.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	8475.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	4941	13416.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 12: 7" Casing Properties

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
7	26	S-95	HYD 521	8600	5890	717,000	568,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum (ft-lb)	Conn. Yield Torque (ft-lb)
5,200	6,000	51,000

19. Rig up cementers and cement the 7" casing as follows:

20. Pump 20 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg. Mix and pump 580 sacks of lead cement (12.5 ppg) followed by 91 sacks of tail cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Table 13: Cement for 7" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	581	12.5	2.09
"G" + additives	91	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

21. MU and RIH with 8 1/2" bit, 3 6-1/2" DC's and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test liner top to 2500 psig for 30 minutes. POH.

22. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig.

23. Increase mud weight to 13.5ppg before drilling out casing shoe. Drill out float shoe and 10 ft of new formation. Perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

Table 14: Drilling Fluid for 6-1/8" Hole Section

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq. ft.)	Solids (%by vol)
GEM (glycol)	13.5-14.5	40-50	4-7	10-20	10-30	9-15	4-6

24. MU and RIH with directional assembly. Directionally drill from 7" casing shoe at 13416' MD/ 7749' TVD to total depth of 14499' MD/ 8592' TVD as per BHI directional program. Circulate and condition mud and hole for logging.

Table 15: Directional Drilling BHA for 6-1/8" Hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.5					3 ½ R Pin
Motor, M1C	19	20	6.25	4.75			3 ½ R Box	3 ½ IF Box
Stabilizer	4.5	24.5	6.25	4.75	2.25		3 ½ IF Pin	3 ½ IF Box
NM DC	15	39.5		4.75	2.687	4.75	3 ½ IF Pin	3 ½ IF Box
NMCS DP	30	69.5		4.75	2.75		3 ½ IF Pin	3 ½ IF Pin
Hangoff Sub	4	73.5		4.75	2.75	4.75	3 ½ IF Box	3 ½ IF Box
HWDP	270	343.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	378.5		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	1008.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8458.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8461.5		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6038	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

25. Rig up Schlumberger loggers and log well. RD loggers.

26. MU and RIH with underreamer and open 6-1/8" hole to 8" from 7" casing shoe at 13416' MD to TD of 14499' MD. Circulate and condition mud for running casing.

Table 16: Underreaming BHA for 8" hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	5	5	8	4.75				3 ½ R Pin
Roller reamer	5	10	8	4.75			3 ½ R Box	3 ½ IF Box
HWDP	270	280		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	315		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	945		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	6900	7845		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	7848		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6651	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

27. Rig up the Wiggins casing crew. MU and RIH with approximately 1500 ft. of 5 ", 18#, S95, flush joint casing with float shoe, landing collar/float collar placed 1 joint from bottom, 7" X 5" hydraulic liner hanger and tie back receptacle to 14499' MD/ 8592' TVD.

Table 17: Casing Program for 5" Liner

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe, "FS"	2.10	2.10			5		Hyd 521 Box
1 Jt. 5" casing	40	42.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	40	84.3	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	1282	1368.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	1373.1	6.18	5.25		Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	1376.1	5.82	5.0			
Tie Back	6.25	1382.35	5.75	5.0			
Jars, Dailey	35	1417.35	4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	900	2317.35	3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G-105	6182	8499.35	3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8502.35	5	4.276	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G-105	5997	14499.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 18: Casing Properties for 5"

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
5	18	S-95	HYD 521	12,040	11,880	501,000	433,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum(ft-lb)	Conn. Yield Torque (ft-lb)
6,100	7,000	23,500

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every joint of the 7" casing. Use rigid centalizers in 7" x 5" liner lap.

28. Rig up cementers and cement the 5" casing as follows:

A) Pump 10 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 317 sacks of Class "G" cement (15.8 ppg). Actual volume should be based on the open hole caliper log.

Table 19: Cement for 5" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	138	15.8	1.15

Note:
1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

29. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, HWDP 3-1/2" and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test 5" liner lap to 2500 psig. POH.

Table 20: Liner Lap Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.125					2 3/8 R Pin
Bit Sub	2.5	3.5		4.75	2.5		2 3/8 R Box	3 ½ IF Box
DC	90	93.5		4.75			3 ½ IF Pin	3 ½ IF Box
HWDP	900	993.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8443.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8446.5		5	2.5	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6053	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

30. MU and RIH with 4-1/8" bit, 3 3-1/8" DC's, 2-7/8" DP, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. POH LD drill pipe.

Table 21: Liner Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	4.125					2 3/8 R Pin
Bit Sub	2.5	3.5		3.5	1.5		2 3/8 R Box	NC26 Box
DC	90	93.5		3.5	1.5		NC26 Pin	NC26 Box
DP, 6.65#, G	1500	1593.5		2.375	2.0625	3.125	NC26 Pin	NC26 Box
Crossover	2.5	1596		3.5			NC26 Pin	3 ½ IF Box
DP, 15.50#, G	6900	8496		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8499		5		5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6000	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

32. Release rig to production department for completion.

TCHs28.WPD

TORCH
OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

(805) 739-9111
Fax: (805) 937-8709

December 15, 1997

Mr. Shannon Shaw
U.S. Department of Interior MMS
770 Paseo Camarillo
Camarillo, CA 93010

RE: Correction Sundry Notice (#2) for
Platform Gilda Well #S-28

Mr. Shaw:

Please accept the enclosed information as referenced above. There are 4 copies (1 is 'Public Information' copy) as per your requirements. A verbal approval was given by Mr. Dale Roberts per our Drilling Engineer.

If you have any comment or question, please feel free to contact me at (805) 934-8224.

Thank You,

Sabrina J. Miller
Environmental Specialist

SJS 12/4/97

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL / CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
~~P-0215~~	6B	~~4860~~	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE	FRACTURE X	PLUG BACK X	WORKOVER	COM/WIW
	ALTER CASING	INITIAL COMPLETION X	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		
	CHANGE ZONE	PERFORATE X	SIDETRACK X		
SUBSEQUENT REPORT	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 S03541E07821	P-~~0216~~	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached procedure with revision to plugging procedure. ~~Received verbal approval from Shannon Shaw with the MMS, on 12/02/97.~~

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	971204

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 12/4/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-28 (slot #58)
November 3, 1997

Proposed TD: 8592' TVD / 14500' MD

Surface Location: Slot No. 58
X= 1041778.5 Y= 748020.5

Subsurface Location: 7385 ft. FNL and 662 ft. FWL of OCS-P0215 at 8592' TVD.
X= 1050315 Y=753324

Elevation: 205' WD, 107' Above MLLW, 312' KB

Zone	MD (ft)	TVD (ft)	TVDSS	Est. Pressure
LP-I	7497	5002	4895	1200-1500
LP-A	10640	6077	5970	3100-3200
LP-B	11518	6417	6310	3100-3200
LP-E	12745	7156	7050	3100-3200
LP-K	13568	7777	7670	5000-5500
LP-L	13864	8007	7900	5000-5500
LP-M	13993	8107	8000	5000-5500
LP-N	14539	8592	8285	5000-5500

Existing Casing Program:

Casing	Setting Depth (MD)
20", 94#, J-55, Vetco RL-4S	0'-841'
16", 75#, J-55, Buttress	389'- 1674'
13-3/8', 54.5#, K-55, Buttress	0'- 3599'
9-5/8", 47#, N-80, Buttress	0'- 8841'

Proposed Casing Program:

Casing	Setting Depth (MD)
7', 26#, S-95, Hydril 521	6500'- 13416'
5", 15#, S-95, Hydril 521	13000'- 14499'
2-7/8" SSWR screen liner, packed w/ 20-40 sd.	13300'- 14499'

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 and TESCO portable top drive over slot #58.

2. RU Wireline unit. Pull "XBR" injection valve at 796' MD from 2-7/8" long string. RIH and close "XO" Sliding sleeve at 8396.32'.

3. Run and set "XPN" blanking plug in "XN" nipple at 8115.69' TVD in 2-7/8" long string.

4. RU pump and pressure test 2-7/8" tubing to 1,000 psig for 30 minutes. RU on 2-3/8" tubing and pressure test to 1,000 psig for 30 minutes.

5. Install BPV and ND production tree. Install riser, 13-5/8", 5000 psi single gate and double gate blowout preventers, 13-5/8", 5000 psi annular blowout preventer, diverter, bell nipple, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Install test plug and pressure test the blind rams and pipe rams to 250 psi and 4700 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

6. MU and RIH with chemical cutter and cut 2-3/8" short string 5' above RDH packer. POH with wireline. POH laying down 2-3/8" tubing.

7. MU and RIH with chemical cutter and cut 2-7/8" long string 5' above RDH packer. POH with wireline. RD wireline unit.

8. Fill casing annulus with seawater. Close rams and pressure test 9-5/8" casing to 1,000 psig for 30 minutes.

9. PU 2-7/8" tubing 5 feet. RU BJ cementers and equalize 35 sack Class "G" cement plug on top of RDH packer. PU 5 stands and reverse tubing clean. WOC 4 hours. RIH and tag cement top. MMS to witness tagging of cement top. POH laying down 2-7/8" tubing.

Table 1

Cement Type	Volume, sacks	Density, ppg	Yield, ft³/sack
"G" + additives	35	15.8	1.17

10. MU and RIH with 7-1/2" Section Mill, 6-1/2" shock absorber, 8 6-1/2" DC's, HWDP and 5" DP. Mill section from 6940' MD to 6990' MD. Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program and table below for fluid properties for milling section.

Table 2: Section Milling BHA

Section Mill	6	6		7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 3: Milling Fluid

Gel/Seawater	8.5- 10	28-50	N/A	0-15	0-15	0-6	<6

11. MU and RIH with underreamer. Open hole to 15". POH.

Table 4: Underreaming BHA

Underreamer	6	6	15	7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

12. MU and RIH with OE 2-7/8" tubing tail on 5" drill pipe to 6960' MD. Equalize a 106 sacks Class "G" cement plug. Precede cement with 20 bbls sea water. Displace cement with mud. POH.

Table 5: KOP Cement

"G" + additives	106	17.2	.97

13. MU and RIH with 8-1/2" bit, 8 6-1/2" DC's and 5" DP. Dress off cement plug to 6942' MD. POH.

14. MU and RIH with 8-1/2" bit and steerable directional assembly. Directional drill from KOP of 6942'MD/4840' TVD to 6962' MD/4850' TVD as per BHI directional program. Conduct formation leak of test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. RU Petrolog mudloggers, John Williams. Change hole over to Glycol Enhanced Mud system. Continue to directionally drill to 13416

MD/7749' TVD (20' above of LP-K interval 13469' TMD/ 7777' TVD. Do not drill into top of "K" interval. Neuevo Geologist, David White, to pick casing point. Circ hole clean and POH.

Table 6: Directional Drilling BHA for 8-1/2" Hole

Bit	1	1	9.5					4 ½ R Pin
Motor	21.5	22.5	8.25	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	27.5	8.25	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
NMCS DP	10	37.5		5	2.687	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2.5	40		6.25	2.75		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	45	85		6.75			4 ½ IF Box	4 ½ IF Box
NMCS DP	30	115		6	2.75	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	385		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	420		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1650		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9217		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4199	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

Table 7: Drilling Fluid GEM

GEM (glycol)	9.6-12.5	40-50	4-7	15-20	10-30	9-15	<6

15. MU and RIH with underreamer and open hole to 9.5" from KOP to top 13416'MD/7749' TVD. Circulate and condition mud for running casing.

Table 8: Underreaming BHA for 9-1/2" Hole

Underreamer	6	6	9.5					4 ½ R Pin
Roller reamer	5	11	8.25	6.75			4 ½ R Box	4 ½ IF Box
HWDP	270	281		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	316		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1546		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9113		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4303	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

16. Rig up the Wiggins casing crew. MU and RIH with approximately 7000 ft. of 7 ", 26#, S95, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 9-5/8" X 7" hydraulic liner hanger and tie back receptacle to 13416' MD/ 7749' TVD'.

a) Use a auto fill float shoe and float collar 2 joints above the shoe.

b) Place a slip-on rigid centralizer 10' above the shoe and then on every collar to the 9-5/8" casing. Use rigid centalizers in 9-5/8" x 7" liner lap.

Table 9: Casing Program for 7"

Float Shoe, "FS"	2.10	2.10			7		Hyd 521 Box
1 Jt. 7" casing	40	42.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	7	3	7	Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	40	84.3	7		7.303	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1				Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	6840	6926.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	6931.1				Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	6934.1					
Tie Back	6.25	6940.35					
Jars, Dailey	35	6975.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	8475.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	4941	13416.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 10: 7" Casing Properties

7	26	S-95	HYD 521	8600	5890	717,000	568,000

5,200	6,000	5L,000

17. Rig up cementers and cement the 7" casing as follows:

18. Pump 20 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg. Mix and pump 580 sacks of lead cement (12.5 ppg) followed by 91 sacks of tail cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Table 11: Cement for 7" Casing

"G" + additives	581	12.5	2.09
"G" + additives	91	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

19. MU and RIH with 8 1/2" bit, 3 6-1/2" DC's and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test liner top to 2500 psig for 30 minutes. POH.

20. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig.

21. Increase mud weight to 13.5ppg before drilling out casing shoe. Drill out float shoe and 10 ft of new formation. Perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

Table 12: Drilling Fluid for 6-1/8" Hole Section

GEM (glycol)	13.5-14.5	40-50	4-7	10-20	10-30	9-15	4-6

22. MU and RIH with directional assembly. Directionally drill from 7" casing shoe at 13416' MD/ 7749' TVD to total depth of 14499' MD/ 8592' TVD as per BHI directional program. Circulate and condition mud and hole for logging.

Table 13: Directional Drilling BHA for 6-1/8" Hole Section

Bit	1	1	6.5					3 ½ R Pin
Motor, M1C	19	20	6.25	4.75			3 ½ R Box	3 ½ IF Box
Stabilizer	4.5	24.5	6.25	4.75	2.25		3 ½ IF Pin	3 ½ IF Box
NM DC	15	39.5		4.75	2.687	4.75	3 ½ IF Pin	3 ½ IF Box
NMCS DP	30	69.5		4.75	2.75		3 ½ IF Pin	3 ½ IF Pin
Hangoff Sub	4	73.5		4.75	2.75	4.75	3 ½ IF Box	3 ½ IF Box
HWDP	270	343.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	378.5		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	1008.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8458.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8461.5		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6038	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

23. Rig up Schlumberger loggers and log well. RD loggers.

24. MU and RIH with underreamer and open 6-1/8" hole to 8" from 7" casing shoe at 13416' MD to TD of 14499' MD. Circulate and condition mud for running casing.

Table 14: Underreaming BHA for 8" hole Section

Underreamer	5	5	8	4.75				3 ½ R Pin
Roller reamer	5	10	8	4.75			3 ½ R Box	3 ½ IF Box
HWDP	270	280		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	315		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	945		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	6900	7845		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	7848		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6651	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

25. Rig up the Wiggins casing crew. MU and RIH with approximately 1500 ft. of 5 ", 18#, S95, flush joint casing with float shoe, landing collar/float collar placed 1 joint from bottom, 7" X 5" hydraulic liner hanger and tie back receptacle to 14499' MD/ 8592' TVD.

Table 15: Casing Program for 5" Liner

Float Shoe, "FS"	2.10	2.10			5		Hyd 521 Box
1 Jt. 5" casing	40	42.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	40	84.3	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	1282	1368.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	1373.1	6.18	5.25		Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	1376.1					
Tie Back	6.25	1382.35					
Jars, Dailey	35	1417.35	4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	900	2317.35	3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G-105	6182	8499.35	3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8502.35	5	4.276	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G-105	5997	14499.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 16: Casing Properties for 5"

Size (in)	Weight (ppf)	Grade	Connection	Burst (psi)	Collapse (psi)	Tensile Yield Strength (lbs)	Compression Yield (lbs)
5	18	S-95	HYD 521	12,040	11,880	501,000	433,000

Connection Torque, Minimum (ft-lbs)	Connection Torque, Optimum (ft-lbs)	Connection Yield Torque (ft-lbs)
6,100	7,000	23,500

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every joint of the 7" casing. Use rigid centalizers in 7" x 5" liner lap.

26. Rig up cementers and cement the 5" casing as follows:

A) Pump 10 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 317 sacks of Class "G" cement (15.8 ppg). Actual volume should be based on the open hole caliper log.

Table 17: Cement for 5" Casing

"G" + additives	138	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

27. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, HWDP 3-1/2" and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test 5" liner lap to 2500 psig. POH.

Table 18: Liner Lap Cleanout BHA

Bit	1	1	6.125					2 3/8 R Pin
Bit Sub	2.5	3.5		4.75	2.5		2 3/8 R Box	3 ½ IF Box
DC	90	93.5		4.75			3 ½ IF Pin	3 ½ IF Box
HWDP	900	993.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8443.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8446.5		5	2.5	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6053	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

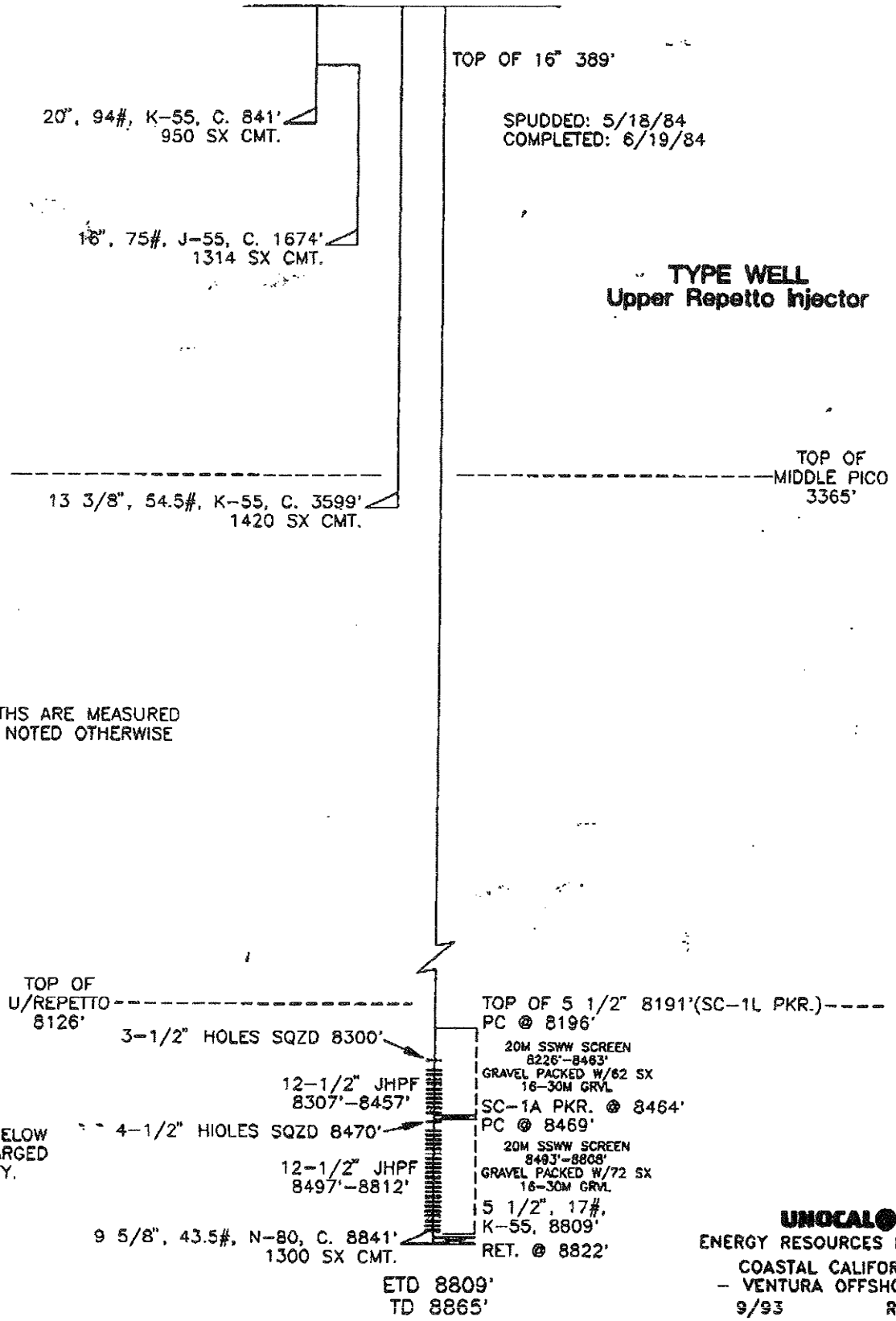
28. MU and RIH with 4-1/8" bit, 3 3-1/8" DC's, 2-7/8" DP, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. POH LD drill pipe. Release the drilling rig to the production department for completion.

Table 19: Liner Cleanout BHA

Bit	1	1	4.125					2 3/8 R Pin
Bit Sub	2.5	3.5		3.5	1.5		2 3/8 R Box	NC26 Box
DC	90	93.5		3.5	1.5		NC26 Pin	NC26 Box
DP, 6.65#, G	1500	1593.5		2.375	2.0625	3.125	NC26 Pin	NC26 Box
Crossover	2.5	1596		3.5			NC26 Pin	3 ½ IF Box
DP, 15.50#, G	6900	8496		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8499		5		5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6000	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

SANTA CLARA FIELD
Platform Gilda
Well #S-28

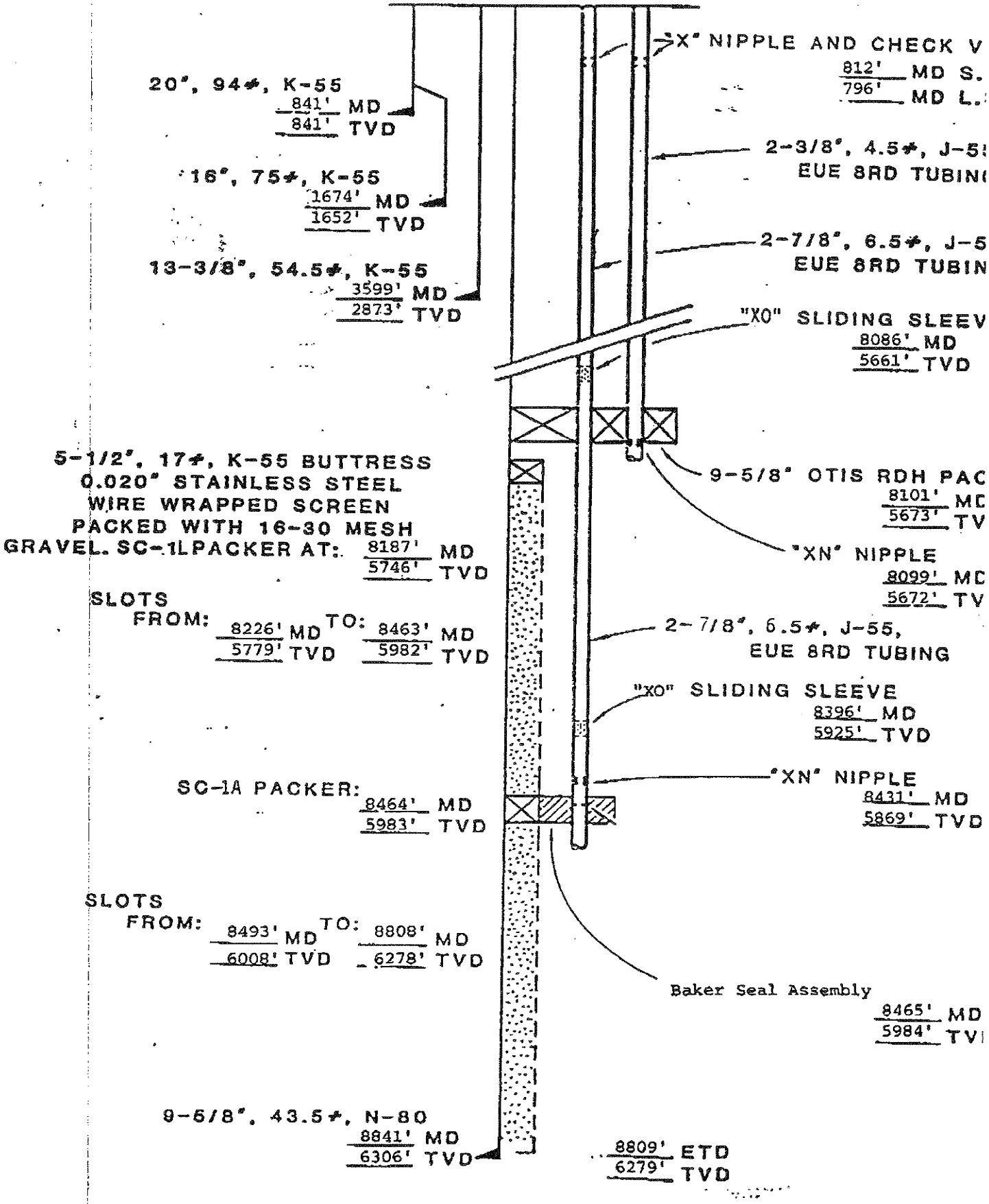
RT: 107' **Slot #58**



UNOCAL
ENERGY RESOURCES DIVISION
COASTAL CALIFORNIA
- VENTURA OFFSHORE -
9/93 RJDIII

COMPLETION DE. GN

WELL S-28 (Slot 58)



TORCH
OPERATING COMPANY

FAX COVER SHEET

Date:	December 4, 1997	**Time:**	1:56 PM
To:	**Shannon Shaw**	**Phone:**	(805) 389-7780
Company:	MMS	**Fax:**	(805) 389-7784
From:	Sabrina J. Miller	**Phone:**	(805) 934-8224
Department:	ES&RC	**Fax:**	(805) 937-8709

Number of pages including cover sheet: 12

Message:
Here is the corrected Sundry for Plat. Gilda well #S-28 as we discussed this morning. Please fax approved copy to us at the fax number listed above at you earliest convenience.

Feel free to call me with any questions.

Thank you,

Sabrina

SJS 12/9/97

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

DISTRICT
Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___					COM/WIW
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___					
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___						
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X						
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___						

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 S03541E07821	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached procedure with revision to plugging procedure.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	971204

THIS SPACE FOR MMS USE ONLY

APPROVED BY David R. Flint TITLE for District Supervisor

DATE 12/4/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-28 (slot #58)
November 3, 1997

Proposed TD: 8592' TVD / 14500' MD

Surface Location: Slot No. 58
X= 1041778.5 Y= 748020.5

Subsurface Location: 7385 ft. FNL and 662 ft. FWL of OCS-P0215 at 8592' TVD.
X= 1050315 Y=753324

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	MD (ft)	TVD (ft)	SS (ft)	Est Pressure (psi)
LP-1	7497	5002	4895	1200-1500
LP-A	10640	6077	5970	3100-3200
LP-B	11518	6417	6310	3100-3200
LP-E	12745	7156	7050	3100-3200
LP-K	13568	7777	7670	5000-5500
LP-L	13864	8007	7900	5000-5500
LP-M	13993	8107	8000	5000-5500
LP-N	14539	8592	8285	5000-5500

Existing Casing Program:

Casing	Setting Depth (ft. MD)
20", 94#, J-55, Vetco RL-4S	0'-841'
16", 75#, J-55, Buttress	389'- 1674'
13-3/8', 54.5#, K-55, Buttress	0'- 3599'
9-5/8", 47#, N-80, Buttress	0'- 8841'

Proposed Casing Program:

Casing	Setting Depth (ft. MD)
7', 26#, S-95, Hydril 521	6500'- 13416'
5", 15#, S-95, Hydril 521	13000'- 14499'
2-7/8" SSWR screen liner, packed w/ 20-40 sd.	13300'- 14499'

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 and TESCO portable top drive over slot #58.

2. RU Wireline unit. Pull "XBR" injection valve at 796' MD from 2-7/8" long string. RIH and close "XO" Sliding sleeve at 8396.32'.

3. Run and set "XPN" blanking plug in "XN" nipple at 8115.69' TVD in 2-7/8" long string.

4. RU pump and pressure test 2-7/8" tubing to 1,000 psig for 30 minutes. RU on 2-3/8" tubing and pressure test to 1,000 psig for 30 minutes.

5. Install BPV and ND production tree. Install riser, 13-5/8", 5000 psi single gate and double gate blowout preventers, 13-5/8", 5000 psi annular blowout preventer, diverter, bell nipple, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Install test plug and pressure test the blind rams and pipe rams to 250 psi and 4700 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

6. MU and RIH with chemical cutter and cut 2-3/8" short string 5' above RDH packer. POH with wireline. POH laying down 2-3/8" tubing.

7. MU and RIH with chemical cutter and cut 2-7/8" long string 5' above RDH packer. POH with wireline. RD wireline unit.

8. Fill casing annulus with seawater. Close rams and pressure test 9-5/8" casing to 1,000 psig for 30 minutes.

9. PU 2-7/8" tubing 5 feet. RU BJ cementers and equalize 35 sack Class "G" cement plug on top of RDH packer. PU 5 stands and reverse tubing clean. WOC 4 hours. RIH and tag cement top. MMS to witness tagging of cement top. POH laying down 2-7/8" tubing.

Table 1

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	35	15.8	1.17

10. MU and RIH with 7-1/2" Section Mill, 6-1/2" shock absorber, 8 6-1/2" DC's, HWDP and 5" DP. Mill section from 6940' MD to 6990' MD. Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program and table below for fluid properties for milling section.

Table 2: Section Milling BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Section Mill	6	6		7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 3: Milling Fluid

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
Gel/Seawater	8.5- 10	28-50	N/A	0-15	0-15	0-6	<6

11. MU and RIH with underreamer. Open hole to 15". POH.

Table 4: Underreaming BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	15	7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

12. MU and RIH with OE 2-7/8" tubing tail on 5" drill pipe to 6960' MD. Equalize a 106 sacks Class "G" cement plug. Precede cement with 20 bbls sea water. Displace cement with mud. POH.

Table 5: KOP Cement

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	106	17.2	.97

13. MU and RIH with 8-1/2" bit, 8 6-1/2" DC's and 5" DP. Dress off cement plug to 6942' MD. POH.

14. MU and RIH with 8-1/2" bit and steerable directional assembly. Directional drill from KOP of 6942'MD/4840' TVD to 6962' MD/4850' TVD as per BHI directional program. Conduct formation leak of test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. RU Petrolog mudloggers, John Williams. Change hole over to Glycol Enhanced Mud system. Continue to directionally drill to 13416

MD/7749' TVD (20' above of LP-K interval 13469' TMD/ 7777' TVD. Do not drill into top of "K" interval. Neuevo Geologist, David White, to pick casing point. Circ hole clean and POH.

Table 6: Directional Drilling BHA for 8-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	9.5					4 ½ R Pin
Motor	21.5	22.5	8.25	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	27.5	8.25	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
NMCS DP	10	37.5		5	2.687	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2.5	40		6.25	2.75		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	45	85		6.75			4 ½ IF Box	4 ½ IF Box
NMCS DP	30	115		6	2.75	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	385		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	420		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1650		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9217		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4199	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

Table 7: Drilling Fluid GEM

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
GEM (glycol)	9.6-12.5	40-50	4-7	15-20	10-30	9-15	<6

15. MU and RIH with underreamer and open hole to 9.5" from KOP to top 13416'MD/7749' TVD. Circulate and condition mud for running casing.

Table 8: Underreaming BHA for 9-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	9.5					4 ½ R Pin
Roller reamer	5	11	8.25	6.75			4 ½ R Box	4 ½ IF Box
HWDP	270	281		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	316		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1546		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9113		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4303	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

16. Rig up the Wiggins casing crew. MU and RIH with approximately 7000 ft. of 7 ", 26#, S95, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 9-5/8" X 7" hydraulic liner hanger and tie back receptacle to 13416' MD/ 7749' TVD'.

    a) Use a auto fill float shoe and float collar 2 joints above the shoe.

b) Place a slip-on rigid centralizer 10' above the shoe and then on every collar to the 9-5/8" casing. Use rigid centalizers in 9-5/8" x 7" liner lap.

Table 9: Casing Program for 7"

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe, "FS"	2.10	2.10			7		Hyd 521 Box
1 Jt. 7" casing	40	42.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	7	3	7	Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	40	84.3	7		7.303	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1				Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	6840	6926.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	6931.1				Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	6934.1					
Tie Back	6.25	6940.35					
Jars, Dailey	35	6975.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	8475.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	4941	13416.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 10: 7" Casing Properties

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
7	26	S-95	HYD 521	8600	5890	717,000	568,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum (ft-lb)	Conn. Yield Torque (ft-lb)
5,200	6,000	51,000

17. Rig up cementers and cement the 7" casing as follows:

18. Pump 20 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg. Mix and pump 580 sacks of lead cement (12.5 ppg) followed by 91 sacks of tail cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Table 11: Cement for 7" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	581	12.5	2.09
"G" + additives	91	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

19. MU and RIH with 8 1/2" bit, 3 6-1/2" DC's and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test liner top to 2500 psig for 30 minutes. POH.

20. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig.

21. Increase mud weight to 13.5ppg before drilling out casing shoe. Drill out float shoe and 10 ft of new formation. Perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

Table 12: Drilling Fluid for 6-1/8" Hole Section

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cp)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq. ft.)	Solids (%by vol)
GEM (glycol)	13.5-14.5	40-50	4-7	10-20	10-30	5-15	4-6

22. MU and RIH with directional assembly. Directionally drill from 7" casing shoe at 13416' MD/ 7749' TVD to total depth of 14499' MD/ 8592' TVD as per BHI directional program. Circulate and condition mud and hole for logging.

Table 13: Directional Drilling BHA for 6-1/8" Hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.5					3 ½ R Pin
Motor, M1C	19	20	6.25	4.75			3 ½ R Box	3 ½ IF Box
Stabilizer	4.5	24.5	6.25	4.75	2.25		3 ½ IF Pin	3 ½ IF Box
NM DC	15	39.5		4.75	2.687	4.75	3 ½ IF Pin	3 ½ IF Box
NMCS DP	30	69.5		4.75	2.75		3 ½ IF Pin	3 ½ IF Pin
Hangoff Sub	4	73.5		4.75	2.75	4.75	3 ½ IF Box	3 ½ IF Box
HWDP	270	343.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	378.5		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	1008.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8458.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8461.5		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6038	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

23. Rig up Schlumberger loggers and log well. RD loggers.

24. MU and RIH with underreamer and open 6-1/8" hole to 8" from 7" casing shoe at 13416' MD to TD of 14499' MD. Circulate and condition mud for running casing.

Table 14: Underreaming BHA for 8" hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	5	5	8	4.75				3 ½ R Pin
Roller reamer	5	10	8	4.75			3 ½ R Box	3 ½ IF Box
HWDP	270	280		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	315		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	945		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	6900	7845		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	7848		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6651	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

25. Rig up the Wiggins casing crew. MU and RIH with approximately 1500 ft. of 5 ", 18#, S95, flush joint casing with float shoe, landing collar/float collar placed 1 joint from bottom, 7" X 5" hydraulic liner hanger and tie back receptacle to 14499' MD/ 8592' TVD.

Table 15: Casing Program for 5" Liner

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe, "FS"	2.10	2.10			5		Hyd 521 Box
1 Jt. 5" casing	40	42.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	40	84.3	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	1282	1368.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	1373.1	6.18	5.25		Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	1376.1					
Tie Back	6.25	1382.35					
Jars, Dailey	35	1417.35	4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	900	2317.35	3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G-105	6182	8499.35	3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8502.35	5	4.276	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G-105	5997	14499.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 16: Casing Properties for 5"

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
5	18	S-95	HYD 521	12,040	11,880	501,000	433,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum(ft-lb)	Conn. Yield Torque (ft-lb)
6,100	7,000	23,500

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every joint of the 7" casing. Use rigid centalizers in 7" x 5" liner lap.

26. Rig up cementers and cement the 5" casing as follows:

A) Pump 10 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 317 sacks of Class "G" cement (15.8 ppg). Actual volume should be based on the open hole caliper log.

Table 17: Cement for 5" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	138	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

27. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, HWDP 3-1/2" and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test 5" liner lap to 2500 psig. POH.

Table 18: Liner Lap Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.125					2 3/8 R Pin
Bit Sub	2.5	3.5		4.75	2.5		2 3/8 R Box	3 ½ IF Box
DC	90	93.5		4.75			3 ½ IF Pin	3 ½ IF Box
HWDP	900	993.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8443.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8446.5		5	2.5	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6053	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

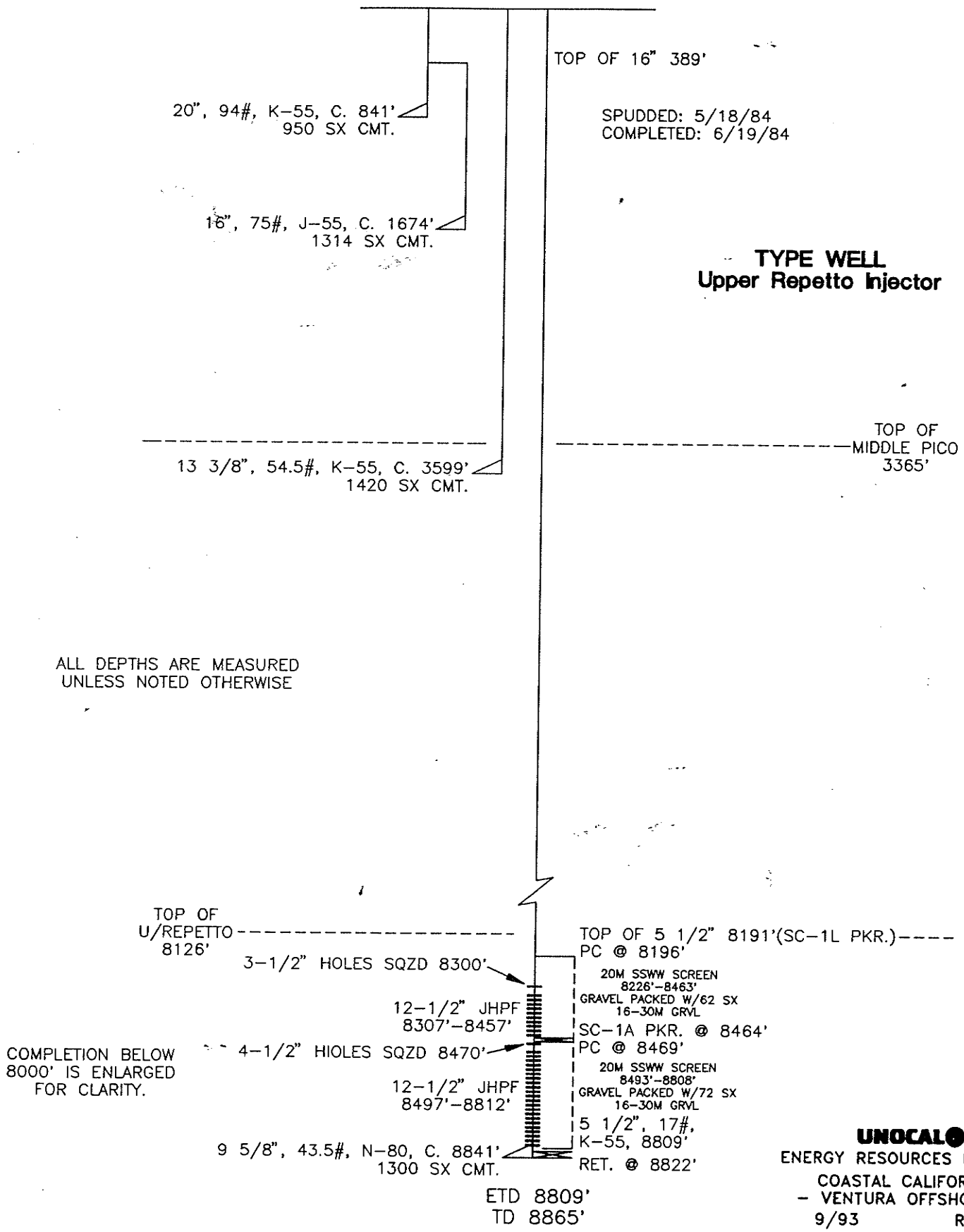
28. MU and RIH with 4-1/8" bit, 3 3-1/8" DC's, 2-7/8" DP, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. POH LD drill pipe. Release the drilling rig to the production department for completion.

Table 19: Liner Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	4.125					2 3/8 R Pin
Bit Sub	2.5	3.5		3.5	1.5		2 3/8 R Box	NC26 Box
DC	90	93.5		3.5	1.5		NC26 Pin	NC26 Box
DP, 6.65#, G	1500	1593.5		2.375	2.0625	3.125	NC26 Pin	NC26 Box
Crossover	2.5	1596		3.5			NC26 Pin	3 ½ IF Box
DP, 15.50#, G	6900	8496		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8499		5		5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6000	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

SANTA CLARA FIELD
Platform Gilda
Well #S-28

RT: 107' **Slot #58**

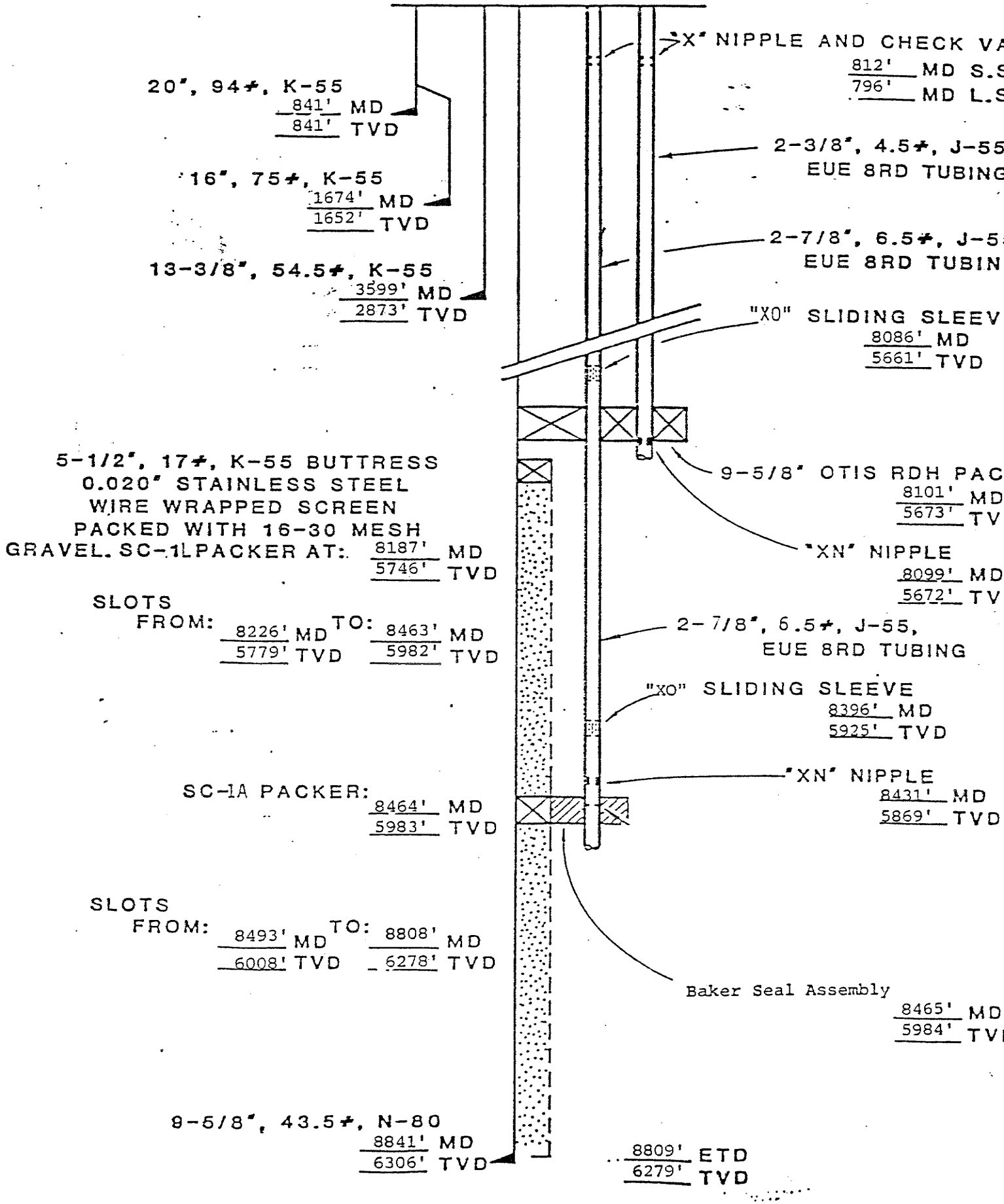


UNOCAL
ENERGY RESOURCES DIVISION
COASTAL CALIFORNIA
- VENTURA OFFSHORE -
9/93 RJDIII

PLATFORM GRLA

COMPLETION DESIGN

WELL S-28 (Slot 58)



SJS 11/10/97

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with DISTRICT one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK (SJS)						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION		COM/WIW
	CHANGE ZONE		PERFORATE	X	SIDETRACK*	X	
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X = 1041779, Y = 748021 S03541E07821 (SJS)	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached package

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OCT 24 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	971022

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

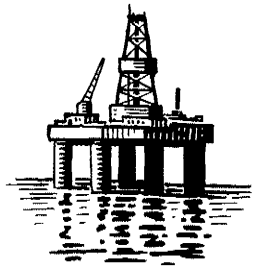
DATE 11/14/97

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Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

*All revisions are as per telecon w/S. Miller on 11/14/97. SJS

COPY TO REGION



Spud
5-18-84
LA 6862

API# 0431120582*
Los Angeles Block 6862 & 6863
Well# S028 & S028 WB01- Lease# P00216 & 15
DCOR, L.L.C.

— Directional Survey
* Estimated Date

ST @ 6988'
12-19-97

#S028 P00216
8865' MD
6327.1' TVD
6-1-84
'00'
ST00BP00
LA 6862

#S028 WB01 P00215
14610' MD
8672.18' TVD
2-05-98
'01'
ST01BP00
LA 6863

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: September 30, 2002

1. 1ST COMP. RECOMPLETION X ABANDONMENT CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-20582-01/S01	S-28 WB01	Nuevo Energy 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01546

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1050326 Y=753372	P-0215	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=1058832 Y=758270	P-0215 SB 6/27/13 S	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	3/21/1998	3/22/98	12/19/97

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
	2/5/98	MD 14610' TVD 8672.18'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
13896	13,956'	8118'	8164'
13,889'	13,969'	8113'	8173'
14,349'	14,409'	8465'	8513'
14,343'	14,242' N, 8 2Y MS 6/27/13	8461'	8524'

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	LP-M, LP-N

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
26"	20"	94#	K-55	841'	C + additives	950 SXS
22"	16"	75#	J-55	1674'	C + additives	1314 SXS
20"	13 /8"	54.5#	K-55	3599'	C + additives	1420 SXS
12 1/4"	9 5/8"	43.5#	N-80	8841'	C + additives	1300 SXS

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
6 1/8"	2 3/8"	4.7#	L-80	13,971'	
6 1/8"	2 7/8"	6.5#	L-80	13,805'	12,840

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NOV 14 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

FORM MMS -125 (September 1999) (Replaces all previous editions of Form MMS-125, which will not be used)

WELL SUMMARY REPORT (continued)

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
9 7/8"	7"	26#	P-110	6392'	13400'	C + additives	1096 SXS
6 1/8"	5"	6.5#	L-80	12860'	14608'	C + additives	135 SXS

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
7251'	7470'	BP set @ 7470' W/Class G	78 SXS
14349'	14409'	Frac Pack W/20/40 gravel	64,000 LBS
13896'	13956'	Frac Pack W/20/40 gravel	83,000 LBS

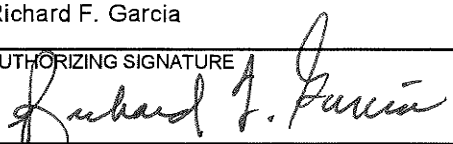
77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

TP log F/13338' T/14580', Platform Express F/14580' T/13397', USIT/CBT/GR/CCL F/14520' T/12846', GR/CCL F/14370' T/14000' Directional Survey F/14610' T/0, Mud logs.

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
LP-K1	13575'	7867'	13732'	7990'	Sandstone, siltstone, oil, gas, water
LP-L	13732'	7990'	13895'	8117'	Sandstone, siltstone, oil, gas, water
LP-M	13895'	8117'	14242'	8381'	Sandstone, siltstone, oil, gas, water
LP-N	14242'	8381'	14454'	8548'	Sandstone, siltstone, oil, gas, water

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
LP-B	10402'	6289'	LP-K	13410'	7741'
LP-D	11942'	6923'	LP-L	13732'	7990'
LP-F	12788'	7302'	LP-M	13895'	8117'
LP-G	12932'	7391'	LP-N	14242'	8381'

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Richard F. Garcia	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE 	31. DATE 11/11/2002

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

FORM MMS -125 (September 1999) (Replaces all previous editions of Form MMS-125, which will not be used)

Rework Summary
Platform Gilda OCS P-0216
Well # S-28

3/27/02	Move equipment onto drill deck. Prepare derrick for removal. Remove derrick and truck. Skid rig South. Tear down sub-base.
3/28/02	Tear down sub-base. RU sub-base & rig. Skid rig for NU. Bull head tbg with 80 Bbls of filtered seawater.
3/29/02	Bleed down well & install BPV. NU/ND tree. Nipple BOPE. Skid rig over well S-28. Tighten earthquake clamps and raise derrick. Install guide wires. Spot equipment. Install V-door. Tighten all BOP connectors. MU 2 7/8" test assy. RU test manifold on koomey. Test BOPE & repair leaks.
3/30/02	Test BOPE as per MMS regulations F/250L T/3000H. Finish testing BOPE. Mix 6% KCL. Remove BPV. PU on tbg 2 feet. Equalize tbg. Pump KCL down tbg taking returns to production. Mix 350 Bbls of 6% KCL. Change well over to production. Pull hanger. POOH W/production string.
3/31/02	POOH W/production string and LD 31 joints of 2 3/8" tbg & seal assy. MU 9 5/8" scraper. Mix 180 Bbls of KCL. RIH to top of 7" liner @ 6392'. Reverse circulate 1 ½" tbg volumes to active pits. POOH and LD 2 7/8" tbg and scraper.
4/1/02	RIH W/mule shoe T/6300'. POOH & LD 2 7/8" production string. MU 7" scraper. Back load work boat with 2 7/8" tbg. Mix 350 Bbls of 6% KCL for reversing. RIH W/7" scraper. PU 2 7/8" L-80 rabbit tbg. RIH, PU & rabbit 2 7/8" L-80 tbg.
4/2/02	RIH W/7" scraper T/12,525. PU 2 7/8" L-80 tbg. Reverse circulate 200 Bbls of 6% KCL. POOH. LD scraper & bumper sub. PU Reda pump. RU sheaves for cable, Pruett & chemical line. Plug in cable. Band flat guards. Finish picking up pump. Band flat guards. RU cannon clamp tools. RU hydro test. RIH W/production string. Test tbg T/5000 PSI. Drift same.
4/3/02	RIH W/pump. Test tbg T/5000 PSI. Drift same. Splice cable reel to reel. MU SSSV & packer. Strip electric cable through packer.
4/4/02	Splice cable at packer. RIH W/production string. Test tbg T/5000 PSI. Drift same. Make up EFT connector. Install chemical, Pruett, control line to hanger. Land hanger. Run in studs with BPV in place. Prep rig to skid. Skid rig for ND. NU BOPE. Found seal retaining up ¼ on one side of hanger. Attempt to work ring down to run studs in (would not go). NU BOPE. Skid rig over hole. RU guide wires, koomey, choke manifold and set stairs.
4/5/02	Function test BOPE. Install landing joint. Break test BOP F/250L T/3000H.

	Back out studs. Pull hanger to floor. Redress hanger. Land hanger. Run in studs. ND BOP. Install bonnett, tree and test to 2000 PSI. Test tree to 3000 PSI. Prep rig for move. Fluid to surface @ 22:50 hours. RDMO.
4/7/02	RIH with cross plug & set. Test packer with 3500 PSI for 10 minutes. RD wireline.

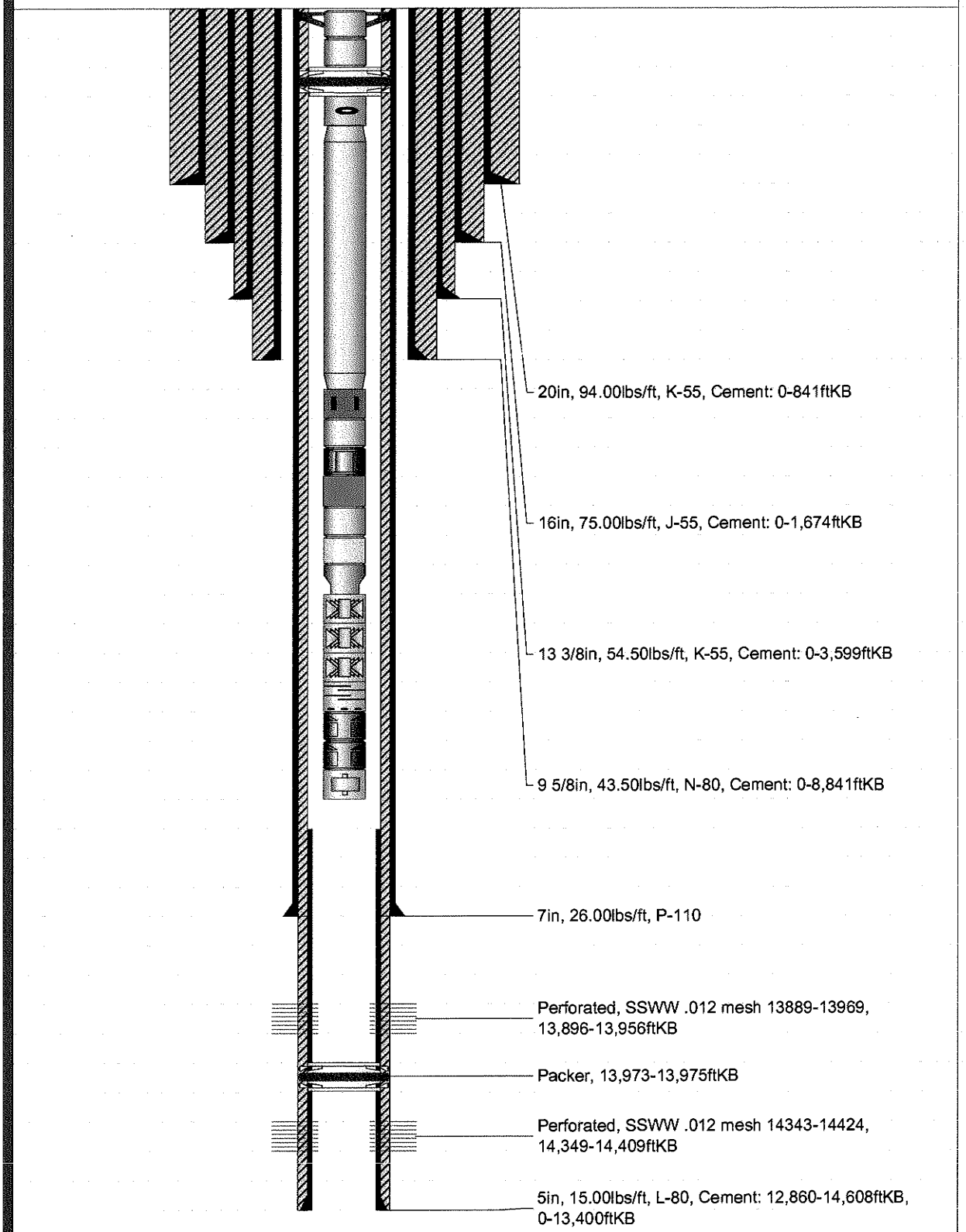
Gilda S-28

Current Schematic

API/UWI	Field Name	Operator	State/Province	Lease
0431120582-01/S01	Santa Clara	Nuevo Energy	California	OCS p-0216

Comment: Recompleted 3/21/98

Main Hole: 4/4/02



SJS 5/19/98

MINERALS MANAGEMENT SERVICE DISTRICT
WELL SUMMARY REPORT Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date:

1. 1ST COMP. x RECOMPLETION ABANDONMENT CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-20582-01/S01	3. WELL NO. S-28WB01	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) NUEVO ENERGY 201 S. BROADWAY SANTA MARIA, CA 93455
8. FIELD NAME Santa Clara	9. UNIT NUMBER 891012369A	10. MMS OPERATOR NUMBER 01546	

COPY TO REGION

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1050322.97 Y=753371.72 723'FWL 6948'FNL	P-0215	6B	4860	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=1050311 Y=753213 711'FWL 7107'FNL	P-0215	6B	4860	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	980321	980322	971219

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
971219	980205	MD 14610' TVD 8672.18'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
14349'	14409'	8465'	8512'
13896'	13956'	8118'	8163'

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	LP-M, LP-N

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
26"	20"	94#	K-55	841'	Class "G"	950 sks
22"	16"	75#	J-55	1674'	Class "G"	1314 sks
20"	13 3/8"	54.5#	K-55	3599'	Class "G"	1420 sks
12 1/4"	9 5/8"	47#	N-80	8841'	Class "G"	1300 sks

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
6 1/8"	2 7/8"	6.5#	L-80	13805'	N/A
6 1/8"	2 3/8"	4.7#	L-80 EUE	13971'	13805'

FORM MMS -125 (August 1993) (Replaces Form MMS-330 which will not be used)

CONFIDENTIAL

WELL SUMMARY REPORT

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
9 7/8"	7"	26#	P110 Hyd.	6392'	13400'	Class "G"	1096 sks
6 1/8"	5"	15#	L-80 Hyd.	12860'	14608'	Class "G"	135 sks
5"	2 3/8"	4.7#	N-80	13889'	13969'	N/A	N/A
5"	2 3/8"	4.7#	N-80	14343'	14424'	N/A	N/A

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
7251'	7470'	BP set @ 7470' w/Class G	78 sks
14349'	14409'	Frac pack w/ 20/40 gravel	64,000 lbs
13896'	13956'	Frac pack w/ 20/40 gravel	83,000 lbs

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

TP Log f/13338' to 14580'; Platform Express f/14580' to 13397'; USIT/CBT/GR/CCL f/14520' to 12846'; GR/CCL f/14370' to 14000' Directional Survey f/14610' to 0'; Mud Logs

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
LP-K1	13575'	7867'	13732'	7990'	Sandstone, siltstone, oil, gas, water
LP-L	13732'	7990'	13895'	8117'	Sandstone, siltstone, oil, gas, water
LP-M	13895'	8117'	14242'	8381'	Sandstone, siltstone, oil, gas, water
LP-N	14242'	8381'	14454'	8548'	Sandstone, siltstone, oil, gas, water

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
LP-B	10402'	6289'	LP-K	13410'	7741'
LP-D	11942'	6923'	LP-L	13732'	7990'
LP-F	12788'	7302'	LP-M	13895'	8117'
LP-G	12932'	7391'	LP-N	14242'	8381'

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980422

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain geologic, well test, and well-completion equipment data. This information will be used by MMS District Supervisors to ensure that they have accurate data and information on the wells under their jurisdiction and to ensure compliance with approved plans. It is also used to evaluate remedial action in the event of well-equipment failure or well-control loss. Response to this request is mandatory (43 U.S.C. 1334). Properietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0046), Washington, DC 20503

OCS-P0216
PLATFORM GILDA
WELL S-28
LOCATION OF WELL

AT SURFACE:	
Lambert Cal 6 Coordinates	X = 1041778.5 Y = 748020.5
KICKOFF POINT:	4573' TVD / 6942' MD
Lambert Cal 6 Coordinates	X = 1046014 Y = 748848
TARGET NO. 1: LP-M SAND	8107' TVD / 13416' MD 07385 FNL & 00662 FWL of OCS-P0215
Lambert Cal 6 Coordinates	X = 1050262 Y = 752935
BOTTOM HOLE LOCATION:	8592' TVD / 14499' MD 06996 FNL & 00715 FWL of OCS-P0215
Lambert Cal 6 Coordinates	X = 1050315 Y = 753324

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-28
Redrill
September 17, 1997

Proposed TD: 8592' TVD / 14500' MD

Surface Location: Slot No. 58
X= 1041778.5 Y= 748020.5

Subsurface Location: 06996 ft. FNL & 00715 ft. FWL of OCS-P0215 at 8592' TVD.
X= 1050315 Y=753324

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	MD	TVD	SS	Est. Press.(psi)
LP-1	7497'	5002'	4895'	1200-1500
LP-A	10640'	6077'	5970'	3100-3200
LP-B	11518'	6417'	6310'	3100-3200
LP-E	12745'	7156'	7050'	3100-3200
LP-K	13469'	7777'	7670'	5000-5500
LP-L	13864'	8007'	7900'	5000-5500
LP-M	13993'	8107'	8000'	5000-5500
LP-N	14499'	8592'	8285'	5000-5500

Existing Casing Program:

20", 94#, J-55, Vetco RL4S		0-~~750~~841' TMD
16", 75#, J-55, Butt.	389'	0-~~1750~~1674' TMD
9 5/8", 47#, N-80, Butt.	3599'	0-8841'

54.5#, K-55, 13 3/8"

Proposed Casing Program:

7-5/8", 33.7#, N80, HYD 511	6500' - 13542'
5-1/2", 20#, N80, HYD 511	13000' - 14449'

Proposed Liner Program:

3-1/2" SSWW Screen gravel packed with 20-40 gravel

TORCH OPERATING COMPANY
PLATFORM GILDA

S66 (Rev. A6)
slot #58
OFFSHORE SANTA BARBARA
CALIFORNIA

S U M M A R Y C L E A R A N C E R E P O R T

by
Baker Hughes INTEQ

Your ref : S66 (Rev. A6)
Our ref : prop3116
License :

Date printed : 14-Oct-97
Date created : 13-Oct-97
Last revised : 14-Oct-97

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.763,w119 25 6.300
Slot Grid coordinates are N 748020.835, E 1041778.491
Slot local coordinates are 33.20 N 44.50 E

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Should reference Grid North.

Object wellpath	Closest approach with 3-D Minimum Distance method			
	Last revised	Distance	M.D.	Diverging from M.D.
S-64 ST,south block,S-64,PLATFORM GILDA	26-Aug-97	1891.2	6942.8	6942.8
S-56,south block,S56,PLATFORM GILDA	5-Aug-97	1891.2	6942.8	6942.8
0,south block,,PLATFORM GILDA	5-Sep-97	2577.4	7300.0	7300.0
S-54,south block,S-11 (S-54),PLATFORM GILDA	23-Jul-97	1951.1	6942.8	6942.8
S11,south block,S11,PLATFORM GILDA	23-Jul-97	1951.1	6942.8	6942.8
S-18,south block,S18,PLATFORM GILDA	23-Jul-97	1118.2	6942.8	6942.8
S-22ST,south block,S22,PLATFORM GILDA	23-Jul-97	1605.1	6942.8	6942.8
S-22ST2,south block,S22,PLATFORM GILDA	23-Jul-97	1605.1	6942.8	6942.8
DMWD SIDETRACK,south block,S-60 SIDETRACK,PLAT	23-Jul-97	1470.5	8070.0	8070.0
S-22,south block,S22,PLATFORM GILDA	23-Jul-97	1605.1	6942.8	6942.8
DMWD,south block,S-60,PLATFORM GILDA	23-Jul-97	1432.8	7932.0	7932.0
s38,south block,S38,PLATFORM GILDA	23-Jul-97	1041.7	6942.8	6942.8
TEST,south block,EASTERN WELL,PLATFORM GILDA	24-Oct-96	4715.6	6942.8	6942.8
S63,south block,S63,PLATFORM GILDA	23-Jul-97	5683.9	6942.8	13596.0
S-61,south block,S61,PLATFORM GILDA	23-Jul-97	4167.4	6942.8	13587.0
S-65,south block,S65,PLATFORM GILDA	23-Jul-97	4522.0	6942.8	6942.8
S-53 OH,south block,S53,PLATFORM GILDA	23-Jul-97	5728.9	6942.8	13644.0
S-89,south block,S53,PLATFORM GILDA	23-Jul-97	5728.9	6942.8	13644.0
S-91 MWD,south block,S-91,PLATFORM GILDA	19-May-97	4652.2	6942.8	13704.0
S67,south block,S67,PLATFORM GILDA	19-May-97	4652.2	6942.8	13704.0
S-83 (S-67RD),south block,S67,PLATFORM GILDA	7-Apr-97	4652.2	6942.8	13704.0
S-91 ST1 MWD,south block,S-91 ST1,PLATFORM GIL	19-May-97	4652.2	6942.8	13704.0
S-44ST,south block,S44,PLATFORM GILDA	6-Aug-96	2897.7	6942.8	14000.0
S-44,south block,S44,PLATFORM GILDA	6-Aug-96	2897.7	6942.8	6942.8
SIDETRACK,south block,S-85 ST,PLATFORM GILDA	23-Jul-97	4593.8	6942.8	13689.0
SIDETRACK 2,south block,S-85 ST2,PLATFORM GILD	23-Jul-97	4593.8	6942.8	13689.0
S49,south block,S49,PLATFORM GILDA	23-Jul-97	4452.2	6942.8	10479.0
S-85 MWD,south block,S-85,PLATFORM GILDA	23-Jul-97	4593.8	6942.8	13689.0

S59ST1,south block,S59,PLATFORM GILDA	23-Jul-97	5519.2	6942.8	13872.0
S59,south block,S59,PLATFORM GILDA	23-Jul-97	5519.2	6942.8	13872.0
S-37,south block,S-37,PLATFORM GILDA	23-Jul-97	5693.8	6942.8	13524.0
MULTISHOT GYRO S-37,south block,S-37,PLATFORM	23-Jul-97	5991.1	6942.8	6942.8
S-77,south block,S-37,PLATFORM GILDA	23-Jul-97	5687.3	6942.8	13779.0
DMWD,south block,S-77 RD,PLATFORM GILDA	23-Jul-97	5687.3	6942.8	13779.0
S-79 ST2,south block,S-79 ST2,PLATFORM GILDA	23-Jul-97	5711.7	6942.8	13800.0
S-79 MWD,south block,S-79,PLATFORM GILDA	23-Jul-97	5711.7	6942.8	13800.0
S41,south block,S41,PLATFORM GILDA	23-Jul-97	5711.7	6942.8	13800.0
S-79 ST 1,south block,S-79 ST 1,PLATFORM GILDA	23-Jul-97	5711.7	6942.8	13800.0
S-69,south block,S-69,PLATFORM GILDA	23-Jul-97	5695.7	6942.8	6942.8
S-42,south block,S42,PLATFORM GILDA	23-Jul-97	971.1	14499.9	14499.9
S-3 ST3,south block,S3,PLATFORM GILDA	23-Jul-97	2294.4	6942.8	6942.8
S-3 ST2,south block,S3,PLATFORM GILDA	23-Jul-97	2294.4	6942.8	6942.8
S-3 ST1,south block,S3,PLATFORM GILDA	23-Jul-97	2296.8	6942.8	6942.8
S-3 OH,south block,S3,PLATFORM GILDA	23-Jul-97	2475.9	6942.8	6942.8
S-71,south block,S71,PLATFORM GILDA	23-Jul-97	5662.8	6942.8	13752.0
S-71G,south block,S71,PLATFORM GILDA	30-Oct-96	5707.7	6942.8	13755.0
S-14,south block,S14,PLATFORM GILDA	23-Jul-97	815.9	6942.8	6942.8
S-14ST,south block,S14,PLATFORM GILDA	23-Jul-97	815.9	6942.8	6942.8
S27F,south block,S27,PLATFORM GILDA	23-Jul-97	5629.1	6942.8	13788.0
S-27,south block,S27,PLATFORM GILDA	23-Jul-97	5627.7	6942.8	13785.0
S-23ST,south block,S23,PLATFORM GILDA	23-Jul-97	5547.6	6942.8	6942.8
S-23,south block,S23,PLATFORM GILDA	23-Jul-97	5547.6	6942.8	6942.8
S8,south block,S8,PLATFORM GILDA	23-Jul-97	2326.8	6942.8	6942.8
S-46,south block,S46,PLATFORM GILDA	23-Jul-97	3604.4	6942.8	6942.8
S-4,south block,S4,PLATFORM GILDA	23-Jul-97	4118.5	6942.8	6942.8
S-33RD,south block,S33 RD,PLATFORM GILDA	23-Jul-97	5633.6	6942.8	13638.0
S-33,south block,S33,PLATFORM GILDA	23-Jul-97	5633.6	6942.8	13638.0
S-21,south block,S21,PLATFORM GILDA	23-Jul-97	5250.0	6942.8	6942.8
S13,south block,S13,PLATFORM GILDA	23-Jul-97	4996.7	6942.8	10449.0
S45,south block,S45,PLATFORM GILDA	23-Jul-97	5348.5	6942.8	10749.0
S31,south block,S31,PLATFORM GILDA	23-Jul-97	5505.5	6942.8	6942.8
S17,south block,S17,PLATFORM GILDA	23-Jul-97	5579.4	6942.8	13629.0
S-43,south block,S43,PLATFORM GILDA	23-Jul-97	5528.0	6942.8	13551.0
S15,south block,S15,PLATFORM GILDA	23-Jul-97	5482.3	6942.8	6942.8
S-25,south block,S25,PLATFORM GILDA	23-Jul-97	5631.1	6942.8	13848.0
S-47,south block,S47,PLATFORM GILDA	23-Jul-97	5747.2	6942.8	6942.8
S-51,south block,S51,PLATFORM GILDA	23-Jul-97	5683.4	6942.8	13674.0
S7,south block,S7,PLATFORM GILDA	23-Jul-97	3451.6	6942.8	6942.8
S12,south block,S12,PLATFORM GILDA	23-Jul-97	1681.3	6942.8	6942.8
S6,south block,S6,PLATFORM GILDA	23-Jul-97	2951.7	6942.8	6942.8
S26,south block,S26,PLATFORM GILDA	23-Jul-97	3239.7	6942.8	6942.8
S30,south block,S30,PLATFORM GILDA	23-Jul-97	4410.4	6942.8	6942.8
S24,south block,S24,PLATFORM GILDA	23-Jul-97	869.1	6942.8	6942.8
S-29,south block,S29,PLATFORM GILDA	23-Jul-97	5694.8	6942.8	13842.0
S39,south block,S39,PLATFORM GILDA	23-Jul-97	5307.0	6942.8	6942.8
S57,south block,S57,PLATFORM GILDA	23-Jul-97	5207.1	6942.8	6942.8
S-32,south block,S32,PLATFORM GILDA	23-Jul-97	3465.8	6942.8	6942.8
S35,south block,S35,PLATFORM GILDA	23-Jul-97	5557.8	6942.8	13515.0
S-10,south block,S10,PLATFORM GILDA	23-Jul-97	1788.5	6942.8	6942.8
S-50,south block,S-10 (S-50),PLATFORM GILDA	23-Jul-97	1788.5	6942.8	6942.8
S16,south block,S16,PLATFORM GILDA	23-Jul-97	5379.1	6942.8	6942.8
S-75,south block,S75,PLATFORM GILDA	23-Jul-97	5600.6	6942.8	6942.8
S2,south block,S2,PLATFORM GILDA	23-Jul-97	3254.2	6942.8	6942.8
S-5,south block,S5,PLATFORM GILDA	23-Jul-97	4139.7	6942.8	6942.8
S-9,south block,S9,PLATFORM GILDA	23-Jul-97	1469.5	6942.8	6942.8
S-1,south block,S1,PLATFORM GILDA	23-Jul-97	4417.4	6942.8	6942.8
S-19,south block,S19,PLATFORM GILDA	23-Jul-97	4649.0	6942.8	6942.8
S-55,south block,S55,PLATFORM GILDA	23-Jul-97	4564.7	6942.8	6942.8
S-48,south block,S-40&ST (S48),PLATFORM GILDA	23-Jul-97	2237.1	6942.8	6942.8
S-40,south block,S40,PLATFORM GILDA	6-Aug-96	2237.1	6942.8	13512.0
S-40ST,south block,S40,PLATFORM GILDA	30-Oct-96	2237.1	6942.8	14200.0
S-36ST,south block,S36,PLATFORM GILDA	6-Aug-97	721.7	8085.0	8085.0
S-36,south block,S36,PLATFORM GILDA	23-Jul-97	595.7	6942.8	7653.0
S20,south block,S20,PLATFORM GILDA	23-Jul-97	2170.6	6942.8	6942.8
S-34,south block,S34,PLATFORM GILDA	23-Jul-97	408.7	6942.8	6942.8
S-62 OH,south block,S-62,PLATFORM GILDA	23-Jul-97	3447.1	6942.8	6942.8
S-52 (S-62),south block,S-52 (S-62 RD),PLATFOR	25-Apr-97	3420.7	6942.8	14499.9
S-62 RD2,south block,S-62 RD2,PLATFORM GILDA	6-Aug-97	3451.6	6942.8	13869.0
S-28,south block,S28,PLATFORM GILDA	23-Jul-97	0.0	6942.8	6942.8

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 over slot #86. Kill well with sea water.

2. Install BPV and ND production tree. Install 13 5/8", 5000 psi single gate and double gate, 13 5/8", 5000 psi annular blowout preventer, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Test the blind rams and casing to 250 psi and 1000 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

3. POH with 2-3/8" short string and LD. PU 20,000 lbs over string weight on 2-7/8" long string and unset Otis RDH packer set at 8101' MD. POH with 2-7/8" long string and packer.

Note:

If packer does not pull free. Re-land tubing. MU and RIH with chemical cutter and cut 2-7/8" tubing 90' below packer. POH with wireline. PU on 2-7/8" tubing and recover packer. If packer is not free, RIH with chemical cutter and cut 2-7/8" tubing pup joint 5' above packer. POH with wireline. MU and RIH with overshot, bumper sub, jars, 4 6-1/2" DC's on 2-7/8" tubing. Jar packer free and POH. LD 2-7/8" tubing.

4. MU and RIH with 9-5/8" casing scraper on 2-7/8" tubing to 8190'.

5. MU and RIH with 9-5/8" permanent bridge plug. Set bridge plug at 8157'.

6. RIH with OE 2-7/8" tubing to top of bridge plug. Equalize 35 sack Class "G" cement plug on top of bridge plug. PU 5 stands and reverse tubing clean. Circ and build mud volume for milling. POH LD 2-7/8" tubing.

7. MU and RIH with 7-1/2" Section Mill, 6-1/2" shock absorber, 8 6-1/2" DC's and 5" DP. Mill section from 6920' to 6970'. Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program for fluid properties for milling section.

8. MU and RIH with underreamer. Open hole to 15". POH.

9. MU and RIH with OE 2-7/8" tubing tail on 5" drill pipe to 6960'. Equalize a 93 sacks Class "G" cement plug. Precede cement with 10 bbls sea water. Displace cement with mud. POH.

10. MU and RIH with 8-1/2" bit, 8 6-1/2" DC's and 5" DP. Dress off cement plug to 6920'. POH.

11. MU and RIH with 8-1/2" bit and steerable directional assembly. Directional drill from KOP of 6942'MD/4840' TVD to 6962' MD/4850' TVD. Conduct formation leak of test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. Change hole over to Petrofree mud system. Continue to directionally drill to 13416 MD/7749' TVD (20' above of LP-K interval 13469' TMD/ 7777' TVD. Do not drill into top of "K" interval. Circ hole clean and POH.

12. MU and RIH with underreamer and open hole to 10" from KOP to top 13416'MD/7749' TVD. Circ and condition mud for running casing.

13. Rig up the casing crew. MU and RIH with approximately 7500 ft. of 7 5/8", 33.7#, N-80, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 9-5/8" X 7-5/8" hydraulic liner hanger and tie back receptacle to 13416' MD/ 7749' TVD'.

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every third collar to the 9-5/8" casing. Use rigid centalizers in 9-5/8" x 7-5/8" liner lap.

14. Rig up cementers and cement the 7 5/8" casing as follows:

A) Pump 20 bbls of reactive mud spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 975 sacks of lead cement (12.5 ppg) followed by 167 sacks of tail cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

15. MU and RIH with 8 ½" bit, 8 6-1/2" DC's and 5" DP. RIH and drill out cement to top of liner. POH.

16. MU and RIH with 6-1/2" bit, 12 4-3/4" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig.

17. Drill out float shoe and 10 ft of new formation. Perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

18. MU and RIH with directional assembly. Directionally drill from 7-5/8" casing shoe at 13416' MD/ 7749' TVD to total depth of 14499' MD/ 8592' TVD. Circ and condition mud and hole for logs.

19. Rig up loggers and log well. RD loggers.

20. MU and RIH with underreamer and open 6-1/2" hole to 8" from 7-5/8" casing shoe to TD. Circ and condition mud for running casing.

21. Rig up the casing crew. MU and RIH with approximately 1800 ft. of 5 1/2", 20#, N-80, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 7-5/8" X 5-1/2" hydraulic liner hanger and tie back receptacle to 14499' MD/ 8592' TVD.

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every third collar to the 7-5/8" casing. Use rigid centalizers in 7-5/8" x 5-1/2" liner lap.

22. Rig up cementers and cement the 5 1/2" casing as follows:

A) Pump 20 bbls of reactive mud spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 317 sacks of Class "G" cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

23. MU and RIH with 6 ½" bit, 8 4-3/4" DC's, 3-1/2" and 5" DP. RIH and drill out cement to top of liner. POH.

24. MU and RIH with 4-3/4" bit, 12 3-1/8" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. POH LD drill pipe. Release the drilling rig to the production department for completion. A detailed completion procedure will follow.

Torch Operating Company

Completion Procedure
S-28 Sidetrack
Santa Clara Field
OCS P-0216
Offshore California
October 23, 1997

Prepared by: Bob Davis

Objective: Complete as a flowing, gravel pack screened, LPL-N oil producer.

Estimated time to complete: 3 weeks

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft
Cond. Csg	20"	Surf- 841	94.0	19.124	18.936	0.3552
Surf. Csg	16"	389- 1674	75.0	15.124	14.936	0.2222
Int. Csg.	13-3/8"	Surf- 3599	68.0	12.415	12.259	0.1457
Prod. Csg. 9-5/8"	Surf- 6000 *	47.0	8.681	8.525	0.0732	
Int. Lnr.	7-5/8" *	6000- 13542	33.7	6.765	6.640	0.0444
Prod. Lnr.	5-1/2" **	13000-14618				

* Estimated top of window
** Estimated

1. NU 5000# BOEs with variable rams. Change lower pipe rams to close against production tubing. Pressure test BOEs to MMS specifications.
2. Pick up as much of the 2-7/8" or 3-1/2", N-80 production string as possible, and stand back. Pick up 4-1/2", IF drillpipe to use for work string.
3. Pick up and RIH with 4-3/4" bit, ~1700' of rented 2-7/8", IF drill pipe, ~7000' of 3-1/2" IF drill pipe and 4-1/2" drill pipe to 5-1/2"liner top. Drill through liner hanger.
4. RIH with WSO tool and negative test 7-5/8"x5-1/2" liner lap.

Note: This test will allow the flexibility to set a production packer at the base of the 7-5/8" casing, should it become necessary.

5. RIH with 4-3/4" bit on tapered work string. Circulate out drill in fluid to ED with sea water. On bottom, continue to circulate with filtered sea water and gel sweeps as required, until returns run clear.

Notes:

1. Lengths to depend on actual liner lengths and spacing.

2. Any remaining fill will reduce accuracy of TCP correlation.

6. POOH with tapered work string and bit.

7. Rig up and run a CBL-VDL-GR Neutron log across the productive interval, tagging and correlating from ED. Squeeze as required for adequate zone isolation between the intervals to be fracture stimulated. Re-correlate to ED after cleaning out from squeeze, if required.

8. RIH with 5-1/2" casing scrapers and brush. Scrape/brush casing and liner from surface to ED. Reverse circulate from ED, with filtered sea water until returns run clear.

9. Fill active pit, reserve pit, and one steam cleaned Baker tank with 13.3 ppg. CaBr2 water. Displace sea water from tubing and casing. Rig up DE filter press and filter entire system to 30 NTU or less. Consult with duty engineer if turbidity appears to be from dissolved material (i.e. rust). POOH with scrapers and brush.

10. RU WLU. Make gauge ring run to ED.

11. Pick up and run in hole with 3-1/8" tubing conveyed perforating assembly with guns loaded to perforate the LPN interval (~250/200 G/N), equipped with Halliburton Omni valve (well test position), Baker Retrievamatic packer and vent valve. Fill with filtered sea water water while RIH. Tag ED with bull plug on TCP assembly and pick up to desired depth. Set service packer.

12. Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Test Halliburton surface flow equipment to 4700 psi. Pressure up tubing to 250 psi. Drop bar to perforate well with **XX** JSPF.

Note: If actual hole angles of over 65° result, consider annular pressure fired guns. Setting pressures should be lower than Omni valve actuation pressures to minimize the chance of prematurely shifting the Omni valve. Alternatively, Omni valve position could be preset so that a single shift will not change the valve operating mode.

13. Allow well to stabilize long enough to record a stable shut in tubing pressure, and then flow the well for 2 hours, per direction of company representative. Monitor well with bubble bucket. Cycle Omni valve to circulating position (perforations isolated) and reverse out tubing with 13.3 ppg. CaBr2 water.

Note: Insure that a pressure gauge is available in the line between the tubing head and the Halliburton manifold to measure true flowing tubing pressure.

14. Cycle Omni valve to well test position and check for flow. If necessary, cycle Omni valve back to circulating position and weigh up with sack material to kill well.

15. Once well is dead, POOH with TCP assembly. Procedures to mix and pump any required fluid loss pills will follow.

16. Pick up and run in the hole slowly with gravel pack assembly including seal/locator assembly, **XX** gauge wire wrapped screen, SC-1 tool assembly, and washpipe. Minimize the use of pipe dope.

17. Snap into and out of Baker Model D sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight.

Note: Space out workstring to a safe working height prior to snapping into sump packer.

18. Rig up the pumping equipment and test surface lines to 5,000 psi. (In order to achieve the best control of pump rates and pressures while setting the Baker SC-1 Packer, it is advised that the BJ cement pump unit on the platform be used during this operation.)

19. Establish circulation down workstring. Circulate 5 to 10 bbls to clean ball seat in setting tool. Drop back-up packer setting ball and allow it to gravitate to the setting tool. With ball on seat, set gravel-pack packer as per established procedures.

20. Test the Baker SC-1 packer by picking up and setting down 10,000 lbs. Locate neutral weight on packer and pressure test annulus to minimum 1,500 psi.

Note: Annular pressure will also actuate hydraulic release on the service tools.

21. While holding 500 psi on the annulus, slowly pick up crossover tool until pressure indication is noted. This is the reverse position. Mark tubing at surface.

Note: If crossover tool is not released from the packer, rotate 15 turns to the right to actuate back-up release.

22. Reverse circulate to recover packer setting ball.

23. Shift tool to reverse position. Pump 1500 gal. 15% HCl tubing pickle acid mixture to within 2 joints of the packer and reverse out at maximum rate. Isolate acid returns and pump down S-54 annulus.

24. Lower crossover tool to set down desired weight on packer. This is the **Squeeze Position**. Pick up crossover tool ±1 ft and locate the **Circulating Position.** Mark the tubing at the surface for these positions. Lower crossover tool to the squeeze position.

DATAFRAC PUMPING:

Notes:

Torch Operating Company

Completion Procedure
S-28 Sidetrack
Santa Clara Field
OCS P-0216
Offshore California
October 23, 1997

* **Have Victory Seahorse tied up to supply water as required during stimulation operations.**
* **S/D to supply enough headsets for driller, toolman, and two TOC representatives**

25. Shift tool to reverse position. Circulate the following DataFRAC fluids to the GP packer in the reverse position. **Expect the same shut in tubing pressure as that seen directly after perforating.**
26. Inject the DataFRAC as per design to be finalized after the analysis of openhole logs. Once the DataFRAC has been performed, a fracture treatment will be optimized as the data directs.

DataFRAC Fluid requirements:

5,000 gals	120 bbls	YF130LG **(XLK 30# Gel)** Calibration Test fluid (X-linked)_
4,300 gals	92 bbls	WF130 (Linear 30# Gel) Step Rate Test Fluid
3,095 gals	73.7 bbls	2% KCl (w/0.2% ASP820) Displacement fluid

The volumes of fluids may be altered slightly if this would benefit operations of tools and/or pumping, or for a significantly different perforated interval.

Calibration Test - 119 bbls YF130LG at 15 bpm (7.9 min)

Rate Test (2 minutes per stage):

1 bpm 2 bbls

2 bpm	4 bbls
3 bpm	6 bbls
4 bpm	8 bbls
6 bpm	12 bbls
8 bpm	16 bbls
10 bpm	20 bbls
12 bpm	24 bbls
Total:	92 bbls

27. Shut down - monitor pressure fall off. Do not alter the pressure on the casing or work string

NOTES:

Add another Calibration test or step rate test as necessary

The above schedule is only recommended volumes and can be altered as necessary to suit the formation response.

StimPAC PUMPING:

Torch Operating Company

Completion Procedure
S-28 Sidetrack
Santa Clara Field
OCS P-0216
Offshore California
October 23, 1997

Section 1: Expected Propped Fracture Schedule

Job Description						
Stage Name	**Pump Rate** (bbl/min)	**Fluid Name**	**Stage Fluid Volume** (gal)	**Gel Conc.** (lb/mgal)	**Prop. Type and Mesh**	**Prop. Conc.** (PPA)
PAD	15.0	YF130LG	1000	30		0.0
1.0 PPA	15.0	YF130LG	1000	30	Econo Prop 20/40	1.0
3.0 PPA	15.0	YF130LG	410	30	Econo Prop 20/40	3.0
4.0 PPA	15.0	YF130LG	390	30	Econo Prop 20/40	4.0
5.0 PPA	15.0	YF130LG	381	30	Econo Prop 20/40	5.0
6.0 PPA	15.0	YF130LG	370	30	Econo Prop 20/40	6.0
7.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	7.0
8.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	8.0
9.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	9.0
10.0 PPA	15.0	YF130LG	350	30	Econo Prop 20/40	10.0
11.0 PPA	15.0	YF130LG	340	30	Econo Prop 20/40	11.0
12.0 PPA	15.0	YF130LG	1350	30	Econo Prop 20/40	12.0
FLUSH	8.0	2% KCL w/ Fr	3394	0		0.0

Fluid Totals		
6671 gal	of	YF130LG
3394 gal	of	2% KCL w/ Fr

Proppant Totals		
40,000 lb	of	Econo Prop 20/40

Notes:

- Maintain casing pressure (to be confirmed with TOC representative) at 2000 psi or more during pumping of the StimPAC.
- Sand Silo to be loaded with enough excess proppant (+/- 5,000 lbs excess) so that total proppant amount designed can be pumped at design rates.
- Rate will be ramped down during flush. Actual rates will be determined after the dataFRAC.

Pressure limits while reversing must be discussed before pumping starts. Use the following as a reference to hydrostatic pressure which may be encountered.

14.00 ppa slurry has a density of 13.73 ppg

12.00 ppa slurry has a density of 13.34 ppg

11.00 ppa slurry has a density of 12.95 ppg

10.00 ppa slurry has a density of 12.67 ppg

8.00 ppa slurry has a density of 12.06 ppg

6.00 ppa slurry has a density of 11.35 ppg

MINIMIZE TIME after shut down to start reverse circulation. No more than 10 minutes.

Do NOT over displace.

If the bleed off after a screen out is fast (possible indication of limited blank fill), do not move to the reverse position until trying to squeeze slurry into the blank section at least once. This must be agreed upon by Dowell tool supervisor, pumping supervisor and the TOC engineer. Maximum re-stress pressure must be calculated before start of frac.

28. Once a screen out has been achieved, bleed off work string and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with 13.3 ppg. CaBr2 water. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of CaBr2 water.

29. If a circulation pack is required to fill screen, use the BJ pump truck and the completion fluid.

30. When screen is packed, pull uphole until end of washpipe is 10 ft below Knock-Out Isolation Valve. Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize. Slowly pull uphole in one continuous movement until the end of the washpipe is 10 ft above flapper valve.

Note: Do not slack off, as any downward movement while the end of the washpipe moves through the valve can damage the flapper and seat.

31. Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

NOTE: If KOIV does not appear to be holding, attempt to apply ± 200 psi to assist seal. If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer.

32. L/D GP packer service tool.

33. Pull out of the hole with workstring and Baker SC-1 Crossover Tool and washpipe.

34. Pick up and run in hole with 3-1/8" tubing conveyed perforating assembly with guns loaded to perforate the LPN interval (~250/200 G/N), equipped with Halliburton Omni valve (well test position), Baker Retrievamatic packer and vent valve. Fill with filtered sea water water while RIH. Tag ED with bull plug on TCP assembly and pick up to desired depth. Set service packer.

35. Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Test Halliburton surface flow equipment to 4700 psi. Pressure up tubing to 250 psi. Drop bar to perforate well with **XX** JSPF.

Note: If actual hole angles of over 65° result, consider annular pressure fired guns. Setting pressures should be lower than Omni valve actuation pressures to minimize the chance of prematurely shifting the Omni valve. Alternatively, Omni valve position could be preset so that a single shift will not change the valve operating mode.

36. Allow well to stabilize long enough to record a stable shut in tubing pressure, and then flow the well for 2 hours, per direction of company representative. Monitor well with bubble bucket. Cycle Omni valve to circulating position (perforations isolated) and reverse out tubing with 13.3 ppg. CaBr2 water.

37. Cycle Omni valve to well test position and check for flow. If necessary, cycle Omni valve back to circulating position and weigh up with sack CaBr2 to kill well.

38. Once well is dead, POOH with TCP assembly. Procedures to mix and pump any required fluid loss pills will follow.

39. Run in with Baker Retrieving Head on workstring. Tag Baker SB Plug. Reverse out any perforating debris, latch into SB plug and retrieve. Pull out of the hole.

40. Pick up and run in the hole slowly with gravel pack assembly including snap latch/seal/locator assembly, **XX** gauge wire wrapped screen, SC-1 tool assembly and washpipe. Minimize the use of pipe dope.

41. Snap into and out of Baker SC-1 sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight.

Note: Space out workstring to a safe working height prior to snapping into SC-1 packer.

42. Repeat Stim-Pac procedures for the second "M" interval. Isolate below a second packer, as described above.

43. If deemed prospective, perforate third "L" interval as described above. Repeat preceding step for the subject interval.

44. RIH with snap latch seals, 4-1/2" Pruett chamber (tubing sensing), 1 joint of 2-7/8" or 3-1/2" tubing,, 2-7/8" or 3-1/2" tubing (carrying 1/8" capillary tubing line) to ~500' from surface, tubing retrievable SCSSV, and 2-7/8" or 3-1/2" tubing to surface. Tag top SC packer and POOH to directly on top of packer. Displace tubing with filtered 6% KCl water (send completion fluid returns to shore storage) and sting into snap latch seal assembly. Schematic to be supplied.

Note: Observe pump pressure when fluid turns the corner during displacement. Choke returns to maintain this pressure until fluid is fully displaced.

45. Open SCSSV and flow well per engineering direction, with low initial drawdown. Keep well on platform hotsheet until relieved.

OCS-P0216
PLATFORM GILDA
WELL S-28
CASING DESIGN

7 5/8" CASING

Effective Setting Depth is 13416' MD / 7749' TVD

Casing: 7 5/8", 33.7#, N-80, HYD 511.

Estimated top of cement is 6440' MD

Collapse

Mud weight for the 7 5/8" casing interval is 12.5 ppg.

Pressure Rating with a 1.25 Safety Factor

7260 psi / 1.25 = 5808 psi

P_C = (7680') (12.5 ppg) (.052) = 4992 psi

S_{FC} = 5808 psi / 4992 psi = 1.16

Burst

Anticipated BHP of 5500 psi with a maximum anticipated WHP with .1 psi / ft gas is 4597 psi.

S_{FB} = 7900 psi / 4597 psi = 1.71

Tensile

Buoy Weight = (33.7) (6850') (.806) = 186061#

7 5/8", 33.7#, N-80, HYD 511 — Joint = 614000#, Body = 778000#

S_{FJT} = 614000# / 186061# = 3.29

S_{FB} = 778000# / 186061# = 4.18

Maximum Overpull w/ Safety Factor

Jt.= 614000# / 2 - 186061# = 120939#

5-1/2" LINER

Effective setting depth is 14618' MD / 8592' TVD

Casing: 5-1/2", 20#, N80, HYD 511

Estimated top of cement is at bottom of 7-5/8" casing

Collapse

Mud weight for the 5-1/2" casing interval is 14.5 ppg.

P_C = (8592') (14.5 ppg) (.052) = 6195 psi

S_F = 8830 psi / 6195 psi = 1.43

Burst

Maximum anticipated WHP with gas to surface is 4650 psi assuming a .1 psi / ft gas gradient at the 5-1/2" casing shoe.

S_F = 8990 psi / 4650 psi = 1.93

Tensile

Buoy Weight = (20) (1750') (.776) = 27160#

W/ 14.5 ppg drilling mud

5-1/2", 20#, N80, Butt.	Joint = 367000#
	Body = 466000#

S_{FJT} = 367000# / 27160# = 13.51

S_{FB} = 466000# / 27160# = 17.15

Maximum Overpull w/ Safety Factor

Jt. = 367000# / 2 - 27160# = 156340#

OCS-P0216
PLATFORM GILDA
WELL S-28
CEMENT PROGRAM

ABANDONMENT PLUG

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
1	41	/	1.17	=	35 sacks Class G Cement + 20 gals/100 sack CD-31L + 4 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 44.7 % Water.

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.17
Amount of Mix Water (gps)	4.92
Amount of Mix Fluid (gps)	5.18

Plug Geometry

	Plug Top		Plug Bottom	
1	8057 ft	to	8157 ft	with 8.681 inch ID Casing

OCS-P0216
PLATFORM GILDA
WELL S-28
CEMENT PROGRAM

KICK OFF PLUG

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
1	91	/	.97	=	93 sacks Class G Cement + 30 gals/100 sack CD-31L + 4 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 29.6 % Water.

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	17.20
Slurry Yield (cf/sack)	0.97
Amount of Mix Water (gps)	3.33
Amount of Mix Fluid (gps)	3.69

Plug Geometry

	Plug Top		Plug Bottom	
1	6820 ft	to	6920 ft	with 8.681 inch ID Casing
	6920 ft	to	6960 ft	with 15 inch Open Hole

OCS-P0216
PLATFORM GILDA
WELL S-28
CEMENT PROGRAM

7-5/8" CASING

FLUID SPECIFICATIONS

Weighted Spacer — **20.0 bbls UltraFlush II @ 11 ppg**

Fluid	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
Lead Slurry	2039	/	2.09	=	975 sacks Class G Cement + 20 gals/100 sack CD-31L + 40 gals/100 sack BA-10L + 30 gals/100 sack Liquid Sodium Silicate + 2 gals/100 sack FP-6L + 98.8 % Water.
Tail Slurry	192		1.15	=	167 sacks Class G Cement + 20 gals/100 sack CD-31L + 30 gals/100 sack BA-10L + 4 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 39.5 % Water

Displacement — **356.8 bbls MUD @ 9.4 ppg**

Cement Properties

	Slurry No. 1	Slurry No. 2
Slurry Weight (ppg)	12.50	15.80
Slurry Yield (cf/sack)	2.09	1.15
Amount of Mix Water (gps)	11.13	4.46
Amount of Mix Fluid (gps)	12.05	5.02

OCS-P0216
PLATFORM GILDA
WELL S-28
CEMENT PROGRAM

5-1/2" LINER

FLUID SPECIFICATIONS

Weighted Spacer **20.0 bbls UltraFlush II @ 11 ppg**

Fluid	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
Cement Slurry	366	/	1.15	=	317 sacks Class G Cement + 30 gals/100 sack CD-31L + 30 gals/100 sack BA-10L + 6 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 38.7 % Water

Displacement **111.9 bbls MUD @ 10 ppg**

Cement Properties

	Slurry No. 1
Slurry Weight (ppg)	15.8
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.36
Amount of Mix Fluid (gps)	5.04

OCS-P0216
PLATFORM GILDA
WELL S-28
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
7000' - 13416'	MWD/DPR/GR
13416' - 14500'	DIL/GR/FDC/CNL
13416' - 14500'	DIPOLE SONIC

Mud Logs

Interval (MD)	
7000' - 14500'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

OCS-P0216
PLATFORM GILDA
WELL S-28
BOP PROGRAM

9 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 4800 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi
7 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 4800 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which is prior to drilling out the 20" casing and at 7 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-28
WELL CONTROL PROCEDURE

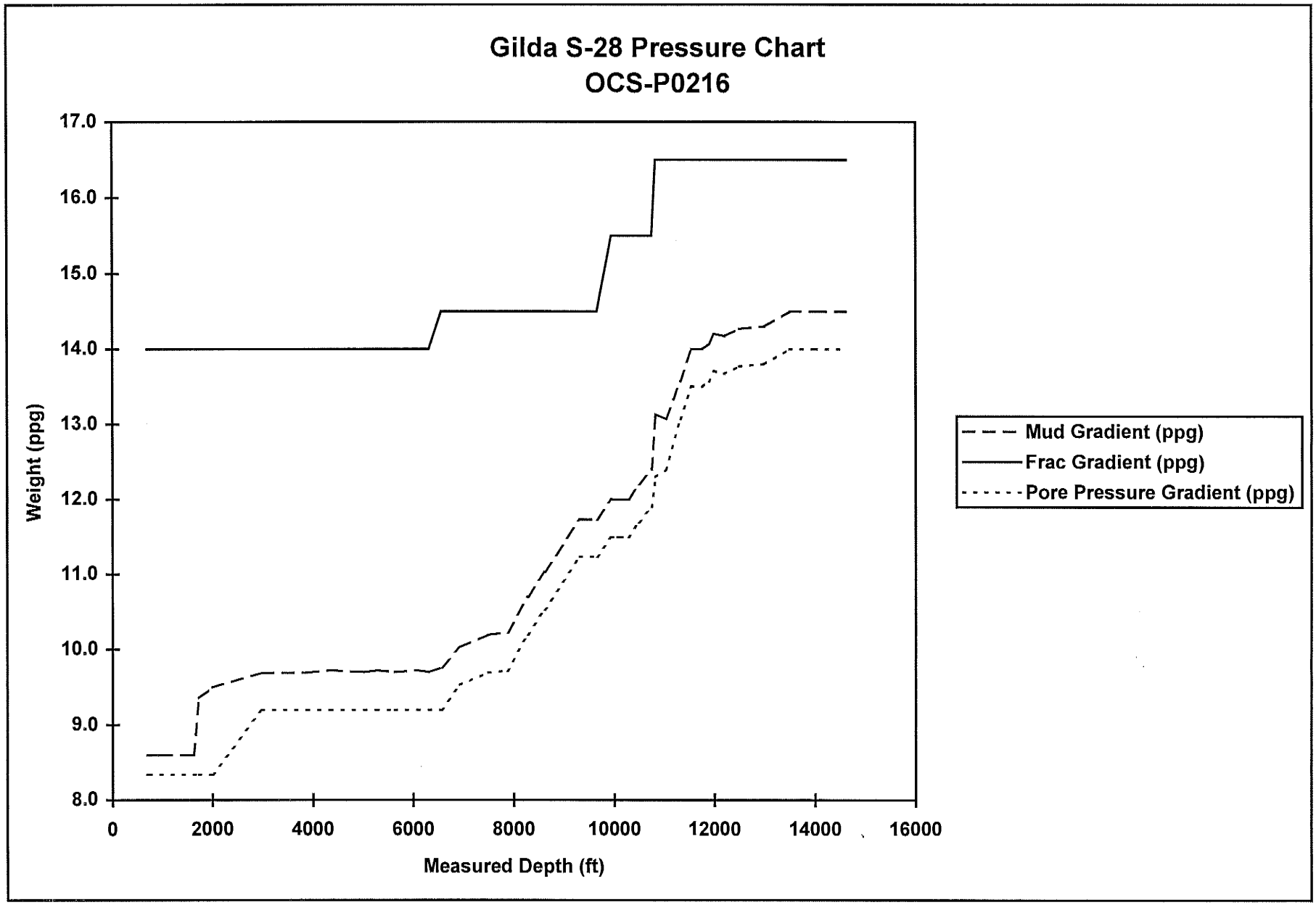
The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position tool joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 1750 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.


Gilda S-28 Pressure Chart
OCS-P0216
17.0
16.0
15.0
14.0
13.0
12.0
11.0
10.0
9.0
8.0
Weight (ppg)
0
2000
4000
6000
8000
10000
12000
14000
16000
Measured Depth (ft)
Mud Gradient (ppg)
Frac Gradient (ppg)
Pore Pressure Gradient (ppg)

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	FLUID LOSS (cc 30 min)	MUD COMPONENTS
6475' - 6515'	10.5	60 - 80	N/C	Seawater Durogel Soda Ash
Mill Window in 9-5/8" Casing				
6475' - 13,542"	10.5 - 12.0	45-55	6 - 7 cc	Seawater Gelite Soda Ash SP-101 Barite Soltex Tannathin XCD Lube 100
Run 7-5/8" Casing				
13,542' - 14, 618'	14.0 - 14.6	40 - 50	6 - 7 cc	Seawater Gelite SP-101 Soda Ash Barite Soltex XCD Tannathin Lube 100
Run 5-1/2" Liner				

DISCUSSION BY INTERVAL

INTERVAL:	Milling	9-5/8" Casing	6475' - 6515

FLUID TYPE: Milling Fluid

COMPONENTS WITH TYPICAL USAGE LEVELS:

M-I Gel	25 ppb
Soda Ash	.5 ppb
Sawdust	as needed
Barite	as needed for weight
XCD	.5 - 1 ppb

RECOMMENDED MUD SPECIFICATIONS:

Density	10.5
Viscosity	60-80 sec/qt.
Yield Point	30+
Fluid Loss	no control
3 rpm reading	20+

POSSIBLE PROBLEMS / SOLUTIONS:

1. Hole Cleaning
   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

DISCUSSION:

Mix M-I Gel with fresh water to achieve the above specified properties for good hole cleaning. Add XCD Polymer to supplement the M-I Gel in transporting and suspending the metal cuttings. A weighted M-I Gel/XCD system will convert to a drilling fluid easier and more efficiently than a weighted Durogel milling fluid. Add Barite to reach 10.5 ppg and initiate milling. Intermittent sawdust sweeps will help remove metal cuttings. After milling the window, set a cement kick off plug and add Sodium Bicarb.

DISCUSSION BY INTERVAL

INTERVAL: 6475' - 13,542' 8-1/2" Hole Opened to 10"

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	18-22 ppb
Soda Ash ($NaCO_3$)	2-4 ppb
SP-101	1.5-2.0 ppb
Soltex	3.0 ppb
Barite (Barium Sulfate)	as needed
Dril Kleen	as needed
Tannathin	as needed
XCD	as needed
Lube 100	2% as needed

RECOMMENDED MUD SPECIFICATIONS:

Density	10.5 - 12.0 ppg
Viscosity	45-55 sec/qt
YP	12-18
3 RPM	8 - 12
Fluid Loss	6 - 7
pH	9.0 - 9.5
T.H. as Ca++	200 ppm or less
MBT	18-25

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate out a small intrusion
    b) Raise mud weight if necessary

2. Kick
    a) Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking
    a) Maintain a low fluid loss.
    b) Maintain 3 - 6 ppb of Soltex in the system.

4. Tight hole
    a) Wipe the hole.
    b) Reduce the fluid loss if necessary
    c) Raise the mud weight
    d) Add 2% Lube 100

5. Solids build up
    a) Run all applicable solids control equipment
    b) Dilute

6. Foaming
    a) Use Defoam X
    b) Add fresh Gelite

7. Stuck Pipe
    a) Spot Pipe Lax ENV

DISCUSSION:

While polishing off plug, add Sodium Bicarb, Tannathin, and seawater. Break the mud over with 2 ppb SP-101 and then add 3 ppb Soltex and pre-hydrated Gelite. Begin drilling and monitor the well for gas.

Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. SP-101 should be added to control the API fluid loss in the 6-7 cc range. Soltex will also assist with the HTHP. Add XCD to maintain a 3 RPM reading of 9 or above to prevent cuttings beds from forming in the 40° - 70° section of the hole. Soda Ash should be added to keep the Calcium level below 200 Mg/L. This will help the effectiveness of the SP-101 and other chemicals. Barite should be used to maintain the proper mud density. Slug the drill pipe with Dril-Kleen to help keep the BHA clean.

Keep 40 to 60 barrels of a spotting fluid on the dock for differential stuck pipe. We recommend Pipelax ENV.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 175 mesh screen on the mud cleaner. Dilute to control the buildup of fine drilled solids.

Open hole to 10" following the same mud specifications. Add 2% Tekmud or Lube 100 before running casing.

DISCUSSION BY INTERVAL

INTERVAL: 13,542' - 14,610' 6-1/2" Hole opened to 8" for 5-1/2" Liner

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	18-22 ppb
Soda Ash ($NaCO_3$)	2-4 ppb
SP-101	1.5 - 2.0 ppb
Soltex	3-5 ppb
Barite (Barium Sulfate)	as needed to maintain proper mud wt.
Tannathin	as needed
Dril Kleen	as needed
XCD	as needed
Lube 100	2% as needed

RECOMMENDED MUD SPECIFICATIONS:

Density	14.0 - 14.5
Viscosity	45 - 55 sec/qt
YP	8 - 12
3 RPM Reading	7-10
Fluid Loss	6 - 7 cc
HTHP	Below 35
pH	9.0 - 9.5
T.H. as Ca^{++}	200 ppm or less
MBT	18 - 22

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate out a small intrusion
    b) Raise mud weight if necessary

2. Kick
    a) Maintain good drilling practices. Keep the hole full - don't swab on trips. Run the proper density.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking
    a) Maintain a low fluid loss.
    b) Maintain 4 - 6 ppb of Soltex in the system.

4. Tight hole
    a) Wipe the hole.
    b) Reduce the fluid loss if necessary
    c) Raise mud weight
    d) Add 2% Lube 100

5. Solids build up
    a) Run all applicable solids control equipment - small as screens as possible.
    b) Dilute

6. Foaming
    a) Use Defoam X
    b) Add fresh Gelite

7. Stuck Pipe
    a) Spot Pipelax ENV

DISCUSSION:

Clean out cement to the shoe, condition the mud, and weight the system up to 14.0 ppg. Drill out the shoe and perform a leak off test. Drill ahead, maintaining 3 ppb of Soltex in the system. Add Barite for the required mud weight. Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. SP-101 should be added to control the API fluid loss in the 6-7 cc range. Add XCD to maintain a 3 RPM reading of 7 or above to prevent cuttings beds from forming in the 40° - 70° section of the hole. Soda Ash should be added to keep the Calcium level below 200 Mg/L. Slug the drill pipe with Dril-Kleen to help keep the BHA clean.

Keep 40 to 60 barrels of a spotting fluid on the dock for differential stuck pipe. We recommend Pipelax ENV.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 175 mesh screen on the mud cleaner. Dilute to control the buildup of fine drilled solids.

Open hole to 8" following the same mud specifications. Add 2% Tekmud or Lube 100 before running liner.

TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : ~~S66~~ S-28 (Rev. A6)

Field : OFFSHORE SANTA BARBARA Location : CALIFORNIA

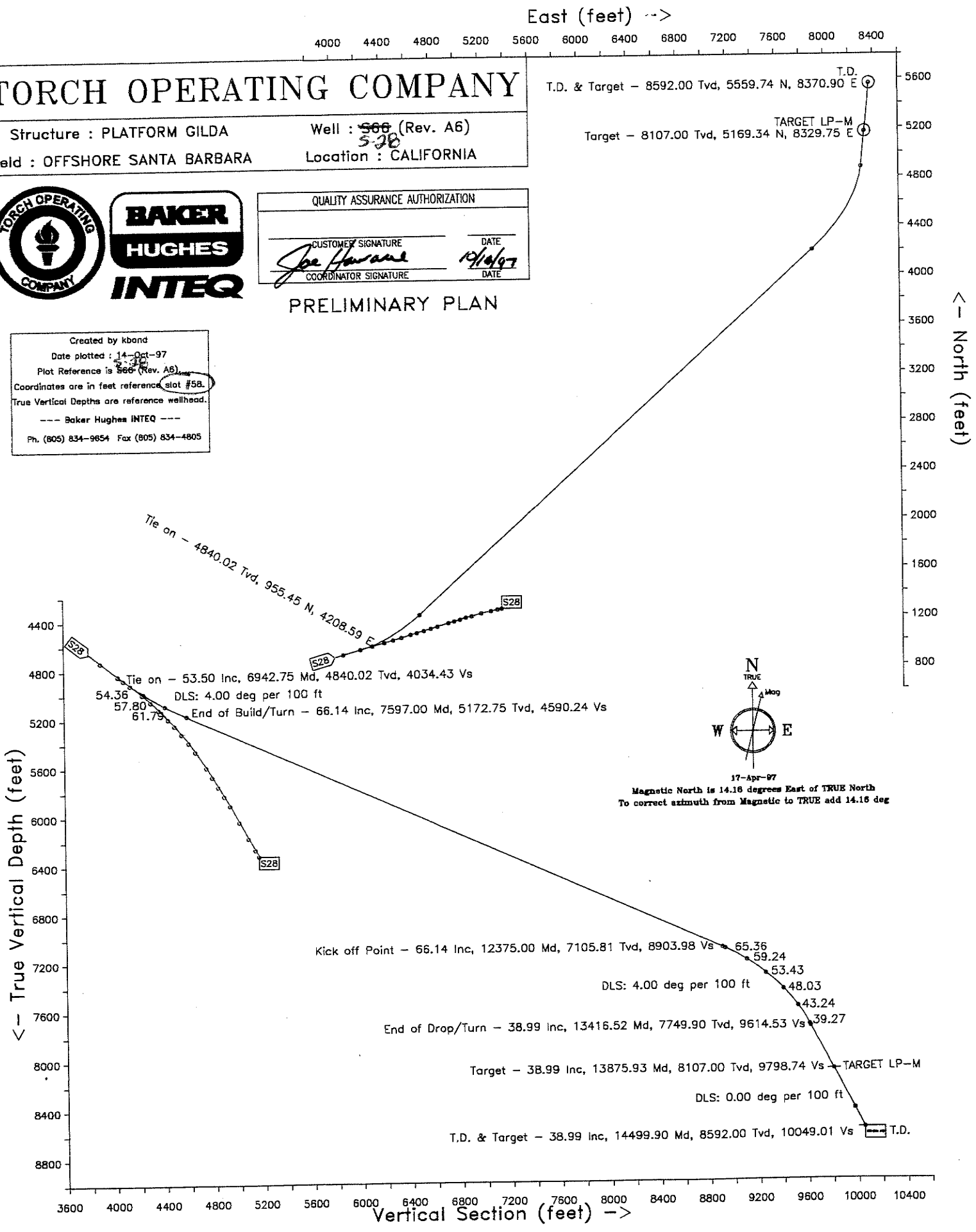
QUALITY ASSURANCE AUTHORIZATION

CUSTOMER SIGNATURE DATE

COORDINATOR SIGNATURE DATE 10/16/97

PRELIMINARY PLAN

Created by kbond
Date plotted : 14-Oct-97
Plot Reference is ~~S66~~ S-28 (Rev. A6).
Coordinates are in feet reference slot #58.
True Vertical Depths are reference wellhead.
--- Baker Hughes INTEQ ---
Ph. (805) 834-9654 Fax (805) 834-4805



Azimuth 56.41 with reference 0.00 N, 0.00 E from slot #58

TORCH OPERATING COMPANY
PLATFORM GILDA
S-28
~~S66~~ (Rev. A6)
slot #58
OFFSHORE SANTA BARBARA
CALIFORNIA

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

S28
Your ref : ~~S66~~ (Rev. A6)
Our ref : prop3116
License :

Date printed : 14-Oct-97
Date created : 13-Oct-97
Last revised : 14-Oct-97

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.763,w119 25 6.300
Slot Grid coordinates are N 748020.835, E 1041778.491
Slot local coordinates are 33.20 N 44.50 E

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Should have referenced Grid North.
Directional survey should be corrected
to Grid North.

TORCH OPERATING COMPANY S28
PLATFORM GILDAsouth block, ~~S66~~ (Rev. A6)
OFFSHORE SANTA BARBARA,CALIFORNIA

PROPOSAL LISTING Page 1
Your ref : ~~S66~~ (Rev. A6) S28
Last revised : 14-Oct-97

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
6942.75	53.50	73.91	4840.02	955.45N	4208.59E	0.00	4034.43	1046014.44	748848.02
7000.00	54.36	71.29	4873.73	969.29N	4252.74E	4.00	4078.87	1046058.99	748860.52
7042.00	55.03	69.40	4898.00	980.83N	4285.01E	4.00	4112.13	1046091.60	748871.06
7100.00	56.00	66.85	4930.84	998.64N	4329.37E	4.00	4158.94	1046136.49	748887.53
7142.00	56.74	65.03	4954.10	1012.90N	4361.30E	4.00	4193.43	1046168.84	748900.81
7200.00	57.80	62.58	4985.46	1034.44N	4405.07E	4.00	4241.81	1046213.24	748921.01
7242.00	58.59	60.84	5007.60	1051.36N	4436.50E	4.00	4277.35	1046245.17	748936.96
7300.00	59.73	58.49	5037.33	1076.51N	4479.48E	4.00	4327.06	1046288.89	748960.80
7342.00	60.58	56.82	5058.23	1096.01N	4510.25E	4.00	4363.48	1046320.25	748979.35
7400.00	61.79	54.56	5086.19	1124.65N	4552.21E	4.00	4414.29	1046363.07	749006.71
7442.00	62.68	52.95	5105.76	1146.63N	4582.18E	4.00	4451.41	1046393.69	749027.77
7500.00	63.95	50.78	5131.81	1178.63N	4622.94E	4.00	4503.06	1046435.40	749058.52
7542.00	64.88	49.23	5149.95	1202.98N	4651.96E	4.00	4540.70	1046465.15	749081.98
7597.00	66.14	47.25	5172.75	1236.31N	4689.28E	4.00	4590.24	1046503.48	749114.16
7642.00	66.14	47.25	5190.95	1264.25N	4719.50E	0.00	4630.87	1046534.53	749141.17
7742.00	66.14	47.25	5231.41	1326.33N	4786.65E	0.00	4721.15	1046603.54	749201.19
7842.00	66.14	47.25	5271.87	1388.41N	4853.80E	0.00	4811.44	1046672.55	749261.20
7942.00	66.14	47.25	5312.33	1450.49N	4920.95E	0.00	4901.72	1046741.56	749321.22
8000.00	66.14	47.25	5335.79	1486.50N	4959.90E	0.00	4954.08	1046781.58	749356.03
8042.00	66.14	47.25	5352.78	1512.58N	4988.10E	0.00	4992.00	1046810.57	749381.24
8142.00	66.14	47.25	5393.24	1574.66N	5055.25E	0.00	5082.29	1046879.58	749441.25
8242.00	66.14	47.25	5433.70	1636.74N	5122.40E	0.00	5172.57	1046948.59	749501.27
8342.00	66.14	47.25	5474.16	1698.82N	5189.55E	0.00	5262.85	1047017.60	749561.29
8442.00	66.14	47.25	5514.61	1760.90N	5256.70E	0.00	5353.14	1047086.61	749621.30
8500.00	66.14	47.25	5538.08	1796.91N	5295.65E	0.00	5405.50	1047126.63	749656.11
8542.00	66.14	47.25	5555.07	1822.98N	5323.85E	0.00	5443.42	1047155.62	749681.32
8642.00	66.14	47.25	5595.53	1885.06N	5391.00E	0.00	5533.70	1047224.63	749741.33
8742.00	66.14	47.25	5635.99	1947.14N	5458.15E	0.00	5623.99	1047293.64	749801.35
8842.00	66.14	47.25	5676.44	2009.23N	5525.30E	0.00	5714.27	1047362.64	749861.37
8942.00	66.14	47.25	5716.90	2071.31N	5592.45E	0.00	5804.55	1047431.65	749921.38
9000.00	66.14	47.25	5740.37	2107.31N	5631.40E	0.00	5856.92	1047471.68	749956.19
9042.00	66.14	47.25	5757.36	2133.39N	5659.60E	0.00	5894.84	1047500.66	749981.40
9142.00	66.14	47.25	5797.82	2195.47N	5726.75E	0.00	5985.12	1047569.67	750041.41
9242.00	66.14	47.25	5838.27	2257.55N	5793.90E	0.00	6075.40	1047638.68	750101.43
9342.00	66.14	47.25	5878.73	2319.63N	5861.05E	0.00	6165.69	1047707.69	750161.45
9442.00	66.14	47.25	5919.19	2381.71N	5928.20E	0.00	6255.97	1047776.70	750221.46
9500.00	66.14	47.25	5942.65	2417.72N	5967.15E	0.00	6308.33	1047816.73	750256.27
9542.00	66.14	47.25	5959.65	2443.80N	5995.35E	0.00	6346.25	1047845.71	750281.48
9642.00	66.14	47.25	6000.10	2505.88N	6062.50E	0.00	6436.54	1047914.72	750341.50
9742.00	66.14	47.25	6040.56	2567.96N	6129.65E	0.00	6526.82	1047983.73	750401.51
9842.00	66.14	47.25	6081.02	2630.04N	6196.80E	0.00	6617.10	1048052.74	750461.53
9942.00	66.14	47.25	6121.48	2692.12N	6263.95E	0.00	6707.39	1048121.75	750521.54
10000.00	66.14	47.25	6144.94	2728.13N	6302.89E	0.00	6759.75	1048161.77	750556.35
10042.00	66.14	47.25	6161.93	2754.20N	6331.10E	0.00	6797.67	1048190.76	750581.56
10142.00	66.14	47.25	6202.39	2816.28N	6398.25E	0.00	6887.95	1048259.77	750641.58
10242.00	66.14	47.25	6242.85	2878.37N	6465.40E	0.00	6978.24	1048328.78	750701.59
10342.00	66.14	47.25	6283.31	2940.45N	6532.55E	0.00	7068.52	1048397.79	750761.61
10442.00	66.14	47.25	6323.76	3002.53N	6599.70E	0.00	7158.80	1048466.80	750821.62
10500.00	66.14	47.25	6347.23	3038.53N	6638.64E	0.00	7211.17	1048506.82	750856.43
10542.00	66.14	47.25	6364.22	3064.61N	6666.85E	0.00	7249.09	1048535.81	750881.64

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10049.01 on azimuth 56.41 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
10642.00	66.14	47.25	6404.68	3126.69N	6734.00E	0.00	7339.37	1048604.82	750941.66
10742.00	66.14	47.25	6445.14	3188.77N	6801.15E	0.00	7429.65	1048673.83	751001.67
10842.00	66.14	47.25	6485.59	3250.85N	6868.30E	0.00	7519.93	1048742.83	751061.69
10942.00	66.14	47.25	6526.05	3312.93N	6935.45E	0.00	7610.22	1048811.84	751121.71
11000.00	66.14	47.25	6549.52	3348.94N	6974.39E	0.00	7662.58	1048851.87	751156.51
11042.00	66.14	47.25	6566.51	3375.02N	7002.60E	0.00	7700.50	1048880.85	751181.72
11142.00	66.14	47.25	6606.97	3437.10N	7069.75E	0.00	7790.78	1048949.86	751241.74
11242.00	66.14	47.25	6647.42	3499.18N	7136.90E	0.00	7881.07	1049018.87	751301.75
11342.00	66.14	47.25	6687.88	3561.26N	7204.04E	0.00	7971.35	1049087.88	751361.77
11442.00	66.14	47.25	6728.34	3623.34N	7271.19E	0.00	8061.63	1049156.89	751421.79
11500.00	66.14	47.25	6751.80	3659.35N	7310.14E	0.00	8114.00	1049196.92	751456.60
11542.00	66.14	47.25	6768.80	3685.42N	7338.34E	0.00	8151.92	1049225.90	751481.80
11642.00	66.14	47.25	6809.25	3747.50N	7405.49E	0.00	8242.20	1049294.91	751541.82
11742.00	66.14	47.25	6849.71	3809.59N	7472.64E	0.00	8332.48	1049363.92	751601.83
11842.00	66.14	47.25	6890.17	3871.67N	7539.79E	0.00	8422.77	1049432.93	751661.85
11942.00	66.14	47.25	6930.63	3933.75N	7606.94E	0.00	8513.05	1049501.94	751721.87
12000.00	66.14	47.25	6954.09	3969.76N	7645.89E	0.00	8565.41	1049541.97	751756.68
12042.00	66.14	47.25	6971.08	3995.83N	7674.09E	0.00	8603.33	1049570.95	751781.88
12142.00	66.14	47.25	7011.54	4057.91N	7741.24E	0.00	8693.62	1049639.96	751841.90
12242.00	66.14	47.25	7052.00	4119.99N	7808.39E	0.00	8783.90	1049708.97	751901.92
12342.00	66.14	47.25	7092.46	4182.07N	7875.54E	0.00	8874.18	1049777.98	751961.93
12375.00	66.14	47.25	7105.81	4202.56N	7897.70E	0.00	8903.98	1049800.75	751981.74
12400.00	65.36	46.56	7116.08	4218.13N	7914.35E	4.00	8926.46	1049817.86	751996.80
12442.00	64.05	45.39	7134.02	4244.52N	7941.65E	4.00	8963.80	1049845.96	752022.35
12500.00	62.27	43.72	7160.21	4281.39N	7977.96E	4.00	9014.45	1049883.37	752058.10
12542.00	60.99	42.49	7180.17	4308.37N	8003.21E	4.00	9050.41	1049909.43	752084.30
12600.00	59.24	40.72	7209.07	4345.96N	8036.61E	4.00	9099.02	1049943.96	752120.86
12642.00	57.99	39.41	7230.94	4373.40N	8059.69E	4.00	9133.43	1049967.86	752147.59
12700.00	56.29	37.53	7262.41	4411.54N	8090.00E	4.00	9179.78	1049999.32	752184.79
12742.00	55.08	36.13	7286.08	4439.30N	8110.79E	4.00	9212.46	1050020.95	752211.91
12800.00	53.43	34.12	7319.97	4477.79N	8137.88E	4.00	9256.32	1050049.20	752249.56
12842.00	52.25	32.61	7345.34	4505.75N	8156.29E	4.00	9287.12	1050068.45	752276.95
12900.00	50.67	30.44	7381.48	4544.41N	8180.01E	4.00	9328.27	1050093.34	752314.87
12942.00	49.55	28.81	7408.41	4572.42N	8195.95E	4.00	9357.04	1050110.11	752342.38
13000.00	48.03	26.47	7446.63	4611.06N	8216.20E	4.00	9395.29	1050131.53	752380.39
13042.00	46.97	24.71	7475.00	4638.98N	8229.58E	4.00	9421.88	1050145.75	752407.90
13100.00	45.55	22.17	7515.11	4677.42N	8246.25E	4.00	9457.04	1050163.59	752445.81
13142.00	44.55	20.26	7544.78	4705.12N	8257.01E	4.00	9481.33	1050175.19	752473.18
13200.00	43.24	17.50	7586.58	4743.16N	8270.03E	4.00	9513.22	1050189.36	752510.81
13242.00	42.33	15.43	7617.40	4770.51N	8278.12E	4.00	9535.09	1050198.28	752537.90
13300.00	41.13	12.44	7660.69	4807.97N	8287.42E	4.00	9563.56	1050208.71	752575.06
13342.00	40.32	10.18	7692.52	4834.83N	8292.80E	4.00	9582.91	1050214.91	752601.75
13400.00	39.27	6.95	7737.09	4871.53N	8298.34E	4.00	9607.82	1050221.56	752638.27
13416.52	38.99	6.00	7749.90	4881.89N	8299.52E	4.00	9614.53	1050223.05	752648.58
13442.00	38.99	6.00	7769.71	4897.83N	8301.19E	0.00	9624.75	1050225.21	752664.47
13500.00	38.99	6.00	7814.79	4934.12N	8305.01E	0.00	9648.01	1050230.13	752700.63
13542.00	38.99	6.00	7847.44	4960.40N	8307.77E	0.00	9664.85	1050233.69	752726.81
13642.00	38.99	6.00	7925.17	5022.97N	8314.35E	0.00	9704.94	1050242.17	752789.16
13742.00	38.99	6.00	8002.90	5085.54N	8320.93E	0.00	9745.04	1050250.64	752851.50
13842.00	38.99	6.00	8080.63	5148.11N	8327.51E	0.00	9785.14	1050259.12	752913.85

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10049.01 on azimuth 56.41 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
13875.93	38.99	6.00	8107.00	5169.34N	8329.75E	0.00	9798.74	1050262.00	752935.00
13900.00	38.99	6.00	8125.71	5184.40N	8331.33E	0.00	9808.39	1050264.04	752950.01
13942.00	38.99	6.01	8158.36	5210.68N	8334.10E	0.00	9825.24	1050267.60	752976.19
14000.00	38.99	6.01	8203.44	5246.97N	8337.91E	0.00	9848.50	1050272.52	753012.35
14042.00	38.99	6.01	8236.09	5273.25N	8340.68E	0.00	9865.34	1050276.09	753038.54
14100.00	38.99	6.01	8281.17	5309.54N	8344.50E	0.00	9888.60	1050281.01	753074.70
14142.00	38.99	6.02	8313.81	5335.81N	8347.27E	0.00	9905.44	1050284.58	753100.88
14200.00	38.99	6.02	8358.90	5372.10N	8351.10E	0.00	9928.71	1050289.50	753137.04
14242.00	38.99	6.02	8391.54	5398.38N	8353.87E	0.00	9945.55	1050293.07	753163.22
14300.00	38.99	6.02	8436.62	5434.67N	8357.69E	0.00	9968.82	1050298.00	753199.38
14342.00	38.99	6.02	8469.27	5460.95N	8360.47E	0.00	9985.67	1050301.57	753225.56
14400.00	38.99	6.03	8514.35	5497.24N	8364.30E	0.00	10008.94	1050306.50	753261.72
14442.00	38.99	6.03	8547.00	5523.52N	8367.07E	0.00	10025.79	1050310.07	753287.91
14499.90	38.99	6.03	8592.00	5559.74N	8370.90E	0.00	10049.01	1050315.00	753324.00

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10049.01 on azimuth 56.41 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

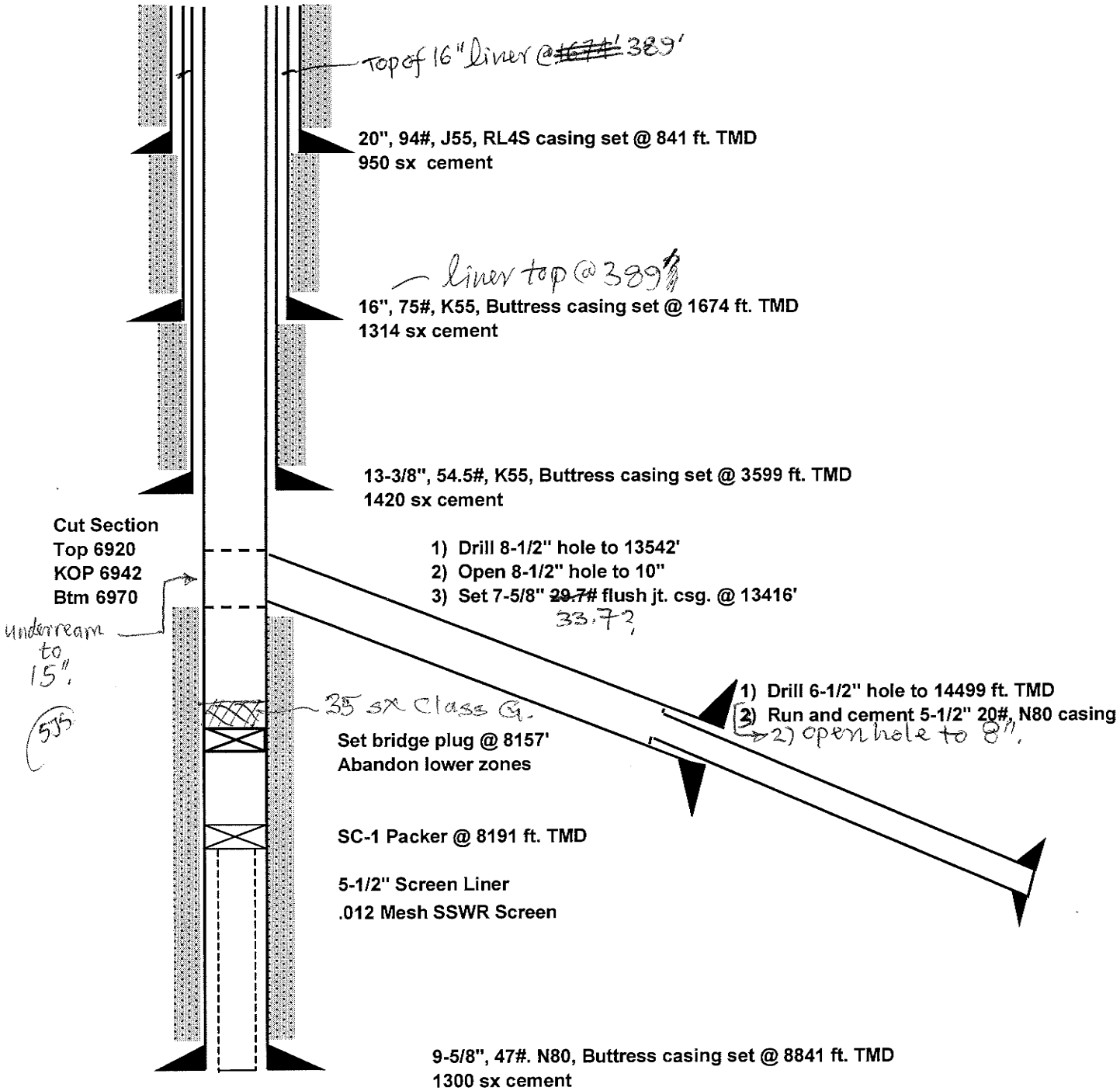
Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
13875.93	8107.00	5169.34N	8329.75E	TARGET LP-M
14499.90	8592.00	5559.74N	8370.90E	T.D.

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
TARGET LP-M	1050262.000,752935.000,999.00	8107.00	5169.34N	8329.75E	13-Oct-97
T.D.	1050315.000,753324.000,999.00	8592.00	5559.74N	8370.90E	13-Oct-97

Torch Operating Company
Platform Gilda, S-28 (slot #58)
OCS P-0216
Santa Clara Field
Santa Barbara County, Ca.



GPH S66diag DIAG
10/22/97 10:32 AM

Releasable to public
Name: SRH Date: 5/9/13

Copy to Vault

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies, with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 11/30/2011

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02		Venoco Inc. 6267 Carpinteria Ave. Ste 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
04-311-20674-02	1-29-10	3	
8. [x] Revision	9. If revision, please list changes: Perform post fracture clean-out and add perfs		

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4671	15. BLOCK NO. 4661

RECEIVED
FEB 22 2010
California District
MINERALS MANAGEMENT SERVICE
OFFICE OF FIELD OPERATIONS

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- [x] **Enhance Production**
  - [ ] Acidize
  - [ ] Artifical Lift
  - [x] Wash/Desand Well
  - [ ] Jet Well
- [ ] **Utility**
  - [ ] Initial Injection Well
  - [ ] Additional Fluids for Injection
- [ ] **Other Operations**
  - [ ] Describe Operation(s)
- [ ] **Workover:**
  - [ ] Change Tubing
  - [ ] Casing Pressure Repair
- [ ] **Abandonment of Well Bore:**
  - [ ] Permanent Abandonment
  - [ ] Temporary Abandonment
  - [ ] Plugback to Sidetrack/Bypass
  - [ ] Site Clearance
- [x] **Completion:**
  - [ ] Initial Completion
  - [ ] Reperforation
  - [ ] Change Zone
  - [x] Modify Perforations
- [ ] **Information:**
  - [ ] Surface Location Plat
  - [ ] Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):
Coiled Tubing clean-out fracture sand to 9540' and add perforations from 9525'-9528'

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*
Program, Coiled Tubing BOPE

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)
Kenai Rig 2

20. The greater of SITP or MASP (psi): 1800	21. Type of Safety Valve (SV): ___ SCSSV _x_ SSCSV ___ N/A	22. SV Depth BML (ft): ~~1000~~ +100'

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
_____	_____	Low/High: _____	_____	Low/High: _____

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
15000	Low/High: 250/5000	_____	Low/High: _____	Low/High: _____	_____

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
Dana Billings	805-745-2139	dbillings@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Cindy D. Lowe	Operations Manager
33. AUTHORIZING SIGNATURE	34. DATE
Cindy D. Lowe	1/26/2010

THIS SPACE FOR MMS USE ONLY

APPROVED BY:	TITLE	DATE
ORIG. SGD. BY: **Dan Knowlson**	for District Manager	JAN 28 2010

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	[x] YES [ ] NO [ ] N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	[ ] YES [x] NO [ ] N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	[ ] YES [ ] NO [x] N/A	
d) If sands are to be commingled for this completion, has aproval been obtained?	[ ] YES [ ] NO [x] N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	[ ] YES [x] NO [ ] N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	[ ] YES [ ] NO [x] N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-124, is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 5438, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

Venoco, Inc.

PPLATFORM GAIL-SOCKEYE FIELD

API# 04-311-2067402

LEASE OCS-P-0209

January 26, 2010

JOB PROCEDURE –Continued from APM approved Nov 23, 2009

1. Move in and rig up BJ Coiled Tubing, nitrogen generator and dual-choke reverse circulation manifold and all treatment flow-lines.
2. Fill and pressure test all iron, coiled tubing, riser to 250 psi low and 5000 psi high to the swab valve on the to of the tree. Set and test all pressure relief valves.
3. Pressure test coiled tubing BOPE to 250/5000 psi as per MMS regulations and BJ standard practice. NOTE: Pressure test the CT BOPE every 7 days and pressure test the connection every trip that the BOPE or riser system connection is unflanged or broken.
4. Run in hole with jetting /cleanout nozzle on 2" CT and clean out produced fracture sand to 9540'. Pull out CT.
5. Make up perforating gun on CT and RIH to perforate 9525'-9528'.
6. Pull out with perforating gun and return well to production.

Note: The additional perforations 9525'-9528' are below the bottom swell packer and will open the existing open hole section from 9540'-10,400' to produce into the 4.5" liner.

Vertical to 1415'
Inclination reaches 90° @ 6,350' MD/4,4[illegible] VD M2
Lateral (max 91° from 6,324' to 10,400' MD/4,664' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° @ 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

Lease: OCS-P-0209

SOCKEYE FIELD
WELL E-8RD
Single Producer M2 Lateral
POST FRAC COMPLETION

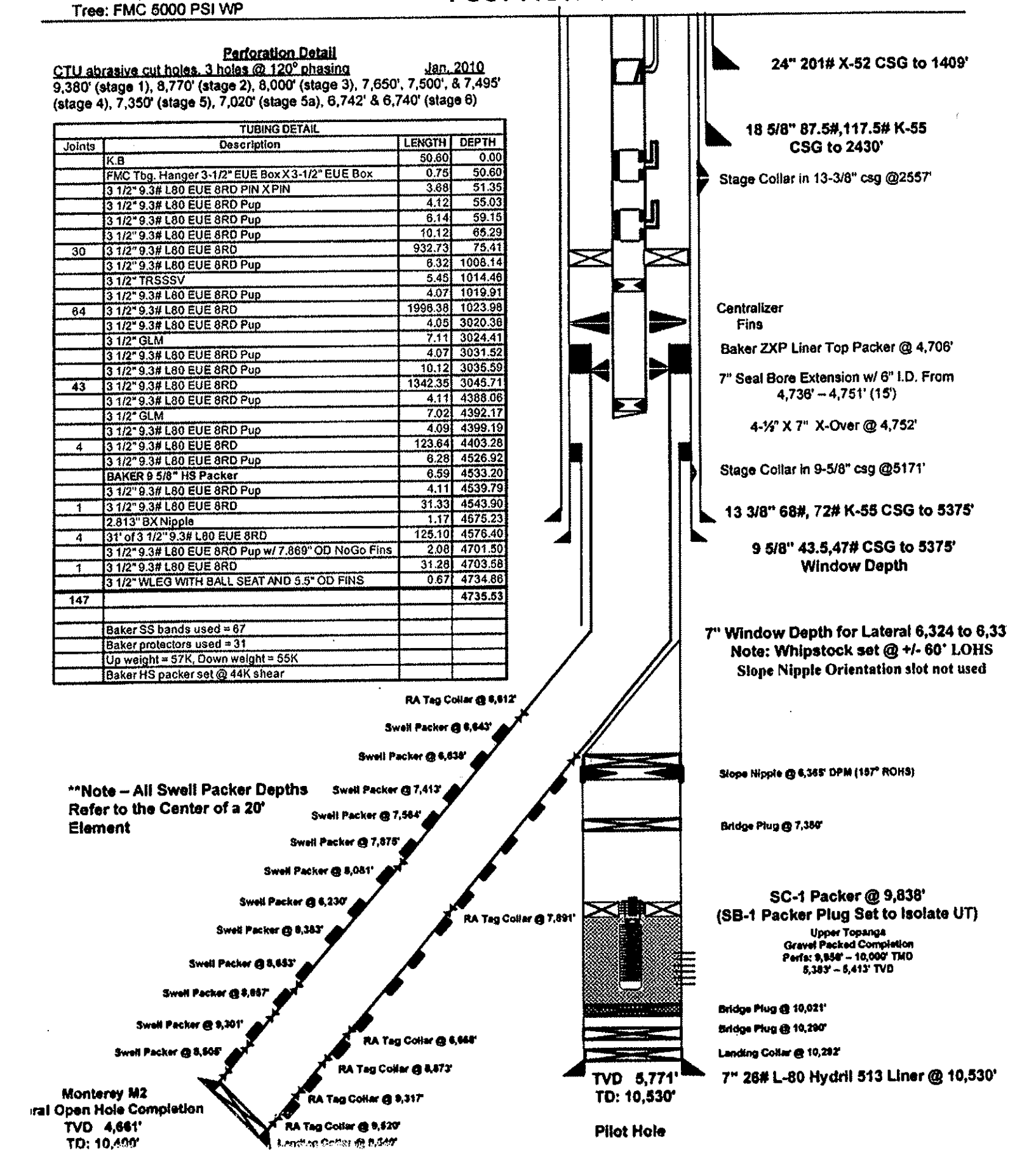
Drawing Revision 1/22/10 MLO

Completion Date: 6/24/06
Recompletion: 8/14/06, 10/04/06, 12/20/09, 1/15/10

Perforation Detail

CTU abrasive cut holes, 3 holes @ 120° phasing — Jan. 2010
9,380' (stage 1), 8,770' (stage 2), 8,000' (stage 3), 7,650', 7,500', & 7,495' (stage 4), 7,350' (stage 5), 7,020' (stage 5a), 6,742' & 6,740' (stage 6)

TUBING DETAIL			
Joints	Description	LENGTH	DEPTH
	K.B	50.60	0.00
	FMC Tbg. Hanger 3-1/2" EUE Box X 3-1/2" EUE Box	0.75	50.60
	3 1/2" 9.3# L80 EUE 8RD PIN X PIN	3.68	51.35
	3 1/2" 9.3# L80 EUE 8RD Pup	4.12	55.03
	3 1/2" 9.3# L80 EUE 8RD Pup	6.14	59.15
	3 1/2" 9.3# L80 EUE 8RD Pup	10.12	65.29
30	3 1/2" 9.3# L80 EUE 8RD	932.73	75.41
	3 1/2" 9.3# L80 EUE 8RD Pup	6.32	1008.14
	3 1/2" TRSSSV	5.45	1014.46
	3 1/2" 9.3# L80 EUE 8RD Pup	4.07	1019.91
64	3 1/2" 9.3# L80 EUE 8RD	1996.38	1023.98
	3 1/2" 9.3# L80 EUE 8RD Pup	4.05	3020.36
	3 1/2" GLM	7.11	3024.41
	3 1/2" 9.3# L80 EUE 8RD Pup	4.07	3031.52
	3 1/2" 9.3# L80 EUE 8RD Pup	10.12	3035.59
43	3 1/2" 9.3# L80 EUE 8RD	1342.35	3045.71
	3 1/2" 9.3# L80 EUE 8RD Pup	4.11	4388.06
	3 1/2" GLM	7.02	4392.17
	3 1/2" 9.3# L80 EUE 8RD Pup	4.09	4399.19
4	3 1/2" 9.3# L80 EUE 8RD	123.64	4403.28
	3 1/2" 9.3# L80 EUE 8RD Pup	6.28	4526.92
	BAKER 9 5/8" HS Packer	6.59	4533.20
	3 1/2" 9.3# L80 EUE 8RD Pup	4.11	4539.79
1	3 1/2" 9.3# L80 EUE 8RD	31.33	4543.90
	2.813" BX Nipple	1.17	4575.23
4	31' of 3 1/2" 9.3# L80 EUE 8RD	125.10	4576.40
	3 1/2" 9.3# L80 EUE 8RD Pup w/ 7.869" OD NoGo Fins	2.08	4701.50
1	3 1/2" 9.3# L80 EUE 8RD	31.28	4703.58
	3 1/2" WLEG WITH BALL SEAT AND 5.5" OD FINS	0.67	4734.86
147			4735.53
	Baker SS bands used = 67		
	Baker protectors used = 31		
	Up weight = 57K, Down weight = 55K		
	Baker HS packer set @ 44K shear		



HP Officejet 6310
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Log for

Jan 28 2010 9:34AM

Last Transaction

Date	Time	Type	Station ID	Duration	Pages	Result
Jan 28	9:34AM	Fax Sent	18057452211	0:36	1	OK

Herrick, Joann

From: Knowlson, Daniel
Sent: Thursday, January 28, 2010 7:42 AM
To: Donn Schmohr
Cc: Dana Billings; OEMM PAC California District; Victor, Frank
Subject: RE: Gail E-08

Donn, sorry for not getting back to you sooner, very busy here right now, and had to be sure that all involved were ok with a revision. The consensus is that a revision is acceptable. Therefore, your APM revision is approved as requested, please send hard copies via mail. If you would like a signed copy faxed right away please provide me your fax #. Thanks

---

From: Donn Schmohr [mailto:donn.schmohr@venocoinc.com]
Sent: Tuesday, January 26, 2010 11:20 AM
To: Knowlson, Daniel
Cc: Dana Billings
Subject: Gail E-08

Dan,
Attached is the addition to APM for E-08 post frac sand cleanout and add perfs in toe of well. Please advise if you would like us to send copies.
Thanks,

Donn R. Schmohr
Sr. Petroleum Eng.
Venoco Inc.
Mobile 805.223.5425
Desk 805.745.2161

Original

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies, with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 11/30/2011

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02		Venoco Inc 6267 Carpinteria Ave Carpinteria, CA 93013
5. API WELL NO. (12 digits)	**6. START DATE (Proposed)**	**7. ESTIMATED DURATION (DAYS)**	
04-311-20674-02	11-27-09	60	
8. ☒ Revision	**9. If revision, please list changes:** Revise bridge plug depth for UT abandonment to 9750' MD, it is requested that no cement due to risk of cement getting into M2 lateral open hole and precluding programmed clean out		

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4671	15. BLOCK NO. 4661

RECEIVED
MAR 15 2010
California District
MINERALS MANAGEMENT SERVICE
OFFICE OF FIELD OPERATIONS

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☐ **Other Operations**
  - ☐ Describe Operation(s)
- ☐ **Workover:**
  - ☐ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☒ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☒ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):

Revise bridge plug depth for UT abandonment to 9750' MD, it is requested that no cement due to risk of cement getting into M2 lateral open hole and precluding programmed clean out

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*

None - supplemental with clarifications only

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)

20. The greater of SITP or MASP (psi): 1800	21. Type of Safety Valve (SV): ___ SCSSV _x_ SSCSV ___ N/A	22. SV Depth BML (ft): +100

23. Rig BOP (Ram)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
13 5/8"	5000	Low/High: 250/2500	5000	Low/High: 250/2500

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
	Low/High:		Low/High:	Low/High:	

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
Dana Billings	805-745-2139	dbillings@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Gary Lower	Operations Manager
33. AUTHORIZING SIGNATURE	**34. DATE**
	11-23-09

THIS SPACE FOR MMS USE ONLY

APPROVED BY:	TITLE	DATE
	for District Manager	2/12/2010

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	[x] YES [ ] NO [ ] N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	[ ] YES [x] NO [ ] N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	[ ] YES [x] NO [ ] N/A	
d) If sands are to be commingled for this completion, has aproval been obtained?	[ ] YES [ ] NO [x] N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	[ ] YES [ ] NO [x] N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	[ ] YES [ ] NO [x] N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-124, is estimated to average between 1-3 hours per response, depending on whether it is a papar submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 5438, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

Vertical to 1415'
Inclination reaches 90° @ 6,350' MD/4,446' TVD M2
Lateral (max 91° from 6,324' to 10,400' MD/4,664' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° @ 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

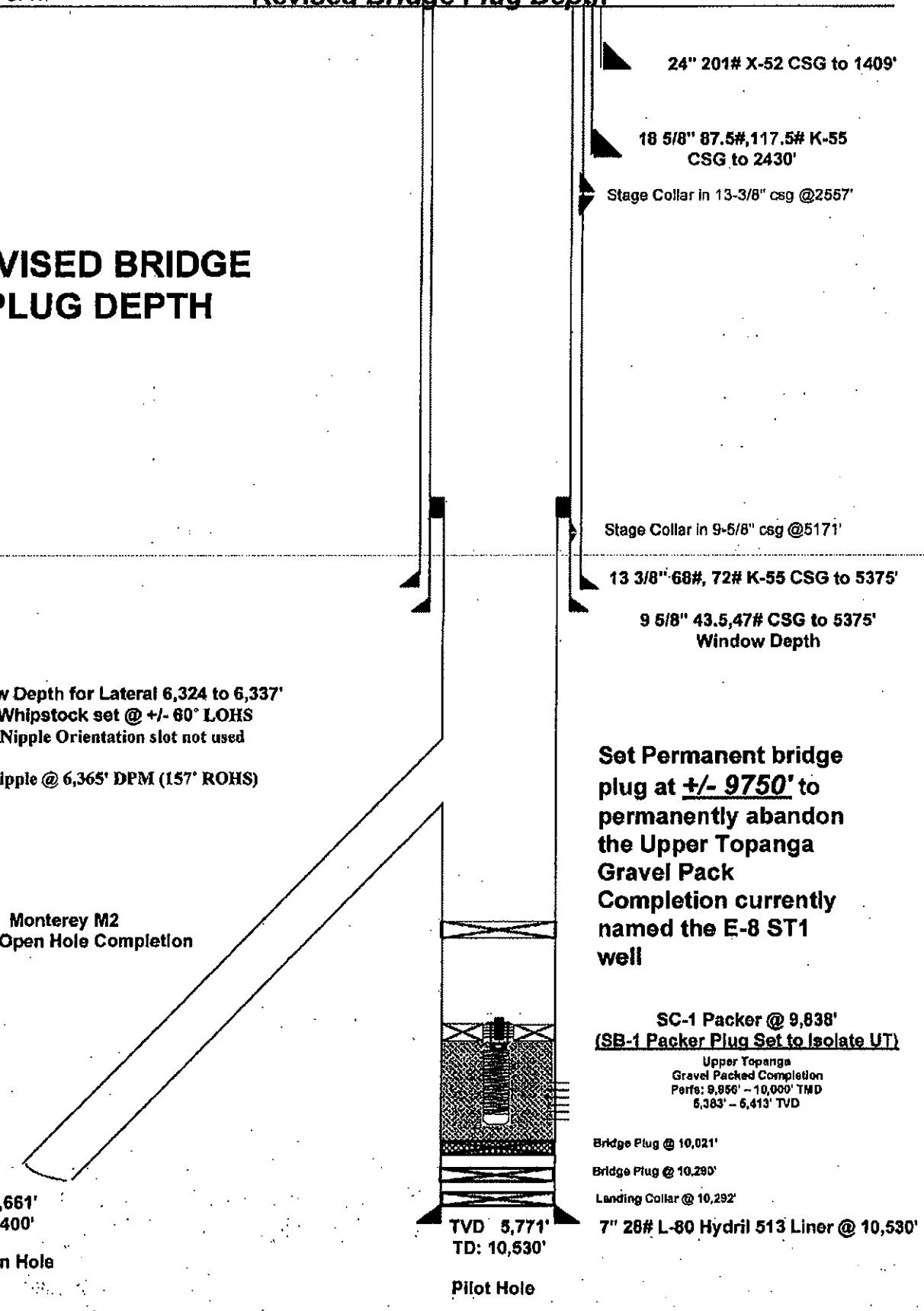
Lease: OCS-P-0209

Drawing Revision 11/23/09 DHB

SOCKEYE FIELD
WELL E-8ST1 and ST2
Single Producer M2 Lateral
Upper Topanga PROPOSED ABANDONMENT – Revised Bridge Plug Depth

Completion Date: 6/24/06
Recompletion: 8/14/06, 10/04/06

REVISED BRIDGE PLUG DEPTH



U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies, with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 11/30/2011

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02		Venoco Inc 6267 Carpinteria Ave Carpinteria, CA 93013
5. API WELL NO. (12 digits)	**6. START DATE (Proposed)**	**7. ESTIMATED DURATION (DAYS)**	
04-311-20674-02	11-27-09	60	
8. [x] Revision	9. If revision, please list changes:	Revise bridge plug depth for UT abandonment to 9750' MD, it is requested that no cement due to risk of cement getting into M2 lateral open hole and precluding programmed clean out	

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4671	15. BLOCK NO. 4661

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- [ ] **Enhance Production**
  - [ ] Acidize
  - [ ] Artifical Lift
  - [ ] Wash/Desand Well
  - [ ] Jet Well
- [ ] **Utility**
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  - [ ] Additional Fluids for Injection
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  - [ ] Describe Operation(s)
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None - supplemental with clarifications only

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20. The greater of SITP or MASP (psi): 1800	21. Type of Safety Valve (SV): ___ SCSSV _x_ SSCSV ___ N/A	22. SV Depth BML (ft): +100

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Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
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	Low/High:		Low/High:	Low/High:	

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
Dana Billings	805-745-2139	dbillings@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Gary Lower	Operations Manager
33. AUTHORIZING SIGNATURE	**34. DATE**
Gary Lower	11-23-09

THIS SPACE FOR MMS USE ONLY

APPROVED BY: DATE:

Application for Permit to Modify (APM) Information Sheet

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Copy to Vault

COPY #1

Releasable to public Name: SEH Date: 5/9/13

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies,with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 11/30/2011

Application for Permit to Modify (APM)

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5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
04-311-20674-02	12-26-09	14	
8. [X] Revision	9. If revision, please list changes: Details on fracture stimulation		

RECEIVED
MAR 15 2010
MINERALS MANAGEMENT SERVICE
OFFICE OF FIELD OPERATIONS

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
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  - [ ] Permanent Abandonment
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Program for coil tubing supported fracture stimulation attached

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Program, Coil Tubing BOPE

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)
Kenai Rig 2

20. The greater of SITP or MASP (psi): 1800	21. Type of Safety Valve (SV): ___ SCSSV ___SSCSV _x_ N/A	22. SV Depth BML (ft): NA

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi) Low/High:	Working Pressure (psi)	Test Pressure (psi) Low/High:

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi) Low/High:	Working Pressure (psi)	Test Pressure (psi) Low/High:	Working Pressure (psi)	Test Pressure (psi) Low/High:
15000	250/5000				

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
Dana Billings	805-745-2139	dbillings@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Ed O' Donnell	Senior Vice President
33. AUTHORIZING SIGNATURE	34. DATE
	December 22, 2009

THIS SPACE FOR MMS USE ONLY

APPROVED BY:	TITLE	DATE
ORIG. SGD. BY: **Dan Knowlson**	For: District Manager	DEC 23 2009

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
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a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	[x] YES [ ] NO [ ] N/A	
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VENOCO, INC.

PLATFORM GAIL - SOCKEYE FIELD
E-8 ST2
Fracture Stimulation Program
API# 04-311-2067402
LEASE OCS-P-0209
December 22, 2009 (attach to MMS APM)

JOB PROCEDURE

1. The landing collar and/or RA Tags will be the depth reference for the coiled tubing depth on all stages.

2. Move in and rig up BJ Coil Tubing and Fracture Stimulation Equipment (as in Drawing) dual-choke reverse circulation manifold and all treatment and flow lines.

3. Rig up of coiled tubing to wellhead. Fill and pressure test Pump Iron, Coil Tubing, Riser, and flow iron to choke manifold to 250 psi low and 5,000 psi high to the swab valve on the top of the tree. Set and test all Pressure Relief Valves. Follow detailed Coil Tubing Mobilization and rig up Plan.

4. Pressure test Coil Tubing BOPE equipment to 250/5000 psi as per MMS regulations and BJ Standard Practice. NOTE: Pressure test the CT BOPE every 7 days and pressure test the connection every trip that the BOPE or riser system connection is unflanged or broken.

5. Make drift run with Coil Tubing (CT) Run in hole with CT to establish depth control and mark tubing to correlate depths. Pull out with CT.

6. Make up perforation tool on CT, run in and cut perforations as per table below for stage #1. Pull out with CT

7. Open Fracture Head valves. Pump injection test for first stage. Pump stage #1 (Typical stage estimated to be 50,000# 20/40 white sand with Spectra G fracture stimulation fluid)

8. Pressure test sand plug. If plug does not test make up and run in with composite bridge plug and set below next stage perforation depth.

9. Repeat steps # 6 – 8 for Fracture Stimulation stages listed below, packer depths are estimated, acid stimulation intervals to be completed later date. Be prepared to clean out sand as needed.

STAGE	TYPE	L.PACKER*	U.PACKER*	PERF's
1	FRAC	9500	9300	9384
BLANK			9290-8870	
2	FRAC	8860	8650	8768
BLANK			8640-8400	
3	ACID	8390	8230	8290
4	ACID	8230	8080	8170
5	FRAC	8080	7880	8000
BLANK			7870-7574	
6	FRAC	7564	7400	7470
7	FRAC	7400	6820	7020
8	FRAC	6820	6650	6740

6 STAGES
(1) Frac sand / Flex Sand then Flex Sand - go to Next zone - then ...
(2) N4 / Test BOP
(3) pull Frac string
(4) RIH completion

After completion of fracture stimulation stages make up clean out assembly on CT. Run in and clean out sand and composite bridge plugs as needed. Return to step #29 of original APM approved November 23, 2009.

Vertical to 1415'
Inclination reaches 90° @ 6,350' MD/4,446' TVD M2
Lateral (max 91° from 6,324' to 10,400' MD/4,664' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° @ 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: Fracture Tree – 4 ½" Cameron 5000 PSI WP

Lease: OCS-P-0209

SOCKEYE FIELD
WELL E-8RD

Drawing Revision 12/22/09 DHB

Completion Date: 6/24/06
Recompletion: 8/14/06, 10/04/06

PROPOSED FRAC DESIGN

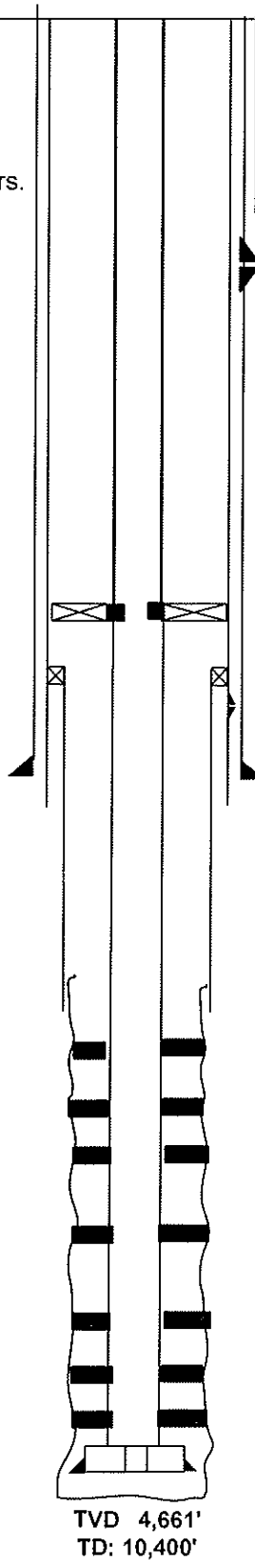
Completion Liner 4 ½" 12.6# L80 Liner

- 12 Tam Swell Packers
- Perforate via coil tubing jetting between swell packers.

#		Actual Top Jt	Actual Mid Pkr
1	Swell Packer	9490	9505
2	Swell Packer	9286	9301
3	Swell Packer	8842	8857
4	Swell Packer	8638	8653
5	Swell Packer	8368	8383
6	Swell Packer	8215	8230
7	Swell Packer	8066	8081
8	Swell Packer	7860	7875
9	Swell Packer	7549	7564
10	Swell Packer	7398	7413
11	Swell Packer	6819	6834
12	Swell Packer	6628	6643

7" Window Depth for Lateral 6,324 to 6,337'
Note: Whipstock set @ +/- 60° LOHS
Slope Nipple Orientation slot not used

Slope Nipple @ 6,365' DPM (157° ROHS)



24" 201# X-52 CSG to 1409'

18 5/8" 87.5#,117.5# K-55 CSG to 2430'

Stage Collar in 13-3/8" csg @2557'

4 ½" 12.75# L80 RTS-8 Tubing from 4709' to surface

9 5/8" x 4-½" Liner Top PBR at 4709'

Top of 7" liner at 5126' MD

Stage Collar in 9-5/8" csg @5171'

13 3/8" 68#, 72# K-55 CSG to 5375'

9 5/8" 43.5,47# CSG to 5375' Window Dep

7" 26# L-80 Hydril 513 Liner w/ window @ 6,324'

4-1/2" 12.6# L-80 Liner @ 9,545'

TVD 4,661'
TD: 10,400'

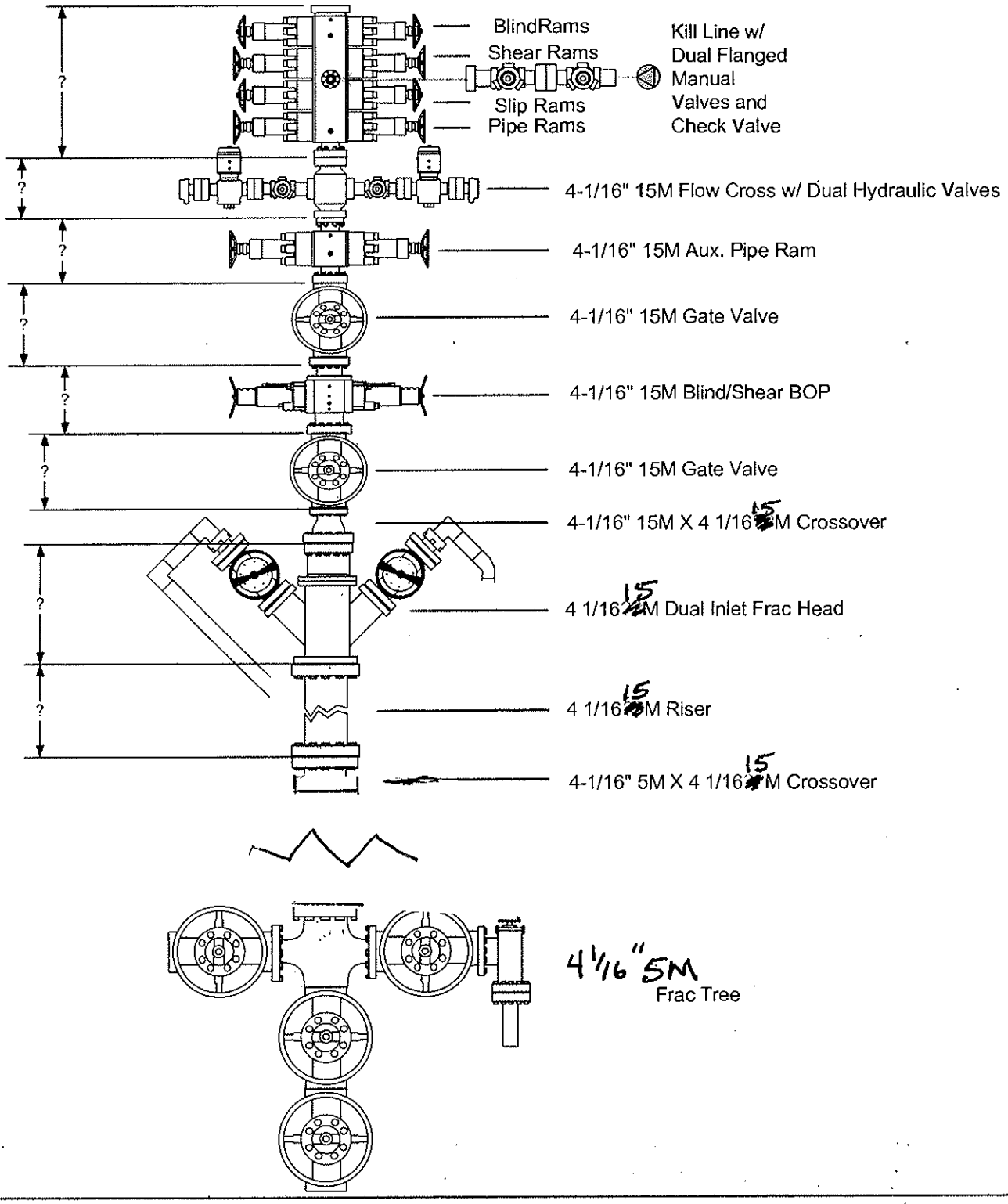
6 1/8" Lateral Hole

Proposed CT/Frac 4-1/16" Stack Configuration

Items in BLUE Provided by Lafayette CT Ops

Client: **Venoco**
Well:
Date: **12/04/09**
Drawn by: **Charles A. Liles**

Note: **Not to Scale**



Post-it® Fax Note 7671 | Date 12/23/09 | # of pages ▶ 1
To Dana Billings | From Dave Gilbreath
Co./Dept. Venoco | Co. MMS
Phone # (805) 223-1907 | Phone # 805-389-7775
Fax # (805) 745-2213 (805) 745-2100 | Fax # 805-389-7784

U.S. Department of t
Minerals Managemen

OMB Control No. 1010-0141
IB Approval Expires 11/30/2011

1. WELL NAME (CURRENT	OR NAME and ADDRESS office)
E-8	IC 6267 Carpinteria Ave Ste100 Carpinteria CA 93013

5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)
04-311-20674-02	12-26-09	14

8. ☒ Revision

9. If revision, please list changes: Details on fracture stimulation

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
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15000	250/5000				

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
Dana Billings	805-745-2139	dbillings@venocoinc.com

31. AUTHORIZING OFFICIAL (Type or Print Name)	32. TITLE
Ed O' Donnell	Senior Vice President
33. AUTHORIZING SIGNATURE	34. DATE December 22, 2009 12/23/09

FOR MMS USE ONLY

for Phil Schroeder

HP Officejet 6310
Personal Printer/Fax/Copier/Scanner

Log for

Dec 23 2009 11:47AM

Last Transaction

Date	Time	Type	Station ID	Duration	Pages	Result
Dec 23	11:46AM	Fax Sent	18057452213	1:12	1	OK

VENOCO, INC

Fax Transmittal Cover Sheet

DATE: 12/22/09 TIME: _____ AM / PM

TO: Phil Schroeder PHONE: (___) _____

COMPANY: MMS FAX: (___) 389-7784

FROM: Dara Billings - 805-223-1907

NUMBER OF PAGES (INCLUDING COVER SHEET): 6

RE: Platform Gail E-B ST2 Fracture Stimulation

MESSAGE: Phil,

Step 25-28 of originally approved program outlined in general terms what we planned for fracture stimulation and stated an APM would be submitted with additional detail. Attached is the APM and proposed program for fracture stimulation. We will mobilize equipment Dec 26-31st + plan to start +/- Jan 2ND

6267 Carpinteria Avenue, Suite 100 Carpinteria, California 93013

Telephone (805) 745-2100 Fax (805) 745-2213

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	[x] YES [ ] NO [ ] N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	[ ] YES [x] NO [ ] N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	[ ] YES [ ] NO [x] N/A	
d) If sands are to be commingled for this completion, has aproval been obtained?	[ ] YES [ ] NO [x] N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	[ ] YES [ ] NO [x] N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	[ ] YES [ ] NO [x] N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment end procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-124, is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 5438, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

VENOCO, INC.

PLATFORM GAIL - SOCKEYE FIELD
E-8 ST2
Fracture Stimulation Program
API# 04-311-2067402
LEASE OCS-P-0209
December 22, 2009 (attach to MMS APM)

JOB PROCEDURE

1. The landing collar and/or RA Tags will be the depth reference for the coiled tubing depth on all stages.
2. Move in and rig up BJ Coil Tubing and Fracture Stimulation Equipment (as in Drawing) dual-choke reverse circulation manifold and all treatment and flow lines.
3. Rig up of coiled tubing to wellhead. Fill and pressure test Pump Iron, Coil Tubing, Riser, and flow iron to choke manifold to 250 psi low and 5,000 psi high to the swab valve on the top of the tree. Set and test all Pressure Relief Valves. Follow detailed Coil Tubing Mobilization and rig up Plan.
4. Pressure test Coil Tubing BOPE equipment to 250/5000 psi as per MMS regulations and BJ Standard Practice. NOTE: Pressure test the CT BOPE every 7 days and pressure test the connection every trip that the BOPE or riser system connection is unflanged or broken.
5. Make drift run with Coil Tubing (CT) Run in hole with CT to establish depth control and mark tubing to correlate depths. Pull out with CT.
6. Make up perforation tool on CT, run in and cut perforations as per table below for stage #1. Pull out with CT
7. Open Fracture Head valves. Pump injection test for first stage. Pump stage #1 (Typical stage estimated to be 50,000# 20/40 white sand with Spectra G fracture stimulation fluid)
8. Pressure test sand plug. If plug does not test make up and run in with composite bridge plug and set below next stage perforation depth.
9. Repeat steps # 6 – 8 for Fracture Stimulation stages listed below, packer depths are estimated, acid stimulation intervals to be completed later date. Be prepared to clean out sand as needed.

STAGE	TYPE	L.PACKER*	U.PACKER*	PERF's
1	FRAC	9500	9300	9384
BLANK	9290-8870			
2	FRAC	8860	8650	8768
BLANK	8640-8400			
3	ACID	8390	8230	8290
4	ACID	8230	8080	8170
5	FRAC	8080	7880	8000
BLANK	7870-7574			
6	FRAC	7564	7400	7470
7	FRAC	7400	6820	7020
8	FRAC	6820	6650	6740

After completion of fracture stimulation stages make up clean out assembly on CT. Run in and clean out sand and composite bridge plugs as needed. Return to step #29 of original APM approved November 23, 2009.

Vertical to 1415'
Inclination reaches 90° @ 6,350' MD/4,446' TVD M2
Lateral (max 91° from 6,324' to 10,400' MD/4,664' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° @ 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: Fracture Tree – 4 ½" Cameron 5000 PSI WP

Lease: OCS-P-0209

SOCKEYE FIELD
WELL E-8RD

PROPOSED FRAC DESIGN

Drawing Revision 12/22/09 DHB

Completion Date: 6/24/06
Recompletion: 8/14/06, 10/04/06

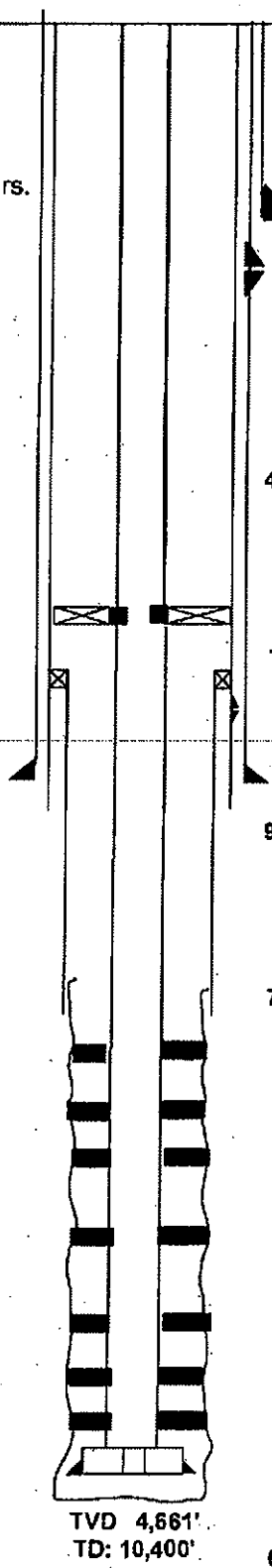
Completion Liner 4 ½" 12.6# L80 Liner

- 12 Tam Swell Packers
- Perforate via coil tubing jetting between swell packers.

#		Actual Top Jt	Actual Mid Pkr
1	Swell Packer	9490	9505
2	Swell Packer	9286	9301
3	Swell Packer	8842	8857
4	Swell Packer	8638	8653
5	Swell Packer	8368	8383
6	Swell Packer	8215	8230
7	Swell Packer	8066	8081
8	Swell Packer	7860	7875
9	Swell Packer	7549	7564
10	Swell Packer	7398	7413
11	Swell Packer	6819	6834
12	Swell Packer	6628	6643

7" Window Depth for Lateral 6,324 to 6,337'
Note: Whipstock set @ +/- 60° LOHS
Slope Nipple Orientation slot not used

Slope Nipple @ 6,365' DPM (157' ROHS)



24" 201# X-52 CSG to 1409'

18 5/8" 87.5#,117.5# K-55 CSG to 2430'

Stage Collar in 13-3/8" csg @2557'

4 ½" 12.75# L80 RTS-8 Tubing from 4709' to surface

9 5/8" x 4-½" Liner Top PBR at 4709'

Top of 7" liner at 5126' MD

Stage Collar in 9-5/8" csg @5171'

13 3/8" 68#, 72# K-55 CSG to 5375'

9 5/8" 43.5,47# CSG to 5375' Window Dep

7" 26# L-80 Hydril 513 Liner w/ window @ 6,324'

4-1/2" 12.6# L-80 Liner @ 9,545'

TVD 4,661'
TD: 10,400'

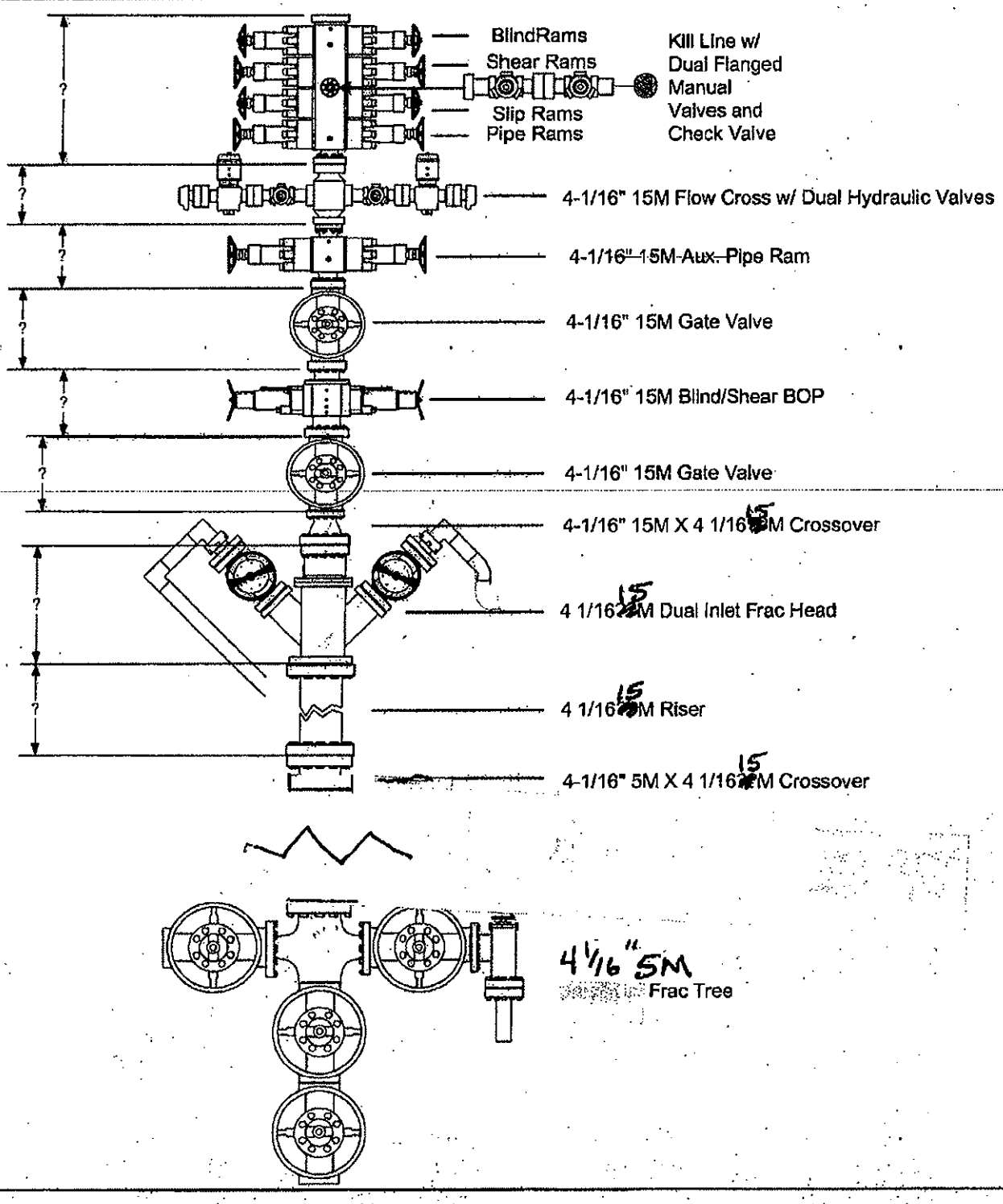
6 1/8" Lateral Hole

Proposed CT/Frac 4-1/16" Stack Configuration

Items in BLUE Provided by Lafayette CT Ops

Client: Venoco
Well:
Date: 12/04/09
Drawn by: Charles A. Liles

Note: Not to Scale



VENOCO, INC

Fax Transmittal Cover Sheet

DATE: 11-23-09 TIME: _____ AM / PM

TO: PHILS. - MMS PHONE: (___)_____

COMPANY: _____ FAX: (___) 389-7784

FROM: DANA BILLINGS

NUMBER OF PAGES (INCLUDING COVER SHEET): 6

RE: _____

MESSAGE: #1 APM w/ revised bridge plug depth and statement about why no cement on top of bridge plug
#2 Revised schematic

6267 Carpinteria Avenue, Suite 100 Carpinteria, California 93013

Telephone (805) 745-2100 Fax (805)

Releasable to Public
Name: SRH Date: 5/9/13

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies, with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 11/30/2011

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02	00	Venoco, Inc 6267 Carpinteria Ave., Ste 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
04-311-20674-02	11-27-2009	60 days	
8. ☐ Revision	9. If revision, please list changes:		

RECEIVED
NOV 23 2009
MINERALS MANAGEMENT SERVICE
CALIFORNIA DISTRICT

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4671	15. BLOCK NO. 4661

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☐ **Other Operations**
  - ☐ Describe Operation(s)
- ☐ **Workover:**
  - ☐ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☒ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☒ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):

Abandon Upper Topanga Zone, re-enter and run liner into M2 open hole lateral, fracture stimulate.

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*

See attached program and schematics

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)

Kenai Rig 2

20. The greater of SITP or MASP (psi): 1800	21. Type of Safety Valve (SV): ___ SCSSV X SSCSV ___ N/A	22. SV Depth BML (ft): +100

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi) Low/High: 250/2500	Working Pressure (psi)	Test Pressure (psi) Low/High: 250/2500
13 5/8	5000		5000	

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi) Low/High:	Working Pressure (psi)	Test Pressure (psi) Low/High:	Working Pressure (psi)	Test Pressure (psi) Low/High:

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
Dana Billings	805-745-2139	dbillings@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Gary Lower	Operations Manager
33. AUTHORIZING SIGNATURE	34. DATE 11-19-2009

THIS SPACE FOR MMS USE ONLY

APPROVED BY:	TITLE	DATE
ORIG. SGD. BY: **Dan Knowlson**	for: District Manager	NOV 23 2009

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	☒ YES ☐ NO ☐ N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	☐ YES ☒ NO ☐ N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	☐ YES ☒ NO ☐ N/A	
d) If sands are to be commingled for this completion, has aproval been obtained?	☐ YES ☐ NO ☒ N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	☐ YES ☐ NO ☒ N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	☐ YES ☐ NO ☒ N/A	

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releasable to public
Name: SRH Date: 5/9/13

VENOCO, INC.

PLATFORM GAIL - SOCKEYE FIELD
E-8 ST1 and ST2 (Multi Lateral Well)
Re-Completion Program
API# 04-311-2067402
LEASE OCS-P-0204
November 19, 2009 (attach to MMS APM)

Objective: To abandon the E-8 ST1 well bore currently an Upper Topanga perforated gravel packed completion and prepare for, re-enter and recomplete the existing E-8 ST2 Monterey lateral with a 4 ½" liner prepared for multi-stage fracture, currently an open hole completion.

Surface Location: OCS-P-205, Slot No. 17 (X= 1,046,687.33' & Y= 727,032.46')

Elevation: 739' WD, 113' Above MLLW, 852' Ocean Floor to Rig Floor

Total Depth:
OCS-P-209 E-8 ST1 Upper Topanga cased hole; 10530'MD/ 5771' VD (to be abandoned)
OCS-P-209 E-8 ST2 Monterey M2 Open Hole Lateral 10400'MD/ 4661' VD (to be reentered)
Note: Both wellbores TD in 209 lease

Existing Casing: **(USING NEW 107' DF)**

24", 201#, X-52	1403'	1140 cf
18 5/8", 87.5,117.5 K-55	2424'	1470 cf
13 3/8", 68,72# K-55	5344'	2451 cf DV @ 2557'
9 5/8", 40,43,47 # L-80/SS-95	5375' (window)	2952 cf DV @ 5171'
7" 26# L-80 Hyd 513 Liner	5126'-10,530'	1100 cf (cmtd on 5/25/06)
4" Wire Wrap Screen Liner	9838'-10021'	Gravel Pack, SC-1 packer at 9838'

NOTES:

- A packer plug was installed in the top of the SC-1 at 9838' and not pressure tested due to open hole lateral above. The Upper Topanga is isolated.
- Top 4 jts 9 5/8" reported as 47# , next 177 jts are 43.5# (btm of 43.5# estimated below 6800')
- The 7" X 9 5/8" liner top was tested to 3000 psi with 9.3 ppg OBM in the hole

Perforations
6324' – 10440 Open Hole Lateral in Monterey M2
9956'-10000' Upper Topanga gravel packed WWS Liner (To be abandoned)

Abandonment of Upper Topanga Interval
The Upper Topanga zone last produced August 2nd, 2006 40/466/0 (O/W/G), it was isolated with a plug in the top of the WWS liner in October 2006 to allow more efficient production from the M2 open hole lateral. In order to implement the proposed re-entry program it is necessary to permanently abandon the zone at this time.

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Name: SRH Date: 5/9/13

Proposed Liner
4 1/2" 11.6# or 13.5# L-80 GEOCON (buttress type thread) 6174' – 9200'
Not cement, installed with swell packer equipment for Multistage fracture stimulation

Current Completion Equipment

Description as run 8/14/06	ID	LENGTH	DEPTH
K.B		50.38	0.00
FMC tbg hanger w / Pup 3.55"		0.80	50.38
3 1/2" pin x pin 9.2# L-80 8rd EUE pup jt	2.992	3.55	51.18
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	10.16	54.73
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	10.08	64.89
31 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.812	967.84	74.97
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	**6.09**	1042.81
BAKER 3 1/2" " TE-5" SSSV	2.992	5.47	1048.90
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	4.13	1054.37
63 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992	1962.71	1058.50
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	**4.10**	3021.21
GAS LIFT MANDREL - GLV-1.0R 3/16" 1700psi	2.992	7.07	3025.31
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	4.10	3032.38
62 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992	1931.69	3036.48
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	**4.09**	4968.17
GAS LIFT MANDREL - CRO-1.0R 11/64" 1600psi	2.992	7.14	4972.26
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	4.08	4979.40
7 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.992	218.26	4983.48
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	6.17	5201.74
Baker HS production pkr w/ 50K shear release	**2.992**	**5.25**	**5207.91**
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	4.10	5213.16
1 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.750	30.97	5217.26
3-1/2" BX Profile Nipple	**2.992**	**1.18**	**5248.23**
37 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.635	1156.39	5249.41
3-1/2" BXN Profile Nipple	**2.992**	**1.26**	**6405.80**
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	10.15	6407.06
Wireline re-entry guide 5.125" OD		0.80	6417.21
Tail			6418.01

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Name: SRH Date: 5/9/13

BOPE Equipment and Testing

- BOPE will be tested every 7 days during proposed operations, except during the multi-stage fracture stimulation mobilization/operations/demobilization.
- BOP equipped with 4 ram preventers and an annular. Test the BOP to 250/2500 psi with 5" drill pipe and 3 1/2" drill pipe – NOTE: 2 3/8" rams and annular on 2 3/8" tubing to be tested immediately prior to picking up 2 3/8" tubing for running with liner – 2 3/8" will not be tested in BOPE testing operations prior to that. The well has 3 ½" tubing installed. The 13 5/8" BOPE will be configured for drilling or re-completion operations, with 2 7/8" X 5" VBR pipe rams in the top gate and blind/shear rams in the second gate from top, the mud cross will be below the blind/shear rams, and double gate with 5" rams at top and 2 3/8" rams will be located in the bottom of the double gate below the mud cross All tests will be recorded on a chart for the MMS to review.
- Before commencing well work operations it will be necessary to insure that fluids can be pumped down the tubing and casing simultaneously through equipment tested to 3000 psi. A 2 1/16 5M casing valve will be installed below the tubing hanger with a 1502 tee and a pressure gauge, a check valve and high pressure hose. It will be tested to 250/3000 psi for 5 minutes as part of the initial and regular BOPE tests. This connection will allow seawater to be pumped into the annulus at 3 bpm below the tubing hanger landing profile to keep the well under control. It will also prevent visual obstruction when landing the oriented tubing hanger.
- Sufficient fluid will be pumped into the well to keep the well under control per the field rules. The minimum rate of continuous pumping shall be 3 bpm.

Hydrogen Sulfide Considerations:

The Monterey and the Upper Topanga have the potential for hydrogen sulfide gas. Assume any gas circulated to surface to have hydrogen sulfide potential. Operations will adhere to the MMS approved "Platform Gail Hydrogen Sulfide and Sulfur Dioxide Contingency Plan".

NOTE: Have H2S scavengers on onboard suitable for use in NaCl seawater in the event they are required.

Work over Fluids:

- It is proposed to use up to 9.2 ppg NaCl mixed with seawater for workover operations. A fluid weight of 9.1+ was reported used during the last workover in Shut-in tubing pressures to be confirmed when rig moves onto well.
- The Monterey M2 interval will most likely stand full and there were reports of oil circulated out during intial completion operations. The open hole interval has not been re-entered since original completion.
- There will be no discharge of workover/completion fluids during the well operations.

Re-Completion Procedure

1. Shut-in well E-8 (Slot No. 17) and move rig over the well. Kill the well with 9.2 ppg NaCl weighted seawater depending upon shut in pressures. Bleed pressure down on casing and tubing string through production system as needed. Fill casing and tubing with seawater. Check for pressure and make sure the well is dead.

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Name: SRH Date: 5/9/13

2. Rig up slickline and lubricator and test to 2000 psi. Pressure test lubricator prior to each slickline run. Pull GLV from 4972'. Note: If unable to recover gas lift valve have equipment available to tubing punch either before or after BOPE nipple up and tested and if needed. Kill the well by circulating with 9.2 ppg NaCl weighted seawater and taking oil and oily returns to the production system. Bleed pressure down on casing and tubing string through production system as needed. Check for pressure and make sure the well is dead. Close SSSV, install BPV. Nipple down the production tree.

3. BOP equipped with 4 ram preventers and an annular. Test the BOP to 250/2500 psi with 5" drill pipe and 3 1/2" drill pipe pipe – NOTE: 2 3/8" rams and annular on 2 3/8" tubing to be tested immediately prior to picking up 2 3/8" tubing for running with liner – 2 3/8" will not be tested in BOPE testing operations prior to that. The well has 3 ½" tubing installed. The 13 5/8" BOPE will be configured for drilling or re-completion operations, with 2 7/8" X 5" VBR pipe rams in the top gate and blind/shear rams in the second gate from top, the mud cross will be below the blind/shear rams, and double gate with 5" rams at top and 2 3/8" rams will be located in the bottom of the double gate below the mud cross All tests will be recorded on a chart for the MMS to review. Additionally a 2 1/16" 5M casing valve below the tubing hanger with a 1502 tee and pressure gauge, a check valve and high pressure hose connection to it will be installed and tested to 250/3000 psi for 5 minutes. It will be used, if required, to continuously pump seawater into the well at 3 bpm below the hanger landing profile to keep the well under control and to prevent visual obstruction when landing the tubing hanger. The applicable BOPE will be tested every 7 days during the re-entry and completion phase of the operations, but not during the fracture stimulation operations.

4. Pull BPV, kill tubing and annulus by circulation, as needed through closed SSSV. Pull Baker Model HS packer loose and do not exceed 80% tensile pull on tubing.

5. Pull out of hole and lay down 3 ½" tubing and send in for immediate inspection – tubing to be re-run after completion of fracture operations.

6. Make up 9 5/8" casing scraper and run in picking up 5" drill pipe, run in and tag liner top at +/- 5126' MD. Circulate hole clean. Pull out of hole.

7. Make up 7" fixed scraper or watermelon mill, with brush assembly for cleanup of the slope nipple. Do not run all-weight scraper through the 7" window or slope nipple. Pick up 3 ½" drill pipe and HWdp and run in scraper on 3 ½"/ 5" drill pipe to +/- 9300'. Take extra care passing by milled window at 6324' and the slope nipple at 6365'. Brush and clean up slope nipple profile with brush assembly. Circulate hole clean. Pull out of hole. Note: if indicated combine this with the run in step #6.

8. Make up 7" Baker bridge plug and run in on drill pipe and set at +/- 9300' MD to permanently isolate and abandon the Upper Topanga perforations 9956'-10000'. Take extra care passing by milled window at 6324' and the slope nipple at 6365'. Pull out of hole with running tool.

9. Make up assembly with dummy locator and run in and confirm location and suitability of Slope Nipple for setting of whipstock. Do not run orientation key in the slope locator tool. Pull out with dummy run tools.

Releasable to public
Name: SRH Date: 5/19/13

10. Make up assembly with retrievable whipstock, Halliburton MWD and Slope Nipple Tool, run in locate, orient and set whipstock at orientation to allow re-entry in existing hole. Plan to orient whipstock with locator above slope nipple and then set down into slope nipple profile. Do not run orientation key in the slope locator tool. Run "hole finder" bald mill with whipstock assembly to confirm whipstock orientation is close. This may take multiple steps, trips and attempts to properly orient the whipstock. Have whipstock retrieval tools available. Note: All equipment to be tapered top and bottom to allow exit and re-entry through window.

11. Once whipstock is confirmed correct orientation, run hole finder assembly with bullnose joint of 3 ½" drillpipe and hole opener above, or similar agreed to assembly. Assess the suitability of whipstock placement for re-entry. Note: All equipment to be tapered top and bottom to allow exit and re-entry through window.

12. Pull out and pick up and run window mill assembly and mill-off whipstock to clean up casing exit window and attempt to re-enter old hole, ensure mills pass through window smoothly.

13. If mills have passed through window but clean out assembly is unable to locate in to the original hole and if indicated make up and run in with steerable assembly and directional drill +/- 100' and attempt to intersect existing hole. The well is not planned for additional full sidetrack at this time.

14. If existing hole is located clean out E-8 ST2 open hole with 6 1/8" bull nose hole opener clean out assembly to +/- 9400' with 9.1 ppg NaCl mixed in seawater, use pipe rotation and pump rate to clean out and use high viscosity polymer sweeps only if and as needed. Pull out of hole.

    Note: if oily returns are encountered it may be advantage to run open end to +/- 9400' and circulate bottoms up with one circulation taking returns to production as needed.

15. Make up recommended drift clean out assembly to prepare hole for the liner/swell packer installation. (Drift assembly details to be provided by swell packer supplier).

16. Run in with a Weatherford pipe convey caliper log on drillpipe and log open hole interval to confirm hole size and assess where swell packers are to be located.

17. Make up retrievable 7" service packer. Run in hole and set at +/- 6250' and pressure test 9 5/8" casing, 7" liner and 7" X 9 5/8" liner lap to 2500 psi for 30 minutes. Pull out of hole with packer. (Tested casing and liner top to 3000 psi with 9.3 ppg OBM mud on 05/25/2006 after cement liner). If clean out operations are delayed waiting on equipment – make packer run to test casing at that time.

18. Make additional clean out run prior to running liner. Wipe the hole to the 7" casing shoe. Pull out of the hole. Drift drillpipe.

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19. Rig up casing crew and run the 4 1/2", 11.6# (or heavier wall if indicated) L-80, GEOCON (buttress look alike) +/- 3026' liner from +/- 6174' to +/- 9200' as follows (Estimated depths for packers, final spacing to be provided after open hole and caliper log is run).
    4 1/2", 11.6#, L-80 Shoe
    4 ½" Oil Swell Packer #1
    Ball seat for Pressure Sleeve
    Pressure activated sleeve (for first fracture stage)
    "O" ring sub with seals for 2 3/8" washpipe slick stinger
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #2
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #3
    1 XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #4
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #5
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #6
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #7
    1 XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #8
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #9
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #10
    1 XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #11
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    4 ½" Oil Swell Packer #12
    XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing
    Note: Additional packers at other indicated depths may be run.
    Liner Hanger or Liner Hanger Packer at +/- 6174' MD

    Notes:
    - 2 3/8" rams and annular will be tested on 2 3/8" tubing to be tested immediately prior to picking up 2 3/8" tubing for running with liner – 2 3/8" will not be tested in BOPE testing operations prior to that.
    - Run on drill pipe and with HWdp spaced out as needed per torque and drag prediction program and if hole conditions dictate to push liner to bottom.
    - Run 2 3/8" washpipe to the liner tail to facilitate washdown and changeover of open hole to base oil for swell packers.
    - Run Centralizers above and below each swell packer
    - Run in the hole slowly to avoid surging the formation.
    - A circulating swage with a safety valve will be on the rig floor.

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20. Run the liner in the hole to +/- 9200'. (NOTE: Liner will not be able to tag bottom for setting) Circulate the well until the returns are clean and then displace open hole volume with base oil and spacers or fluid as indicated. Base oil contact is required to activate the swell packers. Drop the setting ball and set the liner hanger. Release running tool from liner hanger. Pull up and if indicated changeover the liner volume. Pull out of hole with running tools and 2 3/8" washpipe.

21. After setting liner hanger packer, the hanger and casing will be pressure tested to 2500 psi for 30 minutes with weighted seawater in the hole.

22. Pull wear bushing.

23. Rig up to run 4 ½" workstring tubing. Run in hole with 4 ½" tubing with seal assembly on bottom. Pressure test tubing and seals to 5000 psi. Pressure test annulus to 2500 psi. Land tubing into liner top seal bore. If indicated land tubing with tubing hanger into tubing head and, if indicated install BPV barrier and install and pressure test fracture tree to 6000 psi.

    NOTES:
    - Sub Surface Safety Valve is NOT planned for installation during the fracture stimulation operations in the fracture string. During active pumping operations when the well is opened up it will be manned and monitored continuously.
    - Equipment to isolate the 4 ½" tubing and allow for pressure test while landing is to be selected and procured.
    - A second mechanical barrier (to be determined) will be installed along with the BPV prior to removing BOPE and installing tree.
    - Wellhead equipment is API 5000 psi. Special qualification to 6000 psi will be provided by Cameron prior to 6000 psi test.

24. Rig down drilling equipment to provide deck space for Fracture Stimulation Equipment.

25. Mobilize Fracture Stimulation equipment. All equipment to be:
    - clearly marked with Service Company name and weight of equipment
    - have proper spill control protection – containment and prevention
    - have the proper air permit for operating on Platform Gail
    - be pre-slung with inspected and Venoco approved slings
    - have center of gravity appropriate for mobilization workboat

26. Place equipment as per Thomas and Beers provided drawing. Install and pressure test treating lines to 7000 psi and transfer lines to recommended pressure. Have the required BPM seawater hook-up available.

27. Perform multistage fracture stimulation utilizing coil tubing deployed barriers and coil tubing supported perforations. Have contingency plan for coil tubing cleanout in the event it is required mid-job. If indicated make clean out run with coil tubing at completion of fracture stimulation operations.

    NOTE: A detailed program for fracture stimulation will be provided under an additional APM to be submitted

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28. Demobilize fracture stimulation equipment. Ensure Spill containment and slinging of equipment is appropriate and that center of gravity is appropriate for demobilizing boat.

29. Rig up and install BOPE, if removed to install tree. Pressure test BOPE as per step # # of the program.

30. Pull out of hole with 4 ½" fracture stimulation string and lay down.

31. Install wear bushing and make clean runs as needed. Pull wearbushing.

32. Production tubing to be yellow band or better 3 1/2" 9.3# L-80 EUE 8rd. Hydrotest tubing to 4000 psi while running in the hole.

33. Pick up the completion equipment in following order:
    - 3 1/2" Baker 'BXN' seating nipple with ball seat made up on pin of nipple
    - 1 joint of 3 1/2" EUE 8rd Tubing
    - 3 1/2" Baker 'BX' seating nipple
    - 1 joints of 3 ½" EUE 8rd Tubing
    - Baker 9 5/8" HS Packer w/ 6' pup joints made up to the top and bottom of the packer
    - XX joints of 3 1/2" EUE 8rd Tubing
    - 3 ½" GLM
    - XX joints of 3 1/2" EUE 8rd Tubing
    - 3 ½" GLM
    - XX joints of 3 1/2" EUE 8rd Tubing
    - 3 ½" Baker TE-5 TRSSSV
    - XX joints of 3 1/2" EUE 8rd Tubing
    - FMC Tubing Hanger

NOTE: In lieu of HS Packer a seal assembly may be installed in the top of the 4" liner and tested to 2500 psi.

34. After pick up TRSSV, install control line and pressure test to 7000 psi. Run in hole with tubing and control line banding the line to the tubing with 2 bands per joint. Run in to landing depth, pick up and install FMC tubing hanger and install control line and pressure test to 7000 psi. Pump XX bbls packer fluid and place from packer set depth to above the bottom GLM. Get up and down weight prior to landing. Follow revised FMC procedure for landing tubing hanger. <u>At no time will hanger hold down pin be removed.</u> Pressure test tubing hanger void.

35. After tubing hanger is landed and tested, drop X.XX" OD, Kirksite setting ball down tubing. Pressure up tubing to 3000psi in 500 psi increments to set the HS packer and hold 3000 psi on tubing for 15 minutes, slowly bleed pressure off of tubing. Pressure test the packer and annulus to 2500 psi. Continue to pressure up to 3500 psi and blow the packer setting ball.

36. Bleed off control line pressure to close TRSSV and install FMC BPV into tubing hanger. Nipple down BOPE and nipple up FMC 3 ½" tree with adapter. Install blanking plug and pressure test bonnet void and tree to 3000 psi. Remove blanking plug.

37. Release rig and turn well over to production.

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Name: SRH Date: 5/9/13

Vertical to 1415'
Inclination reaches 90° @ 6,350' MD/4,446' TVD M2
Lateral (max 91° from 6,324' to 10,400' MD/4,664' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° @ 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

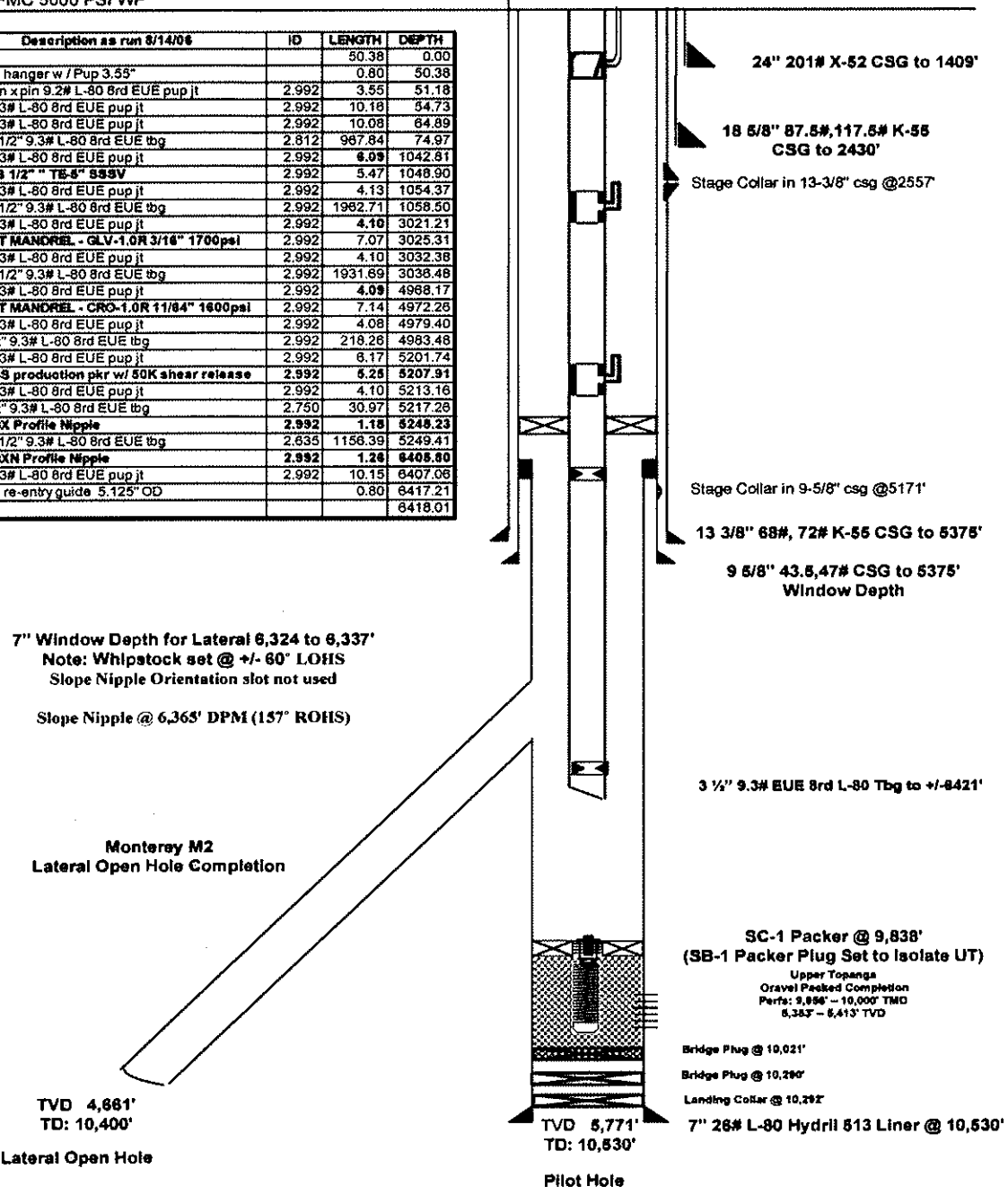
Lease: OCS-P-0209

SOCKEYE FIELD
WELL E-8RD
Single Producer M2 Lateral
Upper Topanga Isolated

Drawing Revision 5/2/07 CWH

Completion Date: 6/24/06
Recompletion: 8/14/06, 10/04/06

Description as run 8/14/06	ID	LENGTH	DEPTH
K.B		50.38	0.00
FMC tbg hanger w / Pup 3.55"		0.80	50.38
3 1/2" pin x pin 9.2# L-80 8rd EUE pup jt	2.992	3.55	51.18
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	10.08	54.73
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	10.08	64.89
31 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.812	967.84	74.97
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	**6.09**	1042.81
BAKER 3 1/2" " TB-5" SSSV	2.992	5.47	1048.90
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	4.13	1054.37
63 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992	1982.71	1058.50
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	**4.10**	3021.21
GAS LIFT MANDREL - GLV-1.0R 3/16" 1700psi	2.992	7.07	3025.31
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	4.10	3032.38
62 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992	1931.69	3036.48
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	**4.09**	4968.17
GAS LIFT MANDREL - CRO-1.0R 11/64" 1600psi	2.992	7.14	4972.26
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	4.08	4979.40
7 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.992	218.26	4983.48
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	6.17	5201.74
Baker HS production pkr w/ 50K shear release	**2.992**	**5.25**	**5207.91**
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	4.10	5213.16
1 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.750	30.97	5217.26
3-1/2" BX Profile Nipple	**2.992**	**1.18**	**5248.23**
37 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.635	1156.39	5249.41
3-1/2" BXN Profile Nipple	**2.992**	**1.26**	**6405.80**
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992	10.15	6407.06
Wireline re-entry guide 5.125" OD		0.80	6417.21
Tail			6418.01



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Vertical to 1415'
Inclination reaches 90° @ 6,350' MD/4,446' TVD M2
Lateral (max 91° from 6,324' to 10,400' MD/4,664' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° @ 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

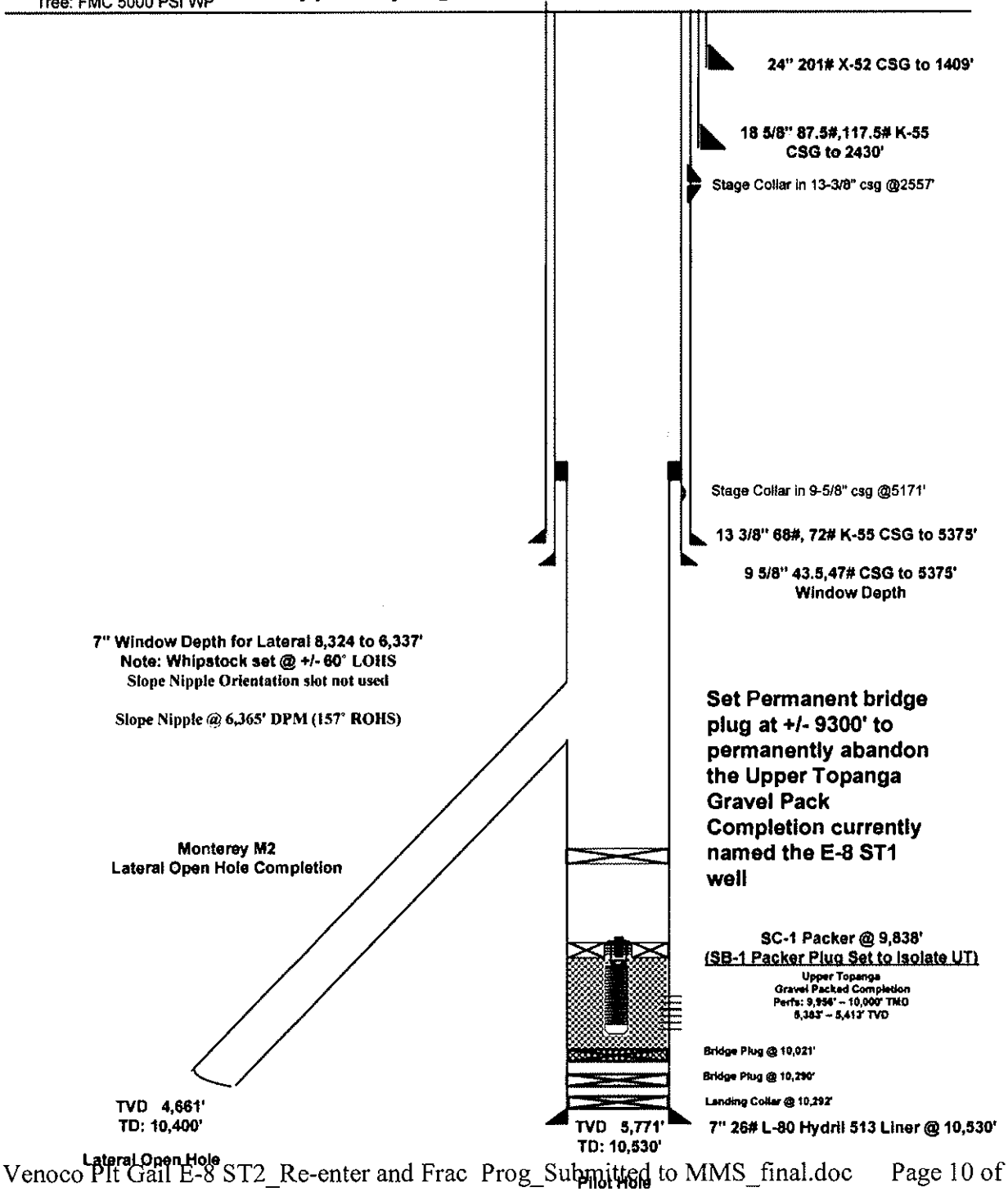
Lease: OCS-P-0209

SOCKEYE FIELD
WELL E-8ST1 and ST2

Single Producer M2 Lateral
Upper Topanga PROPOSED ABANDONMENT

Drawing Revision 11/17/09 DHB

Completion Date: 6/24/06
Recompletion: 6/14/06, 10/04/06



Releasable to public
Name: SRH Date: 5/9/13

Vertical to 1415'
Inclination reaches 90° @ 6,350' MD/4,446' TVD M2
Lateral (max 91° from 6,324' to 10,400' MD/4,664' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
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D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

Lease: OCS-P-0209

SOCKEYE FIELD
WELL E-8RD

PROPOSED FRAC DESIGN

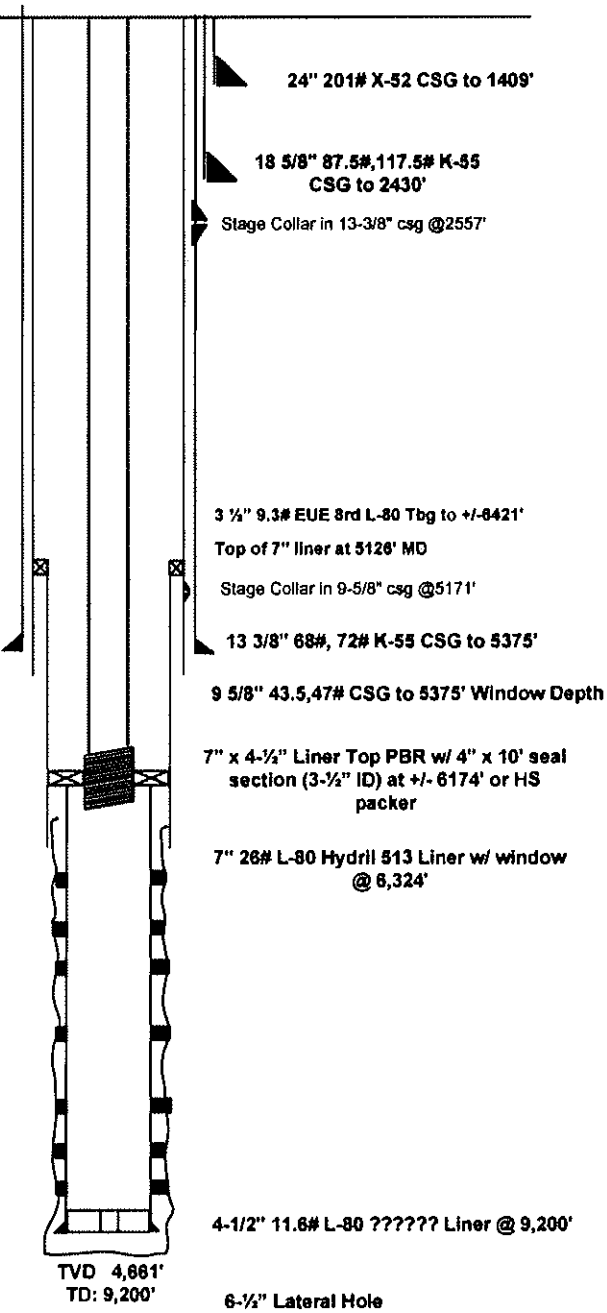
Drawing Revision 11/11/09 DAKN

Completion Date: 6/24/06
Recompletion: 8/14/06, 10/04/06

Description as run 8/14/06	ID	LENGTH	DEPTH
K.B			0.00
FMC tbg hanger w / Pup 3.55"			0.00
3 1/2" pin x pin 9.2# L-80 8rd EUE pup jt	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
31 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.812		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
BAKER 3 1/2" " TE-5" SSSV	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
63 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
GAS LIFT MANDREL - GLV-1.0R 3/16" 1700psi	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
62 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
GAS LIFT MANDREL - CRO-1.0R 11/64" 1600psi	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
7 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
Baker HS production pkr w/ 50K shear release	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
1 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.750		0.00
3-1/2" BX Profile Nipple	2.992		0.00
37 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.635		0.00
3-1/2" BXN Profile Nipple	2.992		0.00
3 1/2" 9.3# L-80 8rd EUE pup jt	2.992		0.00
Wireline re-entry guide 5.125" OD			0.00
Tail			0.00

7" Window Depth for Lateral 6,324 to 6,337'
Note: Whipstock set @ +/- 60° LOHS
Slope Nipple Orientation slot not used

Slope Nipple @ 6,365' DPM (157° ROHS)

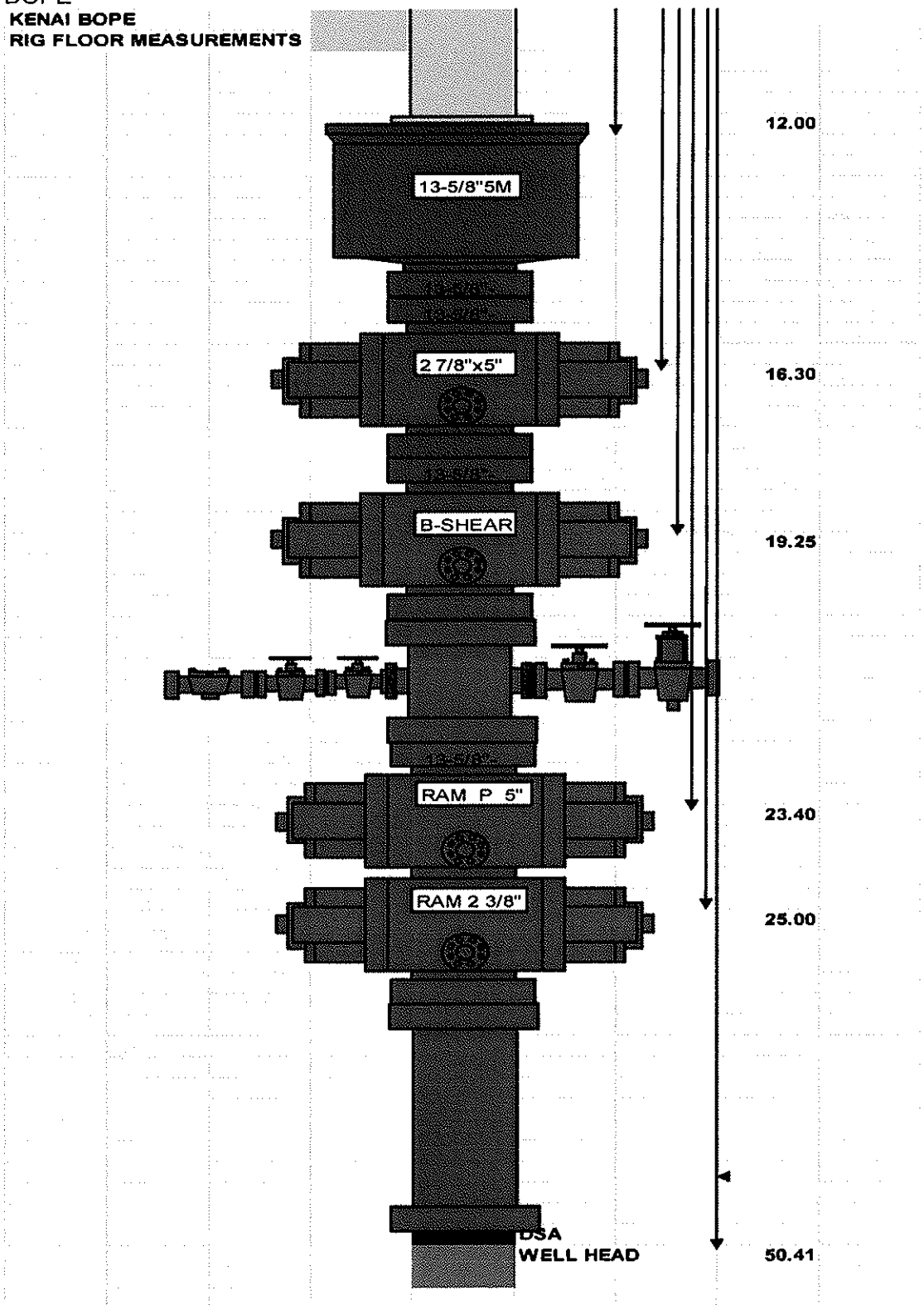


Completion Liner 4 ½" 11.6# L80 Liner

- 12 Tam Swell Packers
- Perforate via coil tubing jetting between swell packers.

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BOPE



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SHUT-IN PROCEDURE

KEEP PATHS ON CHOKE MANIFOLD CLOSED

While drilling

Pull up and position TJ above rotary table.
Shut down pump.
Check for flow.
Close annular preventer ("Hydril") and open HCR valve.
Toolpusher and Drilling Foreman on floor.
Read/record SIDPP.
Read/record SICP.
Start moving pipe if reasonable.
Read/record gain in pit volume.

While tripping

Set slips with TJ positioned above rotary table.
Install full opening safety valve in open position.
Close safety valve.
Close annular preventer ("Hydril") and open HCR valve.
Tool pusher and Drilling Foreman on floor.
Put on Kelly (or Top Drive) and open safety valve.
Read/record SIDPP.
Read/record SICP.
Start moving pipe if reasonable.
Read/record gain in pit volume.

NOTES:
1) When well has been shut-in and readable pressures have been observed, do not open well to verify entry or check its rate.

2) Decide on maximum CP for pipe movement ahead of time.

3) Install inside BOP if needed in control procedure.

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DRILLERS METHOD

KILL PROCEDURE

First Step:

Hold SIDPP constant until circulation is started by bleeding mud from casing. Allow pressure to rise 100 psi before bleeding. Do not bleed gas.

Hold casing pressure constant, by opening choke slowly, while bringing pump up to kill rate speed. This speed to be kept constant throughout circulation.

Hold casing pressure constant a few more minutes until drill pipe pressure stabilizes (small choke adjustment may be required).

Read drill pipe pressure.

Hold this drill pipe pressure constant until kick is circulated out of hole and mud returns are at or near normal weight.

Shut down pump and close choke at the same time. SEE NOTE.

Read pressures: SIDPP and SICP should be about equal to original SIDPP.

Note: Hold casing pressure constant while bringing pump speed down slowly. When pump speed is down to the point that the pump is barely running, **shut pump off first and then finish closing choke.**

Second Step:

1. Calculate kill weight mud required and increase mud weight to that value.
2. Hold casing pressure constant, by opening choke slowly, while bringing pump up to kill rate speed. This speed is to be held constant throughout circulation.
3. Hold casing pressure constant until drill string volume has been pumped. Very little choke adjustment should be required.
4. Read circulating drill pipe pressure.
5. Hold this drill pipe pressure constant until mud returns are at kill weight.
6. Shut down pump and shut in well.
7. Read pressures. Pressures should be zero.
8. Open choke.
9. Check for flow.

Note: If possible with mud system, commence mixing kill weight mud, based on the original SIDPP while circulating out kick. Kill weight based on the SIDPP after the kick has been circulated out of the hole should be used for second circulation.

Hydrogen Sulfide Considerations:

Both the Monterey and the Upper Topanga have potential for hydrogen sulfide gas. **Assume any gas circulated to surface to have hydrogen sulfide potential.** Operations will adhere to the "Platform Gail Hydrogen Sulfide and Sulfur Dioxide Contingency Plan" dated July 13, 2000.

HP Officejet 6310
Personal Printer/Fax/Copier/Scanner

Log for

Nov 25 2009 9:01AM

Last Transaction

Date	Time	Type	Station ID	Duration	Pages	Result
Nov 25	9:01AM	Fax Sent	18057452211	0:34	1	OK

Online Payment

Step 3: Confirm Payment

1 | 2 | **3**

Thank you.
Your transaction has been successfully completed.

Pay.gov Tracking Information

Application Name: MMS Application for Permit to Modify - BR
Pay.gov Tracking ID: 2500RJOU
Agency Tracking ID: 74089090847
Transaction Date and Time: 11/18/2009 19:11 EST

Payment Summary

Address Information

Account Holder Neme: Marybeth Carty
Billing Address: 370 17th St
Billing Address 2: Ste 3900
City: Denver
State / Province: CO
Zip / Postal Code: 80202
Country: USA

Account Information

Card Type: American Express
Card Number: **********1000
Region: Pacific
Contact: Tiffany Tapp 805-745-2113
Company-CompanyNo: Venoco 02309
Lease: 0209
API Well No: 043112067402
Area-Block: Unnamed or Other, 4671
APM Work: Completion - Modify perforations

Payment Information

Payment Amount: $116.00
Transaction Date and Time: 11/18/2009 19:11 EST

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies,with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02	00	Venoco, Inc. 6267 Carpinteria Ave., Suite 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
043112067402	8-12-06	2 days	
8. ☐ Revision	9. If revision, please list changes:		

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4761	15. BLOCK NO. 4661

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☒ **Other Operations**
  - ☒ Describe Operation(s)
- ☐ **Workover:**
  - ☐ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☐ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☐ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

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AUG 11 2006
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):

Isolate completion S01 with plug and punch holes in tubing to test S02 which is bridged off.

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*

Procedure and current wellbore diagram.

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)

Kenai Rig #2

20. The greater of SITP or MASP (psi): 1800	21. Type of Safety Valve (SV): ___ SCSSV _X_ SSCSV ___ N/A	22. SV Depth BML (ft): 200

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
		Low/High:		Low/High:

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
	Low/High:		Low/High:	Low/High: 5000	3000

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
John Hood	(805)745-2164 direct/(805)745-2217 fax	jhood@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Roger Hamson	V. P. Southern Assets
33. AUTHORIZING SIGNATURE: Mike for Roger Hamson	34. DATE 8-11-06

THIS SPACE FOR MMS USE ONLY

APPROVED BY:	TITLE	DATE
Grannon J. Graw	for: District Manager	8/11/06

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	☒ YES ☐ NO ☐ N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	☐ YES ☐ NO ☒ N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	☐ YES ☐ NO ☒ N/A	
d) If sands are to be commingled for this completion, has aproval been obtained?	☒ YES ☐ NO ☐ N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	☐ YES ☒ NO ☐ N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	☐ YES ☐ NO ☒ N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-124, is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

VENOCO, INC.

PLATFORM GAIL - SOCKEYE FIELD
Well E-8 RD
API# 04-311-20674-02
LEASE OCS-P-0205
August 11, 2006

Objective:
Attempt to re-establish communication with open hole completion to determine remedial action.

Existing Casing: (USING NEW 107' DF)

24", 201#, X-52	1403'	1140 cf
18 5/8", 87.5,117.5 K-55	2424'	1470 cf
13 3/8", 68,72# K-55	5344'	2451 cf DV @ 2557'
9 5/8", 40,43,47 # L-80/SS-95	5375' (window)	2952 cf DV @ 5171'
Top 4 jts 9 5/8" reported as 47# , next 177 jts are 43.5# to below 6800')		
7", 26#, L-80 Hydril 513	10,530'	1083 cf top at 5,126'

1. Rig up slickline and test lubricator to 3000 psi. Set XX plug in profile at +/- 9833' to isolate the Upper Topanga. Pressure test plug to 3000 psi. Leave the XX plug in place to keep the Upper Topanga gravel packed completion isolated. Rig down slickline.

2. Rig up Schlumberger and test lubricator to 3000 psi. Punch holes in 3-1/2" tubing across from window in 7" liner from 6,325' to 6,335'. Pressure up on tubing and attempt to re-establish communication with S02 open hole completion. If communication can be established, place well on production and evaluate stability. If communication cannot be established. Submit plans to MMS for a workover and/or another sidetrack. Rig down Schlumberger.

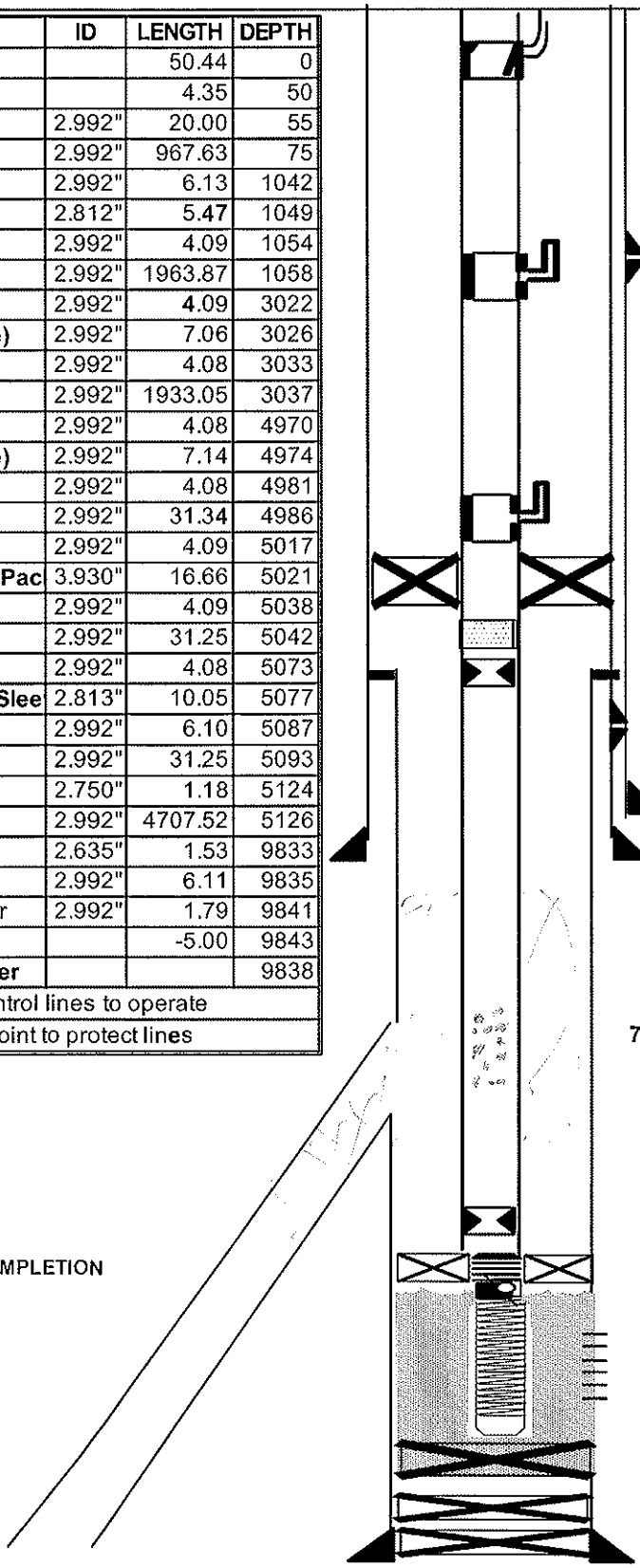
Vertical to 1415'
Inclination reaches 90° at 6350' MD/4,44(/D
M2 Lateral (max 91°) from 6,324' to 10,400' MD/4,661' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° at 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

SOCKEYE FIELD
WELL E-8 RD
Lease: OCS-P-0209
SINGLE SELECTIVE/COMMINGLED
PILOT HOLE & LATERAL HOLE

Drawing Revision 07/28/06 JLH

Completion Date:

Description	ID	LENGTH	DEPTH
KB		50.44	0
FMC tbg hanger w/ Pup 3.55"		4.35	50
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	20.00	55
31 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	967.63	75
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	6.13	1042
Baker 3 1/2" "TE-5" TRSSSV	2.812"	5.47	1049
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	1054
63 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	1963.87	1058
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	3022
Gas Lift Mandrel (Operating Valve)	2.992"	7.06	3026
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	3033
62 jts 3 1/2" tbg as above	2.992"	1933.05	3037
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	4970
Gas Lift Mandrel (Operating Valve)	2.992"	7.14	4974
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	4981
1 jts 3 1/2" tbg as above	2.992"	31.34	4986
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	5017
Baker 9-5/8" Twin Seal Hydraulic Pac	3.930"	16.66	5021
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	5038
1 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	31.25	5042
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	5073
3 1/2" Baker Hydraulic Operated Slee	2.813"	10.05	5077
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	6.10	5087
1 jts 3 1/2" 9.3# L-80 EUE 8RD	2.992"	31.25	5093
3 1/2" BX Nipple	2.750"	1.18	5124
151 jts 3 1/2" tbg as above	2.992"	4707.52	5126
3 1/2" BXN Nipple	2.635"	1.53	9833
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	6.11	9835
Snap Latch Seal Assembly Locator	2.992"	1.79	9841
Tubing Landed in Compression		-5.00	9843
7" Baker SC-1 Gravel Pack Packer			9838
Sliding Sleeve requires 2 - 1/4" control lines to operate			
Cannon clamps on collars & mid joint to protect lines			



24" 201# X-52 CSG to 1409'

18 5/8" 87.5#, 117.5# K-55 CSG to 2430'

Stage Collar in 13-3/8" csg @2557'

Top of 7" Liner at 5,126'

Stage Collar in 9-5/8" csg @5171'

13 3/8" 68#, 72# L-80 CSG to 5350'

9 5/8" 43.5/47# casing to 5375'
Window Depth

7" Window Depth for Lateral 6,324' to 6,337
Note: Whipstock set at +/- 60° LOHS
Slope Nipple Orientation slot not used

Slope Nipple at 6,365' DPM (157° ROHS)

MONTEREY M2
LATERAL OPEN HOLE COMPLETION

SC-1 Packer at 9,838'

UPPER TOPANGA
GRAVEL PACKED COMPLETION
PERFS: 9,956' - 10,000' TMD
5,383' - 5,413' TVD

Bridge Plug at 10,021'

Bridge Plug at 10,290'

Landing Collar at 10,292'

7" 26# L-80 Hydril 513 Liner at 10,530'

TOTAL DEPTH:
10,400' TMD/4,661' TVD
LATERAL OPEN HOLE

TOTAL DEPTH:
10,530' TMD/5,771' TVD
PILOT HOLE

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL

OMB Control Number 1010-0132
OMB Approval Expires 10/31/2005

WELL ACTIVITY REPORT (WAR) (Replaces Weekly Activity Report)

BEGINNING DATE: 10-14-06 **ENDING DATE:** 10-20-06
REPORT IS NOT TO EXCEED 7 DAYS (1 WEEK) IN DURATION

☐ **CORRECTION** ☐ **CHECK IF THIS IS THE LAST WELL ACTIVITY REPORT**

GENERAL INFORMATION

1. API WELL NO. *(10 Digits)*	2. OPERATOR NAME
043112067102	Venoco Inc.

3. WELL NAME	4. SIDETRACK NO.	5. BYPASS NO.	6. CONTACT NAME / CONTACT TELEPHONE NUMBER
E-8	02	00	Nicole Ling / 805-745-2205

7. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing Unit, etc.)*	8. WATER DEPTH	9. ELEVATION AT KB
Kenai Rig No. 2	739'	107'

10. CURRENT WELLBORE INFORMATION

SURFACE			BOTTOM		
LEASE NO.	AREA NAME	BLOCK NO.	LEASE NO.	AREA NAME	BLOCK NO.
P-0205	6B	4661	P-0204	6B	4660

WELLBORE	START DATE	TD DATE	OP STATUS	END DATE	MD	TVD	MW PPG	LAST BOP TEST DATE	LAST BOP TEST PRESSURE	
									LOW	HIGH
01					10,400'	4,661'		10/18/2006	250	3000

11. WELLBORE HISTORICAL INFORMATION

WELLBORE	BOTTOM LEASE	START DATE	TD DATE	PLUGBACK DATE	FINAL MD	FINAL TVD

12. CASING / LINER / TUBING RECORD

TUBULAR TYPE	HOLE SIZE *(IN)*	SIZE *(IN)*	WEIGHT *(#/Feet)*	GRADE	TEST PRESSURE *(psi)*	SHOE TEST *(EMW)*	SETTING DEPTH *(MD)*		CEMENT QUANTITY *(Cubic Feet)*
							TOP	BOTTOM	

WELL ACTIVITY REPORT (Continued)

13. OPEN HOLE TOOLS, MUDLOGS, AND DIRECTIONAL SURVEYS

SERVICE COMPANY	DATE OPERATIONS COMPLETED	TOOL LOGGING METHOD	LOG TOOL CODE	INTERVAL DEPTH *(MD)*	
				TOP	BOTTOM

14. IDENTIFY OTHER OPEN HOLE DATA COLLECTED

	YES	NO		YES	NO		YES	NO
VELOCITY SURVEYS		X	PALEO SAMPLES		X	SIDEWALL SAMPLES		X
CONVENTIONAL CORES		X	LITHO SAMPLES		X	GEOCHEM SAMPLES		X

15. WELL ACTIVITY SUMMARY

Provide a daily summary of well activities.

10-14-06 Continued mobilizing and installing equipment to resume well operations on Platform Gail. Opened sliding sleeve. Circulated around 425 bbls of 9.1 ppg brine fluid. Casing and tubing pressure dropped to zero. Closed SCSSV. Set BPV. Removed flowline and production tree. Began installing riser and BOP.

10-15-06 Finished installing riser and BOP. Rigged up BOP testing equipment. Shell tested BOP to 250/3000 psi. Picked up 4" HT38 DP in mousehole, for fishing if necessary. Installed pollution tarps around BOP. Began installing top drive. Set spreader beams and began setting track.

10-16-06 Continued to install top drive.

10-17-06 Finished installing top drive. Checked out all top drive functions - OK. Began testing BOP with 4" and 3-1/2" pipe to 250/3000 psi.

10-18-06 Finished testing BOP with 4" and 3-1/2" pipe to 250/3000 psi. Pulled test joint. Removed blanking sub. Installed landing joint.

10-19-06 Pumped 100 bbls of 9.1 ppg brine fluid down tubing. Pulled landing joint. Removed BPV. Installed landing joint. Checked annulus to be full and static. Backed out lock down pins. Pulled on landing joint to unset 9-5/8" TwinSeal packer (175 kips - 35 kips over string weight). Pulled up 15' and began circulating bottoms up. Built up fluid volume with NaCl sacks, reducing fluid weight to 9.0 ppg due to rate of fluid loss. Began pulling out of the hole with 3-1/2" production string and equipment, spooling up hydraulic lines. Laid down SCSSV. Built up fluid volume with NaCl sacks, reducing fluid weight to 8.9 ppg due to rate of fluid loss (40 - 50 bph). Continued pulling out of the hole with 3-1/2" production string and equipment, spooling up hydraulic lines. Laid down Baker 9-5/8" TwinSeal packer (elements severely deteriorated, rubber brittle and cracked) and hydraulically operated sliding sleeve. Found top of slickline after pulling out 8900' of tubing.

10-20-06 Rigged up slickline unit and attempted to pull slickline and tools from tubing - negative. Rigged down slickline equipment. Finished pulling out of the hole with production equipment. Found last two joints of tubing full of sand. Cleaned out sand and recovered slickline tools and XX plug. Made up 6-1/8" bit and 7" scraper. Ran in the hole on 3-1/2" tubing to 6140'. Washed through debris from 6140' to 6925'. Continued in the hole to 7107'. Circulated out debris. Ran in the hole to top of SC-1 packer at 9838'. Circulated bottoms up twice and had small amount of debris to surface.

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U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies,with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02	00	Venoco, Inc. 6267 Carpinteria Ave., Suite 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
04-311-20674-02	10-12-06	14 days	
8. ☐ Revision	9. If revision, please list changes:		

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4671	15. BLOCK NO. 4661

RECEIVED
OCT 12 2006
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☐ **Other Operations**
  - ☐ Describe Operation(s)
- ☒ **Workover:**
  - ☒ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☐ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☐ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):

Pull tubing string and replace leaking production packer.

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*

Detailed workover procedure, current wellbore diagram, proposed wellbore diagram.

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)

Kenai Rig #2

20. The greater of SITP or MASP (psi): 1800	21. Type of Safety Valve (SV): ___ SCSSV X SSCSV ___ N/A	22. SV Depth BML (ft): 310

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
13-5/8	5000	Low/High: 250/3000	5000	Low/High: 250/3000

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
	Low/High:		Low/High:	Low/High:	

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
John Hood	(805) 745-2164 (direct)/(805) 745-1846 (fax)	jhood@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Roger Hamson	V. P. Southern Assets
33. AUTHORIZING SIGNATURE: for Roger Hamson	34. DATE: 10-11-06

THIS SPACE FOR MMS USE ONLY

APPROVED BY:	TITLE	DATE
Orig. Sgd. by Shannon J. Shaw	for: District Manager	10/12/06

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	☒ YES ☐ NO ☐ N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	☐ YES ☐ NO ☒ N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	☐ YES ☐ NO ☒ N/A	
d) If sands are to be commingled for this completion, has aproval been obtained?	☐ YES ☐ NO ☒ N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	☐ YES ☐ NO ☒ N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	☐ YES ☐ NO ☒ N/A	

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VENOCO, INC.

PLATFORM GAIL - SOCKEYE FIELD
Well E-8 RD
API# 04-311-20674-02
LEASE OCS-P-0205
October 11, 2006

Objective:
Pull existing production equipment (single selective completion) and fish existing tubing if necessary. Clean out solids in casing. Set isolation plug in top of gravel pack packer (isolating S01 Upper Topanga completion until future date). Run completion equipment as per attached completion diagram (Monterey M2 open hole completion S02). Return well to gas lift production.

Existing Casing: (USING NEW 107' DF)

24", 201#, X-52	1403'	1140 cf
18 5/8", 87.5,117.5 K-55	2424'	1470 cf
13 3/8", 68,72# K-55	5344'	2451 cf DV @ 2557'
9 5/8", 40,43,47 # L-80/SS-95	5375' (window)	2952 cf DV @ 5171'
Top 4 jts 9 5/8" reported as 47# , next 177 jts are 43.5# to below 6800')		
7", 26#, L-80 Hydril 513	10,530'	1083 cf top at 5,126'

BOPE must be tested every 7 days during workover operations with all pipe sizes intended for use.

There will be no discharge of workover fluids during the well operations.

Hydrogen Sulfide Considerations:
The Monterey and Upper Topanga formations have the potential for hydrogen sulfide gas. Assume any gas circulated to surface to have hydrogen sulfide potential. Operations will adhere to the "Platform Gail Hydrogen Sulfide and Sulfur Dioxide Contingency Plan" dated July 13, 2000.

Workover Procedure

1. Mobilize equipment and personnel to Platform Gail. Confirm rig is centered over well E-8 RD (slot #17). Establish condition of platform turbines, order mechanics if condition questionable. Run and test Kenai standby generator and log on tour sheet. Order BOP stack & riser, Kelly and associated equipment, wellhead tools and services (wear bushing, test plug, 3-1/2" BPV, 3-1/2" blanking plug, dry rod, etc.), Certex spoolers, banding equipment and personnel, Baker service hand, Baker fishing tools, Atlas pipe recovery wireline package, 4" drill pipe and associated equipment, 3-1/2" tools, NaCl sack material for 3000 bbls of 9.1 ppg fluid and mud engineer. Install "drilling" H2S sensors, gas detection sensors, choke manifold and accumulator. Prepare rig pumps to resume operation. Fill pits with seawater. Confirm and post approved wellwork APM. Confirm all contractor certifications and paperwork in order. Install a 2 1/16" 5M casing valve below the tubing hanger with a 1502 tee and pressure gauge, a check valve and high pressure hose. Test hose and connections to 3000 psi for 5 minutes. Test wellhead void to 3000 psi for 5 minutes to confirm that the tubing hanger seals are still perfect. The well failed a "no flow" test on Sunday, October 8th. The production packer is not holding and the bottom gas lift valve is not in place. There is +/- 1000' of slickline plus running tools in the hole at +/- 5133' (below sliding sleeve and hydraulic control lines). Retrieval options in current situation have been exhausted from a practical standpoint. Note: tubing and casing pressures. Bullhead +/- 500 bbls of seawater down casing annulus, limiting pressure to 2500 psi. This will provide early feedback on the competency (or the lack thereof) of the breached solids bridge. Note final casing pressure while pumping and static pressure after pumping has ceased for ½ hour. Bullhead +/- 100 bbls of seawater down 3-1/2" tubing, limiting casing pressure to 2500 psi (casing and tubing in communication). Note final casing pressure while pumping and static pressure after pumping has ceased for ½ hour. Mix +/- 2000 bbls of 9.1 ppg NaCl workover fluid. Note: tubing and casing pressures. Bullhead +/- 500 bbls of 9.1 ppg brine fluid down casing annulus, limiting pressure to 2500 psi. Note final casing pressure while pumping and static pressure after pumping has ceased for ½ hour. Bullhead +/- 100 bbls of 9.1 ppg brine fluid down 3-1/2" tubing, limiting casing pressure to 2500 psi (casing and tubing in communication). Note final casing pressure while pumping and static pressure after pumping has ceased for ½ hour. Close SCSSV, set BPV, retest wellhead void to 3000 psi. Contact John Hood to review results prior to removing tree. If results prove clear safety upon review, proceed with removing tree and installing riser and BOP as quickly and safely as possible, otherwise John Hood will discuss results with MMS representative. Install pollution tarps after BOP is in place.

2. The BOP will be tested with 3-1/2" and 4" pipe to 250/3000 psi. The BOP will be equipped with 4 ram preventers (2 – double gates) and an annular. The 13 5/8" 5M BOPE will be configured for completion operations, with 2 7/8" X 5" VBR pipe rams in the top of the upper double gate and blind/shear rams in the bottom of the upper double gate, the mud cross will be below the upper double gate, 5" rams will be located in the top of the lower double gate (not used) and 2 3/8" rams (not used) will be located in the bottom of the double gate below the mud cross. Tests will not be conducted on the lower two pipe rams, as they will not be used during this workover. The stack is configured for all potential subsequent well operations. All tests will be recorded on a chart for review. The applicable BOPE will be tested every 7 days. Depending on timing of previous steps (service hand not available until Sunday), rig up and test Varco top drive at this time, otherwise top drive will be installed after the well work is completed.

3. After BOP test is completed, note tubing and casing pressures. If necessary, bullhead +/- 500 bbls of 9.1 ppg brine fluid down casing annulus, limiting pressure to 2500 psi. Bullhead +/- 100 bbls of 9.1 ppg brine fluid down 3-1/2" tubing, limiting casing pressure to 2500 psi. Confirm well is static without pressure, after pumping has ceased for ½ hour. Open hydraulically operated sliding sleeve (currently in the closed position). Remove BPV and install landing joint. Back out hanger lock down pins. Pull on tubing up to 80% of 3-1/2" 9.3# L-80 EUE 8rd tubing rating (202 kips = 100%, 160 kips = 80%) in increments, subtracting out block weight (and top drive if installed). Work tubing out of the hole as necessary, keeping overpull limits as indicated above. Watch for trapped gas under packer or increased fluid loss when Upper Topanga is opened up. Swabbing should not be an issue, as the fluid should travel around the 9-5/8" packer through the open lower gas lift mandrel and out the previously opened hydraulically operated sliding sleeve. After laying down the sliding sleeve, continue to pull out of the hole wet, ensuring proper hole fill until +/- 1000', laying down excess 3-1/2" tubing (see current vs proposed completion diagram). At this time the slickline should be at or near surface, with the running tool resting on the XX plug set in the lower BXN profile. Pacific wireline is on standby to retrieve 1000' of wire/tools at this time. Rig up slickline and test lubricator to 3000 psi. Recover slickline and running tools. Retrieve XX plug set in profile at +/- 9833' (originally) to isolate the Upper Topanga, if possible. Rig down slickline and finish pulling out of the hole, laying down excess 3-1/2" tubing. If the tubing is stuck (or becomes stuck), attempt to estimate stuck point while preparing to rig up Baker Atlas pipe recovery wireline package. Rig up Atlas and test lubricator to 3000 psi. Run free point to establish stuck point (avoid slickline at +/-5,133'). Run CCL/3-1/2" tubing chemical cutter and confirm tubing detail so that cut can be successfully made above slickline fish, but below hydraulically operated sliding sleeve and associated ¼" control lines (two required to operate sleeve). Rig down Atlas wireline. Pull tubing as needed. Install wear bushing and pick up 4" drill pipe for fishing operations. Fish tubing as required, executing slickline recovery as described above when needed.

4. Make up 6-1/8" bit and 7" scraper, run in the hole and clean out solids debris down to SC-1 packer at +/- 9,838'. Watch for 7" liner top (+/-5,126'), 7" window (+/- 6,324' to +/- 6,337') and 7" slope nipple (+/- 6.65'), Short trip out of the hole to the proper depth and pick up 9-5/8" casing scraper. Return to 9,838', scraping 9-5/8" casing to +/- 5,126' and 7" liner to 9,838' simultaneously. Circulate bottoms up and check for solids in returns. Pull out of the hole and lay down scrapers and bit. Make up SB-1 packer plug and run in the hole to SC-1 packer at +/- 9,838'. Set packer plug in top of SC-1 packer to isolate Upper Topanga formation until facilities are fabricated and installed that can handle high water cut completion. Note: A test of the SB-1 packer plug will not be attempted, due to the existence of the 7" window and slope nipple. Attempting to get a packer past these two areas will likely cause an element failure that would prevent an accurate test and could cause rubber to tear off and plug the open hole completion. Pull out of the hole and lay down setting tool. Pick up 7" service packer and run in the hole. Set packer at +/- 5,300' (+/- 174' into top of 7" liner). Set packer and test annulus to 2500 psi on a chart for 30 minutes. Pull out of the hole and lay down packer.

5. Remove wear bushing. Rig up to run 3-1/2" completion equipment. Run 3-1/2" completion equipment as per attached proposed completion, hydrotesting tubing to 5000 psi. Drop packer setting ball and pick up tubing hanger. Install and test control line to 3500 psi. Install BPV. Land production string on the tubing hanger and secure with lock down pins. Pressure up tubing to 3000 psi and set hydraulic packer. Pressure up on casing to 2500 psi (tubing will still be at 3000 psi - live gas lift valves installed). Test 9-5/8" casing, production packer seal, 7" liner top and tubing hanger seals to 2500 psi for 30 minutes on a chart. Shear out ball seat with +/- 4,200 psi.

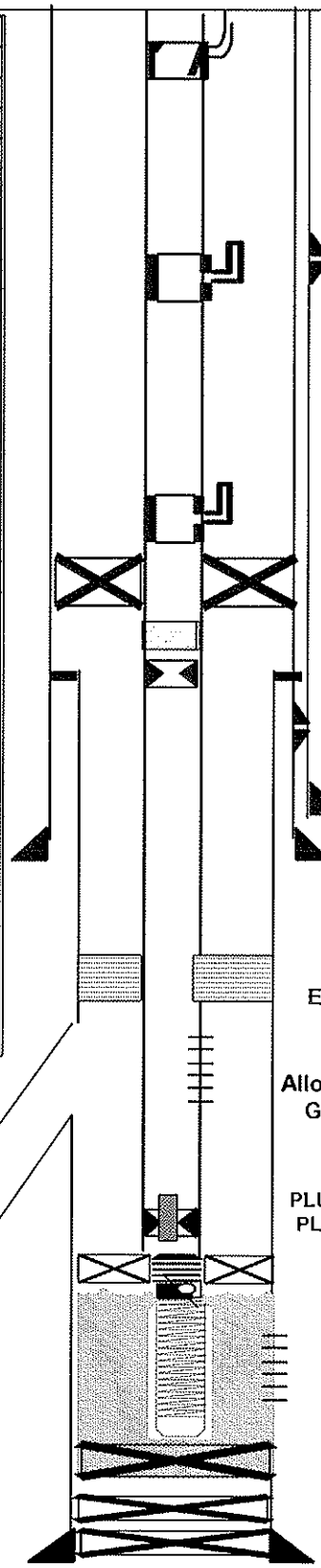
6. Remove BOP and install production bonnet and tree. Hook up flowline. Test wellhead void to 3000 psi. Remove BPV. Install blanking plug. Test tree to 3000 psi. Remove blanking plug. Pressure up control line and open SCSSV. Return well to gas lift production. Prepare to move rig to well E-17 (slot #35). Check status of polymer injection job on well E-16L. Will probably need to relocate Baker cuttings injection equipment prior to moving rig over E-17 for redrill. Depending on timing and work that was performed, rig up top drive at this time (if not previously installed). Possibly pick up 4" drill pipe using mouse hole and stand in derrick (not too much to move rig). Possibly P&A E-17 through tubing (as much as possible) after obtaining MMS approval and posting P&A APM.

Vertical to 1415'
Inclination reaches 90° at 6350' MD/4,446 · ,D
M2 Lateral (max 91°) from 6,324' to 10,400' MD/4,661' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° at 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

SOCKEYE FIELD
WELL E-8 R
Lease: OCS-P-0209
SINGLE PRODUCER M2 LATERAL
UPPER TOPANGA ISOLATED
CURRENT CONDITION

Drawing Revision 10/09/06 JLH
Completion Date: 06/24/06
Recompletion Date: 08/14/06

Description	ID	LENGTH	DEPTH
KB		50.44	0
FMC tbg hanger w/ Pup 3.55"		4.35	50
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	20.00	55
31 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	967.63	75
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	6.13	1042
Baker 3 1/2" "TE-5" TRSSSV	2.812"	5.47	1049
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	1054
63 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	1963.87	1058
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	3022
Gas Lift Mandrel (Operating Valve)	2.992"	7.06	3026
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	3033
62 jts 3 1/2" tbg as above	2.992"	1933.05	3037
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	4970
Gas Lift Mandrel (Operating Valve)	2.992"	7.14	4974
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	4981
1 jts 3 1/2" tbg as above	2.992"	31.34	4986
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	5017
Baker 9-5/8" Twin Seal Hydraulic Pac	3.930"	16.66	5021
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	5038
1 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	31.25	5042
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	5073
3 1/2" Baker Hydraulic Operated Slee	2.813"	10.05	5077
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	6.10	5087
1 jts 3 1/2" 9.3# L-80 EUE 8RD	2.992"	31.25	5093
3 1/2" BX Nipple	2.750"	1.18	5124
151 jts 3 1/2" tbg as above	2.992"	4707.52	5126
3 1/2" BXN Nipple	2.635"	1.53	9833
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	6.11	9835
Snap Latch Seal Assembly Locator	2.992"	1.79	9841
Tubing Landed in Compression		-5.00	9843
7" Baker SC-1 Gravel Pack Packer			9838
Sliding Sleeve requires 2 - 1/4" control lines to operate			
Cannon clamps on collars & mid joint to protect lines			



24" 201# X-52 CSG to 1409'

18 5/8" 87.5#, 117.5# K-55 CSG to 2430'

Stage Collar in 13-3/8" csg @2557'

7" by 3-1/2" Annulus failed the no flow test
Slickline fish from +/- 5133' to 6133'
Fish consists of +/- 1000' slickline and RT
Lower gas lift valve is not in place

TwinSeal Packer Leaking at 5021'

Sliding Sleeve Closed at 5077'

Top of 7" Liner at 5,126'

Stage Collar in 9-5/8" csg @5171'

13 3/8" 68#, 72# L-80 CSG to 5350'

9 5/8" 43.5/47# casing to 5375'
Window Depth

7" by 3-1/2" Annulus has solids
Estimated from +/- 5800' to 6000'
Estimated Depth from Angle +/- 62° to 76°
Bridge breached after build up test
Holes punched in tubing 6340' to 6350'
Allowed Communication/Production w/ Lateral
Gas Lift came around rapidly after BU test
Conclusion: Bridge Failed

UPPER TOPANGA ISOLATED BY XX PLUG
PLUG LEAKED FROM 3000 PSI TO 2500 PSI (5MIN)
PLUG ISOLATING ZONE PER PRODUCTION DATA

SC-1 Packer at 9,838'

UPPER TOPANGA
GRAVEL PACKED COMPLETION
PERFS: 9,956' - 10,000' TMD
5,383' - 5,413' TVD

Bridge Plug at 10,021'

Bridge Plug at 10,290'

Landing Collar at 10,292'

7" 26# L-80 Hydril 513 Liner at 10,530'

7" Window Depth for Lateral 6,324' to 6,337'
Note: Whipstock set at +/- 60° LOHS
Slope Nipple Orientation slot not used

Slope Nipple at 6,365' DPM (157° ROHS)

MONTEREY M2
LATERAL OPEN HOLE COMPLETION

TOTAL DEPTH:
10,400' TMD/4,661' TVD
LATERAL OPEN HOLE

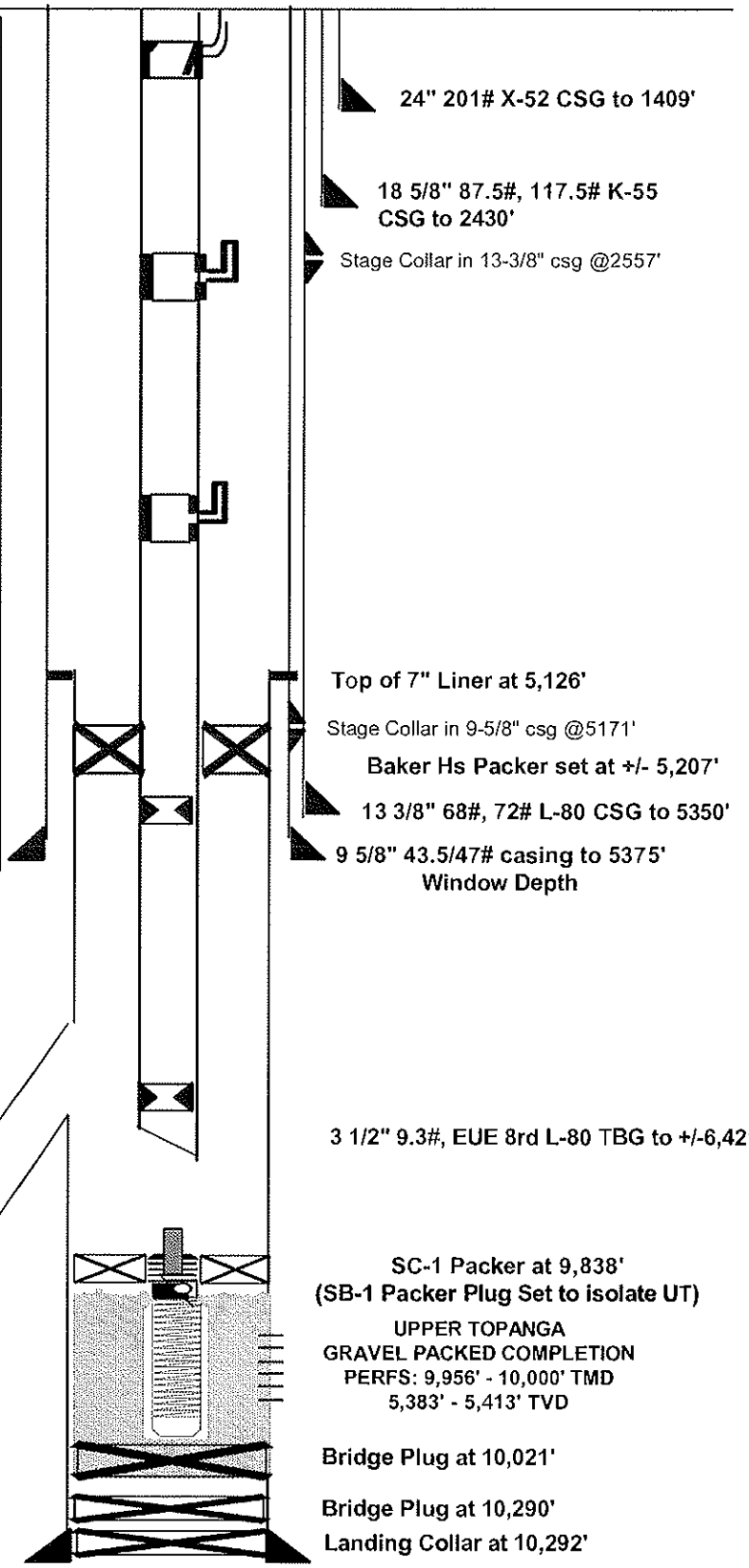
TOTAL DEPTH:
10,530' TMD/5,771' TVD
PILOT HOLE

Vertical to 1415'
Inclination reaches 90° at 6350' MD/4,446 ,D
M2 Lateral (max 91°) from 6,324' to 10,400' MD/4,661' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° at 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

SOCKEYE FIEL D
WELL E-8 RL
Lease: OCS-P-0209
SINGLE PRODUCER M2 LATERAL
UPPER TOPANGA ISOLATED
PROPOSED COMPLETION

Drawing Revision 10/10/06 JLH
Completion Date: 06/24/06
Recompletion Date: 08/14/06

Description	ID	LENGTH	DEPTH
KB		50.44	0
FMC tbg hanger w/ Pup 3.55"		4.35	50
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	20.00	55
31 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	967.63	75
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	6.13	1042
Baker 3 1/2" "TE-5" TRSSSV	2.812"	5.47	1049
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	1054
63 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	1963.87	1058
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3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	4970
Gas Lift Mandrel (Operating Valve)	2.992"	7.14	4974
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	4981
7 jts 3 1/2" tbg as above	2.992"	217.00	4986
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	5203
Baker 7" Hs Hydraulic Packer	3.930"	16.66	5207
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.09	5223
1 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	31.25	5227
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	4.08	5259
3 1/2" BX Nipple	2.750"	1.18	5263
37 jts 3 1/2" tbg as above	2.992"	1147.00	5264
3 1/2" BXN Nipple	2.635"	1.53	6411
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	6.11	6412
Baker Ball shear out/wireline re-entry	2.992"	1.79	6419
Tubing Tail			6420



SJS

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies,with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02	00	Venoco, Inc. 6267 Carpinteria Ave., Suite 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
04-311-20674-02	10-12-06	14 days	
8. ☐ Revision	9. If revision, please list changes:		

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4671	15. BLOCK NO. 4661

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☐ **Other Operations**
  - ☐ Describe Operation(s)
- ☒ **Workover:**
  - ☒ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☐ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☐ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

RECEIVED
OCT 11 2006
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):

Pull tubing string and replace leaking production packer.

18. LIST ALL ATTACHMENTS *(Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*

Detailed workover procedure, current wellbore diagram, proposed wellbore diagram.

PE COPY
FAXED 10/12/06 SJS

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)

Kenai Rig #2

20. The greater of SITP or MASP (psi): 1800	21. Type of Safety Valve (SV): ___ SCSSV X SSCSV ___ N/A	22. SV Depth BML (ft): 310

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
13-5/8	5000	Low/High: 250/3000	5000	Low/High: 250/3000

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
	Low/High:		Low/High:	Low/High:	

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
John Hood	(805) 745-2164 (direct)/(805) 745-1846 (fax)	jhood@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Roger Hamson	V. P. Southern Assets
33. AUTHORIZING SIGNATURE: JH for Roger Hamson	34. DATE: 10-11-06

THIS SPACE FOR MMS USE ONLY

DATE: 10/12/06

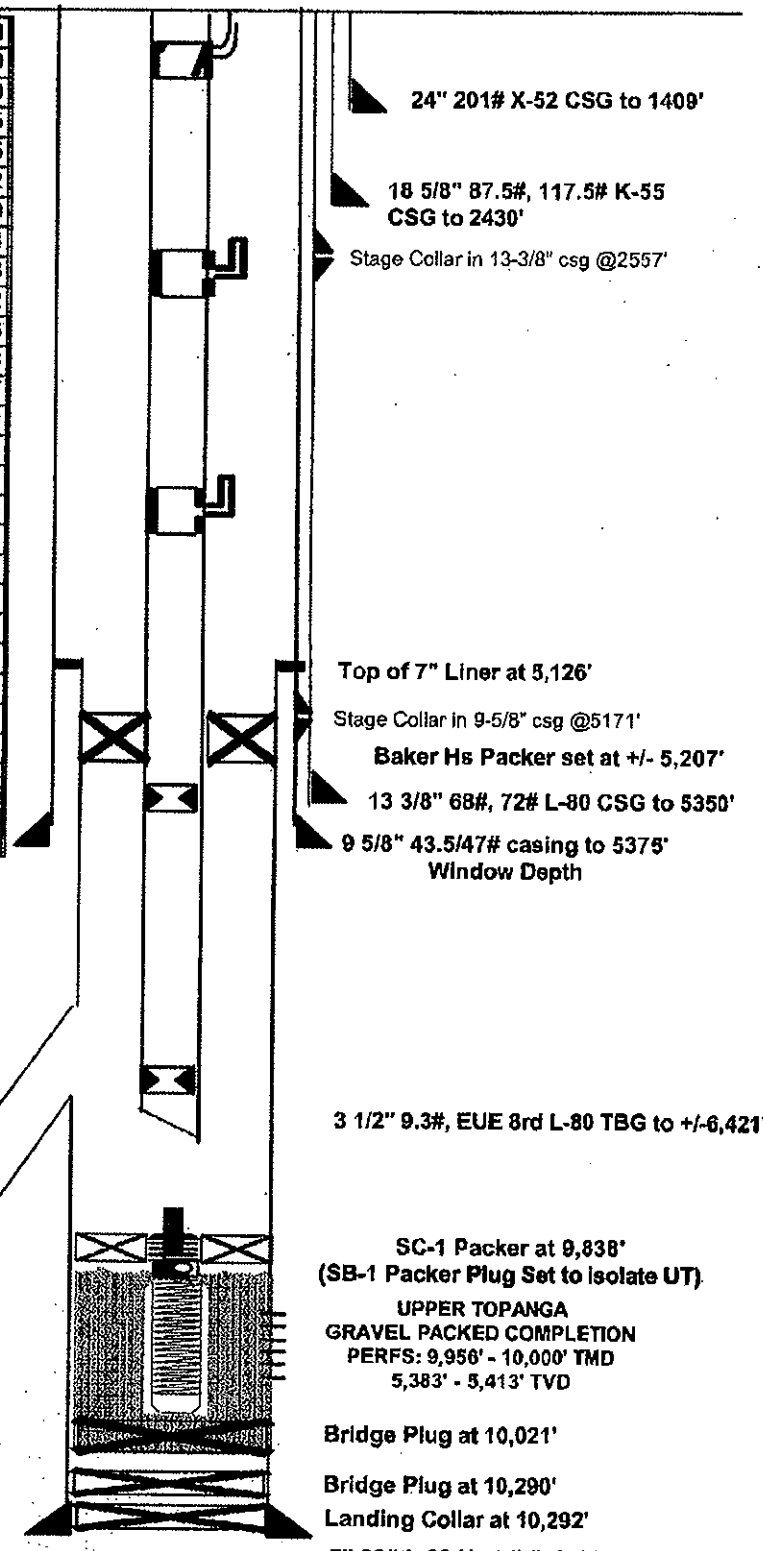
APPROVED BY: Richard Stamm for: District Manager

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WELL E-8 RD
Lease: OCS-P-0209
SINGLE PRODUCER M2 LATERAL
UPPER TOPANGA ISOLATED
PROPOSED COMPLETION

Drawing Revision 10/10/06 JLH
Completion Date: 06/24/06
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Tubing Tail			6420



U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies, with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

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12. BLOCK NO. 4671	15. BLOCK NO. 4661

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  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☐ **Other Operations**
  - ☐ Describe Operation(s)
- ☒ **Workover:**
  - ☒ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☐ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☐ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

RECEIVED
OCT 11 2006
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

FAXED 10/12/06 SJ

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*

Public Information Copy.

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)

20. The greater of SITP or MASP (psi):

21. Type of Safety Valve (SV): ___ SCSSV ___ SSCSV ___ N/A

22. SV Depth BML (ft): _____

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
_____	_____	Low/High: _____	_____	Low/High: _____

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
_____	Low/High: _____	_____	Low/High: _____	Low/High: _____	_____

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
John Hood	(805) 745-2164 (direct)/(805) 745-1846 (fax)	jhood@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Roger Hamson	V. P. Southern Assets
33. AUTHORIZING SIGNATURE: JH for Roger Hamson	34. DATE: 10-11-06

FOR MMS USE ONLY

APPROVED

Shannon Shaw for: District Manager 10/12/06

Receipt California District

Date 10/11/06 No. 12

Amount $110.00

Description	Faxed APM 0205/E-8 Workover - Change Tubing
Charged to	Nenecor, Inc.
Received by + Date	$110.00 Pd 10/11/06 JH
Approved by	

Online Payment

Step 3: Confirm Payment 1 | 2 | 3

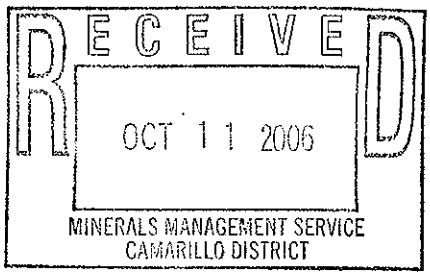
Thank you.
Your transaction has been successfully completed.

Pay.gov Tracking Information

Application Name: Application for Permit to Modify - XBR
Pay.gov Tracking ID: 24U08MU5
Agency Tracking ID: 74021362630
Transaction Date and Time: 10/11/2006 17:50 EDT

Payment Summary

Address Information		Account Information		Payment Information	
Account Holder Name:	Marybeth Carty	Card Type:	American Express	Payment Amount:	$110.00
Billing Address:	6267 Carpinteria Ave.	Card Number:	**********1000	Transaction Date and Time:	10/11/2006 17:50 EDT
Billing Address 2:	Suite 100	Expiration Date:	2 / 2007		
City:	Carpinteria				
State / Province:	CA				
Zip / Postal Code:	93013				
Country:	USA				



(515)

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies, with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02	00	Venoco, Inc. 6267 Carpinteria Ave, Suite 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
043112067402	6/9/06	14 days	
8. ☐ Revision	9. If revision, please list changes:		

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4761	15. BLOCK NO. 4661

RECEIVED
JUN 13 2006
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☒ **Other Operations**
  - ☒ Describe Operation(s)
- ☐ **Workover:**
  - ☐ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☐ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☐ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis): (515)

Verbal approval to revert back to the normal 14 day BOP test frequency (7 day submitted in APD) was granted by Shannon Shaw 6/9/06.

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*

None

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)

Kenai Rig #2

20. The greater of SITP or MASP (psi): 1600	21. Type of Safety Valve (SV): ___ SCSSV ___SSCSV X N/A	22. SV Depth BML (ft): NA

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
13-5/8	5000	Low/High: 250/3000	13-5/8	Low/High: 250/3000

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
	Low/High:		Low/High:	Low/High:	

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
John Hood	805-745-2164	jhood@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Roger Hamson	V. P. Southern Assets
33. AUTHORIZING SIGNATURE: for Roger Hamson	34. DATE 6/12/06

THIS SPACE FOR MMS USE ONLY

APPROVED BY:	TITLE	DATE
for	for District Manager	6/12/06

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	☒ YES ☐ NO ☐ N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	☐ YES ☒ NO ☐ N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	☐ YES ☐ NO ☒ N/A	
d) If sands are to be commingled for this completion, has aproval been obtained?	☐ YES ☐ NO ☒ N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	☐ YES ☒ NO ☐ N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	☐ YES ☐ NO ☒ N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-124, is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

SJS

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies, with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02	00	Venoco, Inc. 6267 Carpinteria Ave, Suite 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
043112067402	6/9/06	14 days	
8. ☐ Revision	9. If revision, please list changes:		

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4761	15. BLOCK NO. 4661

RECEIVED
JUN 12 2006
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
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  - ☒ Describe Operation(s)
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  - ☐ Change Tubing
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  - ☐ Change Zone
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- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):

Verbal approval to revert back to the normal 14 day BOP test frequency (7 day submitted in APD) was granted by Shannon Shaw 6/9/06. SJS

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*

None

FAXED 6/12/06 SJS

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)

Kenai Rig #2

20. The greater of SITP or MASP (psi): 1600	21. Type of Safety Valve (SV): ___ SCSSV ___SSCSV X N/A	22. SV Depth BML (ft): NA

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi) Low/High: 250/3000	Working Pressure (psi)	Test Pressure (psi) Low/High: 250/3000
13-5/8	5000		13-5/8	

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi) Low/High:	Working Pressure (psi)	Test Pressure (psi) Low/High:	Working Pressure (psi) Low/High:	Test Pressure (psi)

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
John Hood	805-745-2164	jhood@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Roger Hamson	V. P. Southern Assets
33. AUTHORIZING SIGNATURE: for Roger Hamson	34. DATE 6/12/06

THIS SPACE FOR MMS USE ONLY

APPROVED Shannon Shaw 6/12/06

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	[X] YES [ ] NO [ ] N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	[ ] YES [X] NO [ ] N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	[ ] YES [ ] NO [X] N/A	
d) If sands are to be commingled for this completion, has aproval been obtained?	[ ] YES [ ] NO [X] N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	[ ] YES [X] NO [ ] N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	[ ] YES [ ] NO [X] N/A	

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hp officejet 7130
printer/fax/scanner/copier

Fax-History Report for

Jun 12 2006 1:49pm

Last Transaction

Date	Time	Type	Identification	Duration	Pages	Result
Jun 12	1:48pm	Fax Sent	818057452217	0:34	1	OK

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies,with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
E-8	02	00	Venoco, Inc. 6267 Carpinteria Ave, Suite 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
043112067402	6/9/06	14 days	
8. ☐ Revision	9. If revision, please list changes:		

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0209	13. LEASE NO. P-0205
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4761	15. BLOCK NO. 4661

RECEIVED
JUN 12 2006
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
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  - ☐ Additional Fluids for Injection
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  - ☐ Plugback to Sidetrack/Bypass
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- ☐ **Information:**
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  - ☐ Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):
Public Information Copy.

18. LIST ALL ATTACHMENTS *(Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (f); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*
None

FAXED 6/12/06 (SS)

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)
Kenai Rig #2

20. The greater of SITP or MASP (psi):	21. Type of Safety Valve (SV): ___ SCSSV ___SSCSV ___ N/A	22. SV Depth BML (ft): _____

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
_____	_____	Low/High: _____	_____	Low/High: _____

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
_____	Low/High: _____	_____	Low/High: _____	Low/High: _____	_____

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
John Hood	805-745-2164	jhood@venocoinc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Roger Hamson	V. P. Southern Assets
33. AUTHORIZING SIGNATURE: For Roger Hamson	34. DATE 6/12/06

THIS SPACE FOR MMS USE ONLY
APPROVED: For District Manager 6/12/06

MMS Form MMS-124 (October 2005 - Supersedes all previous versions of form MMS-124 which may not be used.) Page 1 of 2

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	☐ YES ☐ NO ☐ N/A	
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	☐ YES ☐ NO ☐ N/A	
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f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	☐ YES ☐ NO ☐ N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT. The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-124, is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

Releasable to public
Name: SRH Date: 5/9/11

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies,
with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 11/30/2011

END OF OPERATIONS REPORT (EOR)

1. [X] COMPLETION [ ] ABANDONMENT [ ] CORRECTION	2. MMS OPERATOR NO.	3. OPERATOR NAME and ADDRESS *(Submitting office)*
	02309	Venoco, Inc 6267 Carpinteria Ave Carpinteria, CA 93013

4. WELL NAME (CURRENT)	5. SIDETRACK NO. (CURRENT)	6. BYPASS NO. (CURRENT)
E-8	2	

7. API WELL NO. (CURRENT SIDETRACK / BYPASS) (12 DIGITS)	8. PRODUCING INTERVAL CODE
04-311-2067402	S01

WELL AT TOTAL DEPTH

9. LEASE NO.	10. AREA NAME	11. BLOCK NO.	12. LATITUDE	13. LONGITUDE
P-0209	6B	4761	[X] NAD 27 (GOM & Pacific) [ ] NAD 83 (Alaska)	[X] NAD 27 (GOM & Pacific) [ ] NAD 83 (Alaska)

WELL STATUS INFORMATION

14. Well Status	15. Type Code	16. Well Status Date	17.
COM	GLO	January 18, 2010	MD 1400 TVD 4661 Total Depth Yes

WELL AT PRODUCING ZONE

18. LEASE NO.	19. AREA NAME	20. BLOCK NO.	21. LATITUDE	22 LONGITUDE
P-0209	6B	4761	[X] NAD 27 (GOM & Pacific) [ ] NAD 83 (Alaska)	[X] NAD 27 (GOM & Pacific) [ ] NAD 83 (Alaska)

23.COMPLETION DATE:	24.DATE OF FIRST PRODUCTION:	25. ISOLATED DATE:
January 18, 2010	January 18, 2010	

PERFORATED INTERVAL(S) THIS COMPLETION

26.TOP (MD):	27. BOTTOM (MD)	28. TOP (TVD)	29. BOTTOM (TVD):
6610	10400	4459	4661

30. RESERVOIR NAME(S):	31. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Monterey	Monterey

HYDROCARBON BEARING INTERVALS

32. INTERVAL NAME:	33. TOP (MD)	34. BOTTOM (MD)	35. TYPE OF HYDROCARBON
M2	5776	10400	Oil

SIGNIFICANT MARKERS Penetrated (account for all markers identified on APD)

36. INTERVAL NAME:	37. TOP (MD)	38. REASON IF MARKER NOT PENETRATED
M2	5776	No Change

SUBSEA COMPLETION

39. SUBSEA COMPLETION?	40. IF YES: PROTECTION PROVIDED?	41. BUOY INSTALLED?	42. TREE HEIGHT ABOVE ML(ft):
Yes/No	Yes/No	Yes/No	

RECEIVED
MAR 15 2010
California District
MINERALS MANAGEMENT SERVICE
OFFICE OF FIELD OPERATIONS

E-8 ST2 Workover

END OF OPERATIONS REPORT (EOR)

ABANDONMENT HISTORY OF WELL			
43. CASING SIZE:	44. CASING CUT DATE:	45. CASING CUT METHOD:	46. CASING CUT DEPTH:
47. Type of Obstruction:	48. Protection Provided: Yes/No	49. Obstruction Height Above ML (ft):	50. Buoy Installed? Yes/No

CONTACT NAME:	CONTACT TELEPHONE NO.:	CONTACT E-MAIL ADDRESS:
Dana Billings	805-745-2139	dbillings@venocoinc.com

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 5438, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

VENOCO, INC.

PLATFORM GAIL - SOCKEYE FIELD
E-8 ST1 and ST2 (Multi Lateral Well)
EOR for Permanent Abandonment of E-8 ST1 and Recomplete E-8 ST2
API# 04-311-2067401 and 04-311-2067402
LEASE OCS-P-0209
attach to MMS EOR
NOTE: E-8 ST1 Permanent Abandonment was 12/8/09

11-30-09 Commence operations on E-8. Rig up 3 1/2" riser and lubricator to tree, test to 2000 psi, fill tubing, and annulus with 250 bbls of filtered seawater, pumped 560 bbls of filtered seawater to circulate well to production. Check well, on vacuum, test lub to 2000 psi, make gauge run to 5270'. Cut tubing at 5197', rig down Schlumberger, close SSSV, install backpressure valve, nipple down tree, dress hanger and install blanking sub.

12-01-09 Set in DSA and riser, remove rotary table, and pull rotary beams, set in double gate with 2 3/8" rams on bottom and 5" rams on top. Set mud cross, nipple up choke and kill lines, set in blind shear ram single gate, set in VBR 2 7/8" x 5" ram single gate, set bag, install rotary beams, install new air boot in pitcher and lock screws, set in rotary table, set floor plates, make up flow line to pitcher, torque BOP, install rotary chain and guard, torque BOP, hook up koomey lines, function BOPE. Install mouse hole and 3 1/2" test joint, test BOPE.

12-02-09 Pressure test BOPE on 3-1/2" and 5" to 250/2500 psi, verify well is dead, un-land and pull tubing hanger to RF, check and remove BPV, lay down tubing hanger, pull out of hole laying down completion string.

12-03-09 Picked up 3-1/2" drill pipe. Latched onto fish (packer) at 5197', jarred packer loose.

12-04-09 Pulled two stands of 3-1/2" drill pipe to pull packer above top of liner, circulate oil from rathole to production. Pull out of hole with packer fish and tubing. Make up and run in hole with 8 ½" bit and 9 5/8" casing scraper.

12-05-09 Continue to run in with 9 5/8" clean out assembly, tag liner top and circulate hole clean. Pull out, make up, and run in hole with 7" casing scraper and wire brush assembly, tagged down at 6169', unable to work into hole. Pull out of hole.

12-06-09 Continue to pull out with 7" scraper/brush assembly. Make up 6 1/8" bit and run in hole, clean out fill to 7421'. Rotated at 120 rpm, circulated bottoms up.

12-07-09 Continue to circulate bottoms up. Pull out with bit. Make up and run in hole with scraper/brush assembly. Circulate and work brush thru slope nipple at 6365'. Continued in hole to 7421', circulate clean. Pull out of hole, lay down scraper assembly. Make up Baker bridge plug and run in hole.

12-08-09 Run in hole with Baker 3BB 7" 26# permanent bridge plug, set at 7380' to permanently abandon Upper Topanga interval and the E-8 ST1 wellbore, pull out of hole with running tools. Run in hole with Baker 7" 47B2 Retrievamatic packer and set at 6250'. Attempt to test 7" and 9-5/8" casing – no good. Pull to 5150' and set packer and pressure test 7" casing, liner lap and 9 5/8" casing to 2500 psi for 15 minutes – good test. Run in to 6200 and attempt to test – no good.

NOTE: Approval per telecom 12-06-09 Dana Billings and Phil Schroeder MMS to set Upper Topanga abandonment bridge plug at clean out depth above 9750' MD to reduce amount of cuttings circulated into the lateral hole. Plan to clean out to 7421' and set bridge plug at +/- 7370'.

12-09-09 Continue to pressure test casing and isolate top of leak in 7" 26# liner to between 5675' and 5412', pull out of hole with packer, pressure test BOPE to 250/2500 psi on 5" and 3 ½" as per MMS. Prepare to install wireline lubricator.

NOTE: Approval per telecom 12-09-09 Dana Billings and Phil Schroeder MMS to pressure test lubricator to 500 psi.

12-10-09 Rig up lubricator and pressure test to 500 psi. Run Schlumberger USIT/Casing Inspection log in 7" liner from 6082' to 5140' (top of 7" liner) and in 9-5/8" casing from 5110' to 150'. Rig down Schlumberger, install pitcher nipple.

12-11-09 Make up and run in with dummy slope nipple latch assembly. Latch on to and check slope nipple at 6365'. Pull out of hole. Make up MWD tools and whipstock assembly. Run in hole.

12-12-09 Continue to run in with orient and set whipstock 60 deg LHS with top of slide at 6324', pull out of hole. Run in hole with 3 1/2" EUE mule shoe and one joint tubing. Circulate thru window and 30' in to open hole wellbore to

6371'. Confirm whipstock oriented into original window. Pump sweep. Pull out of hole, make up 6 1/8" window mill assembly. Run in hole, dressed lug from top of slide and dressed window from 6324' to 6341'. Run in with bottom mill to depth of 6371'. Pumped sweep, pull out of hole.

12-13-09 Continue to pull out of hole, lay down mill assembly, make up 6 1/8" hole opener and roller reamer. Run in hole, tag at 6376'. Wash and ream from 6352' to 6580', unable to go deeper with bullnose hole opener. Pump sweep and circulate bottoms up. Pull out of hole. Make up MWD directional assembly and run in hole. Tag fill at 5736'. Wash to 5811'.

12-14-09 Washed and reamed cased and open hole from 5811' to 7506'. Pumped sweep and circulate bottoms up. Pull out of hole, lay down 33 singles of 5" drill pipe. Run in and continue to wash and ream open hole from 7506' to 8644'.

12-15-09 Circulate sweep at 8644'. Pull out and lay down 30 joints 5" drill pipe. Trip in hole from derrick and resumed reaming from 8644' to 9628'. Sweep, circulate, and work pipe 5 hrs to clean up hole. Pull out of hole from 9628'. Encountered tight hole at 7180'. Kelly up, circulate and clean up tight spot. Continue to pull out of hole.

12-16-09 Continue to pull out of hole. Make up and run in hole with 6 1/8" hole opener, reamer assembly to 9628'. Work pipe, rotate, sweep, and circulate hole clean. Pull out of hole.

12-17-09 Finish pulling out of hole. Make up Weatherford caliper and CML tool for pipe convey memory open hole logging. Trip in hole with tools, fill pipe and check tools during trip. With tools at 9622' fill pipe and circulate. Pump in dart, pressure up drill pipe deploy tools and open circulation bypass. Log out of hole at 15 ft per minute. Log to 6065'. Pull out of hole with tools.

12-18-09 Continue to pull out of hole with drill pipe and logging tools. Lay down logging tools. Pressure test BOPE as per MMS regulations with 250/2500 psi against 5" and 3 ½" drill pipe.

Note: Delay of BOPE test approved per telecom 12-18-09 Phil Schroeder-Dana Billings

12-19-09 Picked up and run in hole with 4-1/2" 12.6# L80 GEOCONN and RTS-8 liner and swell packers as per program, made up Baker 7" seal bore, Liner hanger, ZXP liner top packer. Circulated well, spotted oil across liner X open hole annulus. Set liner hanger and set packer and pressure test liner

and liner top packer to 2500 psi. Liner shoe at 9549' and liner top at 4706'. Swell packers for open hole isolation at 9505', 9301', 8857', 8653', 8383', 8230', 8081', 7875', 7564', 7413', 6834' ,6643' (all depths are mid packer depth)

12-20-09 Pull out of hole with Baker liner hanger setting tools. Lay down tools. Pulled wear bushing. Landed tubing hanger, pressure test BOPE annular and VBR's against 4 ½" tubing to 250 psi low and 2500 psi high for 5 minutes. Test Good.

12-21-09 Make up and run in hole with Baker seal assembly to 7" seal bore extension 4736' on 4 ½" 12.75# L80 RTS-8 tubing. Spaced out 4 1/2" tubing. Observed 14' of seal entering seal bore. Landed on tubing hanger with 1' of compression on seal bore. Pressure tested backside to 2500 psi for 15 min with no bleed off. Bleed down annulus from 2500 psi to 1500 psi with 0 psi on tubing. Pressure up the tubing to 5000 psi, the annulus went up to 1750 psi. After 30 minutes, the tubing pressure dropped to 4000 psi and the annulus pressure dropped to 1700 psi. There was no communication observed through tubing or seal bore seals into annulus. Tubing pressure test was good. Nipple down BOPE. Installed 4 ½" fracture tree. Test hanger and bonnet void to 5000 psi on chart for 15 minutes. Pressure test fracture stimulation tree to 5000 psi. Pull blanking plug. Prepare platform to mobilize fracture stimulation equipment.

12-22-09 Cleaned and organized drill deck to receive coil tubing and fracture stimulation equipment.

12-23-09 Cleaned and organized drill deck to receive coil tubing and fracture stimulation equipment.

12-24-09 Shutdown

12-25-09 Shutdown

12-26-09 Transport fracture stimulation equipment to platform and rig up for coil tubing assist fracture stimulation.

12-27-09 Transport fracture stimulation equipment to platform and rig up for coil tubing assist fracture stimulation.

12-28-09 Transport fracture stimulation equipment to platform and rig up for coil tubing assist fracture stimulation.

12-29-09 Transport fracture stimulation equipment to platform and rig up for coil tubing assist fracture stimulation. Nipple coil tubing BOPE.

12-30-09 Transport fracture stimulation equipment to platform and rig up for coil tubing assist fracture stimulation. Nipple coil tubing BOPE.

12-31-09 Nipple coil tubing BOPE. Rig up the BJ pump unit and pressure test coil tubing BOPE. Pumped the disconnect ball and pig coil tubing string.

01-01-10 Complete BOPE testing. Run in with 3.5" gauge and wash tool on coil tubing, tagged landing collar in 4 ½" liner at 9544'. Confirmed set down and marked coil tubing. Pull out. Made up Baker 4-1/2" composite bridge plug.

01-02-10 Run in and set Baker 4-1/2" composite plug at 9,542'. Pull coil tubing up hole 300'. Trap 1,500 psi on 4-1/2" by 9-5/8" annulus. Pump down coil tubing and pressure test 4-1/2" fracture string and 4-1/2" liner to 5,000 psi. Held for 30 minutes on chart. Tubing bled off 1,500 psi in 30 minutes. No communication observed on 9-5/8" on annulus – tubing string tested OK. Bleed off all pressure. Pull out of hole with coil tubing. Break off Baker running tool and make up BJ EasyCut Abrasive Perforating assembly, install injector head. Continue to rig up fracture stimulation equipment.

01-03-10 Continue to rig up fracture stimulation equipment. Tested all lines and equipment. Abrasive jet cut 3 holes at 120 deg phase in 4-1/2" liner at 9380'. Attempted to establish formation break down rate and pressure. Mechanical problems with BJ fracture stimulation equipment motor. Pull out of hole with coil tubing. Repair equipment. BJ Repairing Blender on platform. Pump skid to be sent in at 06:00 hrs for repairs.

01-04-10 Continue to repair fracture stimulation equipment.

01-05-10 Repair equipment

01-06-10 Repair equipment

01-07-10 Pressure test Coil Tubing BOPE. Offload and hook up repaired fracture pump. Test lines and establish injectivity. Unable to complete stage 1 of frac due to sand feed problems from silo to blender. Empty silo to inspect same.

01-08-10 Modify sand silo.

01-09-10 Complete stage 1 fracture stimulation at 9380' (thru 3 abrasive jet cut holes) as per program. Make up composite bride plug on coiled tubing.

Run in hole and set plug at 8825'. Shear off and pull out of hole. Test plug to 4000 psi. Make up jet tool on coiled tubing. Run in hole and jet cut 3 holes at 8770'. Establish injection rate. Pull out of hole with coiled tubing. Pump stage 2 fracture stimulation at 8770' (3 holes) as per program. Screened out.

01-10-10 Run in hole with coiled tubing and clean out stage 2 fracture sand from 4550' to 8100'. Circulate well clean. Run in hole with coil tubing perforator and jet cut 3 holes at 8000'. Establish injection rate. Pull out of hole with coiled tubing. Pump stage 3 fracture stimulation at 8000. Sand plug ok for stage 4 – no composite plug run. Run in hole with coiled tubing perforator and jet cut 3 holes at 7650'. Unable to establish injection rate for stage 4 of stimulation program. Run in hole with coiled tubing perforator and cut 3 holes at 7500'. Unable to establish injection rate for stage 4 of stimulation program. Pulled coil tubing up and cut 3 holes at 7495' for stage 4 fracture stimulation. Unable to establish injection rate for stage 4 of stimulation program. Pull out of hole with coiled tubing to check jet tool.

01-11-10 Inspected jet tool and unplugged tool. Run in hole and cut 3 holes at 7350'. Establish injection rate. Pull out of hole with coiled tubing. Pumped stage 5 of fracture stimulation through holes at 7350'. Screen out early. Clean out with coiled tubing to 7100'. Run in hole and cut 3 holes at 7020'. Made second attempt at stage 5 fracture (5a). Screen out. Run in and clean out with coiled tubing

01-12-10 Clean out fracture sand to 6800'. Coil tubing perforate 3 holes at 6740' for stage 6 fracture stimulation. Did not get adequate injection rate. Coil tubing perforate 3 holes at 6742'. Pull out of hole with coiled tubing. Attempt to establish injection rate. Insufficient rate for fracture stimulation. Fracture stimulation program completed. Rig down pumping equipment. Run in hole with coiled tubing clean out assembly and motor. Clean out sand and mill up composite plug at 8825'.

01-13-10 Clean out sand to 9544' – 4 ½" liner landing collar. Open tornado tool, wash out of hole, and circulate hole clean. Rig down coil tubing equipment. Backload equipment and arrange deck to rig up wireline unit. Spot and rig up wireline equipment.

01-14-10 Continue to rig up Western Wireline equipment. Pressure test lubricator. Run in hole and set Baker model D permanent packer at 4035' wireline measurement. Pull out of hole; lay down wireline tools and equipment. Lay

down riser sections. Set back pressure valve in tubing hanger. Nipple down fracture tree, nipple up BOPE. Function test equipment.

01-15-10 Pressure test 13 5/8" BOPE 250 psi low to 2500 psi high on chart for 5 minutes. Pull out of hole, lay down all 4-1/2" fracture string and seal assembly.

01-16-10 Make up and run in hole with 3-1/2' tubing completion equipment. Hydro test to 5000 psi and drift to 2.876". Space out to leave tubing tail at 4735' – inside 4 ½" liner.

01-17-10 Land tubing. Drop ball and pressure up tubing to set packer. Test annulus of 3-1/2" x 9-5/8". Blow ball seat with 3700 psi. Run in hole and install gas lift valve in lowest gas lift mandrel. Close SSSV, install BPV, nipple down BOPE and install production tree. Test void and production tree to 3000 psi. Release rig to skid to E-12.

01-29-10 Skid rig over E-8. Roll up skid hoses. Set in mouse hole. Set in walkway and mouse hole.

01-30-10 Skid rig over E-8. Secured rig. Spotted BJ equipment. Assisted welder as needed to secure BJ coil tubing equipment to drill deck. Rig up coil tubing riser. Rig up scaffolding around 4 1/16" BOP on drill deck. Make up coil tubing 4 1/16" BOP. Make up flow back manifold and lines. Make up injector head assembly. Conduct pull test on coil tubing. Test Good.

01-31-10 Test BOP's and related components to 250 psi low and 4500 psi high as per MMS regulations.

02-01-10 Complete BOP test of 4-1/16" coil tubing BOP stack. Made up coil tubing BHA. Run in hole with coil tubing tag at 6619'. Worked coil tubing down to 6970'. Pull out of hole to 3000'.

02-02-10 Continue to pull coil tubing to surface. Closed master valve. Flow well to production over night. Make up mud motor and mill assembly. Run in hole with coil tubing clean out to TD. Circulate well clean. Pull out of hole with coil tubing secure well.

02-03-10 Flow well to production. Make up Baker Atlas coil tubing convey perforating guns. Run in hole tag bottom at 9542'. Pick up and perforate well at 9532' to 9535'. Pull out of hole. Make up second 2" Baker Atlas coil tubing convey perforating gun. Run in hole tag bottom at 9542', pick up to 9021'. Perforate well 9018' - 9021'. Pull out of hole from 9021'. Break off used 2" coil tubing convey gun, lay down. All perforations shot.

02-04-10 Rig down and backload coil tubing equipment. Blow reel dry with nitrogen. Rig down scaffolding. Release rig at 18:00 hrs.

02-16-10 Skid rig from E-26 to E-8. Make up 4-1/16" coil tubing riser sections.

02-17-10 Continue to rig up coil tubing equipment.

02-18-10 Pressure test 4-1/16" BJ Coil tubing BOP stack to 250 psi low and 5000 psi high on chart for 5 minutes each.

02-19-10 Complete 4-1/16" coil tubing BOP stack test to 250 psi low and 5000 psi high on chart for 5 minutes each. Made coil tubing perforating runs with 2" 4-SPF guns. Perforate from 8290' to 8294', 6610' to 6614' and 8520' to 8524'.

02-20-10 Continue to perforate from 8170' to 8174'. Pull out of hole, cut BJ coil tubing connector off, and replace connector with Baker Oil tool connector. Pull test coil tubing. Pressure test coil tubing connector to 5000 psi. Make up Baker ISAP tool. Change out stripper rubber on injector head. Run in hole with Baker ISAP tool to 9500'. Test tool in blank.

02-21-10 Acidize stage #1 at 9380' with 5000 gals of HCl, #2 at 8290' to 8294', with 2000 gals of HCl and 4000 gals of HCl/HF and #3 at 7495 with 2000 gals of HCl and 4000 gals of HCl/HF. Wait on acid. Acidize stage #4 at 7020'.

02-22-10 Continue to acidize stage #4 at 7020' with 2000 gals of HCl and 4000 gals of HCl/HF, acidize stage #5 at 6740 to 6742' with 1000 gals of HCl and 2000 gals of HCl/HF. Had Baker ISAP tool failure. Pull out of hole, changed out Baker ISAP tool. Run in hole set tool in blank test to 3500 psi. Pull out of hole and acidize stage #6 at 8170' to 8174' with 4000 gals of HCl and 3000 gals of HCl/HF. Displaced with filtered seawater. Pull out of hole to surface, pump soda ash through coil tubing. Break off injector head. Break off Baker ISAP tool assembly. Make up nozzle to coil tubing. Make up injector head. Spot nitrogen tank onto pipe deck. Set up nitrogen to pump down coil tubing. Turned well over to production.

NOTE:
Total Acid Pumped 16,000 gals 15% HCl and 17,000 gals 12%/3% HCl/HF

02-23-10 Rig down coil tubing equipment, load out same, move rig over to E-26, back load coil tubing equipment.

Vertical to 1415'
Inclination reaches 90° @ 6,350' MD/4,44[illegible] TVD M2
Lateral (max 91° from 6,324' to 10,400' MD/4,664' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° @ 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

Lease: OCS-P-0209

SOCKEYE FIELD
WELL E-8 ST2
Single Producer M2 Lateral
POST FRAC COMPLETION

Drawing Revision 2/23/10 MLO

Completion Date: 6/24/06
Recompletion: 8/14/06, 10/04/06, 12/20/09, 1/15/10

Perforation Detail

CTU abrasive cut holes, 3 holes @ 120° phasing — Jan. 2010
9,380' (stage 1), 8,770' (stage 2), 8,000' (stage 3), 7,650', 7,500', & 7,495' (stage 4), 7,350' (stage 5), 7,020' (stage 5a), 6,742' & 6,740' (stage 6)

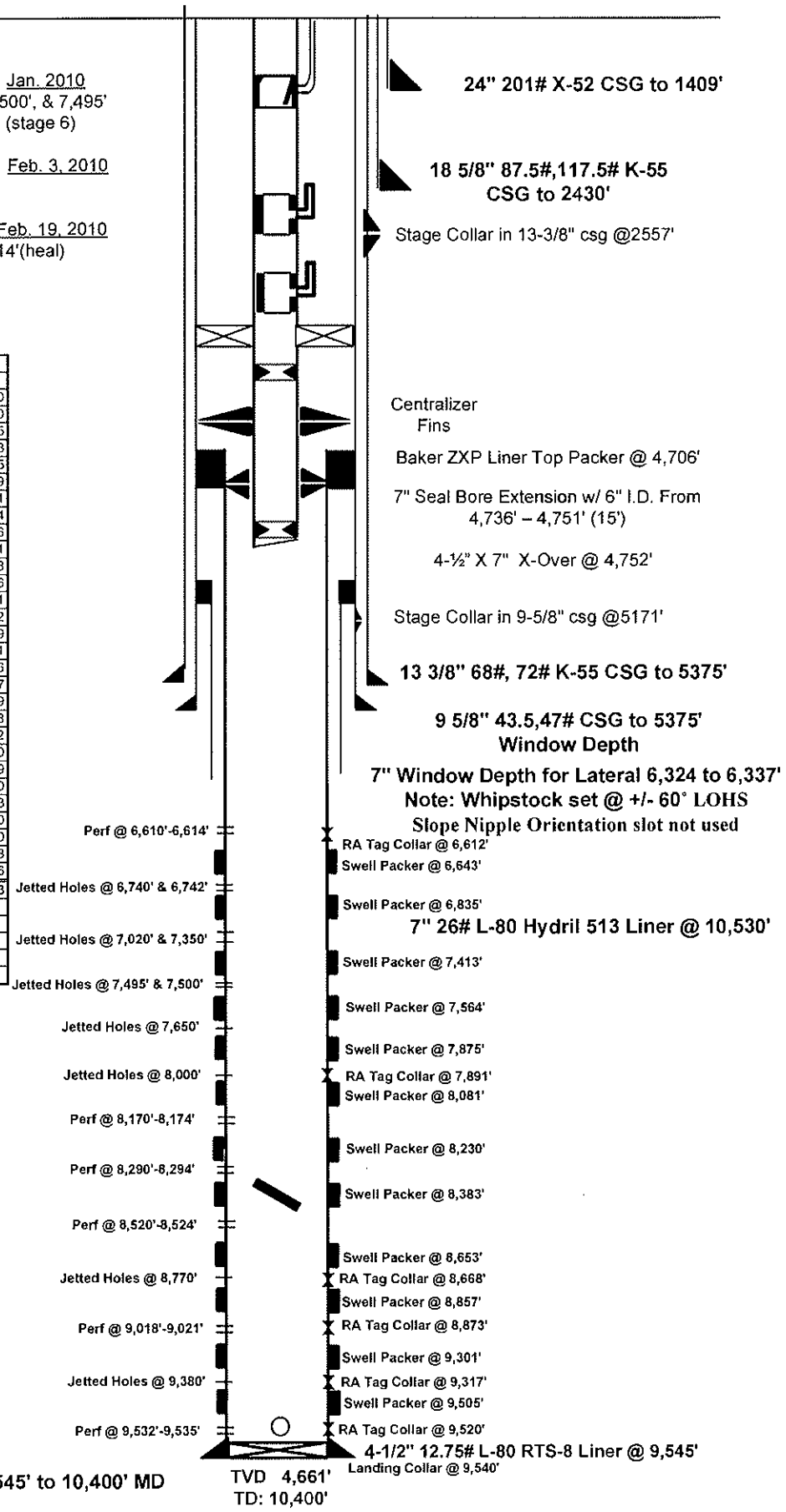
2" CTU Conveyed, 4 SPF @ 90° phasing — Feb. 3, 2010
9,532' – 9,535' (toe), 9,018' – 9,021'

2" CTU Conveyed, 4 SPF @ 90° phasing — Feb. 19, 2010
8,520' – 8,524', 8,290' – 8,294', 8,170' – 8,174', 6,610' – 6,614'(heal)

TUBING DETAIL			
Joints	Description	LENGTH	DEPTH
	K.B	50.60	0.00
	FMC Tbg. Hanger 3-1/2" EUE Box X 3-1/2" EUE Box	0.75	50.60
	3 1/2" 9.3# L80 EUE 8RD PIN X PIN	3.68	51.35
	3 1/2" 9.3# L80 EUE 8RD Pup	4.12	55.03
	3 1/2" 9.3# L80 EUE 8RD Pup	6.14	59.15
	3 1/2" 9.3# L80 EUE 8RD Pup	10.12	65.29
30	3 1/2" 9.3# L80 EUE 8RD	932.73	75.41
	3 1/2" 9.3# L80 EUE 8RD Pup	6.32	1008.14
	3 1/2" TRSSSV	5.45	1014.46
	3 1/2" 9.3# L80 EUE 8RD Pup	4.07	1019.91
64	3 1/2" 9.3# L80 EUE 8RD	1996.38	1023.98
	3 1/2" 9.3# L80 EUE 8RD Pup	4.05	3020.36
	3 1/2" GLM	7.11	3024.41
	3 1/2" 9.3# L80 EUE 8RD Pup	4.07	3031.52
	3 1/2" 9.3# L80 EUE 8RD Pup	10.12	3035.59
43	3 1/2" 9.3# L80 EUE 8RD	1342.35	3045.71
	3 1/2" 9.3# L80 EUE 8RD Pup	4.11	4388.06
	3 1/2" GLM	7.02	4392.17
	3 1/2" 9.3# L80 EUE 8RD Pup	4.09	4399.19
4	3 1/2" 9.3# L80 EUE 8RD	123.64	4403.28
	3 1/2" 9.3# L80 EUE 8RD Pup	6.28	4526.92
	BAKER 9 5/8" HS Packer	6.59	4533.20
	3 1/2" 9.3# L80 EUE 8RD Pup	4.11	4539.79
1	3 1/2" 9.3# L80 EUE 8RD	31.33	4543.90
	2.813" BX Nipple	1.17	4575.23
4	31' of 3 1/2" 9.3# L80 EUE 8RD	125.10	4576.40
	3 1/2" 9.3# L80 EUE 8RD Pup w/ 7.869" OD NoGo Fins	2.08	4701.50
1	3 1/2" 9.3# L80 EUE 8RD	31.28	4703.58
	3 1/2" WLEG WITH BALL SEAT AND 5.5" OD FINS	0.67	4734.86
147			4735.53
	Baker SS bands used = 67		
	Baker protectors used = 31		
	Up weight = 57K, Down weight = 55K		
	Baker HS packer set @ 44K shear		

Note
All Swell Packer Depths Refer to the Center of a 20' Element

JUNK IN HOLE
-2.6"H x 3"OD x 1.5" ID Steel Ball Seat (magnetic) & 2-1/8" steel ball (non magnetic). Pushed to bottom 2/2/10
-Inflatable Baker ISAP packer element @ 8,362' (2/22/10)



Well has open hole lateral from 9545' to 10,400' MD

TVD 4,661'
TD: 10,400'

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies, with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

Application for Permit to Drill (APD)

1. PROPOSAL TO DRILL	2. MMS OPERATOR NO.	3. OPERATOR NAME and ADDRESS (Submitting office)
☐ NEW WELL ☒ SIDETRACK ☐ BYPASS ☐ DEEPEN	02309	Venoco, Inc. 6267 Carpinteria Ave., Suite 100 Carpinteria, CA 93013-1423

4. WELL NAME (CURRENT)	5. SIDETRACK NO. (CURRENT)	6. BYPASS NO. (CURRENT)
E8	01	00

7. PROPOSED START DATE	8. PLAN CONTROL NO. (NEW WELL ONLY)
May 30, 2006	

9. API WELL NO. (CURRENT SIDETRACK / BYPASS) (12 DIGITS)
04-311-20674-01

10. ☐ Revision	11. If revision, please list changes:

WELL AT TOTAL DEPTH (PROPOSED)		WELL AT SURFACE	
12. LEASE NO. P - 0209		17. LEASE NO. P - 0205	
13. AREA NAME 6B		18. AREA NAME 6B	
14. BLOCK NO. 4761		19. BLOCK NO. 4661	
15. LATITUDE (☐ NAD 83 / ☒ NAD 27)	16. LONGITUDE (☐ NAD 83 / ☒ NAD 27)	20. LATITUDE (☐ NAD 83 / ☒ NAD 27)	21. LONGITUDE (☐ NAD 83 / ☒ NAD 27)

LIST OF SIGNIFICANT MARKERS ANTICIPATED

22. NAME	23. TOP (MD)	24. TOP (TVD)	22. NAME	23. TOP (MD)	24. TOP (TVD)
Monterey M2	6325'	4440'			

25. LIST ALL ATTACHMENTS *(Attach complete well prognosis and attachments required by 30 CFR 250.414(b) through (g) or 30 CFR 250.1617 (c) and (d), as appropriate.)*

Revised redrill program package submitted with APD approved May 12, 2006. Package includes only lateral.

26. CONTACT NAME	27. CONTACT TELEPHONE NO.	28. CONTACT E-MAIL ADDRESS
John Hood	805-745-2164	jhood@venocoinc.com

29. AUTHORIZING OFFICIAL *(Type or print name)*	30. TITLE
Roger Hamson	V. P. Southern Assets
31. AUTHORIZING SIGNATURE JH for Roger Hamson	32. DATE May 23, 2006

THIS SPACE FOR MMS USE ONLY

APPROVED:	BY	TITLE
☒ With Attached Conditions ☐ Without Conditions	Philip K Schroeder	District Manager
API WELL NO. ASSIGNED TO THIS WELL 04-311-20674-02		DATE MAY 30 2006

Releasable to public
Name: SRH **Date:** 5/13/13

Application for Permit to Drill (APD) Information Sheet

33) Question Information Sheet		
Questions	Response	Remarks
A) Will you maintain quantities of mud and mud material (including weight materials and additives) sufficient to raise the entire system mud weight 1/2 ppg or more?	☒ YES ☐ NO ☐ N/A	
B) If hydrocarbon-based drilling fluids were used, is the drilling rig outfitted for zero discharge and will zero discharge procedures be followed?	☐ YES ☐ NO ☒ N/A	
C) If drilling the shallow casings strings riserless, will you maintain kill weight mud on the rig and monitor the wellbore with an ROV to ensure that it is not flowing?	☐ YES ☐ NO ☒ N/A	
D) If requesting a waiver of the conductor casing, have you submitted a log to MMS G&G that is with in 500 feet of the proposed bottom hole location for the proposed surface casing point?	☐ YES ☐ NO ☒ N/A	
E) Will the proposed operation be covered by an EPA Discharge Permit? (please provide permit number in remarks for this question)	☒ YES ☐ NO ☐ N/A	
F) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	☐ YES ☐ NO ☒ N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-123, is estimated to average between 2.5-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

U.S. Department of the Interior
Minerals Management Service

OMB Control No. 1010-0141
OMB Approval Expires 8/31/2008

Supplemental APD Information Sheet (Casing Design)

1) Operator Name: Venoco, Inc.		2) Well Name (Proposed): E-8 Redrill ST: 02 BP: 00	
3) Bottom Hole Lease: P - 0209 4 5 3		4) Surface Lease: P - 0205	
5) API Number: 043112067 02		6)Type of Well: ☐ Exploratory ☒ Development	
7) H_2S: ☐ Absent ☒ Known ☐ Unknown		8) H_2S Activation Plan Depth (TVD) (ft): Surface	
9) Rig Name: Kenai Rig #2		10) SubSea BOP: ☐ Yes ☒ No	
11) Water Depth (ft): 739	12) RKB Height (ft): 107	13) Mineral Code:	
14) Drive Pipe Size (in): 24	15) Drive Pipe Depth (ft): 1409	16)Anchors ☐ Yes ☒ No	

17) Well Design Information

Interval Number: Existing Casing **Type:** **Name:**

Section Number	Casing Size (in)	Casing Weight (#/ft)	Casing Grade	Burst Rating (psi)		Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (psi)
	13.375	68/72	L-80				5350	
	9.625	43.5	L-80	6330		3810	5375 4115	1519
	7	26	L-80	7240		5410	6325 4442	1600

GENERAL INFORMATION	PREVENTER INFORMATION	TEST INFORMATION
Hole Size (in)	Type	Annular Test (psi)
Mud Weight (ppg)	Size (in)	BOP/Diverter Test (psi)
Mud Type Code	Wellhead Rating (psi)	Mud Test Weight (ppg)
Frac Gradient (ppg)	Annular Rating (psi)	Casing/Liner Test (psi)
Liner Top Depth (ft)	BOP/Diverter Rating (psi)	Formation Test (ppg)
Cement Volume (ft^3)		

Interval Number: One **Type:** Sidetrack 02 **Name:** Lateral Hole

Section Number	Casing Size (in)	Casing Weight (#/ft)	Casing Grade	Burst Rating (psi)		Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (psi)
One	None	NA	NA	NA		NA	11,348 4972	1835

GENERAL INFORMATION	PREVENTER INFORMATION	TEST INFORMATION
Hole Size (in) 6.125	Type Annular/VB Rams/Shear Rams/Pipe Rams	Annular Test (psi) 250/3000 psi
Mud Weight (ppg) 8.5	Size (in) 13-5/8"	BOP/Diverter Test (psi) 250/3000 psi
Mud Type Code Seawater	Wellhead Rating (psi) 5000 psi	Mud Test Weight (ppg) 8.5 ppg
Frac Gradient (ppg) 10.5	Annular Rating (psi) 5000 psi	Casing/Liner Test (psi) NA
Liner Top Depth (ft) NA	BOP/Diverter Rating (psi) 5000 psi	Formation Test (ppg) 10.5
Cement Volume (ft^3) NA		

Interval Number: **Type:** **Name:**

Section Number	Casing Size (in)	Casing Weight (#/ft)	Casing Grade	Burst Rating (psi)		Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (psi)

GENERAL INFORMATION	PREVENTER INFORMATION	TEST INFORMATION
Hole Size (in)	Type	Annular Test (psi)
Mud Weight (ppg)	Size (in)	BOP/Diverter Test (psi)
Mud Type Code	Wellhead Rating (psi)	Mud Test Weight (ppg)
Frac Gradient (ppg)	Annular Rating (psi)	Casing/Liner Test (psi)
Liner Top Depth (ft)	BOP/Diverter Rating (psi)	Formation Test (ppg)
Cement Volume (ft^3)		

* NOTE* For additional casing/liner intervals, please submit an additional Form MMS-123S.

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-123S, is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

VENOCO, INC.

PLATFORM GAIL - SOCKEYE FIELD
Well E-8 RD
API# 04-311-20674-02
LEASE OCS-P-0205
May 23, 2006

Objective:
To re-drill the E-8 well as a dual lateral well. The 8-1/2" pilot hole has been drilled through the Monterey horizontal kick off point and continued deeper through the Upper Topanga and Lower Topanga/Upper Sespe intervals. The final total depth was 10,530' TMD/5771' TVD. A 7" liner will be run and cemented. The Upper Topanga interval will be perforated and gravel packed and isolated with a plug. A retrievable whipstock will be set above the gravel packed completion in the 7" casing. The Monterey section lateral wellbore will be sidetracked and drilled with 6 1/8" hole. The Monterey lateral wellbore will be left as an open hole completion. The whipstock will be retrieved. The completion will be a single 3 ½" tubing string with production packers and sliding sleeve configured to allow for commingle production or shut-off selectively and allow for individual testing of each wellbore.

Surface Location: OCS-P-205, Slot No. 7 (X= 1,046,687.33' & Y= 727,032.46')

Elevation: 739' WD, 107' Above MLLW, 846' Ocean Floor to Rig Floor

Proposed TD: 6-1/8" Lateral Hole OCS-P-209; 11,348' MD/ 4,972' VD/4,865' SS

TD Location: 6-1/8" Lateral Hole OCS-P-209; Y = 730,380' N & X = 1,039,018' E

Proposed and *Existing Casing: (USING NEW 107' DF)

***24", 201#, X-52**	**1403'**	**1140 cf**
***18 5/8", 87.5,117.5 K-55**	**2424'**	**1470 cf**
***13 3/8", 68,72# K-55**	**5344'**	**2451 cf DV @ 2557'**
***9 5/8", 40,43,47 # L-80/SS-95**	**5375' (window)**	**2952 cf DV @ 5171'**
***Top 4 jts 9 5/8" reported as 47# , next 177 jts are 43.5# to below 6800')**		
7", 26#, L-80 Hydril 513	**10,524'**	**1100 cf top at 5,100'**

Hole Markers:	MD	TVD	SS	Est.Pressure
M1	**5,364'**	**4,109'**	**-4,002'**	**7.1 PPG**
M2	**6,325'**	**4,442'**	**-4,339'**	**7.1 PPG**
TD	**11,348'**	**4,972'**	**-4,865'**	**7.1 PPG**

Note: This procedure follows work to be performed after the completion of the pilot hole under an APD approved 5-12-06 and a proposed completion APM (to be submitted 5-24-06).

Drilling Procedure

Notes:
Pressure test BOP equipped with 4 ram preventers (2 – double gates) and an annular. Test the BOP to 250/3000 psi with 5" drill pipe and 2-7/8" tubing. The 2 3/8" rams will not be tested because 2 3/8" tubing will not be used in this operation. The 13 5/8" BOPE will be configured for workover operations, with 2 7/8" X 5" VBR pipe rams in the top of the upper double gate and blind/shear rams in the bottom of the upper double gate, the mud cross will be below the upper double gate, 5" rams will be located in the top of the lower double gate and 2 3/8" rams will be located in the bottom of the double gate below the mud cross. All tests will be recorded on a chart for the MMS to review. The applicable BOPE will be tested every 7 days during completion operations.

In addition a 2 1/16" 5M casing valve below the tubing hanger with a 1502 tee and pressure gauge, a check valve and high pressure hose connection to it will be installed and tested to 3000 psi for 5 minutes. It will be used for continuously pumping seawater into the well at 3 bpm below the hanger landing profile to keep the well under control. This line will be utilized throughout the remainder of the procedure. The BOP test frequency will remain at 7 days for the remainder of the procedure, since the lateral section is like a workover from a well control standpoint.

1. After gravel packing, set SB packer plug into the SC-1 Packer, spot a 10 bbl high viscosity cross-linked polymer pill on top of the gravel pack packer. This pill and the 90° inclination at the window depth will keep debris from the 2nd window suspended above the gravel pack packer plug. The hole will be full of seawater.

   Note: The SB packer plug will isolate the Pilot hole interval from the Lateral interval during drilling operations.

2. Make up and run in the hole with the Slope Orientation sub on MWD and establish the orientation of the nipple for all future re-entry operations.

3. Make up 7" 26# bottom trip whipstock and starting mills with Baker Slope Nipple as per the following:

- Position # 1 Slope Locator
- x/o 3-1/2" IF Box x 2-7/8 IF Pin
- Ported Sub 3-1/2 IF Box x Pin
- 3-1/2" Drill Pipe f/ space Out w/ 3-1/2 IF Box x Pin
- X-O Sub with 2-7/8 IF Pin x 3-1/2 IF Pin
- Ret Bottom trip Anchor w/ 3-1/2 IF Box x 2-7/8 If box
- Debris Excluder w/ 3-1/2 IF Box x Pin
- Shear Disconnect w/ 3-1/2 If Box x Pin
- Unloader Sub w/ 3-1/2 IF Box x Pin
- Debris Excluder w/ 3-1/2 IF Box x Pin
- WindowMaster Whipstock w/ 3-1/2 IF Pin
- Window Mill w/ 3-1/2 Reg Pin
- Lower WaterMelon Mill w/ 3-1/2 IF Box x 3-1/2 Reg Box
- Flex Joint w/3-1/2 IF Box x Pin
- Upper Wartermelon Mill w/ 3-1/2 IF Box x Pin
- 1jt 3-1/2 HWDP
- Float Sub w/ 3-1/2 IF Box x Pin
- Monel Collar w/ 3-1/2 IF Box x Pin
- MWD w/ 3-1/2 IF Box x Pin
- Lubricated Bumper Sub w/ 3-1/2 IF Box x Pin
- DP to Surface

Run in the hole with whipstock assembly. Orient and set the Whipstock in Slope Nipple as per Baker Oil Tools detailed procedure. Shear mills off of the whipstock face and change the hole over to Durogel/Duovis milling fluid.

The Table below indicates the Shear Force settings:

	Force required **DOWNHOLE** to shear / set (Klbs)	Slack-Off required at **SURFACE** to shear / set (Klbs)
Whipstock Shear Bolt	45 Klbs (Lesson learned)	50 Klbs (may have to be fatigued – do not o/pull due to risk of shear / unseat bottom trip anchor)
Bottom Trip Anchor	20 Klbs	20 Klbs (applied repeatedly)
SLOPE Locator in SLOPE nipple	< 5 Klbs	maximum 10 Klbs

- Detailed Procedure for setting of whipstock in the Slope Nipple has been provided by Baker. Service hand on location to be competent.
- Orient the whipstock off of high side as per Sperry directional drilling supervisor using the measurements from the MWD.
- Mill and dress the window as required for a good exit point for sidetrack.
- Drill enough rathole to pass all mills through the window and allow for the directional BHA tools to be below the whipstock face when commence drilling. Mills must smoothly pass through the window.
- Perform a Formation Integrity Test to 10.5 ppg. Reduce fluid viscosity.
- Pull out of the hole and lay down the milling tools.

4. Pick up a 6 1/8" PDC bit and drilling assembly on a 4 ¾" steerable directional drilling assembly including LWD. Run in the hole and sidetrack the well. Directionally drill the 6 1/8" hole from +/- 6,325' to 11,348' MD / 4972' TVD. The 6 1/8" hole will be drilled with Durogel, Duovis, seawater and sweeps. Returns are expected to be intermittent due to the low pressure and extended horizontal section planned in the fractured M2 chert. No overboard discharge of mud or cuttings will be required, plan to utilize approved cuttings injection well.
Notes:
   - Have 1600' of 5" HWDP available for this hole section. Kenai to provide 1000' and Weatherford will provide 600' (21 joints).
   - Review the attached directional program. Drill well per Halliburton Sperry-Sun (Slot 17) E-8 – Wellbore #5 – Hzl Plan 4 (03-Apr-06)
   - All depths to be referenced to 107' DF elevation
   - Mud loggers to start upon drilling out of the 7" casing window and continue through to TD of horizontal lateral.
   - The BHA should not be rotated on the face of the whipstock. Ensure there is adequate hole drilled below the whipstock to bury the BHA.
   - Take extra precaution when pulling or running the assembly through whipstock.
   - Per previous MMS approval, drill cuttings/waste fluids will be disposed of into well E-3S. Record injection volumes, rates and pressures on a daily basis.

5. Circulate the hole clean. Pull out of the hole and lay down directional drilling tools. Run in the hole with 6-1/8" fixed hole opener. Circulate the well clean, changing over to clean seawater. Wipe the hole to the 7" casing window. Run back to bottom, circulate the well clean and pull out of the hole. **Keep at least 3 bpm of seawater going into the well at all times as in all Platform Gail workovers.**

6. Rig up Schlumberger drill pipe conveyed logging equipment and run FMI/GR log to +/- 11,348' MD. Pull out of the hole and rig down Schlumberger.

7. Run in the hole with 6-1/8" fixed hole opener. Spot 8000 gallons of inhibited 15% HCl acid across the open hole interval. Pull out of the hole and lay down the 6-1/8" fixed hole opener.

8. Retrieve the Baker whipstock from the Slope Nipple and SB packer plug from the SC-1 gravel pack packer.

9. Run 3-1/2" 9.3# L-80 EUE 8rd tubing and production equipment as per the attached wellbore schematic. Hydrotest tubing to 5000 psi. Land tubing hanger and secure with lock down pins.

10. Rig up slickline and test lubricator to 3000 psi. Set XX plug in profile at +/- 5097'. Pressure up to 4500 psi to set the Baker 9-5/8" twin seal packer. Test the annulus to 2000 psi for 30 minutes. Shift open the hydraulically actuated sliding sleeve to prepare to clean up and test the Monterey M2 lateral section. Leave the XX plug in place to keep the Upper Topanga gravel packed completion isolated. Rig down slickline.

11. Close SCSSV. Set BPV. Remove BOP. Install and test void/tree to 5000 psi. Install and test new flowlines. Place well on gas lift production. Prepare to move rig to next well.

    Note: After testing the Monterey M2 lateral section. Rig up slickline. Test lubricator to 2000 psi. Shift sliding sleeve closed and isolate the Monterey M2 lateral section. Test sleeve and tubing to 2000 psi. Retrieve XX plug from profile at 5097', exposing Upper Topanga completion. Rig down slickline. Flow test Upper Topanga formation. After obtaining individual tests on both completions. Obtain permission from MMS to commingle production. The hydraulically actuated sliding sleeve will allow for periodic well tests from individual zones without undue loss of production due to slickline intervention.

EVALUATION PROGRAM

Mudlogging Program for Horizontal Hole:

- Begin Mudlogging upon exiting casing in the Monterey M2 formation, including GR-Res curves on mudlog.
- Collect dry samples at 30' intervals throughout the well.

Testing Program

- None expected.

Open Hole Logging program

- LWD starting right out of casing with Sperry Gr-Res-Density-Neutron for the horizontal well. Real-time data images via Insite.
- Run#1 RD2 (horizontal): GR-FMI pipe conveyed from TD to casing tie-in.

Logging geologist: Dale Kunitomi	805-987-3026
Primary Geologist: Monica Carlsen	Work 805-745-2115 Home 805-687-0598 Cell 805-448-5622
Back-up Geologist: Mike Wracher	Work 805-745-2272 Home 805-682-4780 Cell 805-689-8666

Mud Weight, Formation Pressure and Fracture Pressure

1	Casing Size (in)	9-5/8	7	Hz Lateral
2	Setting Depth (feet - TVD)	4131	5964	4972
3	Expected Leak Off Test EMW at shoe (ppg)	12.3	10.5	10.5
4	Depth of next Casing (feet - TVD)	5964	5964	4972
5	Maximum Expected Formation Pressure (psi)	2605	2605	1836
6	Expected Mud Weight (ppg)	9.2	9.2	8.5
7	Formation Equivalent Mud Weight (ppg)	8.4	8.4	7.1
8	Expected Hydrostatic Pressure at TD (psi)	2853	2853	2198
9	Amount of Overbalance at TD (psi)	248	248	362
10	Fracture Gradient at shoe (psi/ft)	0.64	0.55	0.55
11	Fracture Pressure at shoe (psi)	2642	3256	2715
12	Hydrostatic Pressure at shoe (psi)	1976	2853	2198
13	Margin between Mud Weight and LOT (psi)	666	403	517

Maximum Anticipated Surface Pressures

		Window	Pilot Hole	Horiz Lateral
1	Casing Size (in)	9-5/8	7"	OH
2	Setting Depth (feet - TVD)	4115	5964	4972
3	Expected Leak Off Test EMW at shoe (ppg)	12.9	10.5	10.5
4	Expected Mud Weight (ppg)	9.2	9.2	8.5
5	Depth of next Casing (feet - TVD)	5964	5964	4972
6	Maximum Expected Formation Pressure (psi)	2605	2605	1836
7	Expected gas gradient (psi/ft)	0.05	0.05	0.05
8	Formation Equivalent Mud Weight (ppg)	8.4	8.4	7.1
	Max Pressures using 100% Gas to Surface			
9	Max Surface Pressure neglecting shoe (psi)	2307	2307	1587
10	Fracture Gradient at shoe (psi/ft)	0.67	0.55	0.55
11	Fracture Pressure at shoe (psi)	2760	3256	2715
12	Surface pressure to break down shoe (psi)	2555	2958	2466
13	Maximum Anticipated Surface Pressure (psi)	2307	2307	1587
	Max Pressures using 70% Gas & 30% Mud			
14	Maximum Anticipated Surface Pressure (psi)	1540	1540	1002
15	Top of fluid (feet-TVD)	4175	4175	3480
16	Pressure at shoe (psi)	1746	2605	1836
17	Margin between pressure and breakdown(psi)	1014	651	879

CASING PROGRAM

Hole Section	12.25	8 1/2" Pilot Hole
Mud Weight	9.2	9.2
Buoyancy Factor	0.860	0.860
MASP (psi)	2307	2307
Gas Lift Pressure (psi)	1800	1800
Casing Size (in)	9-5/8*	7
Setting Depth, MD (ft)	5375	10803
Setting Depth, TVD (ft)	4115	5964
Top of Casing, MD (ft)	0	5175
Weight (lb/ft)	43.5	26
Grade	L-80	L-80
Threads	STL	513
ID (in)	8.681	6.199
Drift diameter (in)	8.525	6.151
Collapse (psi)	3810	5410
Burst (psi)	6330	7240
Joint Strength (kips)	813	448
Body Strength (kips)	1005	604
Collapse Safety Factor	1.94	1.90
Burst Safety Factor	2.74	3.14
Tensile Safety Factor	2.70	1.98

Notes:
*The existing 9 5/8" has reported 4 joints of 47# STL at surface.
The ID/Drift are for the 47# casing since that causes the greatest restriction.
Performance properties are for 43.5# casing, which is the grade at the window.

The 7" liner calculated safety factors are based upon pipe run to surface.
Safety factors at actual liner setting depths will be higher.

The Horizontal wellbore, drilled out of the pilot hole's 7" liner, is an open hole completion and therefore does not have any casing design calculations to show.

CEMENTING PROGRAM

NONE - LATERAL WILL BE AN OPEN HOLE COMPLETION

DRILLING FLUIDS PROGRAM

6-1/8" LATERAL HOLE

INTERVAL MUD PROPERTIES for WBM System							
Depth MD (ft)	Mud Weight (ppg)	Fluid Loss (ml/30 min)	Plastic Viscosity (cp)	Yield Point ($lb/100ft^2$)	YS	Chlorides (kmg/l)	PH
+/- 6,325' Milling	8.6 - 8.8	NC	12 - 20	>40	>20	18 - 20	10 - 11
6,325' -11348'	8.5	NC	Water	Water	Water	Water	Water

Whipstock: The fluid system used for the milling operations will be Durogel and Duovis. This will provide adequate viscosity and carrying capacity for the milling operations. These products mix easily with seawater, which will be in the well after completing the Upper Topanga formation in the Pilot Hole.

6,325' – 11,348': Begin drilling with milling fluid system. As more lateral section is drilled in the fractured Monterey M2 chert, the percentage of returns will steadily decrease. At times drilling may have to occur with out returns. Drill 6-1/8" hole section using seawater, combined with Durogel/Duovis sweeps. While drilling, continue to pump 250 gpm (5.9 bpm) fluid through the drill string. This rate is nearly double the historical rate used to keep the depleted Monterey formation under control during workovers. Utilize high pressure casing fill up line (see notes at beginning of program) to pump a minimum of 3 bpm down the casing while making connections and/or tripping. **Water must continuously be running into the well whenever the hole will not stand full.**

Notes:

1. Operate solids control equipment to maintain drill solids as low as possible.
2. Maintain supply of $ZnC0_3$ onboard to treat out H_2S.
3. A minimum of 500 sx of barite shall be kept on the platform at all times. This amount will allow the mud weight to be raised a minimum of 0.5 ppg using total circulating volume of 1000 bbls for 8 1/2" hole to 11,348'.This includes 414 bbls open hole volume & 586 bbls active system. (Actual to weight up 1000 bbls .5 ppg = 290 sx)

SHUT-IN PROCEDURE

KEEP PATHS ON CHOKE MANIFOLD CLOSED

WHILE DRILLING

Pull up and position TJ above rotary table.
Shut down pump.
Check for flow.
Close annular preventer ("Hydril") and open HCR valve.
Toolpusher and Drilling Foreman on floor.
Read/record SIDPP.
Read/record SICP.
Start moving pipe if reasonable.
Read/record gain in pit volume.

WHILE TRIPPING

Set slips with TJ positioned above rotary table.
Install full opening safety valve in open position.
Close safety valve.
Close annular preventer ("Hydril") and open HCR valve.
Tool pusher and Drilling Foreman on floor.
Put on Kelly (or Top Drive) and open safety valve.
Read/record SIDPP.
Read/record SICP.
Start moving pipe if reasonable.
Read/record gain in pit volume.

NOTES:
1) When well has been shut-in and readable pressures have been observed, do not open well to verify entry or check its rate.

2) Decide on maximum CP for pipe movement ahead of time.

3) Install inside BOP if needed in control procedure.

DRILLERS METHOD

KILL PROCEDURE

First Step:

Hold SIDPP constant until circulation is started by bleeding mud from casing. Allow pressure to rise 100 psi before bleeding. Do not bleed gas.

Hold casing pressure constant, by opening choke slowly, while bringing pump up to kill rate speed. This speed to be kept constant throughout circulation.

Hold casing pressure constant a few more minutes until drill pipe pressure stabilizes (small choke adjustment may be required).

Read drill pipe pressure.

Hold this drill pipe pressure constant until kick is circulated out of hole and mud returns are at or near normal weight.

Shut down pump and close choke at the same time. SEE NOTE.

Read pressures: SIDPP and SICP should be about equal to original SIDPP.

Note: Hold casing pressure constant while bringing pump speed down slowly. When pump speed is down to the point that the pump is barely running, **shut pump off first and then finish closing choke.**

Second Step:

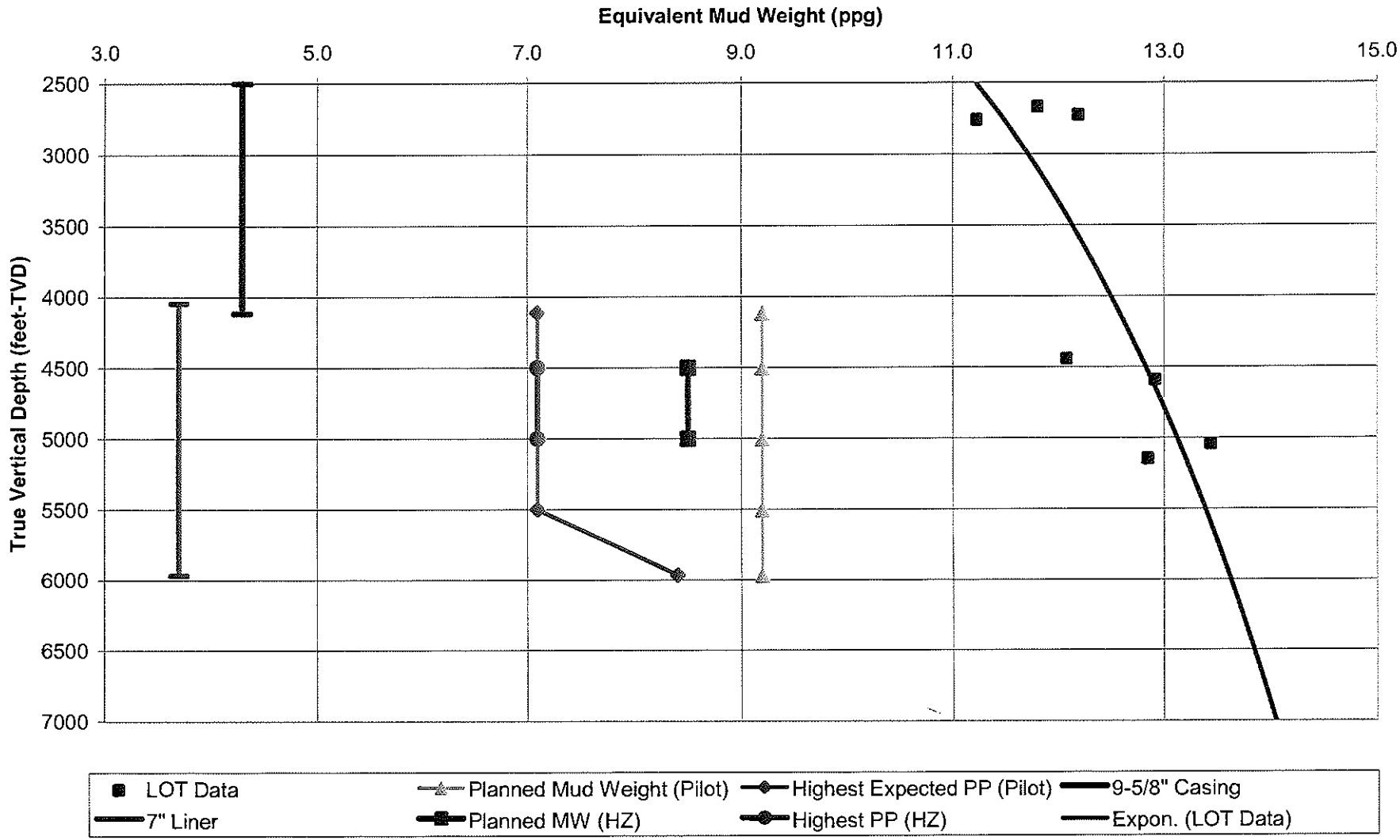
1. Calculate kill weight mud required and increase mud weight to that value.
2. Hold casing pressure constant, by opening choke slowly, while bringing pump up to kill rate speed. This speed is to be held constant throughout circulation.
3. Hold casing pressure constant until drill string volume has been pumped. Very little choke adjustment should be required.
4. Read circulating drill pipe pressure.
5. Hold this drill pipe pressure constant until mud returns are at kill weight.
6. Shut down pump and shut in well.
7. Read pressures. Pressures should be zero.
8. Open choke.
9. Check for flow.

Note: If possible with mud system, commence mixing kill weight mud, based on the original SIDPP while circulating out kick. Kill weight based on the SIDPP after the kick has been circulated out of the hole should be used for second circulation.

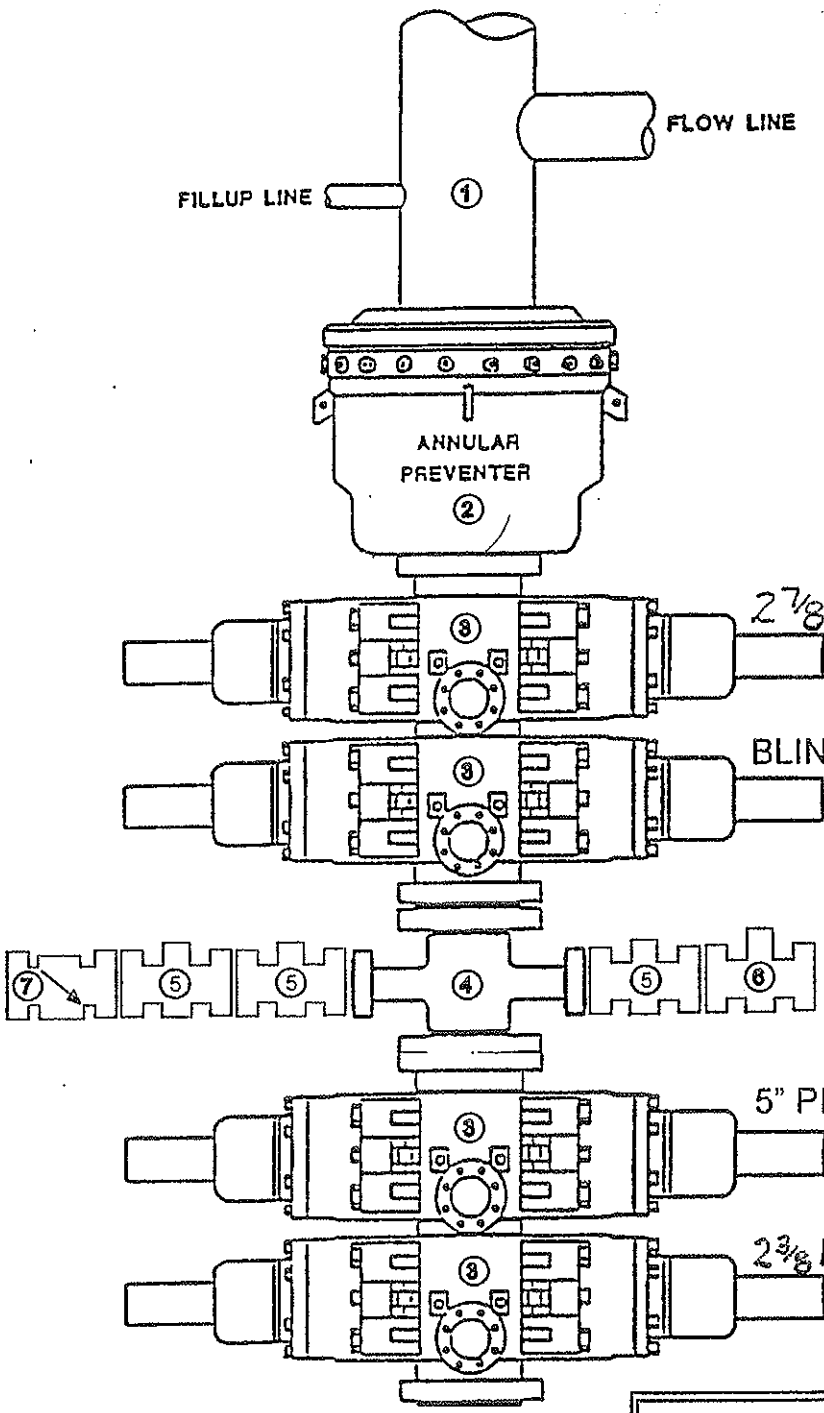
Hydrogen Sulfide Considerations:

Both the Monterey and the Upper Topanga have potential for hydrogen sulfide gas. **Assume any gas circulated to surface to have hydrogen sulfide potential.** Operations will adhere to the "Platform Gail Hydrogen Sulfide and Sulfur Dioxide Contingency Plan" dated July 13, 2000.

Platform Gail Well E-8 RD Pilot Hole/Horizontal Lateral
Pore Pressure, Mud Weight & Fracture Pressure



BOP STACK COMPLETION CONFIGURATION

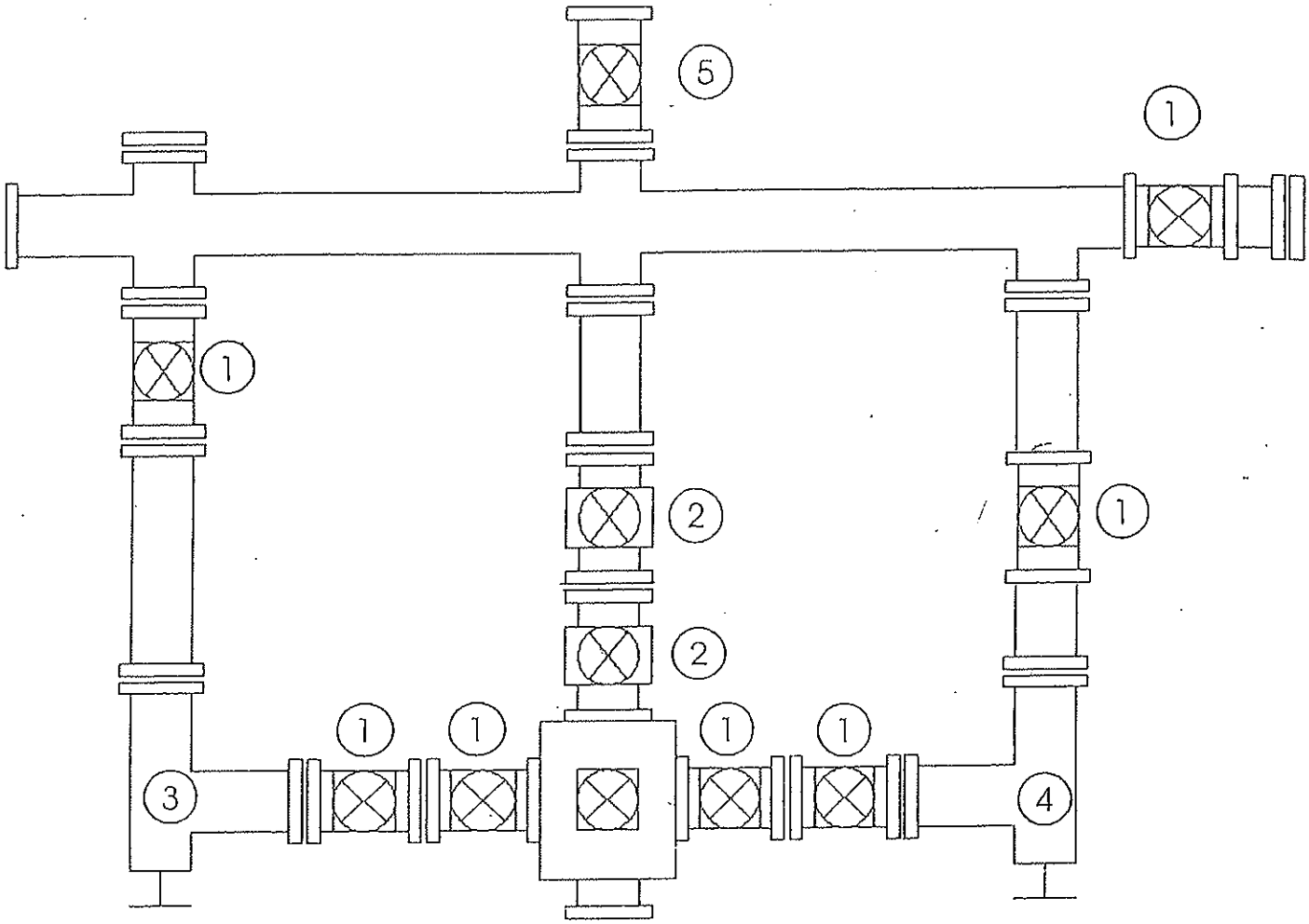


1. BELL NIPPLE
2. 13 5/8" 5M GK HYDRIL
3. 13 5/8" 5M DOUBLE GAT
4. DRILLING SPOOL
5. 3" 5M MANUAL VALVE
6. 3" 5M HCR VALVE
7. 3" 5M CHECK VALVE

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BLOWOUT PREVENTION SYSTEM PLATFORM GAIL

GAIL/BOP3.C

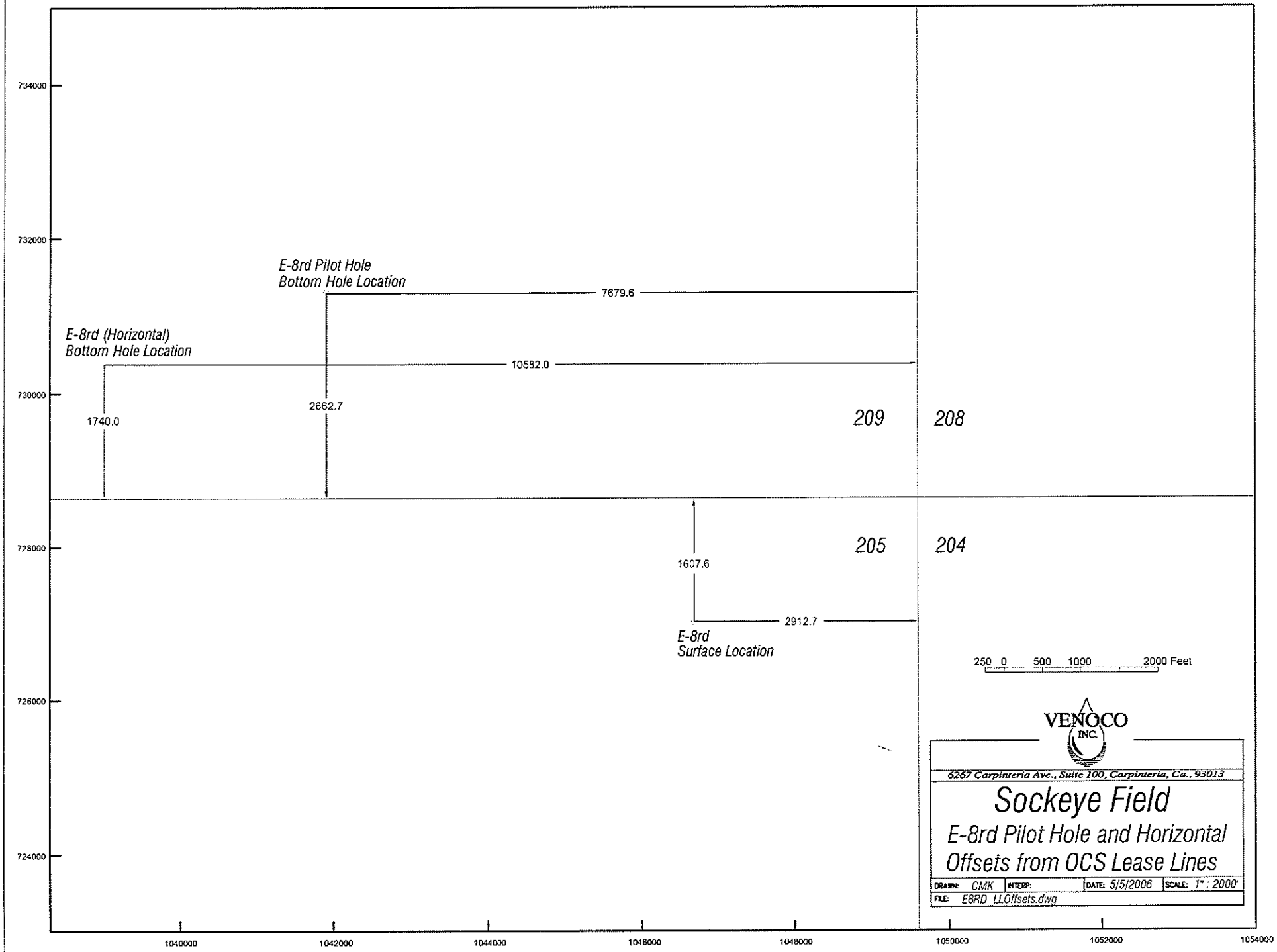


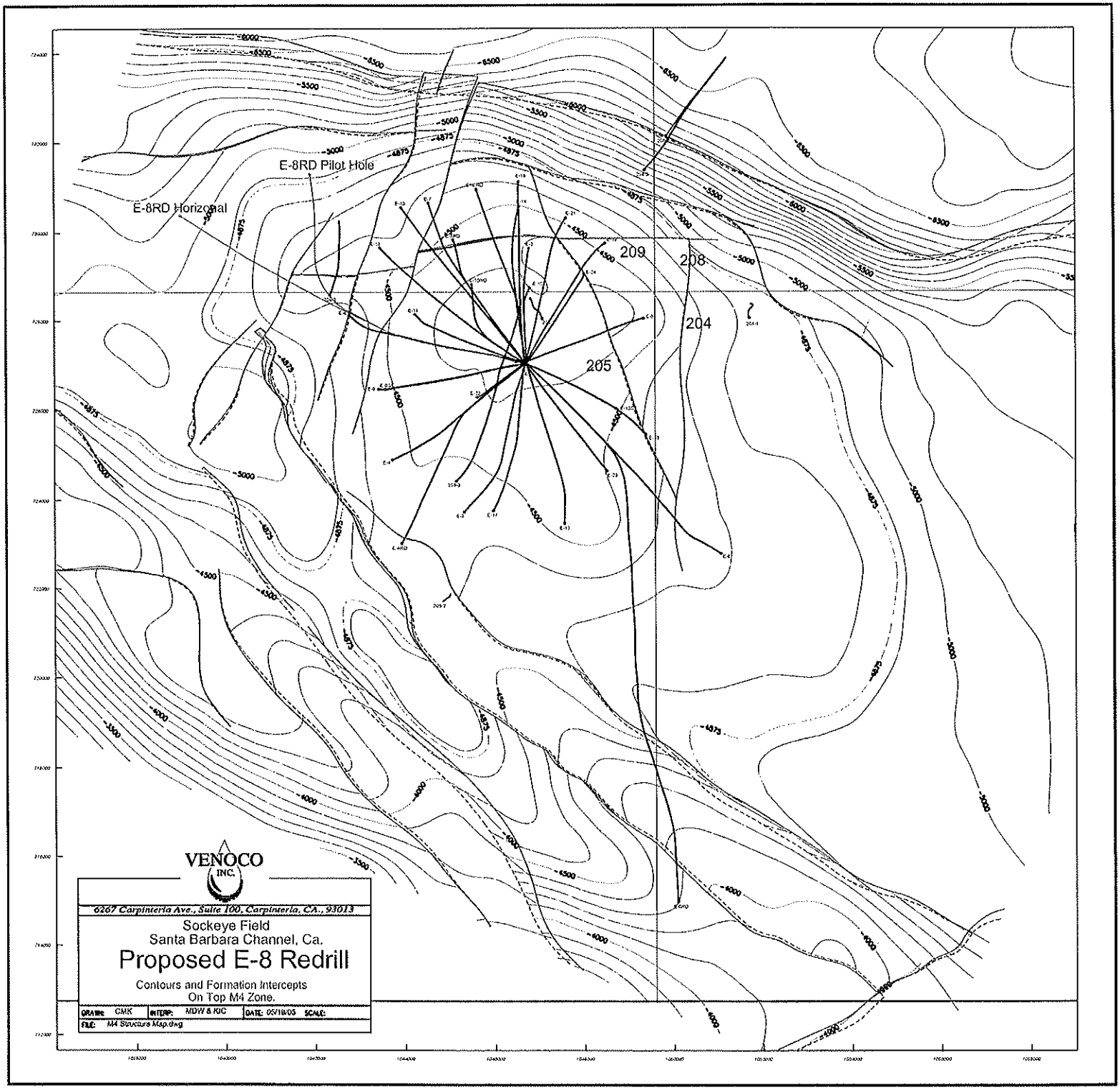
1. 3" 5M GATE VALVE
2. 4" 5M GATE VALVE
3. 3" 5M MANUAL CHOKE
4. 3" 5M HYDRAULIC CHOKE
5. 2" 5M BALL VALVE

VENCO INC.
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CHOKE MANIFOLD PLATFORM GAIL

GAILCHOKE MANIFOLD.CDR


734000
732000
730000
728000
726000
724000
1040000
1042000
1044000
1046000
1048000
1050000
1052000
1054000
E-8rd Pilot Hole
Bottom Hole Location
7679.6
E-8rd (Horizontal)
Bottom Hole Location
10582.0
1740.0
2662.7
209
208
205
204
1607.6
2912.7
E-8rd
Surface Location
250 0 500 1000 2000 Feet
VENOCO INC.
6267 Carpinteria Ave., Suite 100, Carpinteria, Ca., 93013
Sockeye Field
E-8rd Pilot Hole and Horizontal
Offsets from OCS Lease Lines
DRAWN: CMK
INTERP:
DATE: 5/5/2006
SCALE: 1" : 2000'
FILE: E8RD_LLOffsets.dwg


E-8RD Pilot Hole
E-8RD Horizontal
209
208
204
205
VENOCO INC.
6267 Carpinteria Ave., Suite 100, Carpinteria, CA., 93013
Sockeye Field
Santa Barbara Channel, Ca.
Proposed E-8 Redrill
Contours and Formation Intercepts
On Top M4 Zone.
DRAWN: CMK
INTERP: MDW & KIC
DATE: 05/19/05
SCALE:
FILE: M4 Structure Map.dwg



Azimuths to Grid North
True North: 1.73°
Magnetic North: 15.07°

Magnetic Field
Strength: 47752.3nT
Dip Angle: 58.76°
Date: 4/3/2006
Model: BGGM2005

Venoco Inc.

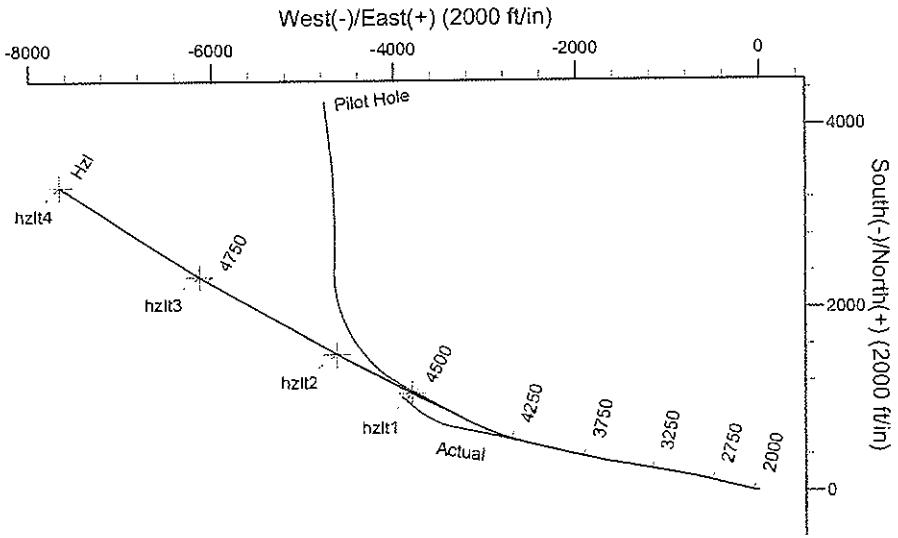
Project: Platform Gail
Site: Platform Gail
Well: (Slot 17) E-8
Wellbore #5
Hzl Plan 4 (03-Apr-06)

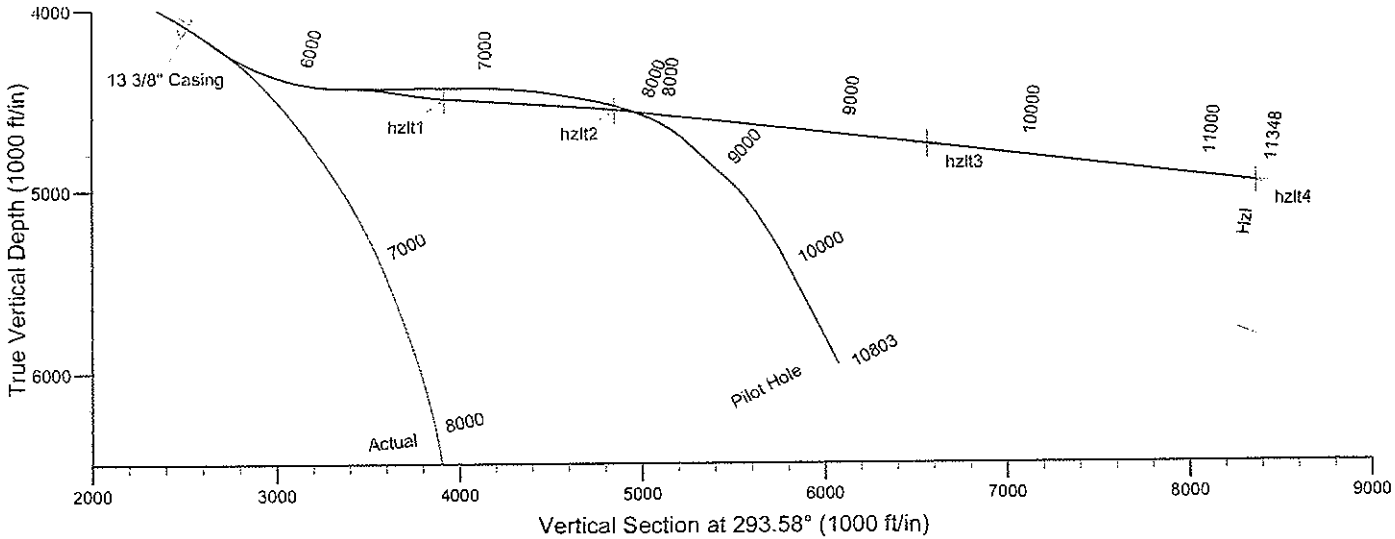
(Slot 17) E-8
NAD 1927 (NADCON CONUS)
California VI 406
Reference: Grid
Well @ 107.00ft (Original Well Elev)
Northing: 727032.46
Easting: 1046687.33

HALLIBURTON
Sperry Drilling Services

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
6325.00	90.00	298.39	4442.00	859.59	-3345.53	0.00	0.00	3410.04	
6549.45	79.88	293.51	4461.78	957.34	-3546.21	5.00	-154.50	3633.07	
6631.54	79.88	293.51	4476.20	989.57	-3620.32	0.00	0.00	3713.88	
6841.71	86.01	297.61	4502.00	1079.54	-3808.33	3.50	33.87	3922.19	hzlt1
6847.03	86.16	297.50	4502.36	1081.99	-3813.03	3.50	-35.90	3927.48	
7668.65	86.16	297.50	4557.36	1460.53	-4540.18	0.00	0.00	4745.34	
7776.17	83.55	299.40	4567.00	1511.54	-4634.33	3.00	144.10	4852.03	hzlt2
9512.39	83.55	299.40	4762.00	2358.54	-6137.33	0.00	0.00	6568.36	hzlt3
9630.22	83.43	302.96	4775.37	2419.15	-6237.48	3.00	92.22	6684.39	
11348.01	83.43	302.96	4972.00	3347.54	-7669.33	0.00	0.00	8368.07	hzlt4





Venoco Inc.

Platform Gail
Platform Gail
(Slot 17) E-8
Wellbore #5

Plan: Hzl Plan 4 (03-Apr-06)

Job No. Hzl Plan 4 (03-Apr-06)

Sperry Drilling Services
Combo Report

03 April, 2006

Well Coordinates: 727,032.46 N, 1,046,687.33 E (34° 07' 30.72" N, 119° 24' 00.36" W)
Water Depth: 739.00 ft

Local Coordinate Origin:	Centered on Well (Slot 17) E-8
Viewing Datum:	Well @ 107.00ft (Original Well Elev)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 2003.14 Build: 65

HALLIBURTON

HALLIBURTON

Plan Report for (Slot 17) E-8 - Wellbore #5 - Hzl Plan 4 (03-Apr-06)

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
0.00	0.00	0.00	107.00	0.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
100.00	0.00	0.00	7.00	100.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
200.00	0.00	0.00	-93.00	200.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
300.00	0.00	0.00	-193.00	300.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
400.00	0.00	0.00	-293.00	400.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
500.00	0.00	0.00	-393.00	500.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
600.00	0.00	0.00	-493.00	600.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
700.00	0.00	0.00	-593.00	700.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
800.00	0.00	0.00	-693.00	800.00	0.00 N	0.00 E	727,032.46	1,046,687.33	0.00	0.00	
900.00	0.19	121.53	-793.00	900.00	0.05 S	0.09 E	727,032.41	1,046,687.42	0.19	-0.10	
1,000.00	0.20	182.41	-893.00	1,000.00	0.33 S	0.22 E	727,032.13	1,046,687.55	0.20	-0.34	
1,100.00	0.09	296.48	-993.00	1,100.00	0.46 S	0.13 E	727,032.00	1,046,687.46	0.25	-0.31	
1,200.00	0.15	80.86	-1,093.00	1,200.00	0.41 S	0.21 E	727,032.05	1,046,687.54	0.22	-0.36	
1,300.00	0.14	30.32	-1,193.00	1,300.00	0.28 S	0.41 E	727,032.18	1,046,687.74	0.12	-0.49	
1,400.00	0.32	304.35	-1,293.00	1,400.00	0.01 S	0.31 E	727,032.45	1,046,687.64	0.34	-0.28	
1,500.00	1.88	273.33	-1,392.98	1,499.98	0.24 N	1.53 W	727,032.70	1,046,685.80	1.62	1.50	
1,600.00	4.06	270.70	-1,492.84	1,599.84	0.36 N	6.71 W	727,032.82	1,046,680.62	2.18	6.30	
1,700.00	6.25	273.96	-1,592.43	1,699.43	0.74 N	15.66 W	727,033.20	1,046,671.67	2.21	14.65	
1,800.00	9.17	279.89	-1,691.52	1,798.52	2.48 N	28.94 W	727,034.94	1,046,658.39	3.02	27.52	
1,900.00	12.35	283.08	-1,789.75	1,896.75	6.30 N	47.20 W	727,038.76	1,046,640.13	3.23	45.78	
2,000.00	15.67	283.21	-1,886.76	1,993.76	11.81 N	70.76 W	727,044.27	1,046,616.57	3.32	69.58	
2,100.00	19.05	282.91	-1,982.19	2,089.19	18.50 N	99.84 W	727,050.96	1,046,587.49	3.39	98.90	
2,200.00	22.48	284.99	-2,075.68	2,182.68	27.13 N	134.21 W	727,059.59	1,046,553.12	3.50	133.86	
2,300.00	25.94	284.77	-2,166.86	2,273.86	37.68 N	173.87 W	727,070.14	1,046,513.46	3.46	174.43	
2,400.00	28.61	283.94	-2,255.78	2,362.78	48.98 N	218.18 W	727,081.44	1,046,469.15	2.70	219.56	
2,500.00	33.24	284.16	-2,341.53	2,448.53	61.53 N	268.02 W	727,093.99	1,046,419.31	4.63	270.26	
2,600.00	37.50	282.36	-2,423.05	2,530.05	74.66 N	324.38 W	727,107.12	1,046,362.95	4.39	327.16	
2,700.00	41.65	284.00	-2,500.11	2,607.11	89.19 N	386.40 W	727,121.65	1,046,300.93	4.28	389.82	
2,800.00	45.52	285.87	-2,572.53	2,679.53	107.09 N	452.97 W	727,139.55	1,046,234.36	4.08	457.98	
2,900.00	49.19	285.18	-2,640.26	2,747.26	126.72 N	523.84 W	727,159.18	1,046,163.49	3.70	530.79	
3,000.00	52.77	285.09	-2,703.13	2,810.13	147.17 N	598.85 W	727,179.63	1,046,088.48	3.58	607.72	
3,100.00	54.11	281.50	-2,762.59	2,869.59	165.55 N	677.10 W	727,198.01	1,046,010.23	3.18	686.79	
3,200.00	53.05	279.85	-2,822.02	2,929.02	180.40 N	756.14 W	727,212.86	1,045,931.19	1.70	765.17	
3,300.00	53.32	279.58	-2,881.92	2,988.92	193.89 N	835.07 W	727,226.35	1,045,852.26	0.34	842.90	
3,400.00	53.05	279.79	-2,941.86	3,048.86	207.36 N	913.98 W	727,239.82	1,045,773.35	0.32	920.61	
3,500.00	53.03	279.97	-3,002.02	3,109.02	221.06 N	992.67 W	727,253.52	1,045,694.66	0.14	998.21	
3,600.00	53.81	280.33	-3,061.59	3,168.59	235.21 N	1,071.74 W	727,267.67	1,045,615.59	0.83	1,076.34	
3,700.00	53.96	280.78	-3,120.54	3,227.54	250.09 N	1,151.13 W	727,282.55	1,045,536.20	0.39	1,155.05	
3,800.00	54.51	279.44	-3,179.01	3,286.01	264.30 N	1,231.00 W	727,296.76	1,045,456.33	1.22	1,233.94	
3,900.00	55.47	278.86	-3,236.36	3,343.36	277.25 N	1,311.88 W	727,309.71	1,045,375.45	1.07	1,313.25	

HALLIBURTON

Plan Report for (Slot 17) E-8 - Wellbore #5 - Hzl Plan 4 (03-Apr-06)

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
4,000.00	56.07	280.03	-3,292.62	3,399.62	290.90 N	1,393.42 W	727,323.36	1,045,293.91	1.14	1,393.44	
4,100.00	56.62	279.51	-3,348.03	3,455.03	305.01 N	1,475.46 W	727,337.47	1,045,211.87	0.70	1,474.27	
4,200.00	56.89	279.48	-3,402.86	3,509.86	318.70 N	1,557.96 W	727,351.16	1,045,129.37	0.28	1,555.36	
4,300.00	57.31	281.34	-3,457.18	3,564.18	334.02 N	1,640.51 W	727,366.48	1,045,046.82	1.62	1,637.14	
4,400.00	57.83	280.09	-3,510.79	3,617.79	349.56 N	1,723.48 W	727,382.02	1,044,963.85	1.17	1,719.40	
4,500.00	58.06	282.39	-3,563.86	3,670.86	366.16 N	1,806.59 W	727,398.62	1,044,880.74	1.98	1,802.21	
4,600.00	57.99	282.95	-3,616.84	3,723.84	384.78 N	1,889.33 W	727,417.24	1,044,798.00	0.48	1,885.49	
4,700.00	58.74	282.89	-3,669.29	3,776.29	403.86 N	1,972.31 W	727,436.32	1,044,715.02	0.74	1,969.17	
4,800.00	59.35	282.14	-3,720.74	3,827.74	422.33 N	2,056.04 W	727,454.79	1,044,631.29	0.89	2,053.31	
4,900.00	60.15	283.77	-3,771.08	3,878.08	441.81 N	2,140.21 W	727,474.27	1,044,547.12	1.62	2,138.24	
5,000.00	60.23	283.08	-3,820.82	3,927.82	461.89 N	2,224.61 W	727,494.35	1,044,462.72	0.60	2,223.62	
5,100.00	60.92	283.75	-3,869.92	3,976.92	482.16 N	2,309.33 W	727,514.62	1,044,378.00	0.91	2,309.38	
5,200.00	60.91	283.02	-3,918.45	4,025.45	502.33 N	2,394.41 W	727,534.79	1,044,292.92	0.63	2,395.42	
5,300.00	59.05	283.90	-3,968.45	4,075.45	522.56 N	2,478.61 W	727,555.02	1,044,208.72	2.01	2,480.68	
5,400.00	56.02	283.80	-4,021.81	4,128.81	542.44 N	2,560.80 W	727,574.90	1,044,126.53	3.03	2,563.96	
5,500.00	52.61	285.34	-4,080.79	4,187.79	563.01 N	2,638.86 W	727,595.47	1,044,048.47	3.64	2,643.74	
5,600.00	56.85	287.26	-4,138.82	4,245.82	585.77 N	2,717.02 W	727,618.23	1,043,970.31	4.52	2,724.48	
5,700.00	61.57	289.19	-4,190.00	4,297.00	612.67 N	2,798.57 W	727,645.13	1,043,888.76	5.00	2,809.98	
5,800.00	66.31	290.94	-4,233.92	4,340.92	643.50 N	2,882.92 W	727,675.96	1,043,804.41	5.00	2,899.61	
5,900.00	71.08	292.58	-4,270.25	4,377.25	678.05 N	2,969.41 W	727,710.51	1,043,717.92	5.00	2,992.70	
6,000.00	75.85	294.12	-4,298.70	4,405.70	716.04 N	3,057.39 W	727,748.50	1,043,629.94	5.00	3,088.53	
6,100.00	80.64	295.60	-4,319.07	4,426.07	757.20 N	3,146.18 W	727,789.66	1,043,541.15	5.00	3,186.38	
6,200.00	85.43	297.04	-4,331.20	4,438.20	801.20 N	3,235.13 W	727,833.66	1,043,452.20	5.00	3,285.50	
6,300.00	90.00	298.39	-4,335.00	4,442.00	847.71 N	3,323.53 W	727,880.17	1,043,363.80	4.77	3,385.13	
6,325.00	90.00	298.39	-4,335.00	4,442.00	859.59 N	3,345.53 W	727,892.05	1,043,341.80	0.00	3,410.04	Start Sidetrack 5.00 TFO -154.50
6,400.00	86.62	296.77	-4,337.21	4,444.21	894.30 N	3,411.96 W	727,926.76	1,043,275.37	5.00	3,484.81	
6,500.00	82.11	294.60	-4,347.04	4,454.04	937.43 N	3,501.61 W	727,969.89	1,043,185.72	5.00	3,584.23	
6,549.45	79.88	293.51	-4,354.78	4,461.78	957.34 N	3,546.21 W	727,989.80	1,043,141.12	5.00	3,633.07	Start 82.09 hold at 6549.45 MD
6,600.00	79.88	293.51	-4,363.66	4,470.66	977.19 N	3,591.84 W	728,009.65	1,043,095.49	0.00	3,682.83	
6,631.54	79.88	293.51	-4,369.20	4,476.20	989.57 N	3,620.32 W	728,022.03	1,043,067.01	0.00	3,713.88	Start DLS 3.50 TFO 33.87
6,700.00	81.88	294.86	-4,380.05	4,487.05	1,017.26 N	3,681.97 W	728,049.72	1,043,005.36	3.50	3,781.46	
6,800.00	84.79	296.80	-4,391.66	4,498.66	1,060.53 N	3,771.36 W	728,092.99	1,042,915.97	3.50	3,880.70	
6,841.71	86.01	297.61	-4,395.00	4,502.00	1,079.54 N	3,808.33 W	728,112.00	1,042,879.00	3.50	3,922.19	Start DLS 3.50 TFO -35.90 - hzlt1
6,847.03	86.16	297.50	-4,395.36	4,502.36	1,081.99 N	3,813.03 W	728,114.45	1,042,874.30	3.50	3,927.48	Start 821.62 hold at 6847.03 MD
6,900.00	86.16	297.50	-4,398.91	4,505.91	1,106.40 N	3,859.92 W	728,138.86	1,042,827.41	0.00	3,980.21	
7,000.00	86.16	297.50	-4,405.60	4,512.60	1,152.47 N	3,948.42 W	728,184.93	1,042,738.91	0.00	4,079.75	
7,100.00	86.16	297.50	-4,412.30	4,519.30	1,198.54 N	4,036.92 W	728,231.00	1,042,650.41	0.00	4,179.29	
7,200.00	86.16	297.50	-4,418.99	4,525.99	1,244.62 N	4,125.42 W	728,277.08	1,042,561.91	0.00	4,278.84	
7,300.00	86.16	297.50	-4,425.68	4,532.68	1,290.69 N	4,213.92 W	728,323.15	1,042,473.41	0.00	4,378.38	

HALLIBURTON

Plan Report for (Slot 17) E-8 - Wellbore #5 - Hzl Plan 4 (03-Apr-06)

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
7,400.00	86.16	297.50	-4,432.38	4,539.38	1,336.76 N	4,302.43 W	728,369.22	1,042,384.90	0.00	4,477.92	
7,500.00	86.16	297.50	-4,439.07	4,546.07	1,382.83 N	4,390.93 W	728,415.29	1,042,296.40	0.00	4,577.46	
7,600.00	86.16	297.50	-4,445.77	4,552.77	1,428.90 N	4,479.43 W	728,461.36	1,042,207.90	0.00	4,677.01	
7,668.65	86.16	297.50	-4,450.36	4,557.36	1,460.53 N	4,540.18 W	728,492.99	1,042,147.15	0.00	4,745.34	Start DLS 3.00 TFO 144.10
7,700.00	85.40	298.05	-4,452.67	4,559.67	1,475.10 N	4,567.85 W	728,507.56	1,042,119.48	3.00	4,776.52	
7,776.17	83.55	299.40	-4,460.00	4,567.00	1,511.54 N	4,634.33 W	728,544.00	1,042,053.00	3.00	4,852.03	Start 1736.22 hold at 7776.17 MD - hzlt2
7,800.00	83.55	299.40	-4,462.68	4,569.68	1,523.16 N	4,654.96 W	728,555.62	1,042,032.37	0.00	4,875.59	
7,900.00	83.55	299.40	-4,473.91	4,580.91	1,571.95 N	4,741.52 W	728,604.41	1,041,945.81	0.00	4,974.44	
8,000.00	83.55	299.40	-4,485.14	4,592.14	1,620.73 N	4,828.09 W	728,653.19	1,041,859.24	0.00	5,073.29	
8,100.00	83.55	299.40	-4,496.37	4,603.37	1,669.52 N	4,914.66 W	728,701.98	1,041,772.67	0.00	5,172.15	
8,200.00	83.55	299.40	-4,507.60	4,614.60	1,718.30 N	5,001.23 W	728,750.76	1,041,686.10	0.00	5,271.00	
8,300.00	83.55	299.40	-4,518.83	4,625.83	1,767.09 N	5,087.79 W	728,799.55	1,041,599.54	0.00	5,369.86	
8,400.00	83.55	299.40	-4,530.06	4,637.06	1,815.87 N	5,174.36 W	728,848.33	1,041,512.97	0.00	5,468.71	
8,500.00	83.55	299.40	-4,541.30	4,648.30	1,864.65 N	5,260.93 W	728,897.11	1,041,426.40	0.00	5,567.57	
8,600.00	83.55	299.40	-4,552.53	4,659.53	1,913.44 N	5,347.50 W	728,945.90	1,041,339.83	0.00	5,666.42	
8,700.00	83.55	299.40	-4,563.76	4,670.76	1,962.22 N	5,434.07 W	728,994.68	1,041,253.26	0.00	5,765.28	
8,800.00	83.55	299.40	-4,574.99	4,681.99	2,011.01 N	5,520.63 W	729,043.47	1,041,166.70	0.00	5,864.13	
8,900.00	83.55	299.40	-4,586.22	4,693.22	2,059.79 N	5,607.20 W	729,092.25	1,041,080.13	0.00	5,962.99	
9,000.00	83.55	299.40	-4,597.45	4,704.45	2,108.58 N	5,693.77 W	729,141.04	1,040,993.56	0.00	6,061.84	
9,100.00	83.55	299.40	-4,608.68	4,715.68	2,157.36 N	5,780.34 W	729,189.82	1,040,906.99	0.00	6,160.70	
9,200.00	83.55	299.40	-4,619.91	4,726.91	2,206.14 N	5,866.90 W	729,238.60	1,040,820.43	0.00	6,259.55	
9,300.00	83.55	299.40	-4,631.15	4,738.15	2,254.93 N	5,953.47 W	729,287.39	1,040,733.86	0.00	6,358.40	
9,400.00	83.55	299.40	-4,642.38	4,749.38	2,303.71 N	6,040.04 W	729,336.17	1,040,647.29	0.00	6,457.26	
9,500.00	83.55	299.40	-4,653.61	4,760.61	2,352.50 N	6,126.61 W	729,384.96	1,040,560.72	0.00	6,556.11	
9,512.39	83.55	299.40	-4,655.00	4,762.00	2,358.54 N	6,137.33 W	729,391.00	1,040,550.00	0.00	6,568.36	Start DLS 3.00 TFO 92.22 - hzlt3
9,600.00	83.46	302.05	-4,664.91	4,771.91	2,403.01 N	6,212.15 W	729,435.47	1,040,475.18	3.00	6,654.73	
9,630.22	83.43	302.96	-4,668.37	4,775.37	2,419.15 N	6,237.48 W	729,451.61	1,040,449.85	3.00	6,684.39	Start 1717.78 hold at 9630.22 MD
9,700.00	83.43	302.96	-4,676.35	4,783.35	2,456.86 N	6,295.64 W	729,489.32	1,040,391.69	0.00	6,752.78	
9,800.00	83.43	302.96	-4,687.80	4,794.80	2,510.90 N	6,378.99 W	729,543.36	1,040,308.34	0.00	6,850.79	
9,900.00	83.43	302.96	-4,699.25	4,806.25	2,564.95 N	6,462.35 W	729,597.41	1,040,224.98	0.00	6,948.81	
10,000.00	83.43	302.96	-4,710.69	4,817.69	2,618.99 N	6,545.70 W	729,651.45	1,040,141.63	0.00	7,046.82	
10,100.00	83.43	302.96	-4,722.14	4,829.14	2,673.04 N	6,629.06 W	729,705.50	1,040,058.27	0.00	7,144.84	
10,200.00	83.43	302.96	-4,733.59	4,840.59	2,727.09 N	6,712.41 W	729,759.55	1,039,974.92	0.00	7,242.85	
10,300.00	83.43	302.96	-4,745.03	4,852.03	2,781.13 N	6,795.77 W	729,813.59	1,039,891.56	0.00	7,340.87	
10,400.00	83.43	302.96	-4,756.48	4,863.48	2,835.18 N	6,879.12 W	729,867.64	1,039,808.21	0.00	7,438.88	
10,500.00	83.43	302.96	-4,767.93	4,874.93	2,889.22 N	6,962.48 W	729,921.68	1,039,724.85	0.00	7,536.90	
10,600.00	83.43	302.96	-4,779.38	4,886.38	2,943.27 N	7,045.83 W	729,975.73	1,039,641.50	0.00	7,634.91	
10,700.00	83.43	302.96	-4,790.82	4,897.82	2,997.32 N	7,129.18 W	730,029.78	1,039,558.15	0.00	7,732.93	
10,800.00	83.43	302.96	-4,802.27	4,909.27	3,051.36 N	7,212.54 W	730,083.82	1,039,474.79	0.00	7,830.94	

HALLIBURTON

Plan Report for (Slot 17) E-8 - Wellbore #5 - Hzl Plan 4 (03-Apr-06)

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
10,900.00	83.43	302.96	-4,813.72	4,920.72	3,105.41 N	7,295.89 W	730,137.87	1,039,391.44	0.00	7,928.96	
11,000.00	83.43	302.96	-4,825.16	4,932.16	3,159.45 N	7,379.25 W	730,191.91	1,039,308.08	0.00	8,026.97	
11,100.00	83.43	302.96	-4,836.61	4,943.61	3,213.50 N	7,462.60 W	730,245.96	1,039,224.73	0.00	8,124.99	
11,200.00	83.43	302.96	-4,848.06	4,955.06	3,267.55 N	7,545.96 W	730,300.01	1,039,141.37	0.00	8,223.00	
11,300.00	83.43	302.96	-4,859.50	4,966.50	3,321.59 N	7,629.31 W	730,354.05	1,039,058.02	0.00	8,321.02	
11,348.01	83.43	302.96	-4,865.00	4,972.00	3,347.54 N	7,669.33 W	730,380.00	1,039,018.00	0.00	8,368.07	TD at 11348.01 - hzlt4

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
6,325.00	4,442.00	859.59	-3,345.53	Start Sidetrack 5.00 TFO -154.50
6,549.45	4,461.78	957.34	-3,546.21	Start 82.09 hold at 6549.45 MD
6,631.54	4,476.20	989.57	-3,620.32	Start DLS 3.50 TFO 33.87
6,841.71	4,502.00	1,079.54	-3,808.33	Start DLS 3.50 TFO -35.90
6,847.03	4,502.36	1,081.99	-3,813.03	Start 821.62 hold at 6847.03 MD
7,668.65	4,557.36	1,460.53	-4,540.18	Start DLS 3.00 TFO 144.10
7,776.17	4,567.00	1,511.54	-4,634.33	Start 1736.22 hold at 7776.17 MD
9,512.39	4,762.00	2,358.54	-6,137.33	Start DLS 3.00 TFO 92.22
9,630.22	4,775.37	2,419.15	-6,237.48	Start 1717.78 hold at 9630.22 MD
11,348.01	4,972.00	3,347.54	-7,669.33	TD at 11348.01

Vertical Section Information

	Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
TD		No Target (Freehand)	293.58	Slot	0.00	0.00	0.00

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")

Plan Report for (Slot 17) E-8 - Wellbore #5 - Hzl Plan 4 (03-Apr-06)

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
hzlt1	0.00	0.00	4,502.00	1,079.54	-3,808.33	728,112.00	1,042,879.00	34.128	-119.413
- plan hits target - Point									
hzlt2	0.00	0.00	4,567.00	1,511.54	-4,634.33	728,544.00	1,042,053.00	34.129	-119.416
- plan hits target - Point									
hzlt3	0.00	0.00	4,762.00	2,358.54	-6,137.33	729,391.00	1,040,550.00	34.131	-119.421
- plan hits target - Point									
hzlt4	0.00	0.00	4,972.00	3,347.54	-7,669.33	730,380.00	1,039,018.00	34.134	-119.426
- plan hits target - Point									

HALLIBURTON

North Reference Sheet for Platform Gail - (Slot 17) E-8 - Wellbore #5

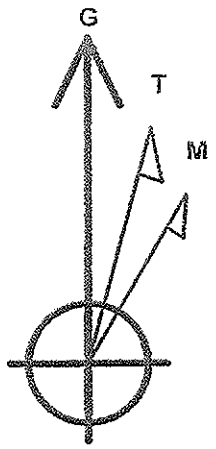
All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.
Vertical Depths are relative to Well @ 107.00ft (Original Well Elev). Northing and Easting are relative to (Slot 17) E-8

Coordinate System is US State Plane 1927 (Exact solution), California VI 406 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866
Projection method is Lambert Conformal Conic (2 parallel)
Central Meridian is -116.250°, Longitude Origin:0.000°, Latitude Origin:33.883°
False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 1.00004935

Grid Coordinates of Well: 727,032.46 ft N, 1,046,687.33 ft E
Geographical Coordinates of Well: 34° 07' 30.72" N, 119° 24' 00.36" W
Grid Convergence at Surface is: -1.73°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,348.01ft
the Bottom Hole Displacement is 8,368.07ft in the Direction of 293.58° (Grid).

Magnetic Convergence at surface is: -15.07° (3 April 2006, . BGGM2005)



Magnetic Model:	BGGM2005
Date:	03-Apr-06
Declination:	13.34°
Inclination/Dip:	58.76°
Field Strength:	47752

Grid North is 1.73° West of True North (Grid Convergence)
Magnetic North is 13.34° East of True North (Magnetic Declination)
Magnetic North is 15.07° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Add 1.73°
To convert a Magnetic Direction to a True Direction, Add 13.34° East
To convert a Magnetic Direction to a Grid Direction, Add 15.07°

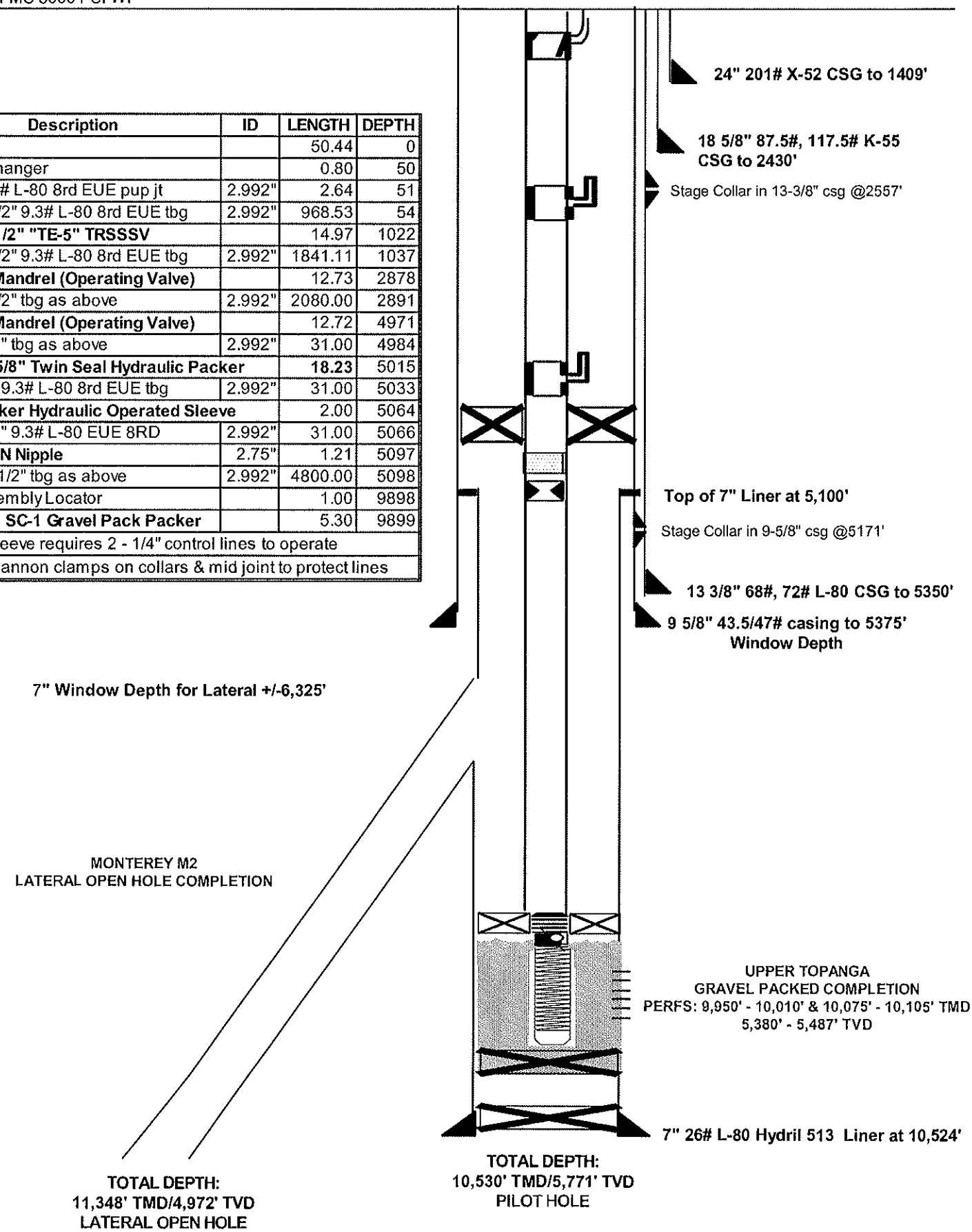
Vertical to 1415'
Inclination reaches 90° at 6350' MD/4,4 TVD
Lateral Hole drilled at 83° 6,325' to 11,3[illegible] MD/4,972' TVD
Pilot Hole drilled to 10,530' MD/5,771' TVD
Inclination drops to 46° at 9,950' MD/5,380' TVD
D.F. Elevation: 107'
D.F. to Tubing Head: 50'
Water Depth: 739'
Tree: FMC 5000 PSI WP

SOCKEYE FI[illegible]D
WELL E-8 RD
Lease: OCS-P-0209
PROPOSED REDRILL
PILOT HOLE & LATERAL HOLE

Drawing Revision 05/203/06 JLH

Completion Date:

Description	ID	LENGTH	DEPTH
KB		50.44	0
FMC tbg hanger		0.80	50
3-1/2" 9.3# L-80 8rd EUE pup jt	2.992"	2.64	51
31 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	968.53	54
Baker 3 1/2" "TE-5" TRSSSV		14.97	1022
60 jts 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	1841.11	1037
Gas Lift Mandrel (Operating Valve)		12.73	2878
66 jts 3 1/2" tbg as above	2.992"	2080.00	2891
Gas Lift Mandrel (Operating Valve)		12.72	4971
1 jts 3 1/2" tbg as above	2.992"	31.00	4984
Baker 9-5/8" Twin Seal Hydraulic Packer		**18.23**	5015
1 jt 3 1/2" 9.3# L-80 8rd EUE tbg	2.992"	31.00	5033
3 1/2" Baker Hydraulic Operated Sleeve		2.00	5064
1 jts 3 1/2" 9.3# L-80 EUE 8RD	2.992"	31.00	5066
3 1/2" BXN Nipple	2.75"	1.21	5097
152 jts 3 1/2" tbg as above	2.992"	4800.00	5098
Seal Assembly Locator		1.00	9898
7" Baker SC-1 Gravel Pack Packer		5.30	9899
Sliding Sleeve requires 2 - 1/4" control lines to operate			
Will run Cannon clamps on collars & mid joint to protect lines			



*operator is prep ing downhole commingling the Monterey(MZ) & Upper Topanga Zones. Dual zones of interest will consist of UT Gravel pack (7" casing) & 6 1/8" OH Monterey.
[Epilot"] [Lateral]
↳ 10,803'/5964' ↳ 11,348'/4972'

APPLICATION FOR PERMIT TO DRILL

CHECK LIST

OPERATOR Venoco, Inc.
LEASE NO. P-0205 e/inf.; P-0209 @ BHL
WELL NO. E-8 ST-01 & ST-02 *
COPIES RECEIVED 3 P.I. 1
ENGRG. REVIEW BY SJ Shams
DATE COMPLETED 5/30/06
*ST 01 is designated 04311206740 1, ST02 " " " 02.
GEOLOGIC/GEOPHYSICAL REVIEW COMPLETED BY F. Victor DATE 5/11/06
COPIES ON FILE WITH APD Yes
LEASE INSTRUMENT CHECKED NO
DESIGNATION OF OPERATOR APPROVED Yes
SPECIAL LEASE STIPULATIONS NOTED Lease instrument not examined.

POE/POD APPROVED DATE
SPECIAL CONDITIONS OF APPROVAL Standard COAs to Drill OCS well attached to all copies of APD.

MOBIL DRILLING UNIT NO TYPE Platform Rig-Kenai #2
ABS & COASTGUARD DOCUMENTS ON FILE N/A
FRONTIER AREA YES (NO)
SEA FLOOR CONDITIONS EXAMINED, DOCUMENTED AND APPROVED N/A

RIG DESCRIPTION AND SPECIFICATIONS ON FILE? Yes
PLAT PROVIDED 2000 FEET/ONE INCH Yes
SURFACE LOCATION CHECKED Yes
SUBSURFACE LOCATION CHECKED Yes
RKB TO WATER 107' asl WD 739' RKB TO ML 846'
TVD 5964' & 4972' MD 10803' & 11348'

WELL DESIGN CRITERIA: *MASP values based on 100% gas to surface.

KOP_1 = 5375' MD
KOP_2 = 6300' MD
TOL @ 5100' MD

TAKEN FROM OFFSET WELL				CALCULATED	X
CASING SIZE	18 5/8"	13 3/8"	9 5/8"	7" Liner(sqd)	6 1/8" OH (STO
(MD) CASING DEPTH	2424'	5344'	8077'	10,803'	OH to 11,348'
PORE PRESS.	↑	↑	↑	8.4 ppg	7.10 ppg
FRAC. PRESS.				10.5 ppg	10.5 ppg
ANTICIPATED	EXISTING	EXISTING	EXISTING		
SURFACE PRESS.	↓	↓	2307 psi	2307 psi *	1587 psi *
MUD WEIGHT			↓	9.2 OBM	8.5 (seawater)

LOST CIRCULATION ZONES None anticipated - Perhaps in fractured Monterey.
SHALLOW HAZARDS FROM GEOLOGIC/GEOPHYSICAL REVIEW Already behind existing casings

BOPE

	ANNULAR	PIPE RAMS	BLIND/SHEAR RAMS
NO. AND TYPE	1-13 5/8"-5M-GK	3-13 5/8"-5M -1-2 7/8" to 5" VBR -1-5" -1-2 3/8"	1-13 5/8"-5M

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
Pacific OCS Region
770 Paseo Camarillo
Camarillo, California 93010-6064

7106

May 11, 2006

Memorandum

To: District Supervisor, Camarillo District

From: Frank Victor, Office of Reservoir Evaluation & Production

Subject: Geologic Hazards Analysis for Well P-0205 E-8RD

Basic Information

Operator:	Venoco, Inc.
Unit:	Santa Clara Unit
Field:	Sockeye Oil Field
Lease:	OCS-P 0205
Platform:	Gail
Well/Slot:	E-8RD in slot 7 (Dual Lateral)
Objective:	Monterey, U. & L. Topanga, and Sespe Fm. reservoirs
API:	04-311-20674-01

Surface Location: Lambert Zone 6	X =	1,046,687 ft
	Y =	727,032 ft
Estimated Top of Productive Zone	X =	
	Y =	
Estimated Bottom Hole Location	X =	1,039,018 ft & 1,041,920 ft
	Y =	730,380 ft & 731,303 ft

Elevation of KB: + 107 feet
Est. Total Depth (measured): - 11,348 feet (RKB) -10,803 feet (RKB)
Est. Total Depth (true vert.): - 4,865 feet (RKB) -5,857 feet (RKB)

Water Depth (Gail): 739 feet +/-

TAKE PRIDE® IN AMERICA

CONDITIONS OF APPROVAL TO DRILL OCS WELL

Approval is further subject to the following specific conditions:

1. The date actual drilling is started shall be reported promptly to the District Manager.

2. A Well Activity Report (WAR), Form MMS-133, (one copy), shall be submitted weekly showing the principal items of work done during the week for development wells. Exploratory wells shall be reported by phone daily. The first development well on a platform shall require a daily phone report.

3. Adequate blowout prevention equipment is outlined in Subpart D of the Code of Federal Regulations (CFR), title 30 starting with paragraph CFR 250.406.

4. Any change in the approved program must receive prior approval from this office. An Application for Permit to Modify (APM) Form MMS-124 (one original signature and three copies) shall be submitted to document approval of request.

5. Any unusual occurrence such as pollution, serious injury to personnel, loss of equipment overboard, damage caused by drifting of drilling vessel off location, well blowout, major equipment failure, etc., shall be verbally reported immediately to the District Manager.

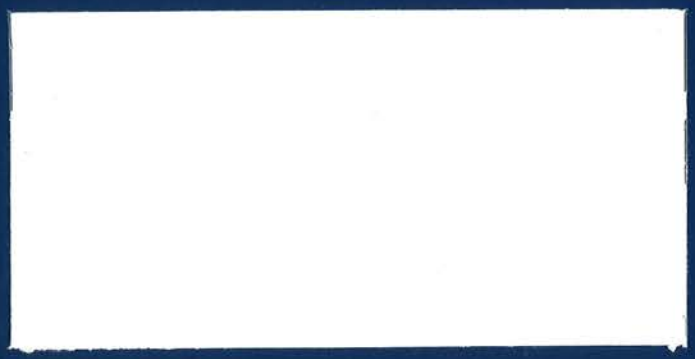
6. The District Manager shall be notified in advance in the event of production tests.

7. One copy of all logs, including the mud log to date, shall be furnished to the Office of Reservoir Evaluation and Production immediately after logging.

8. Before a completion program is commenced or the hole is abandoned, the District Manager shall be allowed sufficient time to examine well records and give separate approval for this portion of the drilling program.

9. The application to temporarily or permanently abandon a well shall be submitted on form MMS-124 as outlined in Subparts G and Q of the CFR, Title 30, paragraphs CFR 250.700 and 1700, notwithstanding any verbal approval to abandon that may have been given by this office. A Subsequent Report, Form MMS-124, must be submitted no later than 30 days after completion of the approved work.

DIRECTIONAL MWD



NL Baroid

Sperry-Sun Directional Services

CHEVRON U.S.A.

WELL COMPLETION REPORT

(HIGH) C-1 SLOT 4

JANUARY 11, 1988

MINERALS MANAGEMENT
SERVICE
RECEIVED
JAN 22 1988
SANTA MARIA DISTRICT

WELL COMPLETION REPORT

CHEVRON U.S.A.

PLATFORM HIDALGO

WELL: (HIGH) C-1 SLOT 4

CALCULATION METHOD: BALANCED TANGENTIAL (TRAPEZOIDAL)

DECLINATION CORRECTION: 13 09' E (GRID)

PROPOSED DIRECTION: N 49 09' W

VERTICAL SECTION CALCULATED TO WELLHEAD

SURVEY TYPE	COMPANY	DEPTHS
ASSUMED VERTICAL		0' - 564'
GYRO	GYRO-DATA	564' - 3244'
GYRO	EASTMAN/CHRISTENSEN	3244' - 9328'
MWD	ANADRILL	9328' - 10433'
PROJECTED		10433' - 10498'

The enclosed report supplied by NL SPERRY-SUN, INC.

NL SPERRY-SUN INCORPORATED

HEVRON U.S.A.
(HIGH) C-1 SLOT 4
JANUARY 11, 1988

R. T. ELEV. = 133.00
NORTH REF. = GRID
WELL HEAD LAT. = 0.00
WELL HEAD DEP. = 0.00

PRINT OUT OF SURVEY RESULTS

COMPLETION WELL REPORT

MEASURED DEPTH	ANGLE DEG	ANGLE MN	DIRECTION DEG	DIRECTION MN	DIRECTION	TRUE VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG RATE
2260	17	18	N 37	7	W	2247.25	93.93	-79.97	121.93	2.489
2290	18	2	N 38	2	W	2275.84	101.14	-85.52	130.85	2.611
2320	18	46	N 39	0	W	2304.31	108.55	-91.42	140.16	2.651
2350	19	25	N 39	48	W	2332.65	116.13	-97.65	149.83	2.336
2380	19	57	N 41	22	W	2360.90	123.80	-104.22	159.82	2.503
2410	20	33	N 41	24	W	2389.05	131.59	-111.09	170.11	2.000
2440	20	57	N 41	46	W	2417.10	139.54	-118.14	180.64	1.403
2470	21	20	N 41	27	W	2445.08	147.63	-125.33	191.37	1.333
2500	21	47	N 42	11	W	2472.98	155.85	-132.68	202.30	1.746
2530	22	8	N 42	0	W	2500.81	164.17	-140.20	213.44	1.188
2560	22	43	N 43	0	W	2528.54	172.61	-147.93	224.80	2.325
2590	23	24	N 42	56	W	2556.14	181.21	-155.94	236.49	2.278
2620	24	40	N 44	55	W	2583.54	190.00	-164.42	248.65	5.013
2650	26	1	N 46	10	W	2610.65	198.99	-173.58	261.47	4.840
2680	27	19	N 47	56	W	2637.46	208.16	-183.44	274.92	5.070
2710	28	50	N 49	0	W	2663.92	217.52	-194.01	289.03	5.325
2740	30	16	N 49	5	W	2690.02	227.22	-205.18	303.83	4.782
2770	31	51	N 49	54	W	2715.72	237.27	-216.95	319.30	5.462
2800	32	46	N 49	4	W	2741.07	247.68	-229.14	335.34	3.395
2830	33	47	N 49	11	W	2766.15	258.46	-241.58	351.80	3.393
2860	34	47	N 49	8	W	2790.94	269.51	-254.36	368.69	3.335
2890	35	58	N 49	0	W	2815.40	280.89	-267.48	386.06	3.955
2920	37	27	N 48	31	W	2839.45	292.71	-280.97	403.99	5.035
2950	38	59	N 48	45	W	2863.01	304.97	-294.89	422.55	5.132
2980	40	12	N 48	46	W	2886.13	317.57	-309.27	441.66	4.057
3010	41	2	N 48	50	W	2908.90	330.44	-323.96	461.19	2.781
3040	42	7	N 50	5	W	2931.35	343.38	-339.09	481.10	4.550
3070	43	25	N 50	27	W	2953.37	356.40	-354.75	501.46	4.413
3100	44	10	N 50	31	W	2975.02	369.61	-370.77	522.22	2.505
3130	43	56	N 50	12	W	2996.58	382.91	-386.83	543.07	1.076
3160	44	28	N 51	26	W	3018.09	396.13	-403.04	563.98	3.367
3190	44	23	N 51	18	W	3039.52	409.24	-419.45	584.96	0.413
3220	44	55	N 50	45	W	3060.86	422.50	-435.84	606.03	2.197
3244	45	13	N 51	31	W	3077.81	433.16	-449.07	623.01	2.593
3300	45	27	N 53	6	W	3117.18	457.51	-480.58	662.78	2.049

NL SPERRY-SUN INCORPORATED

HEVRON U.S.A.
(HIGH) C-1 SLOT 4
ANUARY 11, 1988

R. T. ELEV. = 133.00
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PRINT OUT OF SURVEY RESULTS

COMPLETION WELL REPORT

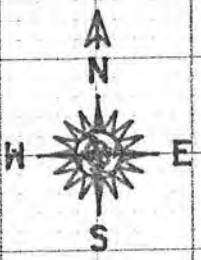
MEASURED DEPTH	ANGLE DEG MN	DIRECTION DEG MN	TRUE VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG RATE
10338	50 42	N 55 18 W	8136.46	3611.60	-4257.88	5583.03	2.507
10433	52 25	N 57 10 W	8195.52	3652.93	-4319.73	5656.85	2.375
10498	52 25	N 57 10 W	8235.16	3680.86	-4363.01	5707.86	0.000

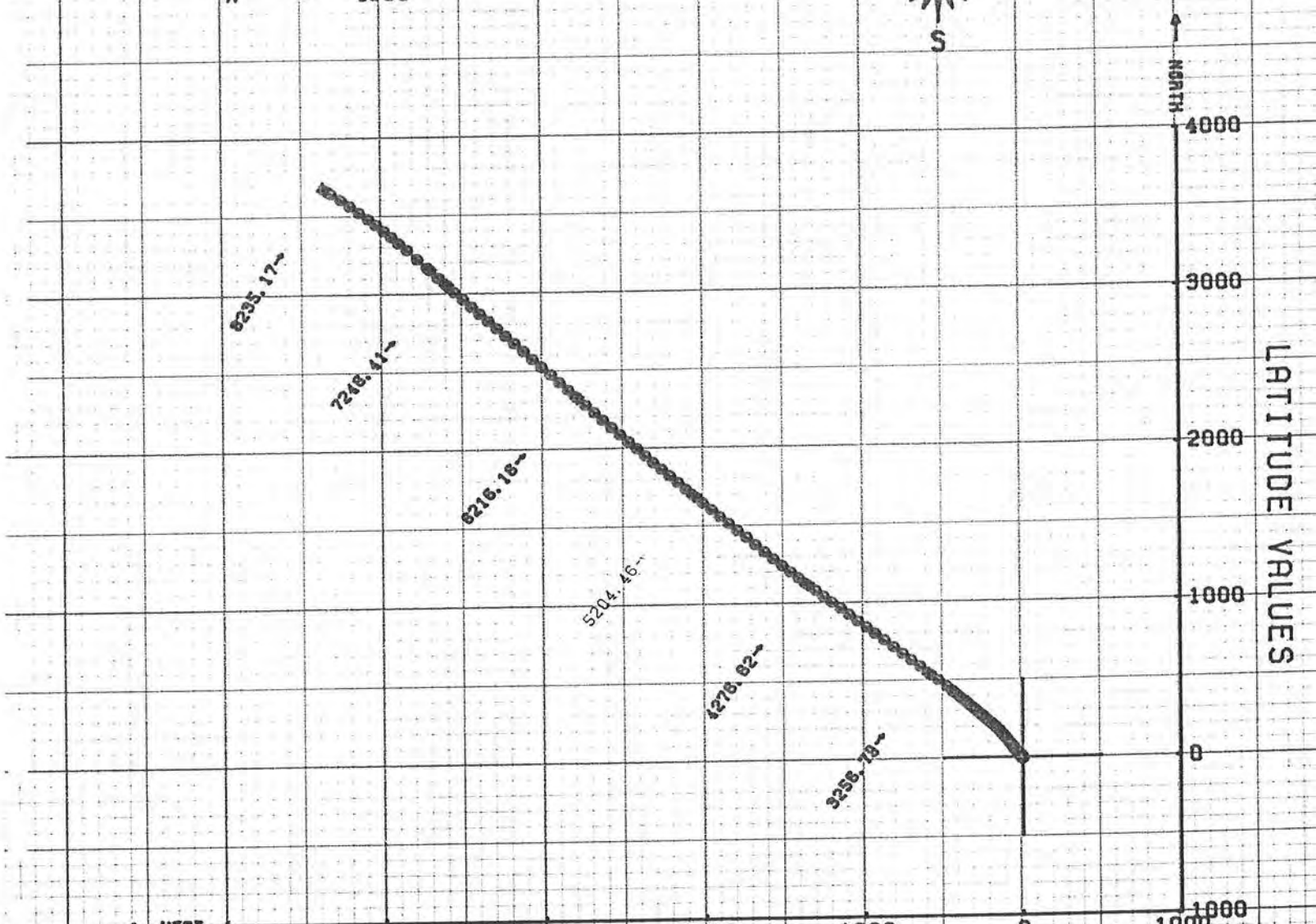
VERTICAL SECTION IS RELATIVE TO WELL HEAD ALONG AZIMUTH 310.86
THE WELL VALUES WERE CALCULATED USING THE TRAPEZOIDAL METHOD
THE BOTTOM HOLE CLOSURE DISTANCE. = 5708.29 ALONG DIRECTION N 49.85 W
RELATIVE TO THE WELL HEAD CO-ORDINATES.

MONITOR 5.07

TARGET CO-ORDINATES

MD	=	10498'
VD	=	8235'
VSS	=	8102'
N	=	3681'
W	=	4363'





SCALE = 1000 FT/IN.

CHEVRON U.S.A.
PLATFORM HIDALGO
WELL (HIGH) C-1 SLOT 4
WELL COMPLETION REPORT

RUN #1 & 2

HEVRON U.S.A., INC.
CS-P-0450 C-1(HIGH) SUITE 5 RUN 3
OINT ARGUELLO
EDERAL WATERS CALIFORNIA
2-28-87

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
FEB 11 1988
FIELD OPERATIONS
LOS ANGELES

MINERALS MANAGEM
SERVICE
RECEIVED
FEB 03 1988
SANTA MARIA DISTRI

NTERVAL 3325.0 TO 9441.0
UN 81 RLAC 12109.
NGINEER WILSON BERRY/YARLOT MAG DEC 13.

****
CHEVRON 12109 SL=12,WL= 8,ST=2 *
*
4 0 0 0 0 *
****

DEPTH	WL	**FORMATION DIP** ANG	AZ	BEARING	GRADE	****BOREHOLE***** DA	DAZ	BEARING
3337.0	8.00	17.1	225	S 45 W	98	46.5	60	N 60 E
3339.0	8.00	17.6	212	S 32 W	100	46.4	47	N 47 E
3343.0	8.00	8.6	220	S 40 W	87	46.5	45	N 45 E
3345.0	8.00	6.7	320	N 40 W	78	46.4	40	N 40 E
3347.0	8.00	6.4	324	N 36 W	100	46.3	46	N 46 E
3355.0	8.00	0.7	346	N 14 W	75	45.9	44	N 44 E
3359.0	8.00	19.5	342	N 18 W	87	45.8	251	S 71 W
3361.0	8.00	9.1	353	N 7 W	100	45.8	215	S 35 W
3365.0	8.00	29.0	47	N 47 E	62	45.9	259	S 79 W
3381.0	8.00	5.7	75	N 75 E	96	46.2	301	N 59 W
3383.0	8.00	4.6	60	N 60 E	85	46.2	301	N 59 W
3385.0	8.00	15.1	168	S 12 E	100	46.2	302	N 58 W
3387.0	8.00	6.5	188	S 8 W	100	46.2	303	N 57 W
3389.0	8.00	6.4	178	S 2 E	100	46.2	303	N 57 W
3391.0	8.00	6.7	178	S 2 E	100	46.2	304	N 56 W
3393.0	8.00	5.8	161	S 19 E	100	46.2	304	N 56 W
3395.0	8.00	6.3	149	S 31 E	100	46.2	304	N 56 W
3397.0	8.00	9.0	154	S 26 E	100	46.3	304	N 56 W
3399.0	8.00	7.2	184	S 4 W	100	46.4	304	N 56 W
3401.0	8.00	9.6	182	S 2 W	68	46.4	305	N 55 W
3403.0	8.00	6.0	211	S 31 W	100	46.5	305	N 55 W
3405.0	8.00	10.4	221	S 41 W	100	46.5	305	N 55 W
3407.0	8.00	7.0	179	S 1 E	100	46.6	305	N 55 W
3419.0	8.00	4.5	192	S 12 W	100	46.5	306	N 54 W
3421.0	8.00	4.5	190	S 10 W	100	46.5	306	N 54 W
3423.0	8.00	3.5	216	S 36 W	100	46.5	306	N 54 W
3425.0	8.00	1.3	201	S 21 W	86	46.6	306	N 54 W
3435.0	8.00	14.2	174	S 6 E	83	46.7	306	N 54 W
3439.0	8.00	20.8	204	S 24 W	92	46.8	306	N 54 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
2-28-87

DEPTH	WL	**FORMATION DIP** ANG	AZ	BEARING	GRADE	****BOREHOLE***** DA	DAZ	BEARING
3443.0	8.00	10.5	192	S 12 W	75	46.9	306	N 54 W
3445.0	8.00	5.0	181	S 1 W	100	46.8	306	N 54 W
3447.0	8.00	5.4	176	S 4 E	100	46.9	306	N 54 W
3449.0	8.00	21.6	188	S 8 W	100	46.8	306	N 54 W
3451.0	8.00	6.3	312	N 48 W	55	46.8	306	N 54 W
3453.0	8.00	10.4	325	N 35 W	58	46.8	306	N 54 W
3455.0	8.00	7.0	32	N 32 E	100	46.8	306	N 54 W
3457.0	8.00	21.0	39	N 39 E	100	46.8	306	N 54 W
3459.0	8.00	6.2	84	N 84 E	100	46.9	306	N 54 W
3463.0	8.00	4.1	102	S 78 E	100	46.8	306	N 54 W
3465.0	8.00	4.1	88	N 88 E	100	46.9	306	N 54 W
3467.0	8.00	6.9	182	S 2 W	100	46.9	306	N 54 W
3469.0	8.00	10.9	194	S 14 W	100	46.9	307	N 53 W
3471.0	8.00	10.1	192	S 12 W	100	46.9	307	N 53 W
3473.0	8.00	16.3	193	S 13 W	80	46.9	306	N 54 W
3475.0	8.00	2.4	111	S 69 E	88	46.9	307	N 53 W
3477.0	8.00	7.8	43	N 43 E	100	46.9	306	N 54 W
3479.0	8.00	4.6	52	N 52 E	100	46.9	307	N 53 W
3483.0	8.00	2.5	65	N 65 E	100	47.0	306	N 54 W
3487.0	8.00	9.7	103	S 77 E	100	46.9	307	N 53 W
3489.0	8.00	9.9	99	S 81 E	100	46.9	307	N 53 W
3491.0	8.00	5.2	155	S 25 E	100	46.9	307	N 53 W
3495.0	8.00	3.6	158	S 22 E	100	47.0	307	N 53 W
3497.0	8.00	4.4	173	S 7 E	100	47.0	307	N 53 W
3499.0	8.00	7.8	208	S 28 W	100	47.0	307	N 53 W
3501.0	8.00	16.5	223	S 43 W	100	46.9	307	N 53 W
3519.0	8.00	28.4	214	S 34 W	68	46.7	307	N 53 W
3521.0	8.00	30.2	211	S 31 W	76	46.7	306	N 54 W
3523.0	8.00	10.1	140	S 40 E	100	46.6	306	N 54 W
3525.0	8.00	9.7	133	S 47 E	100	46.6	307	N 53 W
3527.0	8.00	11.9	149	S 31 E	74	46.7	307	N 53 W
3529.0	8.00	8.2	100	S 80 E	90	46.6	306	N 54 W
3531.0	8.00	6.4	111	S 69 E	74	46.7	307	N 53 W
3539.0	8.00	2.0	125	S 55 E	62	46.8	307	N 53 W
3543.0	8.00	3.3	74	N 74 E	100	46.8	307	N 53 W
3545.0	8.00	5.2	83	N 83 E	100	46.9	307	N 53 W
3549.0	8.00	4.3	39	N 39 E	100	47.0	307	N 53 W
3551.0	8.00	2.9	16	N 16 E	100	46.9	307	N 53 W
3555.0	8.00	1.9	29	N 29 E	100	46.8	307	N 53 W
3563.0	8.00	11.6	8	N 8 E	100	46.8	307	N 53 W

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
FEB 17 1988
ADMINISTRATIVE OFFICE
LOS ANGELES

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
3565.0	8.00	7.0	357	N 3 W	100	46.9	307	N 53 W
3567.0	8.00	9.8	359	N 1 W	100	46.8	307	N 53 W
3569.0	8.00	11.2	204	S 24 W	100	46.8	307	N 53 W
3571.0	8.00	6.7	188	S 8 W	100	46.8	307	N 53 W
3573.0	8.00	4.7	217	S 37 W	100	46.7	307	N 53 W
3575.0	8.00	9.4	194	S 14 W	100	46.7	307	N 53 W
3577.0	8.00	6.0	219	S 39 W	100	46.7	307	N 53 W
3579.0	8.00	6.9	227	S 47 W	100	46.6	307	N 53 W
3581.0	8.00	4.3	248	S 68 W	51	46.5	307	N 53 W
3583.0	8.00	5.3	227	S 47 W	94	46.5	307	N 53 W
3585.0	8.00	7.0	173	S 7 E	87	46.5	307	N 53 W
3591.0	8.00	11.0	154	S 26 E	100	46.5	307	N 53 W
3595.0	8.00	12.5	164	S 16 E	100	46.7	307	N 53 W
3601.0	8.00	2.7	173	S 7 E	84	46.7	307	N 53 W
3603.0	8.00	9.6	192	S 12 W	100	46.7	307	N 53 W
3605.0	8.00	5.3	186	S 6 W	78	46.6	307	N 53 W
3607.0	8.00	9.2	347	N 13 W	92	46.7	307	N 53 W
3609.0	8.00	9.6	349	N 11 W	69	46.6	307	N 53 W
3611.0	8.00	5.0	331	N 29 W	100	46.6	307	N 53 W
3613.0	8.00	3.7	332	N 28 W	100	46.6	307	N 53 W
3615.0	8.00	5.4	353	N 7 W	100	46.6	307	N 53 W
3623.0	8.00	4.5	56	N 56 E	85	46.4	307	N 53 W
3625.0	8.00	4.7	43	N 43 E	100	46.4	307	N 53 W
3633.0	8.00	0.8	12	N 12 E	76	46.5	307	N 53 W
3635.0	8.00	0.9	292	N 68 W	72	46.6	307	N 53 W
3637.0	8.00	1.5	254	S 74 W	75	46.6	307	N 53 W
3639.0	8.00	4.7	252	S 72 W	100	46.6	307	N 53 W
3641.0	8.00	3.8	269	S 89 W	100	46.6	307	N 53 W
3643.0	8.00	6.6	284	N 76 W	67	46.5	307	N 53 W
3645.0	8.00	3.2	269	S 89 W	100	46.5	307	N 53 W
3647.0	8.00	4.3	257	S 77 W	100	46.5	307	N 53 W
3651.0	8.00	5.4	242	S 62 W	100	46.6	307	N 53 W
3663.0	8.00	3.9	277	N 83 W	100	46.6	307	N 53 W
3665.0	8.00	3.5	277	N 83 W	100	46.7	307	N 53 W
3667.0	8.00	9.9	203	S 23 W	100	46.7	307	N 53 W
3669.0	8.00	4.8	175	S 5 E	100	46.6	307	N 53 W
3671.0	8.00	8.3	201	S 21 W	100	46.7	307	N 53 W
3673.0	8.00	5.5	162	S 18 E	100	46.6	307	N 53 W
3675.0	8.00	2.9	117	S 63 E	100	46.6	307	N 53 W
3681.0	8.00	1.9	126	S 54 E	95	46.6	307	N 53 W

EVRON U.S.A., INC.
S-P-0450 C-1(HIGH) SUITE 5 RUN 3
OINT ARGUELLO
EDERAL WATERS CALIFORNIA
2-28-87

DEPTH	WL	**FORMATION DIP** ANG	AZ	BEARING	GRADE	****BOREHOLE***** DA	DAZ	BEARING
3687.0	8.00	6.0	104	S 76 E	100	46.6	307	N 53 W
3689.0	8.00	20.0	43	N 43 E	100	46.6	307	N 53 W
3691.0	8.00	12.6	50	N 50 E	100	46.6	307	N 53 W
3695.0	8.00	12.2	67	N 67 E	100	46.7	307	N 53 W
3697.0	8.00	21.4	49	N 49 E	100	46.6	307	N 53 W
3699.0	8.00	11.1	97	S 83 E	100	46.5	307	N 53 W
3707.0	8.00	4.6	68	N 68 E	100	46.4	307	N 53 W
3709.0	8.00	9.2	69	N 69 E	100	46.3	307	N 53 W
3711.0	8.00	9.4	60	N 60 E	100	46.3	307	N 53 W
3713.0	8.00	9.7	95	S 85 E	100	46.2	307	N 53 W
3715.0	8.00	21.7	76	N 76 E	60	46.2	307	N 53 W
3723.0	8.00	14.2	48	N 48 E	77	46.1	307	N 53 W
3725.0	8.00	10.9	352	N 8 W	100	46.1	307	N 53 W
3727.0	8.00	3.5	284	N 76 W	85	46.1	307	N 53 W
3729.0	8.00	4.7	263	S 83 W	100	46.1	307	N 53 W
3737.0	8.00	2.9	234	S 54 W	100	46.0	307	N 53 W
3739.0	8.00	4.0	211	S 31 W	100	46.0	307	N 53 W
3741.0	8.00	5.1	189	S 9 W	100	46.0	307	N 53 W
3743.0	8.00	9.8	194	S 14 W	100	46.0	307	N 53 W
3745.0	8.00	9.5	180	S 0 E	100	46.2	307	N 53 W
3747.0	8.00	9.1	200	S 20 W	100	46.2	307	N 53 W
3749.0	8.00	9.7	201	S 21 W	100	46.3	307	N 53 W
3751.0	8.00	2.1	194	S 14 W	100	46.3	307	N 53 W
3753.0	8.00	3.5	239	S 59 W	100	46.2	307	N 53 W
3755.0	8.00	3.7	246	S 66 W	100	46.2	307	N 53 W
3763.0	8.00	5.0	276	N 84 W	100	46.1	307	N 53 W
3769.0	8.00	9.3	254	S 74 W	69	46.0	307	N 53 W
3771.0	8.00	12.8	226	S 46 W	100	46.0	307	N 53 W
3773.0	8.00	23.3	183	S 3 W	35	46.2	307	N 53 W
3779.0	8.00	9.3	176	S 4 E	100	46.1	307	N 53 W
3783.0	8.00	5.2	181	S 1 W	100	46.1	307	N 53 W
3785.0	8.00	5.4	149	S 31 E	100	46.2	307	N 53 W
3789.0	8.00	1.8	152	S 28 E	100	46.1	307	N 53 W
3791.0	8.00	3.1	184	S 4 W	100	46.2	307	N 53 W
3793.0	8.00	11.5	218	S 38 W	100	46.2	307	N 53 W
3795.0	8.00	6.0	211	S 31 W	100	46.1	307	N 53 W
3797.0	8.00	15.5	207	S 27 W	75	46.1	307	N 53 W
3799.0	8.00	20.4	207	S 27 W	50	46.1	307	N 53 W
3803.0	8.00	6.6	168	S 12 E	94	45.9	307	N 53 W
3805.0	8.00	6.5	149	S 31 E	100	46.3	307	N 53 W

CHEVRON U.S.A., INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
3815.0	8.00	8.7	139	S 41 E	39	45.9	308	N 52 W
3823.0	8.00	10.3	192	S 12 W	71	45.2	308	N 52 W
3833.0	8.00	28.8	213	S 33 W	58	45.6	308	N 52 W
3851.0	8.00	1.8	238	S 58 W	100	45.8	308	N 52 W
3853.0	8.00	11.5	230	S 50 W	61	45.7	308	N 52 W
3857.0	8.00	6.1	160	S 20 E	100	45.8	307	N 53 W
3861.0	8.00	2.9	184	S 4 W	100	45.9	307	N 53 W
3863.0	8.00	21.1	202	S 22 W	100	45.9	307	N 53 W
3867.0	8.00	17.4	191	S 11 W	100	46.0	307	N 53 W
3871.0	8.00	5.6	184	S 4 W	100	45.9	307	N 53 W
3873.0	8.00	7.6	163	S 17 E	100	45.8	307	N 53 W
3875.0	8.00	7.6	157	S 23 E	100	45.7	307	N 53 W
3877.0	8.00	14.8	187	S 7 W	76	45.6	307	N 53 W
3881.0	8.00	14.8	200	S 20 W	100	45.6	307	N 53 W
3883.0	8.00	33.0	209	S 29 W	99	45.4	307	N 53 W
3895.0	8.00	9.6	182	S 2 W	100	45.6	307	N 53 W
3897.0	8.00	6.3	174	S 6 E	100	45.7	308	N 52 W
3899.0	8.00	6.2	155	S 25 E	100	45.7	308	N 52 W
3901.0	8.00	11.5	164	S 16 E	83	45.7	308	N 52 W
3903.0	8.00	10.6	225	S 45 W	76	45.8	307	N 53 W
3905.0	8.00	21.4	223	S 43 W	64	45.9	307	N 53 W
3907.0	8.00	17.0	223	S 43 W	100	45.8	307	N 53 W
3909.0	8.00	6.1	247	S 67 W	100	45.9	307	N 53 W
3913.0	8.00	6.2	227	S 47 W	100	45.9	307	N 53 W
3915.0	8.00	2.7	243	S 63 W	100	45.8	307	N 53 W
3917.0	8.00	18.7	193	S 13 W	68	45.6	307	N 53 W
3919.0	8.00	13.4	199	S 19 W	98	45.7	307	N 53 W
3923.0	8.00	19.6	213	S 33 W	77	45.7	307	N 53 W
3929.0	8.00	15.4	224	S 44 W	49	45.7	307	N 53 W
3937.0	8.00	16.4	221	S 41 W	93	45.3	307	N 53 W
3941.0	8.00	15.8	238	S 58 W	100	45.5	307	N 53 W
3943.0	8.00	8.7	291	N 69 W	55	45.3	307	N 53 W
3945.0	8.00	9.8	300	N 60 W	100	45.4	308	N 52 W
3947.0	8.00	12.8	23	N 23 E	75	45.3	307	N 53 W
3951.0	8.00	7.4	43	N 43 E	100	45.4	308	N 52 W
3953.0	8.00	20.1	38	N 38 E	100	45.4	307	N 53 W
3955.0	8.00	9.5	116	S 64 E	28	45.6	307	N 53 W
3959.0	8.00	38.7	158	S 22 E	36	45.5	307	N 53 W
3961.0	8.00	16.4	185	S 5 W	80	45.5	307	N 53 W
3965.0	8.00	7.7	212	S 32 W	100	45.6	307	N 53 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
3967.0	8.00	8.6	217	S 37 W	96	45.5	307	N 53 W	
3969.0	8.00	12.7	159	S 21 E	100	45.2	307	N 53 W	
3971.0	8.00	7.5	169	S 11 E	100	45.2	307	N 53 W	
3973.0	8.00	15.2	198	S 18 W	88	45.1	307	N 53 W	
3975.0	8.00	24.7	38	N 38 E	39	45.2	307	N 53 W	
3977.0	8.00	16.8	15	N 15 E	96	45.1	307	N 53 W	
3983.0	8.00	6.3	341	N 19 W	93	45.1	307	N 53 W	
3989.0	8.00	5.7	326	N 34 W	78	45.3	308	N 52 W	
3993.0	8.00	36.6	29	N 29 E	85	45.4	308	N 52 W	
3995.0	8.00	16.6	53	N 53 E	59	45.4	308	N 52 W	
3999.0	8.00	10.8	15	N 15 E	100	45.6	308	N 52 W	
4003.0	8.00	28.5	30	N 30 E	66	45.8	307	N 53 W	
4005.0	8.00	1.9	52	N 52 E	93	45.8	307	N 53 W	
4007.0	8.00	24.3	34	N 34 E	100	45.7	307	N 53 W	
4009.0	8.00	6.8	2	N 2 E	86	45.7	307	N 53 W	
4013.0	8.00	23.9	6	N 6 E	59	45.8	307	N 53 W	
4015.0	8.00	18.6	27	N 27 E	90	45.7	307	N 53 W	
4023.0	8.00	4.4	182	S 2 W	100	45.5	307	N 53 W	
4025.0	8.00	11.2	181	S 1 W	100	45.5	307	N 53 W	
4027.0	8.00	15.5	188	S 8 W	100	45.6	307	N 53 W	
4031.0	8.00	12.8	252	S 72 W	54	45.3	307	N 53 W	
4033.0	8.00	7.1	322	N 38 W	74	45.1	307	N 53 W	
4035.0	8.00	2.4	346	N 14 W	71	45.2	308	N 52 W	
4037.0	8.00	7.0	339	N 21 W	100	45.2	307	N 53 W	
4045.0	8.00	3.5	322	N 38 W	100	45.4	307	N 53 W	
4055.0	8.00	15.0	350	N 10 W	97	45.1	307	N 53 W	
4061.0	8.00	11.2	85	N 85 E	68	45.0	307	N 53 W	
4065.0	8.00	7.9	59	N 59 E	100	44.9	307	N 53 W	
4067.0	8.00	14.8	54	N 54 E	84	45.0	307	N 53 W	
4069.0	8.00	33.1	28	N 28 E	94	44.9	307	N 53 W	
4071.0	8.00	5.0	319	N 41 W	100	44.9	308	N 52 W	
4075.0	8.00	10.7	317	N 43 W	52	45.1	307	N 53 W	
4079.0	8.00	4.2	0	N 0 E	57	45.0	307	N 53 W	
4081.0	8.00	6.6	336	N 24 W	100	44.9	307	N 53 W	
4089.0	8.00	41.0	34	N 34 E	57	44.6	308	N 52 W	
4091.0	8.00	32.8	22	N 22 E	67	44.5	307	N 53 W	
4103.0	8.00	7.4	338	N 22 W	20	44.8	308	N 52 W	
4107.0	8.00	14.1	348	N 12 W	100	44.9	308	N 52 W	
4109.0	8.00	9.8	319	N 41 W	100	45.0	308	N 52 W	
4111.0	8.00	10.5	326	N 34 W	100	45.0	308	N 52 W	

CHEVRON U.S.A., INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP			****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ BEARING
4113.0	8.00	11.3	1	N 1 E	56	45.0	308 N 52 W
4115.0	8.00	11.2	8	N 8 E	99	45.0	308 N 52 W
4117.0	8.00	15.0	7	N 7 E	82	45.1	307 N 53 W
4119.0	8.00	22.4	24	N 24 E	76	44.8	307 N 53 W
4121.0	8.00	18.1	75	N 75 E	98	44.8	308 N 52 W
4123.0	8.00	20.8	56	N 56 E	60	44.9	308 N 52 W
4125.0	8.00	19.6	58	N 58 E	88	44.8	307 N 53 W
4127.0	8.00	16.9	58	N 58 E	88	44.8	308 N 52 W
4129.0	8.00	18.5	69	N 69 E	100	44.7	308 N 52 W
4137.0	8.00	4.5	199	S 19 W	76	44.9	307 N 53 W
4141.0	8.00	13.3	218	S 38 W	100	45.0	307 N 53 W
4143.0	8.00	28.3	204	S 24 W	100	45.1	307 N 53 W
4145.0	8.00	23.9	198	S 18 W	78	45.2	307 N 53 W
4147.0	8.00	17.2	189	S 9 W	63	45.1	307 N 53 W
4149.0	8.00	26.9	206	S 26 W	82	45.1	307 N 53 W
4151.0	8.00	23.0	211	S 31 W	84	44.9	307 N 53 W
4155.0	8.00	27.0	208	S 28 W	34	44.7	307 N 53 W
4157.0	8.00	10.2	222	S 42 W	100	44.6	307 N 53 W
4161.0	8.00	19.0	160	S 20 E	100	44.4	307 N 53 W
4163.0	8.00	21.2	167	S 13 E	100	44.4	307 N 53 W
4167.0	8.00	19.6	161	S 19 E	65	44.2	307 N 53 W
4173.0	8.00	20.2	156	S 24 E	67	44.5	307 N 53 W
4175.0	8.00	10.1	170	S 10 E	77	44.6	307 N 53 W
4177.0	8.00	14.5	178	S 2 E	59	44.7	307 N 53 W
4183.0	8.00	3.3	164	S 16 E	100	44.5	307 N 53 W
4189.0	8.00	19.7	228	S 48 W	19	44.6	308 N 52 W
4191.0	8.00	15.4	238	S 58 W	16	44.2	307 N 53 W
4197.0	8.00	15.5	230	S 50 W	55	44.5	307 N 53 W
4199.0	8.00	13.6	239	S 59 W	63	44.6	308 N 52 W
4203.0	8.00	18.7	229	S 49 W	67	44.5	308 N 52 W
4207.0	8.00	9.3	337	N 23 W	59	44.6	308 N 52 W
4211.0	8.00	14.3	338	N 22 W	50	44.6	308 N 52 W
4213.0	8.00	13.9	332	N 28 W	50	44.6	308 N 52 W
4215.0	8.00	5.4	32	N 32 E	90	44.6	307 N 53 W
4217.0	8.00	5.3	123	S 57 E	60	44.6	308 N 52 W
4219.0	8.00	4.5	127	S 53 E	100	44.8	308 N 52 W
4221.0	8.00	7.1	173	S 7 E	100	44.8	307 N 53 W
4223.0	8.00	4.3	206	S 26 W	100	44.9	307 N 53 W
4227.0	8.00	24.5	182	S 2 W	16	44.9	307 N 53 W
4229.0	8.00	18.0	214	S 34 W	15	44.9	307 N 53 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
4233.0	8.00	22.4	209	S 29 W	100	44.8	307	N 53 W
4235.0	8.00	22.4	210	S 30 W	68	44.9	307	N 53 W
4237.0	8.00	5.2	281	N 79 W	56	44.9	307	N 53 W
4239.0	8.00	9.7	256	S 76 W	71	44.8	307	N 53 W
4241.0	8.00	19.3	14	N 14 E	69	44.8	307	N 53 W
4243.0	8.00	29.7	24	N 24 E	63	44.6	307	N 53 W
4253.0	8.00	7.6	55	N 55 E	100	44.3	307	N 53 W
4255.0	8.00	22.1	54	N 54 E	86	44.3	308	N 52 W
4257.0	8.00	15.8	53	N 53 E	74	44.1	307	N 53 W
4271.0	8.00	43.1	32	N 32 E	100	44.2	308	N 52 W
4273.0	8.00	12.0	344	N 16 W	43	44.3	308	N 52 W
4279.0	8.00	2.9	313	N 47 W	100	44.6	307	N 53 W
4283.0	8.00	9.6	343	N 17 W	100	44.6	307	N 53 W
4285.0	8.00	13.1	263	S 83 W	100	44.7	307	N 53 W
4287.0	8.00	3.0	260	S 80 W	100	44.7	307	N 53 W
4293.0	8.00	20.3	210	S 30 W	100	44.7	307	N 53 W
4295.0	8.00	6.9	154	S 26 E	100	44.7	307	N 53 W
4299.0	8.00	16.6	155	S 25 E	100	44.6	307	N 53 W
4301.0	8.00	12.2	197	S 17 W	85	44.6	307	N 53 W
4303.0	8.00	12.2	199	S 19 W	66	44.5	307	N 53 W
4307.0	8.00	11.8	198	S 18 W	79	44.5	307	N 53 W
4311.0	8.00	1.8	238	S 58 W	70	44.5	307	N 53 W
4315.0	8.00	4.7	264	S 84 W	100	44.5	307	N 53 W
4317.0	8.00	7.4	209	S 29 W	100	44.5	307	N 53 W
4319.0	8.00	7.1	211	S 31 W	100	44.4	307	N 53 W
4321.0	8.00	7.4	207	S 27 W	100	44.4	307	N 53 W
4323.0	8.00	7.6	213	S 33 W	100	44.4	307	N 53 W
4325.0	8.00	6.7	229	S 49 W	100	44.4	307	N 53 W
4327.0	8.00	5.2	213	S 33 W	100	44.4	307	N 53 W
4329.0	8.00	7.2	233	S 53 W	100	44.3	307	N 53 W
4331.0	8.00	4.4	228	S 48 W	100	44.4	307	N 53 W
4333.0	8.00	6.3	219	S 39 W	100	44.3	307	N 53 W
4335.0	8.00	6.1	221	S 41 W	100	44.3	307	N 53 W
4339.0	8.00	4.9	237	S 57 W	100	44.3	307	N 53 W
4341.0	8.00	6.7	267	S 87 W	100	44.2	307	N 53 W
4343.0	8.00	3.3	237	S 57 W	69	44.2	307	N 53 W
4345.0	8.00	7.4	255	S 75 W	100	44.2	307	N 53 W
4347.0	8.00	7.9	245	S 65 W	100	44.2	307	N 53 W
4349.0	8.00	7.2	235	S 55 W	100	44.1	307	N 53 W
4351.0	8.00	15.3	182	S 2 W	100	44.0	307	N 53 W

CHEVRON U.S.A., INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
4353.0	8.00	11.0	200	S 20 W	100	43.9	307	N 53 W
4355.0	8.00	8.3	192	S 12 W	100	43.9	307	N 53 W
4357.0	8.00	9.2	190	S 10 W	100	43.9	307	N 53 W
4359.0	8.00	9.7	191	S 11 W	100	43.8	307	N 53 W
4367.0	8.00	5.9	164	S 16 E	100	43.8	307	N 53 W
4375.0	8.00	9.1	141	S 39 E	100	43.7	307	N 53 W
4377.0	8.00	8.7	130	S 50 E	70	43.6	307	N 53 W
4379.0	8.00	15.4	77	N 77 E	87	43.6	307	N 53 W
4381.0	8.00	6.5	44	N 44 E	100	43.3	307	N 53 W
4385.0	8.00	5.2	321	N 39 W	100	43.5	307	N 53 W
4387.0	8.00	8.5	349	N 11 W	100	43.5	307	N 53 W
4389.0	8.00	9.9	349	N 11 W	100	43.5	307	N 53 W
4393.0	8.00	7.7	13	N 13 E	93	43.6	307	N 53 W
4401.0	8.00	12.3	10	N 10 E	100	43.3	307	N 53 W
4405.0	8.00	10.1	37	N 37 E	100	43.2	308	N 52 W
4409.0	8.00	4.8	119	S 61 E	45	43.1	307	N 53 W
4411.0	8.00	23.5	180	S 0 E	59	43.0	307	N 53 W
4413.0	8.00	19.9	175	S 5 E	44	43.1	308	N 52 W
4415.0	8.00	40.9	208	S 28 W	100	43.1	308	N 52 W
4417.0	8.00	39.7	210	S 30 W	100	43.0	307	N 53 W
4425.0	8.00	7.4	204	S 24 W	83	43.2	307	N 53 W
4431.0	8.00	4.8	232	S 52 W	47	43.3	308	N 52 W
4433.0	8.00	21.4	200	S 20 W	100	43.4	307	N 53 W
4435.0	8.00	12.9	175	S 5 E	59	43.2	308	N 52 W
4437.0	8.00	24.9	217	S 37 W	100	43.0	308	N 52 W
4439.0	8.00	31.2	213	S 33 W	80	43.1	308	N 52 W
4441.0	8.00	26.9	211	S 31 W	61	43.0	307	N 53 W
4443.0	8.00	24.8	216	S 36 W	100	43.2	308	N 52 W
4445.0	8.00	22.3	212	S 32 W	100	43.2	307	N 53 W
4447.0	8.00	14.4	236	S 56 W	100	43.2	308	N 52 W
4449.0	8.00	16.5	226	S 46 W	73	43.2	308	N 52 W
4453.0	8.00	7.0	266	S 86 W	63	43.5	307	N 53 W
4459.0	8.00	13.8	211	S 31 W	100	43.4	307	N 53 W
4465.0	8.00	3.8	187	S 7 W	61	43.5	307	N 53 W
4467.0	8.00	3.7	187	S 7 W	100	43.4	307	N 53 W
4469.0	8.00	11.6	171	S 9 E	100	43.4	307	N 53 W
4471.0	8.00	17.9	193	S 13 W	100	43.4	307	N 53 W
4473.0	8.00	14.7	182	S 2 W	100	43.3	307	N 53 W
4483.0	8.00	9.1	128	S 52 E	100	43.0	307	N 53 W
4485.0	8.00	7.6	114	S 66 E	100	43.0	307	N 53 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
4487.0	8.00	10.0	141	S 39 E	87	42.9	307	N 53 W
4489.0	8.00	9.9	162	S 18 E	100	42.9	307	N 53 W
4505.0	8.00	34.8	191	S 11 W	59	42.6	307	N 53 W
4511.0	8.00	14.8	213	S 33 W	100	42.5	307	N 53 W
4515.0	8.00	17.9	232	S 52 W	100	42.5	307	N 53 W
4525.0	8.00	15.6	223	S 43 W	100	42.4	307	N 53 W
4529.0	8.00	7.0	218	S 38 W	71	42.4	307	N 53 W
4531.0	8.00	6.6	212	S 32 W	100	42.4	307	N 53 W
4533.0	8.00	10.2	195	S 15 W	100	42.4	307	N 53 W
4535.0	8.00	13.4	206	S 26 W	100	42.4	307	N 53 W
4537.0	8.00	14.9	207	S 27 W	100	42.4	307	N 53 W
4539.0	8.00	14.1	206	S 26 W	100	42.4	307	N 53 W
4541.0	8.00	16.7	211	S 31 W	100	42.3	307	N 53 W
4543.0	8.00	18.6	212	S 32 W	100	42.3	307	N 53 W
4545.0	8.00	13.8	237	S 57 W	81	42.3	307	N 53 W
4547.0	8.00	11.1	258	S 78 W	100	42.3	307	N 53 W
4549.0	8.00	23.4	13	N 13 E	39	42.3	307	N 53 W
4551.0	8.00	22.7	14	N 14 E	79	42.4	307	N 53 W
4553.0	8.00	22.6	13	N 13 E	84	42.4	307	N 53 W
4555.0	8.00	18.5	358	N 2 W	55	42.4	307	N 53 W
4557.0	8.00	11.8	9	N 9 E	100	42.4	307	N 53 W
4563.0	8.00	9.7	39	N 39 E	94	42.3	307	N 53 W
4569.0	8.00	19.0	68	N 68 E	71	42.4	307	N 53 W
4577.0	8.00	8.1	111	S 69 E	100	42.4	307	N 53 W
4579.0	8.00	10.9	98	S 82 E	100	42.3	307	N 53 W
4581.0	8.00	11.5	122	S 58 E	100	42.2	307	N 53 W
4583.0	8.00	22.8	189	S 9 W	67	42.2	307	N 53 W
4589.0	8.00	19.9	211	S 31 W	72	42.2	307	N 53 W
4591.0	8.00	5.7	211	S 31 W	83	42.3	307	N 53 W
4595.0	8.00	18.0	227	S 47 W	56	42.3	307	N 53 W
4603.0	8.00	8.9	227	S 47 W	92	42.0	307	N 53 W
4605.0	8.00	12.0	217	S 37 W	100	42.0	307	N 53 W
4609.0	8.00	11.4	199	S 19 W	100	41.9	307	N 53 W
4617.0	8.00	9.7	232	S 52 W	90	41.7	308	N 52 W
4619.0	8.00	9.8	228	S 48 W	100	41.7	307	N 53 W
4621.0	8.00	27.1	212	S 32 W	100	41.8	307	N 53 W
4623.0	8.00	5.5	253	S 73 W	100	41.8	307	N 53 W
4629.0	8.00	5.7	259	S 79 W	100	41.8	307	N 53 W
4631.0	8.00	12.9	294	N 66 W	82	41.8	307	N 53 W
4639.0	8.00	9.8	287	N 73 W	56	41.9	307	N 53 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
4641.0	8.00	12.2	19	N 19 E	78	41.9	307	N 53 W
4645.0	8.00	13.2	13	N 13 E	85	41.9	307	N 53 W
4647.0	8.00	19.3	15	N 15 E	51	41.9	307	N 53 W
4649.0	8.00	19.4	9	N 9 E	73	41.8	307	N 53 W
4651.0	8.00	22.4	34	N 34 E	61	41.8	307	N 53 W
4653.0	8.00	36.7	40	N 40 E	100	41.8	307	N 53 W
4655.0	8.00	33.3	36	N 36 E	100	41.8	307	N 53 W
4657.0	8.00	30.0	31	N 31 E	96	41.8	307	N 53 W
4691.0	8.00	31.5	34	N 34 E	85	41.4	308	N 52 W
4697.0	8.00	10.0	34	N 34 E	100	41.2	307	N 53 W
4699.0	8.00	7.8	42	N 42 E	91	41.3	308	N 52 W
4709.0	8.00	13.8	356	N 4 W	63	41.2	308	N 52 W
4711.0	8.00	9.6	325	N 35 W	78	41.1	308	N 52 W
4715.0	8.00	7.8	276	N 84 W	74	41.2	307	N 53 W
4719.0	8.00	11.7	234	S 54 W	100	41.3	307	N 53 W
4721.0	8.00	5.2	264	S 84 W	57	41.5	307	N 53 W
4723.0	8.00	11.7	220	S 40 W	77	41.5	307	N 53 W
4725.0	8.00	10.1	243	S 63 W	100	41.6	307	N 53 W
4729.0	8.00	7.0	264	S 84 W	100	41.6	307	N 53 W
4731.0	8.00	6.6	299	N 61 W	100	41.5	307	N 53 W
4733.0	8.00	29.0	44	N 44 E	100	41.4	307	N 53 W
4735.0	8.00	14.7	35	N 35 E	100	41.5	307	N 53 W
4737.0	8.00	5.7	350	N 10 W	100	41.4	306	N 54 W
4739.0	8.00	11.8	344	N 16 W	100	41.5	307	N 53 W
4741.0	8.00	8.5	323	N 37 W	88	41.5	307	N 53 W
4745.0	8.00	3.4	336	N 24 W	100	41.4	307	N 53 W
4747.0	8.00	4.2	301	N 59 W	100	41.3	307	N 53 W
4751.0	8.00	13.8	244	S 64 W	69	41.2	307	N 53 W
4759.0	8.00	10.1	261	S 81 W	99	41.0	307	N 53 W
4761.0	8.00	9.5	288	N 72 W	100	41.1	308	N 52 W
4763.0	8.00	12.6	274	N 86 W	100	41.1	307	N 53 W
4765.0	8.00	7.8	278	N 82 W	85	41.2	307	N 53 W
4767.0	8.00	16.6	283	N 77 W	70	41.1	307	N 53 W
4769.0	8.00	4.0	215	S 35 W	90	40.7	307	N 53 W
4771.0	8.00	6.0	211	S 31 W	100	41.2	307	N 53 W
4773.0	8.00	8.4	217	S 37 W	100	41.2	306	N 54 W
4775.0	8.00	9.7	201	S 21 W	75	41.2	306	N 54 W
4779.0	8.00	21.7	244	S 64 W	70	41.1	306	N 54 W
4781.0	8.00	26.5	243	S 63 W	73	41.1	306	N 54 W
4783.0	8.00	14.7	249	S 69 W	85	41.1	306	N 54 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
4785.0	8.00	6.4	218	S 38 W	100	41.0	306	N 54 W
4787.0	8.00	17.2	237	S 57 W	70	41.0	306	N 54 W
4789.0	8.00	32.6	212	S 32 W	88	41.0	307	N 53 W
4791.0	8.00	20.6	187	S 7 W	87	40.9	307	N 53 W
4793.0	8.00	29.3	218	S 38 W	68	40.8	307	N 53 W
4795.0	8.00	11.0	243	S 63 W	100	40.9	307	N 53 W
4799.0	8.00	17.0	200	S 20 W	100	40.7	308	N 52 W
4801.0	8.00	6.0	211	S 31 W	100	40.6	308	N 52 W
4805.0	8.00	5.2	250	S 70 W	100	40.8	308	N 52 W
4807.0	8.00	3.5	312	N 48 W	100	40.7	308	N 52 W
4809.0	8.00	6.9	334	N 26 W	100	40.7	308	N 52 W
4813.0	8.00	12.5	349	N 11 W	57	40.6	308	N 52 W
4815.0	8.00	6.0	330	N 30 W	32	40.6	308	N 52 W
4829.0	8.00	4.9	300	N 60 W	100	40.4	308	N 52 W
4831.0	8.00	4.0	260	S 80 W	100	40.6	307	N 53 W
4833.0	8.00	3.5	242	S 62 W	100	40.6	307	N 53 W
4837.0	8.00	7.6	204	S 24 W	100	40.5	307	N 53 W
4845.0	8.00	3.7	189	S 9 W	100	40.5	307	N 53 W
4847.0	8.00	3.8	234	S 54 W	100	40.6	307	N 53 W
4849.0	8.00	5.5	224	S 44 W	100	40.6	307	N 53 W
4851.0	8.00	5.9	228	S 48 W	100	40.7	307	N 53 W
4853.0	8.00	6.0	238	S 58 W	78	40.7	307	N 53 W
4855.0	8.00	8.2	262	S 82 W	100	40.7	307	N 53 W
4857.0	8.00	12.8	279	N 81 W	100	40.6	307	N 53 W
4859.0	8.00	12.3	250	S 70 W	40	40.6	307	N 53 W
4861.0	8.00	7.4	309	N 51 W	83	40.5	307	N 53 W
4869.0	8.00	5.7	291	N 69 W	100	40.5	308	N 52 W
4871.0	8.00	12.0	227	S 47 W	80	40.4	308	N 52 W
4877.0	8.00	9.1	203	S 23 W	100	40.4	307	N 53 W
4879.0	8.00	8.6	201	S 21 W	100	40.5	307	N 53 W
4881.0	8.00	9.0	203	S 23 W	100	40.4	307	N 53 W
4883.0	8.00	8.9	214	S 34 W	100	40.4	307	N 53 W
4885.0	8.00	7.5	223	S 43 W	100	40.4	307	N 53 W
4887.0	8.00	6.8	214	S 34 W	100	40.4	307	N 53 W
4889.0	8.00	6.9	226	S 46 W	100	40.4	307	N 53 W
4891.0	8.00	5.3	233	S 53 W	100	40.3	307	N 53 W
4893.0	8.00	5.2	243	S 63 W	100	40.3	307	N 53 W
4895.0	8.00	3.5	238	S 58 W	100	40.3	307	N 53 W
4897.0	8.00	5.1	230	S 50 W	100	40.3	307	N 53 W
4899.0	8.00	5.7	222	S 42 W	100	40.3	307	N 53 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
4901.0	8.00	5.4	222	S 42 W	100	40.3	307	N 53 W
4903.0	8.00	4.5	206	S 26 W	100	40.2	307	N 53 W
4905.0	8.00	4.3	208	S 28 W	100	40.2	307	N 53 W
4907.0	8.00	6.8	221	S 41 W	100	40.1	307	N 53 W
4909.0	8.00	5.6	203	S 23 W	100	40.2	307	N 53 W
4911.0	8.00	6.8	206	S 26 W	100	40.2	307	N 53 W
4913.0	8.00	4.1	190	S 10 W	100	40.2	307	N 53 W
4915.0	8.00	7.6	227	S 47 W	100	40.3	307	N 53 W
4917.0	8.00	5.7	229	S 49 W	100	40.3	307	N 53 W
4925.0	8.00	5.3	230	S 50 W	96	40.2	307	N 53 W
4927.0	8.00	3.4	231	S 51 W	100	40.3	307	N 53 W
4929.0	8.00	10.4	267	S 87 W	100	40.3	307	N 53 W
4931.0	8.00	20.4	238	S 58 W	69	40.3	307	N 53 W
4933.0	8.00	21.2	136	S 44 E	78	40.3	307	N 53 W
4935.0	8.00	22.1	141	S 39 E	93	40.3	307	N 53 W
4937.0	8.00	21.0	145	S 35 E	78	40.3	307	N 53 W
4943.0	8.00	21.5	32	N 32 E	100	40.4	308	N 52 W
4945.0	8.00	19.4	31	N 31 E	77	40.5	308	N 52 W
4947.0	8.00	10.6	16	N 16 E	70	40.6	308	N 52 W
4951.0	8.00	14.0	14	N 14 E	77	40.6	308	N 52 W
4953.0	8.00	10.3	276	N 84 W	69	40.5	308	N 52 W
4955.0	8.00	7.0	287	N 73 W	100	40.5	308	N 52 W
4961.0	8.00	19.1	284	N 76 W	100	40.4	308	N 52 W
4963.0	8.00	15.1	299	N 61 W	85	40.3	308	N 52 W
4965.0	8.00	16.0	291	N 69 W	78	40.3	309	N 51 W
4967.0	8.00	15.7	291	N 69 W	97	40.3	309	N 51 W
4969.0	8.00	13.0	243	S 63 W	86	40.3	309	N 51 W
4975.0	8.00	0.3	256	S 76 W	100	40.5	308	N 52 W
4977.0	8.00	7.3	216	S 36 W	100	40.5	307	N 53 W
4979.0	8.00	8.2	215	S 35 W	100	40.8	308	N 52 W
4981.0	8.00	7.0	221	S 41 W	100	40.9	308	N 52 W
4983.0	8.00	6.3	222	S 42 W	100	40.9	307	N 53 W
4985.0	8.00	6.2	220	S 40 W	100	41.0	307	N 53 W
4987.0	8.00	7.5	204	S 24 W	100	41.0	307	N 53 W
4989.0	8.00	8.6	205	S 25 W	100	41.0	307	N 53 W
4991.0	8.00	8.8	209	S 29 W	100	41.0	307	N 53 W
4993.0	8.00	7.0	201	S 21 W	100	41.1	308	N 52 W
4995.0	8.00	4.5	221	S 41 W	100	41.2	308	N 52 W
4997.0	8.00	7.7	228	S 48 W	100	41.2	308	N 52 W
4999.0	8.00	8.2	223	S 43 W	100	41.2	308	N 52 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5001.0	8.00	6.8	219	S 39 W	100	41.2	308	N 52 W
5003.0	8.00	6.3	206	S 26 W	100	41.3	308	N 52 W
5005.0	8.00	5.7	185	S 5 W	100	41.3	308	N 52 W
5007.0	8.00	5.9	168	S 12 E	100	41.4	308	N 52 W
5009.0	8.00	6.0	163	S 17 E	100	41.3	308	N 52 W
5011.0	8.00	3.1	168	S 12 E	100	41.4	308	N 52 W
5013.0	8.00	6.5	160	S 20 E	100	41.4	308	N 52 W
5015.0	8.00	7.0	154	S 26 E	63	41.5	308	N 52 W
5017.0	8.00	7.3	142	S 38 E	72	41.5	308	N 52 W
5019.0	8.00	3.4	110	S 70 E	67	41.6	308	N 52 W
5025.0	8.00	26.1	110	S 70 E	80	41.7	308	N 52 W
5029.0	8.00	23.4	89	N 89 E	100	41.7	308	N 52 W
5031.0	8.00	15.1	241	S 61 W	96	41.7	308	N 52 W
5033.0	8.00	12.8	236	S 56 W	100	41.7	308	N 52 W
5039.0	8.00	5.7	249	S 69 W	100	41.8	308	N 52 W
5041.0	8.00	6.9	258	S 78 W	100	41.8	308	N 52 W
5043.0	8.00	6.0	251	S 71 W	100	41.8	308	N 52 W
5047.0	8.00	2.4	266	S 86 W	100	41.7	308	N 52 W
5049.0	8.00	2.3	242	S 62 W	100	41.7	308	N 52 W
5051.0	8.00	2.7	240	S 60 W	100	41.7	308	N 52 W
5053.0	8.00	7.3	222	S 42 W	100	41.8	308	N 52 W
5055.0	8.00	10.8	224	S 44 W	100	41.9	308	N 52 W
5057.0	8.00	15.8	250	S 70 W	76	42.0	307	N 53 W
5059.0	8.00	24.4	247	S 67 W	87	42.0	307	N 53 W
5065.0	8.00	21.5	238	S 58 W	73	42.1	308	N 52 W
5077.0	8.00	18.5	221	S 41 W	66	42.3	308	N 52 W
5079.0	8.00	15.7	206	S 26 W	100	42.3	308	N 52 W
5081.0	8.00	11.9	193	S 13 W	100	42.3	308	N 52 W
5083.0	8.00	10.9	197	S 17 W	100	42.4	308	N 52 W
5085.0	8.00	8.2	246	S 66 W	100	42.4	308	N 52 W
5087.0	8.00	11.2	224	S 44 W	100	42.4	308	N 52 W
5089.0	8.00	11.3	227	S 47 W	100	42.6	308	N 52 W
5091.0	8.00	11.5	233	S 53 W	100	42.6	308	N 52 W
5093.0	8.00	9.8	238	S 58 W	100	42.6	308	N 52 W
5095.0	8.00	11.2	243	S 63 W	100	42.6	308	N 52 W
5097.0	8.00	11.7	243	S 63 W	93	42.6	308	N 52 W
5099.0	8.00	10.1	240	S 60 W	55	42.6	308	N 52 W
5101.0	8.00	12.6	247	S 67 W	100	42.6	308	N 52 W
5103.0	8.00	11.9	240	S 60 W	100	42.6	308	N 52 W
5105.0	8.00	8.1	236	S 56 W	100	42.6	308	N 52 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5107.0	8.00	11.0	251	S 71 W	100	42.6	308	N 52 W
5109.0	8.00	9.6	257	S 77 W	63	42.6	308	N 52 W
5111.0	8.00	8.2	262	S 82 W	68	42.6	308	N 52 W
5113.0	8.00	7.2	248	S 68 W	100	42.7	308	N 52 W
5115.0	8.00	6.9	238	S 58 W	100	42.8	308	N 52 W
5117.0	8.00	7.2	237	S 57 W	100	42.8	308	N 52 W
5119.0	8.00	8.2	233	S 53 W	100	42.9	308	N 52 W
5121.0	8.00	10.1	223	S 43 W	100	43.0	308	N 52 W
5123.0	8.00	11.2	249	S 69 W	100	43.0	308	N 52 W
5125.0	8.00	13.3	242	S 62 W	99	43.0	308	N 52 W
5127.0	8.00	20.7	222	S 42 W	96	43.0	308	N 52 W
5129.0	8.00	16.7	251	S 71 W	100	43.0	308	N 52 W
5131.0	8.00	16.1	251	S 71 W	72	43.1	308	N 52 W
5145.0	8.00	7.9	228	S 48 W	100	43.1	308	N 52 W
5147.0	8.00	10.2	229	S 49 W	100	43.2	308	N 52 W
5149.0	8.00	11.2	233	S 53 W	100	43.3	308	N 52 W
5151.0	8.00	12.1	223	S 43 W	100	43.4	308	N 52 W
5153.0	8.00	9.4	223	S 43 W	100	43.4	308	N 52 W
5155.0	8.00	14.0	221	S 41 W	100	43.4	308	N 52 W
5157.0	8.00	9.6	199	S 19 W	100	43.5	308	N 52 W
5159.0	8.00	10.3	210	S 30 W	100	43.5	308	N 52 W
5161.0	8.00	8.7	197	S 17 W	87	43.6	308	N 52 W
5163.0	8.00	7.7	199	S 19 W	100	43.7	308	N 52 W
5167.0	8.00	13.1	218	S 38 W	100	43.7	308	N 52 W
5169.0	8.00	13.6	220	S 40 W	100	43.7	308	N 52 W
5171.0	8.00	12.3	214	S 34 W	100	43.7	308	N 52 W
5173.0	8.00	12.5	211	S 31 W	100	43.7	308	N 52 W
5175.0	8.00	10.7	212	S 32 W	100	43.7	308	N 52 W
5177.0	8.00	9.4	212	S 32 W	100	43.7	308	N 52 W
5183.0	8.00	22.7	210	S 30 W	100	43.6	308	N 52 W
5185.0	8.00	20.5	210	S 30 W	100	43.5	308	N 52 W
5187.0	8.00	6.8	302	N 58 W	92	43.6	308	N 52 W
5189.0	8.00	15.0	307	N 53 W	100	43.6	308	N 52 W
5191.0	8.00	12.2	329	N 31 W	58	43.7	308	N 52 W
5199.0	8.00	9.9	328	N 32 W	73	43.9	308	N 52 W
5203.0	8.00	19.7	328	N 32 W	84	44.1	308	N 52 W
5205.0	8.00	15.7	302	N 58 W	93	44.1	308	N 52 W
5207.0	8.00	10.9	302	N 58 W	59	44.1	308	N 52 W
5209.0	8.00	19.9	270	N 90 W	76	44.1	308	N 52 W
5211.0	8.00	6.7	255	S 75 W	87	44.2	308	N 52 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5213.0	8.00	9.2	290	N 70 W	74	44.2	308	N 52 W
5215.0	8.00	7.7	320	N 40 W	100	44.2	308	N 52 W
5217.0	8.00	7.6	323	N 37 W	66	44.2	308	N 52 W
5219.0	8.00	10.7	285	N 75 W	100	44.2	308	N 52 W
5223.0	8.00	15.4	261	S 81 W	100	44.3	308	N 52 W
5225.0	8.00	15.4	250	S 70 W	100	44.3	308	N 52 W
5227.0	8.00	10.9	248	S 68 W	100	44.4	308	N 52 W
5229.0	8.00	7.5	237	S 57 W	100	44.4	308	N 52 W
5231.0	8.00	4.1	214	S 34 W	100	44.4	308	N 52 W
5235.0	8.00	9.5	194	S 14 W	100	44.5	308	N 52 W
5237.0	8.00	7.0	192	S 12 W	100	44.5	308	N 52 W
5243.0	8.00	7.4	203	S 23 W	100	44.5	308	N 52 W
5245.0	8.00	6.2	226	S 46 W	100	44.6	308	N 52 W
5247.0	8.00	8.8	210	S 30 W	100	44.5	308	N 52 W
5249.0	8.00	8.0	205	S 25 W	100	44.5	308	N 52 W
5251.0	8.00	7.9	205	S 25 W	100	44.6	308	N 52 W
5253.0	8.00	9.0	200	S 20 W	100	44.6	308	N 52 W
5255.0	8.00	10.2	188	S 8 W	100	44.7	308	N 52 W
5257.0	8.00	6.9	173	S 7 E	100	44.7	308	N 52 W
5261.0	8.00	7.9	181	S 1 W	76	44.8	308	N 52 W
5263.0	8.00	2.4	200	S 20 W	60	44.8	308	N 52 W
5265.0	8.00	4.9	191	S 11 W	98	44.8	308	N 52 W
5267.0	8.00	2.9	186	S 6 W	100	44.9	308	N 52 W
5269.0	8.00	1.4	200	S 20 W	100	44.9	308	N 52 W
5271.0	8.00	9.0	186	S 6 W	100	44.9	308	N 52 W
5273.0	8.00	9.0	184	S 4 W	100	45.0	308	N 52 W
5275.0	8.00	9.7	185	S 5 W	100	45.0	308	N 52 W
5281.0	8.00	7.3	206	S 26 W	57	45.0	308	N 52 W
5283.0	8.00	12.2	179	S 1 E	100	45.0	308	N 52 W
5287.0	8.00	10.7	210	S 30 W	100	45.1	308	N 52 W
5289.0	8.00	11.9	205	S 25 W	100	45.1	308	N 52 W
5291.0	8.00	12.9	182	S 2 W	100	45.2	308	N 52 W
5293.0	8.00	16.6	190	S 10 W	100	45.2	308	N 52 W
5295.0	8.00	14.3	187	S 7 W	100	45.2	308	N 52 W
5297.0	8.00	18.7	193	S 13 W	100	45.2	308	N 52 W
5303.0	8.00	8.7	148	S 32 E	100	45.3	308	N 52 W
5313.0	8.00	12.5	149	S 31 E	71	45.3	308	N 52 W
5315.0	8.00	12.0	169	S 11 E	79	45.3	308	N 52 W
5319.0	8.00	9.5	156	S 24 E	86	45.4	308	N 52 W
5321.0	8.00	8.7	135	S 45 E	97	45.5	308	N 52 W

CHEVRON U.S.A., INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5323.0	8.00	5.1	178	S 2 E	100	45.4	308	N 52 W
5325.0	8.00	13.6	178	S 2 E	100	45.4	308	N 52 W
5327.0	8.00	27.1	190	S 10 W	53	45.5	308	N 52 W
5337.0	8.00	29.9	174	S 6 E	60	45.6	308	N 52 W
5339.0	8.00	25.3	176	S 4 E	100	45.4	308	N 52 W
5349.0	8.00	16.9	232	S 52 W	100	45.2	307	N 53 W
5351.0	8.00	13.8	225	S 45 W	77	45.0	307	N 53 W
5353.0	8.00	18.4	181	S 1 W	78	45.2	308	N 52 W
5355.0	8.00	12.0	189	S 9 W	100	45.3	308	N 52 W
5357.0	8.00	11.6	162	S 18 E	100	45.7	308	N 52 W
5359.0	8.00	4.8	155	S 25 E	100	45.7	308	N 52 W
5363.0	8.00	22.6	217	S 37 W	56	45.5	308	N 52 W
5365.0	8.00	6.1	327	N 33 W	83	45.5	307	N 53 W
5367.0	8.00	16.1	27	N 27 E	100	45.4	309	N 51 W
5369.0	8.00	26.2	29	N 29 E	42	45.7	309	N 51 W
5375.0	8.00	23.0	52	N 52 E	57	45.8	308	N 52 W
5377.0	8.00	53.0	68	N 68 E	74	45.9	308	N 52 W
5379.0	8.00	60.6	70	N 70 E	29	46.1	308	N 52 W
5383.0	8.00	11.4	149	S 31 E	79	46.2	307	N 53 W
5389.0	8.00	15.2	240	S 60 W	100	46.5	306	N 54 W
5391.0	8.00	11.9	257	S 77 W	100	46.5	306	N 54 W
5393.0	8.00	8.0	230	S 50 W	74	46.5	306	N 54 W
5395.0	8.00	4.6	199	S 19 W	100	46.5	306	N 54 W
5397.0	8.00	3.7	179	S 1 E	95	46.5	306	N 54 W
5399.0	8.00	10.1	211	S 31 W	99	46.7	306	N 54 W
5401.0	8.00	17.7	209	S 29 W	100	46.8	306	N 54 W
5407.0	8.00	5.5	177	S 3 E	97	46.8	306	N 54 W
5413.0	8.00	12.4	119	S 61 E	97	47.1	306	N 54 W
5415.0	8.00	15.8	96	S 84 E	100	47.1	306	N 54 W
5421.0	8.00	20.4	42	N 42 E	100	47.4	306	N 54 W
5423.0	8.00	14.8	45	N 45 E	100	47.4	306	N 54 W
5425.0	8.00	23.3	58	N 58 E	100	47.4	306	N 54 W
5429.0	8.00	33.0	79	N 79 E	100	47.4	306	N 54 W
5431.0	8.00	3.9	95	S 85 E	59	47.5	306	N 54 W
5435.0	8.00	27.1	57	N 57 E	85	47.4	306	N 54 W
5445.0	8.00	18.7	67	N 67 E	55	47.3	306	N 54 W
5451.0	8.00	20.5	27	N 27 E	24	47.2	307	N 53 W
5453.0	8.00	10.5	9	N 9 E	99	47.3	308	N 52 W
5455.0	8.00	9.3	4	N 4 E	100	47.4	308	N 52 W
5457.0	8.00	12.4	16	N 16 E	100	47.4	308	N 52 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5459.0	8.00	17.8	31	N 31 E	100	47.3	308	N 52 W
5461.0	8.00	9.8	3	N 3 E	100	47.2	308	N 52 W
5471.0	8.00	18.1	14	N 14 E	100	47.3	309	N 51 W
5473.0	8.00	9.9	355	N 5 W	63	47.5	309	N 51 W
5479.0	8.00	15.3	8	N 8 E	100	47.4	309	N 51 W
5481.0	8.00	33.4	43	N 43 E	70	47.3	309	N 51 W
5483.0	8.00	8.9	19	N 19 E	46	47.1	309	N 51 W
5487.0	8.00	10.4	334	N 26 W	92	46.8	308	N 52 W
5489.0	8.00	8.4	340	N 20 W	100	46.4	307	N 53 W
5491.0	8.00	18.1	41	N 41 E	100	46.0	306	N 54 W
5495.0	8.00	48.7	70	N 70 E	100	43.9	301	N 59 W
5497.0	8.00	35.2	134	S 46 E	100	42.2	298	N 62 W
5627.0	8.00	51.5	140	S 40 E	100	47.2	306	N 54 W
5633.0	8.00	23.6	230	S 50 W	38	47.3	306	N 54 W
5635.0	8.00	21.4	232	S 52 W	72	47.3	306	N 54 W
5643.0	8.00	12.0	338	N 22 W	72	46.7	307	N 53 W
5645.0	8.00	14.0	38	N 38 E	61	46.9	306	N 54 W
5647.0	8.00	21.7	41	N 41 E	94	46.8	306	N 54 W
5651.0	8.00	16.8	25	N 25 E	100	46.8	307	N 53 W
5653.0	8.00	14.7	18	N 18 E	100	46.5	307	N 53 W
5655.0	8.00	16.0	25	N 25 E	100	46.9	307	N 53 W
5659.0	8.00	7.2	42	N 42 E	64	46.8	307	N 53 W
5661.0	8.00	24.7	68	N 68 E	29	46.3	307	N 53 W
5669.0	8.00	6.2	13	N 13 E	59	47.1	307	N 53 W
5673.0	8.00	13.6	37	N 37 E	93	47.1	307	N 53 W
5675.0	8.00	13.6	114	S 66 E	100	47.1	307	N 53 W
5677.0	8.00	16.7	92	S 88 E	100	47.0	307	N 53 W
5685.0	8.00	20.2	55	N 55 E	59	47.0	307	N 53 W
5691.0	8.00	28.5	224	S 44 W	43	47.3	307	N 53 W
5693.0	8.00	5.3	217	S 37 W	79	47.3	307	N 53 W
5695.0	8.00	4.8	188	S 8 W	100	47.1	307	N 53 W
5699.0	8.00	6.0	163	S 17 E	100	46.9	307	N 53 W
5701.0	8.00	13.6	134	S 46 E	99	46.9	307	N 53 W
5703.0	8.00	23.7	14	N 14 E	74	46.9	307	N 53 W
5705.0	8.00	15.8	8	N 8 E	100	46.7	307	N 53 W
5707.0	8.00	29.9	43	N 43 E	44	46.7	307	N 53 W
5709.0	8.00	11.7	23	N 23 E	30	46.7	307	N 53 W
5715.0	8.00	16.3	59	N 59 E	100	46.6	307	N 53 W
5717.0	8.00	20.0	52	N 52 E	100	46.5	307	N 53 W
5719.0	8.00	4.3	1	N 1 E	100	46.5	307	N 53 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5721.0	8.00	22.7	231	S 51 W	90	46.6	307	N 53 W
5723.0	8.00	24.0	223	S 43 W	74	46.7	307	N 53 W
5725.0	8.00	16.1	219	S 39 W	76	46.5	307	N 53 W
5733.0	8.00	31.2	176	S 4 E	67	46.5	307	N 53 W
5735.0	8.00	22.5	200	S 20 W	100	46.5	307	N 53 W
5737.0	8.00	27.8	197	S 17 W	72	46.4	307	N 53 W
5739.0	8.00	21.2	179	S 1 E	100	46.3	307	N 53 W
5741.0	8.00	28.2	181	S 1 W	81	46.5	307	N 53 W
5763.0	8.00	9.0	200	S 20 W	79	46.5	307	N 53 W
5779.0	8.00	23.5	207	S 27 W	100	46.4	307	N 53 W
5781.0	8.00	22.9	181	S 1 W	70	46.2	307	N 53 W
5791.0	8.00	1.4	172	S 8 E	100	46.1	308	N 52 W
5793.0	8.00	2.1	215	S 35 W	100	46.2	307	N 53 W
5795.0	8.00	0.8	232	S 52 W	99	46.3	307	N 53 W
5797.0	8.00	23.9	201	S 21 W	100	46.3	308	N 52 W
5799.0	8.00	23.2	209	S 29 W	85	46.5	309	N 51 W
5801.0	8.00	30.4	209	S 29 W	100	46.4	309	N 51 W
5803.0	8.00	33.1	204	S 24 W	79	46.3	308	N 52 W
5807.0	8.00	18.7	129	S 51 E	74	46.4	308	N 52 W
5811.0	8.00	14.1	122	S 58 E	100	46.5	308	N 52 W
5819.0	8.00	4.8	36	N 36 E	94	46.5	308	N 52 W
5823.0	8.00	19.0	17	N 17 E	100	46.4	308	N 52 W
5825.0	8.00	13.9	44	N 44 E	100	46.6	306	N 54 W
5833.0	8.00	29.1	32	N 32 E	83	46.3	307	N 53 W
5837.0	8.00	17.0	9	N 9 E	69	45.8	306	N 54 W
5841.0	8.00	16.6	71	N 71 E	100	46.0	307	N 53 W
5847.0	8.00	24.6	103	S 77 E	60	45.8	307	N 53 W
5851.0	8.00	24.0	81	N 81 E	70	45.6	307	N 53 W
5857.0	8.00	13.9	73	N 73 E	80	45.5	306	N 54 W
5867.0	8.00	31.4	71	N 71 E	76	45.5	307	N 53 W
5869.0	8.00	23.1	36	N 36 E	92	45.7	307	N 53 W
5871.0	8.00	5.9	13	N 13 E	74	45.7	307	N 53 W
5877.0	8.00	15.5	2	N 2 E	96	46.0	307	N 53 W
5881.0	8.00	23.3	14	N 14 E	86	45.9	307	N 53 W
5883.0	8.00	22.8	15	N 15 E	73	45.9	307	N 53 W
5887.0	8.00	16.8	40	N 40 E	100	46.0	307	N 53 W
5889.0	8.00	13.9	32	N 32 E	79	45.9	307	N 53 W
5903.0	8.00	29.0	42	N 42 E	84	45.7	307	N 53 W
5911.0	8.00	14.6	83	N 83 E	100	45.4	307	N 53 W
5913.0	8.00	4.5	108	S 72 E	84	45.2	307	N 53 W

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POINT ARGUELLO
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5925.0	8.00	18.3	87	N 87 E	100	45.1	309	N 51 W
5929.0	8.00	36.0	55	N 55 E	75	45.3	308	N 52 W
5937.0	8.00	17.4	38	N 38 E	91	45.2	309	N 51 W
5941.0	8.00	22.1	62	N 62 E	74	45.2	309	N 51 W
5947.0	8.00	22.1	52	N 52 E	70	45.1	308	N 52 W
5955.0	8.00	19.9	47	N 47 E	100	45.0	309	N 51 W
5957.0	8.00	16.8	33	N 33 E	100	45.0	309	N 51 W
5959.0	8.00	9.7	14	N 14 E	100	45.1	309	N 51 W
5961.0	8.00	9.6	8	N 8 E	67	45.0	309	N 51 W
5963.0	8.00	27.2	77	N 77 E	82	45.1	309	N 51 W
5965.0	8.00	23.0	107	S 73 E	58	45.0	309	N 51 W
5967.0	8.00	13.8	123	S 57 E	74	45.1	310	N 50 W
5981.0	8.00	24.0	102	S 78 E	42	45.4	309	N 51 W
5987.0	8.00	5.0	29	N 29 E	100	45.3	309	N 51 W
5989.0	8.00	15.7	14	N 14 E	56	45.2	310	N 50 W
5995.0	8.00	4.7	15	N 15 E	100	44.4	310	N 50 W
5997.0	8.00	10.8	39	N 39 E	100	45.3	309	N 51 W
5999.0	8.00	7.3	22	N 22 E	100	45.2	309	N 51 W
6001.0	8.00	14.7	163	S 17 E	75	45.0	310	N 50 W
6005.0	8.00	15.9	183	S 3 W	100	45.1	310	N 50 W
6007.0	8.00	19.7	189	S 9 W	47	45.2	309	N 51 W
6009.0	8.00	32.5	195	S 15 W	79	45.2	310	N 50 W
6015.0	8.00	18.1	191	S 11 W	68	45.2	309	N 51 W
6019.0	8.00	40.5	192	S 12 W	100	45.2	310	N 50 W
6021.0	8.00	31.1	197	S 17 W	100	44.9	310	N 50 W
6023.0	8.00	30.3	202	S 22 W	59	45.1	310	N 50 W
6025.0	8.00	18.8	207	S 27 W	100	44.9	309	N 51 W
6027.0	8.00	23.5	58	N 58 E	100	45.1	309	N 51 W
6029.0	8.00	17.4	52	N 52 E	90	44.9	309	N 51 W
6031.0	8.00	15.6	49	N 49 E	79	45.0	309	N 51 W
6033.0	8.00	19.4	42	N 42 E	58	45.0	309	N 51 W
6039.0	8.00	14.9	47	N 47 E	75	44.9	309	N 51 W
6043.0	8.00	37.1	64	N 64 E	77	44.8	309	N 51 W
6049.0	8.00	39.7	65	N 65 E	100	44.8	308	N 52 W
6051.0	8.00	5.0	113	S 67 E	100	44.7	308	N 52 W
6055.0	8.00	19.8	158	S 22 E	75	44.3	309	N 51 W
6057.0	8.00	22.9	162	S 18 E	100	44.4	309	N 51 W
6065.0	8.00	20.0	194	S 14 W	93	44.3	310	N 50 W
6069.0	8.00	18.2	196	S 16 W	100	44.5	309	N 51 W
6071.0	8.00	19.2	197	S 17 W	81	44.4	310	N 50 W

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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
6073.0	8.00	19.2	186	S 6 W	80	44.4	310	N 50 W
6075.0	8.00	22.1	191	S 11 W	100	44.4	310	N 50 W
6077.0	8.00	11.9	166	S 14 E	75	44.5	309	N 51 W
6079.0	8.00	10.9	148	S 32 E	98	44.4	310	N 50 W
6081.0	8.00	26.8	178	S 2 E	100	44.2	310	N 50 W
6083.0	8.00	22.4	199	S 19 W	82	44.4	310	N 50 W
6093.0	8.00	11.8	291	N 69 W	61	44.3	309	N 51 W
6099.0	8.00	11.9	263	S 83 W	100	44.5	309	N 51 W
6101.0	8.00	10.1	249	S 69 W	63	44.5	309	N 51 W
6109.0	8.00	8.8	264	S 84 W	100	44.5	309	N 51 W
6111.0	8.00	13.4	211	S 31 W	100	44.5	309	N 51 W
6113.0	8.00	7.3	199	S 19 W	100	44.6	309	N 51 W
6115.0	8.00	5.7	188	S 8 W	100	44.7	309	N 51 W
6117.0	8.00	3.3	293	N 67 W	59	44.6	308	N 52 W
6119.0	8.00	12.3	292	N 68 W	100	44.7	309	N 51 W
6121.0	8.00	5.7	295	N 65 W	100	44.7	308	N 52 W
6123.0	8.00	4.6	307	N 53 W	100	44.8	308	N 52 W
6127.0	8.00	10.7	325	N 35 W	95	44.7	308	N 52 W
6133.0	8.00	12.0	3	N 3 E	38	44.4	308	N 52 W
6137.0	8.00	7.3	18	N 18 E	100	44.1	309	N 51 W
6139.0	8.00	16.7	18	N 18 E	100	44.0	309	N 51 W
6147.0	8.00	41.1	74	N 74 E	32	43.9	309	N 51 W
6153.0	8.00	20.5	47	N 47 E	75	44.0	309	N 51 W
6157.0	8.00	20.1	42	N 42 E	97	44.0	309	N 51 W
6159.0	8.00	16.6	46	N 46 E	100	44.1	309	N 51 W
6177.0	8.00	29.6	46	N 46 E	50	43.9	309	N 51 W
6179.0	8.00	27.0	73	N 73 E	89	44.0	309	N 51 W
6183.0	8.00	19.6	84	N 84 E	100	43.9	309	N 51 W
6185.0	8.00	11.7	132	S 48 E	68	43.9	309	N 51 W
6189.0	8.00	17.4	144	S 36 E	73	43.9	309	N 51 W
6191.0	8.00	25.7	142	S 38 E	62	44.0	309	N 51 W
6195.0	8.00	10.2	233	S 53 W	77	44.0	309	N 51 W
6197.0	8.00	10.8	235	S 55 W	73	44.0	309	N 51 W
6216.0	8.00	38.7	221	S 41 W	56	43.8	311	N 49 W
6222.0	8.00	18.9	234	S 54 W	71	43.8	311	N 49 W
6224.0	8.00	20.4	228	S 48 W	68	43.8	311	N 49 W
6226.0	8.00	20.2	95	S 85 E	70	43.7	311	N 49 W
6228.0	8.00	20.3	76	N 76 E	61	43.5	311	N 49 W
6234.0	8.00	34.7	54	N 54 E	49	43.5	311	N 49 W
6236.0	8.00	21.5	57	N 57 E	99	43.3	311	N 49 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
6238.0	8.00	11.6	60	N 60 E	78	43.1	311	N 49 W
6240.0	8.00	11.4	54	N 54 E	100	43.4	311	N 49 W
6242.0	8.00	16.6	54	N 54 E	100	43.4	311	N 49 W
6244.0	8.00	22.2	180	S 0 E	54	43.6	311	N 49 W
6246.0	8.00	14.5	241	S 61 W	100	43.5	311	N 49 W
6254.0	8.00	35.6	215	S 35 W	65	43.4	311	N 49 W
6260.0	8.00	15.7	218	S 38 W	53	43.3	311	N 49 W
6262.0	8.00	16.0	244	S 64 W	38	43.5	311	N 49 W
6266.0	8.00	16.8	232	S 52 W	76	43.3	311	N 49 W
6272.0	8.00	8.5	203	S 23 W	64	43.2	311	N 49 W
6274.0	8.00	8.6	201	S 21 W	79	43.1	311	N 49 W
6276.0	8.00	5.9	200	S 20 W	100	43.2	311	N 49 W
6278.0	8.00	6.4	204	S 24 W	100	43.1	311	N 49 W
6280.0	8.00	18.8	227	S 47 W	100	43.2	311	N 49 W
6282.0	8.00	19.2	229	S 49 W	100	43.2	311	N 49 W
6284.0	8.00	14.2	189	S 9 W	100	43.1	311	N 49 W
6286.0	8.00	14.3	179	S 1 E	100	43.1	311	N 49 W
6288.0	8.00	6.3	271	N 89 W	100	43.1	311	N 49 W
6290.0	8.00	6.9	270	N 90 W	100	43.0	311	N 49 W
6292.0	8.00	7.8	271	N 89 W	100	43.0	311	N 49 W
6294.0	8.00	8.5	267	S 87 W	100	43.0	311	N 49 W
6296.0	8.00	8.6	277	N 83 W	100	43.0	311	N 49 W
6298.0	8.00	5.7	155	S 25 E	100	42.9	311	N 49 W
6300.0	8.00	11.0	176	S 4 E	100	42.9	311	N 49 W
6306.0	8.00	9.7	184	S 4 W	100	42.5	311	N 49 W
6308.0	8.00	13.2	202	S 22 W	100	42.6	311	N 49 W
6310.0	8.00	22.8	175	S 5 E	71	42.6	312	N 48 W
6326.0	8.00	8.6	222	S 42 W	100	42.8	311	N 49 W
6338.0	8.00	18.2	196	S 16 W	100	42.6	311	N 49 W
6340.0	8.00	18.2	203	S 23 W	49	42.6	311	N 49 W
6342.0	8.00	10.0	206	S 26 W	73	42.5	311	N 49 W
6354.0	8.00	15.4	188	S 8 W	100	42.4	311	N 49 W
6356.0	8.00	18.9	215	S 35 W	100	42.4	311	N 49 W
6360.0	8.00	2.8	224	S 44 W	100	42.4	311	N 49 W
6368.0	8.00	2.6	201	S 21 W	100	42.6	311	N 49 W
6370.0	8.00	11.0	177	S 3 E	69	42.5	311	N 49 W
6372.0	8.00	6.9	160	S 20 E	100	42.6	311	N 49 W
6374.0	8.00	14.4	166	S 14 E	86	42.6	311	N 49 W
6376.0	8.00	6.6	128	S 52 E	100	42.6	311	N 49 W
6378.0	8.00	13.8	47	N 47 E	54	42.5	311	N 49 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
6382.0	8.00	17.9	23	N 23 E	66	42.5	311	N 49 W
6388.0	8.00	25.0	49	N 49 E	100	42.0	311	N 49 W
6390.0	8.00	24.9	45	N 45 E	100	42.0	311	N 49 W
6394.0	8.00	11.0	43	N 43 E	79	42.2	311	N 49 W
6404.0	8.00	16.9	54	N 54 E	100	42.4	312	N 48 W
6406.0	8.00	27.0	57	N 57 E	98	42.4	311	N 49 W
6408.0	8.00	23.2	63	N 63 E	100	42.3	311	N 49 W
6410.0	8.00	30.9	51	N 51 E	78	42.5	312	N 48 W
6412.0	8.00	12.5	56	N 56 E	74	42.4	312	N 48 W
6416.0	8.00	33.8	50	N 50 E	79	42.4	311	N 49 W
6418.0	8.00	22.5	207	S 27 W	64	42.3	311	N 49 W
6422.0	8.00	13.4	184	S 4 W	75	42.3	312	N 48 W
6436.0	8.00	28.7	220	S 40 W	100	42.2	311	N 49 W
6438.0	8.00	24.8	218	S 38 W	85	42.1	311	N 49 W
6444.0	8.00	5.2	221	S 41 W	55	42.0	312	N 48 W
6446.0	8.00	18.5	244	S 64 W	70	42.1	312	N 48 W
6448.0	8.00	13.1	198	S 18 W	87	42.1	312	N 48 W
6458.0	8.00	15.1	194	S 14 W	63	42.0	311	N 49 W
6460.0	8.00	8.9	222	S 42 W	100	42.0	311	N 49 W
6462.0	8.00	9.6	220	S 40 W	100	42.0	311	N 49 W
6464.0	8.00	11.9	202	S 22 W	86	42.0	311	N 49 W
6470.0	8.00	13.2	188	S 8 W	70	41.9	311	N 49 W
6478.0	8.00	15.2	188	S 8 W	100	41.9	311	N 49 W
6480.0	8.00	12.5	197	S 17 W	100	41.9	312	N 48 W
6482.0	8.00	11.0	199	S 19 W	61	41.8	311	N 49 W
6484.0	8.00	10.6	199	S 19 W	58	41.9	312	N 48 W
6486.0	8.00	8.9	209	S 29 W	100	41.9	312	N 48 W
6492.0	8.00	10.0	207	S 27 W	100	42.0	312	N 48 W
6494.0	8.00	10.0	207	S 27 W	62	41.9	311	N 49 W
6496.0	8.00	17.4	175	S 5 E	52	42.0	312	N 48 W
6498.0	8.00	12.8	186	S 6 W	99	41.9	311	N 49 W
6500.0	8.00	14.9	181	S 1 W	100	41.9	312	N 48 W
6502.0	8.00	12.0	188	S 8 W	100	41.9	312	N 48 W
6504.0	8.00	8.0	199	S 19 W	100	41.9	312	N 48 W
6506.0	8.00	9.0	213	S 33 W	100	41.8	312	N 48 W
6508.0	8.00	10.4	196	S 16 W	97	41.9	312	N 48 W
6512.0	8.00	14.8	180	S 0 E	72	41.9	312	N 48 W
6514.0	8.00	12.8	193	S 13 W	100	41.9	311	N 49 W
6516.0	8.00	16.6	218	S 38 W	70	41.9	312	N 48 W
6518.0	8.00	17.4	219	S 39 W	100	42.0	312	N 48 W

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
6520.0	8.00	16.1	213	S 33 W	100	42.0	312	N 48 W	
6522.0	8.00	14.8	226	S 46 W	79	42.0	311	N 49 W	
6524.0	8.00	13.8	227	S 47 W	100	42.1	312	N 48 W	
6526.0	8.00	12.7	229	S 49 W	100	42.0	312	N 48 W	
6538.0	8.00	23.2	222	S 42 W	100	42.0	312	N 48 W	
6548.0	8.00	37.9	225	S 45 W	52	42.1	312	N 48 W	
6550.0	8.00	38.2	224	S 44 W	70	42.2	312	N 48 W	
6566.0	8.00	15.5	242	S 62 W	90	42.1	312	N 48 W	
6568.0	8.00	11.0	237	S 57 W	100	42.1	312	N 48 W	
6570.0	8.00	13.7	235	S 55 W	100	42.2	312	N 48 W	
6572.0	8.00	14.3	228	S 48 W	100	42.2	311	N 49 W	
6576.0	8.00	16.7	221	S 41 W	93	42.3	312	N 48 W	
6580.0	8.00	13.1	196	S 16 W	100	42.2	312	N 48 W	
6582.0	8.00	13.2	197	S 17 W	100	42.3	312	N 48 W	
6584.0	8.00	2.7	176	S 4 E	80	42.3	312	N 48 W	
6588.0	8.00	13.2	198	S 18 W	100	42.3	312	N 48 W	
6590.0	8.00	14.4	217	S 37 W	100	42.3	312	N 48 W	
6594.0	8.00	25.2	208	S 28 W	100	42.3	312	N 48 W	
6608.0	8.00	41.7	181	S 1 W	26	42.3	312	N 48 W	
6612.0	8.00	19.0	183	S 3 W	72	42.4	312	N 48 W	
6618.0	8.00	14.7	173	S 7 E	100	42.4	312	N 48 W	
6620.0	8.00	12.1	172	S 8 E	100	42.4	312	N 48 W	
6622.0	8.00	10.7	180	S 0 E	100	42.5	312	N 48 W	
6624.0	8.00	12.3	178	S 2 E	100	42.5	312	N 48 W	
6626.0	8.00	10.5	181	S 1 W	100	42.5	312	N 48 W	
6628.0	8.00	28.8	166	S 14 E	100	42.5	312	N 48 W	
6630.0	8.00	24.4	211	S 31 W	81	42.6	312	N 48 W	
6632.0	8.00	6.9	212	S 32 W	69	42.6	312	N 48 W	
6636.0	8.00	4.9	251	S 71 W	91	42.5	312	N 48 W	
6638.0	8.00	5.3	236	S 56 W	100	42.5	312	N 48 W	
6640.0	8.00	5.0	254	S 74 W	100	42.5	312	N 48 W	
6644.0	8.00	8.1	205	S 25 W	100	42.5	312	N 48 W	
6646.0	8.00	8.5	198	S 18 W	100	42.5	312	N 48 W	
6652.0	8.00	9.8	185	S 5 W	100	42.6	312	N 48 W	
6654.0	8.00	9.9	188	S 8 W	100	42.6	312	N 48 W	
6656.0	8.00	10.2	186	S 6 W	100	42.6	312	N 48 W	
6658.0	8.00	10.3	186	S 6 W	100	42.6	312	N 48 W	
6662.0	8.00	8.8	194	S 14 W	100	42.7	312	N 48 W	
6664.0	8.00	9.3	225	S 45 W	100	42.7	312	N 48 W	
6666.0	8.00	6.0	218	S 38 W	100	42.7	312	N 48 W	

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POINT ARGUELLO
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
6670.0	8.00	8.4	196	S 16 W	93	42.6	312	N 48 W
6672.0	8.00	10.3	50	N 50 E	62	42.6	312	N 48 W
6674.0	8.00	12.3	55	N 55 E	76	42.6	312	N 48 W
6694.0	8.00	25.3	64	N 64 E	72	42.6	312	N 48 W
6696.0	8.00	7.6	64	N 64 E	96	42.8	312	N 48 W
6700.0	8.00	14.2	66	N 66 E	82	42.7	312	N 48 W
6702.0	8.00	17.2	57	N 57 E	65	42.9	312	N 48 W
6704.0	8.00	12.2	73	N 73 E	84	42.8	312	N 48 W
6706.0	8.00	16.7	60	N 60 E	63	42.8	312	N 48 W
6710.0	8.00	20.8	81	N 81 E	100	42.8	312	N 48 W
6712.0	8.00	10.0	70	N 70 E	100	42.8	312	N 48 W
6714.0	8.00	6.8	79	N 79 E	99	42.9	312	N 48 W
6716.0	8.00	3.4	107	S 73 E	100	42.9	312	N 48 W
6718.0	8.00	4.7	194	S 14 W	100	42.9	312	N 48 W
6720.0	8.00	14.7	219	S 39 W	57	42.8	312	N 48 W
6724.0	8.00	9.1	280	N 80 W	100	42.9	312	N 48 W
6726.0	8.00	10.6	255	S 75 W	100	42.9	312	N 48 W
6728.0	8.00	10.7	257	S 77 W	100	42.9	312	N 48 W
6730.0	8.00	13.5	265	S 85 W	33	43.0	312	N 48 W
6732.0	8.00	14.4	259	S 79 W	44	43.0	312	N 48 W
6746.0	8.00	15.6	256	S 76 W	66	43.0	312	N 48 W
6748.0	8.00	8.9	239	S 59 W	100	43.1	312	N 48 W
6750.0	8.00	6.4	256	S 76 W	100	43.1	312	N 48 W
6752.0	8.00	5.7	263	S 83 W	100	43.1	312	N 48 W
6754.0	8.00	6.2	276	N 84 W	100	43.2	312	N 48 W
6756.0	8.00	7.1	274	N 86 W	100	43.2	312	N 48 W
6762.0	8.00	6.1	212	S 32 W	100	43.2	312	N 48 W
6764.0	8.00	7.2	207	S 27 W	82	43.2	312	N 48 W
6766.0	8.00	9.4	212	S 32 W	100	43.2	312	N 48 W
6768.0	8.00	10.6	209	S 29 W	100	43.1	312	N 48 W
6770.0	8.00	12.0	203	S 23 W	100	43.3	312	N 48 W
6772.0	8.00	7.6	196	S 16 W	100	43.3	312	N 48 W
6774.0	8.00	6.3	188	S 8 W	100	43.3	312	N 48 W
6778.0	8.00	34.2	226	S 46 W	100	43.2	312	N 48 W
6780.0	8.00	29.7	225	S 45 W	100	43.2	312	N 48 W
6782.0	8.00	7.6	190	S 10 W	100	43.2	312	N 48 W
6784.0	8.00	10.0	197	S 17 W	100	43.2	312	N 48 W
6786.0	8.00	9.3	195	S 15 W	100	43.3	312	N 48 W
6788.0	8.00	9.2	193	S 13 W	100	43.3	312	N 48 W
6792.0	8.00	13.2	204	S 24 W	45	43.3	312	N 48 W

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POINT ARGUELLO
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
6798.0	8.00	7.4	208	S 28 W	100	43.3	312	N 48 W
6800.0	8.00	6.8	211	S 31 W	100	43.3	312	N 48 W
6802.0	8.00	5.7	238	S 58 W	100	43.3	312	N 48 W
6804.0	8.00	6.3	229	S 49 W	100	43.3	312	N 48 W
6806.0	8.00	6.8	234	S 54 W	100	43.4	312	N 48 W
6808.0	8.00	7.0	232	S 52 W	100	43.4	312	N 48 W
6818.0	8.00	8.7	197	S 17 W	100	43.3	312	N 48 W
6820.0	8.00	8.0	195	S 15 W	100	43.3	312	N 48 W
6822.0	8.00	8.7	185	S 5 W	68	43.4	312	N 48 W
6824.0	8.00	17.6	254	S 74 W	54	43.4	312	N 48 W
6826.0	8.00	4.3	230	S 50 W	100	43.3	312	N 48 W
6830.0	8.00	13.8	232	S 52 W	60	43.5	312	N 48 W
6832.0	8.00	5.2	144	S 36 E	51	43.4	312	N 48 W
6834.0	8.00	6.6	157	S 23 E	98	43.4	312	N 48 W
6836.0	8.00	6.8	169	S 11 E	96	43.2	312	N 48 W
6838.0	8.00	7.5	188	S 8 W	100	43.4	312	N 48 W
6840.0	8.00	27.5	212	S 32 W	67	43.4	312	N 48 W
6844.0	8.00	23.4	240	S 60 W	61	43.4	312	N 48 W
6846.0	8.00	14.2	228	S 48 W	100	43.2	312	N 48 W
6848.0	8.00	16.3	241	S 61 W	100	43.5	312	N 48 W
6860.0	8.00	9.1	231	S 51 W	82	43.5	312	N 48 W
6866.0	8.00	22.5	243	S 63 W	37	43.5	312	N 48 W
6870.0	8.00	11.4	263	S 83 W	100	43.4	312	N 48 W
6872.0	8.00	9.2	264	S 84 W	100	43.7	312	N 48 W
6876.0	8.00	19.4	241	S 61 W	100	43.7	312	N 48 W
6878.0	8.00	12.5	181	S 1 W	100	43.7	313	N 47 W
6882.0	8.00	14.2	186	S 6 W	86	43.7	312	N 48 W
6886.0	8.00	12.7	275	N 85 W	91	43.6	312	N 48 W
6888.0	8.00	12.4	277	N 83 W	100	43.8	312	N 48 W
6890.0	8.00	12.9	273	N 87 W	100	43.8	312	N 48 W
6892.0	8.00	15.0	245	S 65 W	67	43.9	312	N 48 W
6896.0	8.00	18.0	114	S 66 E	65	43.9	313	N 47 W
6898.0	8.00	24.2	135	S 45 E	42	43.9	312	N 48 W
6902.0	8.00	20.1	37	N 37 E	73	44.0	312	N 48 W
6905.0	8.00	10.6	15	N 15 E	100	44.0	312	N 48 W
6913.0	8.00	12.9	8	N 8 E	100	43.9	312	N 48 W
6915.0	8.00	11.3	12	N 12 E	99	44.1	313	N 47 W
6917.0	8.00	7.8	294	N 66 W	100	43.7	312	N 48 W
6919.0	8.00	11.4	301	N 59 W	65	44.2	313	N 47 W
6923.0	8.00	14.0	322	N 38 W	65	44.2	312	N 48 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
6931.0	8.00	4.5	35	N 35 E	100	44.3	313	N 47 W
6941.0	8.00	20.8	106	S 74 E	18	44.4	312	N 48 W
6943.0	8.00	21.0	106	S 74 E	18	44.4	312	N 48 W
6945.0	8.00	20.7	106	S 74 E	18	44.3	312	N 48 W
6947.0	8.00	20.8	107	S 73 E	18	44.4	313	N 47 W
6949.0	8.00	19.7	198	S 18 W	87	44.4	313	N 47 W
6951.0	8.00	15.8	193	S 13 W	100	44.3	312	N 48 W
6953.0	8.00	14.6	195	S 15 W	85	44.4	312	N 48 W
6955.0	8.00	13.9	198	S 18 W	72	44.5	313	N 47 W
6957.0	8.00	11.6	40	N 40 E	37	44.4	312	N 48 W
6959.0	8.00	8.9	46	N 46 E	100	44.3	312	N 48 W
6961.0	8.00	6.9	74	N 74 E	100	44.4	312	N 48 W
6963.0	8.00	6.5	77	N 77 E	100	44.4	312	N 48 W
6971.0	8.00	29.0	53	N 53 E	57	44.5	313	N 47 W
6973.0	8.00	13.7	335	N 25 W	36	44.5	313	N 47 W
6981.0	8.00	5.5	338	N 22 W	100	44.4	312	N 48 W
6983.0	8.00	5.8	354	N 6 W	59	44.5	313	N 47 W
6991.0	8.00	23.6	34	N 34 E	69	44.7	313	N 47 W
6995.0	8.00	8.0	60	N 60 E	60	44.8	313	N 47 W
6999.0	8.00	18.9	67	N 67 E	100	44.8	313	N 47 W
7001.0	8.00	16.1	76	N 76 E	100	44.8	312	N 48 W
7017.0	8.00	33.2	60	N 60 E	77	44.8	313	N 47 W
7019.0	8.00	42.0	43	N 43 E	59	44.9	313	N 47 W
7025.0	8.00	37.2	49	N 49 E	64	45.0	313	N 47 W
7027.0	8.00	38.6	50	N 50 E	58	45.0	313	N 47 W
7029.0	8.00	31.4	63	N 63 E	55	45.1	313	N 47 W
7033.0	8.00	12.1	166	S 14 E	54	45.1	313	N 47 W
7035.0	8.00	12.0	165	S 15 E	54	45.2	313	N 47 W
7037.0	8.00	11.2	148	S 32 E	50	45.1	313	N 47 W
7039.0	8.00	11.2	147	S 33 E	50	45.1	313	N 47 W
7041.0	8.00	19.1	31	N 31 E	73	45.1	312	N 48 W
7043.0	8.00	19.1	31	N 31 E	100	45.2	313	N 47 W
7045.0	8.00	13.4	22	N 22 E	100	45.2	313	N 47 W
7047.0	8.00	16.5	25	N 25 E	35	45.2	313	N 47 W
7049.0	8.00	28.6	29	N 29 E	38	45.2	313	N 47 W
7051.0	8.00	16.4	25	N 25 E	35	45.2	313	N 47 W
7061.0	8.00	19.0	43	N 43 E	69	45.3	313	N 47 W
7063.0	8.00	18.5	43	N 43 E	100	45.3	313	N 47 W
7065.0	8.00	16.6	41	N 41 E	52	45.3	313	N 47 W
7067.0	8.00	11.6	325	N 35 W	52	45.3	313	N 47 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
7069.0	8.00	11.4	321	N 39 W	52	45.4	313	N 47 W
7073.0	8.00	32.2	223	S 43 W	100	45.3	313	N 47 W
7077.0	8.00	15.9	239	S 59 W	53	45.4	313	N 47 W
7079.0	8.00	18.7	235	S 55 W	57	45.4	313	N 47 W
7081.0	8.00	17.8	213	S 33 W	100	45.4	313	N 47 W
7085.0	8.00	17.0	205	S 25 W	100	45.5	313	N 47 W
7087.0	8.00	7.7	198	S 18 W	100	45.5	312	N 48 W
7089.0	8.00	6.9	227	S 47 W	100	45.5	312	N 48 W
7091.0	8.00	6.4	230	S 50 W	100	45.6	313	N 47 W
7093.0	8.00	8.0	229	S 49 W	100	45.5	312	N 48 W
7095.0	8.00	6.7	210	S 30 W	82	45.6	313	N 47 W
7097.0	8.00	7.7	190	S 10 W	100	45.6	312	N 48 W
7099.0	8.00	8.4	188	S 8 W	100	45.6	312	N 48 W
7101.0	8.00	8.7	189	S 9 W	100	45.6	312	N 48 W
7103.0	8.00	7.7	185	S 5 W	100	45.6	312	N 48 W
7105.0	8.00	6.2	181	S 1 W	100	45.7	312	N 48 W
7113.0	8.00	14.4	269	S 89 W	62	45.6	312	N 48 W
7115.0	8.00	15.6	260	S 80 W	76	45.7	312	N 48 W
7117.0	8.00	19.8	239	S 59 W	62	45.6	312	N 48 W
7119.0	8.00	14.4	192	S 12 W	34	45.3	312	N 48 W
7127.0	8.00	23.9	169	S 11 E	59	45.6	313	N 47 W
7129.0	8.00	23.7	204	S 24 W	100	45.6	313	N 47 W
7133.0	8.00	8.8	239	S 59 W	100	45.7	313	N 47 W
7135.0	8.00	5.1	211	S 31 W	100	45.8	312	N 48 W
7137.0	8.00	6.1	237	S 57 W	100	45.8	312	N 48 W
7139.0	8.00	7.8	233	S 53 W	55	45.9	312	N 48 W
7141.0	8.00	10.5	246	S 66 W	83	45.8	313	N 47 W
7143.0	8.00	11.2	245	S 65 W	100	45.9	312	N 48 W
7145.0	8.00	7.4	266	S 86 W	100	45.9	313	N 47 W
7147.0	8.00	7.5	261	S 81 W	100	46.0	313	N 47 W
7151.0	8.00	7.3	247	S 67 W	100	45.9	312	N 48 W
7153.0	8.00	9.0	244	S 64 W	100	45.9	313	N 47 W
7155.0	8.00	6.5	229	S 49 W	100	45.9	312	N 48 W
7157.0	8.00	6.9	210	S 30 W	100	45.9	312	N 48 W
7159.0	8.00	5.9	205	S 25 W	100	45.9	312	N 48 W
7161.0	8.00	4.1	197	S 17 W	100	45.9	312	N 48 W
7163.0	8.00	4.8	226	S 46 W	100	46.0	312	N 48 W
7167.0	8.00	2.3	230	S 50 W	100	46.1	312	N 48 W
7169.0	8.00	1.8	206	S 26 W	100	46.0	312	N 48 W
7173.0	8.00	5.0	206	S 26 W	100	46.1	313	N 47 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
7177.0	8.00	4.3	287	N 73 W	100	46.2	313	N 47 W
7179.0	8.00	3.3	275	N 85 W	100	46.2	313	N 47 W
7181.0	8.00	6.4	281	N 79 W	100	46.2	312	N 48 W
7183.0	8.00	3.1	292	N 68 W	100	46.2	312	N 48 W
7185.0	8.00	4.3	334	N 26 W	100	46.2	313	N 47 W
7187.0	8.00	3.5	353	N 7 W	100	46.1	312	N 48 W
7189.0	8.00	2.2	304	N 56 W	100	46.1	312	N 48 W
7191.0	8.00	31.6	178	S 2 E	35	46.2	313	N 47 W
7193.0	8.00	5.4	202	S 22 W	37	46.2	313	N 47 W
7195.0	8.00	3.6	191	S 11 W	37	46.2	312	N 48 W
7197.0	8.00	5.6	200	S 20 W	70	46.2	312	N 48 W
7199.0	8.00	7.1	198	S 18 W	100	46.2	312	N 48 W
7201.0	8.00	10.6	190	S 10 W	100	46.3	313	N 47 W
7203.0	8.00	27.2	184	S 4 W	71	46.2	312	N 48 W
7205.0	8.00	28.7	184	S 4 W	91	46.2	313	N 47 W
7209.0	8.00	2.7	158	S 22 E	100	46.2	313	N 47 W
7213.0	8.00	5.9	229	S 49 W	92	46.2	313	N 47 W
7215.0	8.00	3.8	258	S 78 W	50	46.0	313	N 47 W
7221.0	8.00	7.0	204	S 24 W	56	46.2	313	N 47 W
7223.0	8.00	3.6	207	S 27 W	70	46.4	313	N 47 W
7225.0	8.00	3.9	206	S 26 W	91	46.4	313	N 47 W
7227.0	8.00	3.2	236	S 56 W	100	46.5	313	N 47 W
7229.0	8.00	4.5	257	S 77 W	100	46.5	313	N 47 W
7231.0	8.00	2.5	290	N 70 W	100	46.6	313	N 47 W
7233.0	8.00	2.9	279	N 81 W	100	46.7	313	N 47 W
7235.0	8.00	3.2	251	S 71 W	100	46.7	313	N 47 W
7237.0	8.00	1.7	222	S 42 W	100	46.6	313	N 47 W
7239.0	8.00	1.3	197	S 17 W	100	46.8	313	N 47 W
7243.0	8.00	10.0	209	S 29 W	88	46.8	313	N 47 W
7245.0	8.00	8.3	327	N 33 W	100	46.8	313	N 47 W
7247.0	8.00	13.2	340	N 20 W	100	46.8	313	N 47 W
7249.0	8.00	10.8	301	N 59 W	73	46.7	313	N 47 W
7255.0	8.00	11.1	317	N 43 W	57	46.6	312	N 48 W
7257.0	8.00	10.6	322	N 38 W	68	46.5	312	N 48 W
7261.0	8.00	14.8	249	S 69 W	30	46.7	312	N 48 W
7263.0	8.00	9.0	229	S 49 W	100	46.7	313	N 47 W
7267.0	8.00	9.0	226	S 46 W	100	46.6	313	N 47 W
7269.0	8.00	1.7	275	N 85 W	100	46.7	313	N 47 W
7283.0	8.00	2.2	330	N 30 W	100	46.9	313	N 47 W
7289.0	8.00	5.5	349	N 11 W	19	47.0	313	N 47 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
7291.0	8.00	14.6	57	N 57 E	45	46.9	313	N 47 W
7297.0	8.00	11.3	64	N 64 E	100	46.9	313	N 47 W
7299.0	8.00	21.3	39	N 39 E	65	47.0	313	N 47 W
7303.0	8.00	7.1	48	N 48 E	93	46.9	313	N 47 W
7305.0	8.00	4.1	343	N 17 W	100	46.9	313	N 47 W
7307.0	8.00	2.3	270	N 90 W	100	47.0	313	N 47 W
7309.0	8.00	1.9	246	S 66 W	100	47.0	313	N 47 W
7313.0	8.00	3.5	247	S 67 W	100	47.0	313	N 47 W
7325.0	8.00	12.1	206	S 26 W	100	47.2	313	N 47 W
7329.0	8.00	3.2	187	S 7 W	100	47.1	313	N 47 W
7331.0	8.00	4.5	191	S 11 W	100	47.1	313	N 47 W
7333.0	8.00	5.1	200	S 20 W	100	47.1	313	N 47 W
7335.0	8.00	6.9	214	S 34 W	100	47.1	313	N 47 W
7343.0	8.00	4.8	178	S 2 E	100	47.0	313	N 47 W
7351.0	8.00	2.3	147	S 33 E	100	47.2	313	N 47 W
7355.0	8.00	16.8	162	S 18 E	100	47.2	313	N 47 W
7357.0	8.00	14.3	86	N 86 E	85	47.1	313	N 47 W
7359.0	8.00	16.1	63	N 63 E	68	47.1	313	N 47 W
7361.0	8.00	21.7	53	N 53 E	100	47.1	313	N 47 W
7363.0	8.00	8.3	135	S 45 E	74	47.2	313	N 47 W
7367.0	8.00	1.9	174	S 6 E	77	47.3	313	N 47 W
7369.0	8.00	4.5	206	S 26 W	100	47.2	313	N 47 W
7371.0	8.00	2.8	198	S 18 W	100	47.0	313	N 47 W
7373.0	8.00	2.7	209	S 29 W	100	47.2	313	N 47 W
7375.0	8.00	2.7	180	S 0 E	100	47.2	313	N 47 W
7379.0	8.00	5.5	177	S 3 E	100	47.2	313	N 47 W
7381.0	8.00	6.7	156	S 24 E	100	47.2	313	N 47 W
7383.0	8.00	2.7	228	S 48 W	100	47.3	313	N 47 W
7385.0	8.00	6.0	236	S 56 W	100	47.3	313	N 47 W
7387.0	8.00	3.5	352	N 8 W	100	47.1	313	N 47 W
7389.0	8.00	1.9	354	N 6 W	100	47.2	313	N 47 W
7391.0	8.00	1.7	354	N 6 W	100	47.3	313	N 47 W
7393.0	8.00	2.4	348	N 12 W	100	47.3	313	N 47 W
7397.0	8.00	11.5	1	N 1 E	100	47.3	313	N 47 W
7401.0	8.00	10.9	4	N 4 E	70	47.4	313	N 47 W
7403.0	8.00	9.3	357	N 3 W	100	47.4	313	N 47 W
7405.0	8.00	12.4	13	N 13 E	62	47.3	313	N 47 W
7407.0	8.00	6.3	345	N 15 W	100	47.3	313	N 47 W
7409.0	8.00	11.3	359	N 1 W	79	47.3	313	N 47 W
7411.0	8.00	6.9	317	N 43 W	100	47.4	313	N 47 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
7413.0	8.00	9.6	327	N 33 W	100	47.3	313	N 47 W	
7415.0	8.00	20.4	215	S 35 W	56	47.4	313	N 47 W	
7417.0	8.00	3.2	180	S 0 E	100	47.4	313	N 47 W	
7419.0	8.00	2.0	167	S 13 E	100	47.3	313	N 47 W	
7421.0	8.00	5.0	171	S 9 E	100	47.4	313	N 47 W	
7423.0	8.00	5.3	205	S 25 W	100	47.3	313	N 47 W	
7425.0	8.00	5.7	178	S 2 E	100	47.4	313	N 47 W	
7427.0	8.00	5.5	164	S 16 E	100	47.4	313	N 47 W	
7429.0	8.00	7.4	185	S 5 W	100	47.5	313	N 47 W	
7433.0	8.00	9.3	224	S 44 W	93	47.5	313	N 47 W	
7435.0	8.00	13.4	271	N 89 W	100	47.4	313	N 47 W	
7439.0	8.00	8.1	257	S 77 W	100	47.0	312	N 48 W	
7449.0	8.00	7.9	244	S 64 W	100	47.2	313	N 47 W	
7461.0	8.00	10.5	207	S 27 W	100	47.3	312	N 48 W	
7463.0	8.00	10.1	211	S 31 W	100	47.3	312	N 48 W	
7465.0	8.00	12.5	212	S 32 W	100	47.3	312	N 48 W	
7467.0	8.00	14.3	217	S 37 W	57	47.4	312	N 48 W	
7469.0	8.00	11.1	224	S 44 W	100	47.5	312	N 48 W	
7471.0	8.00	24.1	224	S 44 W	54	47.4	312	N 48 W	
7473.0	8.00	24.8	206	S 26 W	100	47.5	312	N 48 W	
7475.0	8.00	7.5	191	S 11 W	100	47.6	312	N 48 W	
7477.0	8.00	6.0	196	S 16 W	100	47.6	312	N 48 W	
7479.0	8.00	5.9	196	S 16 W	100	47.6	312	N 48 W	
7483.0	8.00	1.8	172	S 8 E	100	47.5	312	N 48 W	
7489.0	8.00	9.6	185	S 5 W	100	47.4	312	N 48 W	
7491.0	8.00	10.9	190	S 10 W	100	47.4	312	N 48 W	
7493.0	8.00	12.7	192	S 12 W	94	47.4	312	N 48 W	
7501.0	8.00	4.8	223	S 43 W	82	47.4	312	N 48 W	
7515.0	8.00	4.7	226	S 46 W	100	47.4	312	N 48 W	
7517.0	8.00	6.6	196	S 16 W	100	47.4	312	N 48 W	
7519.0	8.00	2.8	195	S 15 W	100	47.4	312	N 48 W	
7521.0	8.00	1.8	171	S 9 E	100	47.5	312	N 48 W	
7523.0	8.00	1.8	117	S 63 E	100	47.4	312	N 48 W	
7525.0	8.00	2.1	136	S 44 E	100	47.4	312	N 48 W	
7527.0	8.00	2.4	127	S 53 E	100	47.4	312	N 48 W	
7529.0	8.00	2.5	106	S 74 E	100	47.4	312	N 48 W	
7531.0	8.00	6.2	190	S 10 W	100	47.4	312	N 48 W	
7535.0	8.00	6.2	192	S 12 W	100	47.5	312	N 48 W	
7537.0	8.00	4.6	193	S 13 W	100	47.4	312	N 48 W	
7539.0	8.00	4.6	205	S 25 W	100	47.4	312	N 48 W	

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
7541.0	8.00	5.8	210	S 30 W	100	47.5	312	N 48 W
7543.0	8.00	3.5	270	N 90 W	100	47.5	312	N 48 W
7545.0	8.00	3.5	275	N 85 W	100	47.4	312	N 48 W
7547.0	8.00	6.2	224	S 44 W	100	47.4	312	N 48 W
7551.0	8.00	8.3	235	S 55 W	100	47.4	312	N 48 W
7553.0	8.00	7.6	233	S 53 W	100	47.4	312	N 48 W
7555.0	8.00	5.4	205	S 25 W	100	47.4	312	N 48 W
7557.0	8.00	4.5	210	S 30 W	100	47.4	312	N 48 W
7559.0	8.00	7.0	213	S 33 W	100	47.5	312	N 48 W
7565.0	8.00	7.3	212	S 32 W	100	47.5	312	N 48 W
7567.0	8.00	5.3	210	S 30 W	100	47.5	312	N 48 W
7569.0	8.00	4.2	200	S 20 W	100	47.6	312	N 48 W
7573.0	8.00	3.6	210	S 30 W	100	47.6	312	N 48 W
7575.0	8.00	6.2	212	S 32 W	100	47.6	312	N 48 W
7577.0	8.00	6.0	211	S 31 W	100	47.6	312	N 48 W
7579.0	8.00	7.5	206	S 26 W	100	47.6	312	N 48 W
7581.0	8.00	7.1	197	S 17 W	100	47.6	312	N 48 W
7583.0	8.00	3.3	170	S 10 E	100	47.6	312	N 48 W
7585.0	8.00	3.7	154	S 26 E	100	47.6	312	N 48 W
7589.0	8.00	6.3	180	S 0 E	96	47.6	312	N 48 W
7593.0	8.00	5.1	159	S 21 E	76	47.5	312	N 48 W
7595.0	8.00	4.1	156	S 24 E	60	47.5	312	N 48 W
7599.0	8.00	7.1	218	S 38 W	100	47.5	312	N 48 W
7601.0	8.00	5.8	218	S 38 W	100	47.6	312	N 48 W
7603.0	8.00	7.6	199	S 19 W	100	47.5	312	N 48 W
7605.0	8.00	6.5	194	S 14 W	100	47.5	312	N 48 W
7611.0	8.00	2.5	222	S 42 W	100	47.5	312	N 48 W
7613.0	8.00	5.4	212	S 32 W	100	47.5	312	N 48 W
7615.0	8.00	3.5	222	S 42 W	100	47.6	312	N 48 W
7617.0	8.00	3.0	198	S 18 W	100	47.6	312	N 48 W
7619.0	8.00	2.8	194	S 14 W	100	47.6	312	N 48 W
7621.0	8.00	3.3	198	S 18 W	100	47.6	312	N 48 W
7623.0	8.00	4.9	149	S 31 E	100	47.7	312	N 48 W
7625.0	8.00	5.1	134	S 46 E	100	47.7	312	N 48 W
7629.0	8.00	5.6	166	S 14 E	100	47.6	312	N 48 W
7631.0	8.00	5.3	184	S 4 W	59	47.6	312	N 48 W
7633.0	8.00	4.9	212	S 32 W	100	47.7	312	N 48 W
7635.0	8.00	3.2	196	S 16 W	100	47.4	312	N 48 W
7637.0	8.00	2.0	205	S 25 W	100	47.6	312	N 48 W
7639.0	8.00	4.1	228	S 48 W	100	47.6	312	N 48 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
7641.0	8.00	6.6	217	S 37 W	100	47.6	312	N 48 W
7647.0	8.00	6.4	217	S 37 W	100	47.6	312	N 48 W
7649.0	8.00	6.7	189	S 9 W	100	47.7	312	N 48 W
7651.0	8.00	3.7	169	S 11 E	100	47.7	312	N 48 W
7653.0	8.00	2.7	212	S 32 W	100	47.7	312	N 48 W
7657.0	8.00	3.3	219	S 39 W	100	47.8	312	N 48 W
7659.0	8.00	4.7	193	S 13 W	100	47.8	312	N 48 W
7661.0	8.00	4.8	191	S 11 W	100	47.9	312	N 48 W
7665.0	8.00	14.8	210	S 30 W	100	47.9	312	N 48 W
7667.0	8.00	12.3	197	S 17 W	80	48.0	312	N 48 W
7671.0	8.00	7.1	181	S 1 W	100	47.8	312	N 48 W
7675.0	8.00	7.3	183	S 3 W	100	47.7	312	N 48 W
7679.0	8.00	6.9	204	S 24 W	100	47.6	312	N 48 W
7681.0	8.00	4.4	197	S 17 W	100	47.7	312	N 48 W
7683.0	8.00	4.0	192	S 12 W	100	47.7	312	N 48 W
7685.0	8.00	6.7	199	S 19 W	100	47.8	312	N 48 W
7687.0	8.00	8.9	186	S 6 W	100	47.8	312	N 48 W
7689.0	8.00	5.4	177	S 3 E	100	47.8	312	N 48 W
7691.0	8.00	8.7	208	S 28 W	100	47.8	312	N 48 W
7693.0	8.00	8.4	192	S 12 W	100	47.8	312	N 48 W
7695.0	8.00	6.1	181	S 1 W	100	47.8	312	N 48 W
7699.0	8.00	5.2	182	S 2 W	100	47.8	312	N 48 W
7701.0	8.00	7.0	193	S 13 W	100	47.8	312	N 48 W
7703.0	8.00	4.6	217	S 37 W	100	47.8	312	N 48 W
7705.0	8.00	9.0	183	S 3 W	100	47.8	312	N 48 W
7707.0	8.00	9.3	212	S 32 W	100	47.8	312	N 48 W
7709.0	8.00	11.1	212	S 32 W	100	47.8	312	N 48 W
7711.0	8.00	6.0	206	S 26 W	100	47.8	312	N 48 W
7713.0	8.00	5.5	185	S 5 W	100	47.9	313	N 47 W
7715.0	8.00	14.1	179	S 1 E	94	47.9	313	N 47 W
7717.0	8.00	7.4	170	S 10 E	95	47.8	313	N 47 W
7719.0	8.00	20.5	178	S 2 E	58	47.7	312	N 48 W
7721.0	8.00	9.0	297	N 63 W	24	47.8	312	N 48 W
7727.0	8.00	10.5	309	N 51 W	100	47.9	312	N 48 W
7729.0	8.00	13.3	255	S 75 W	100	47.8	312	N 48 W
7731.0	8.00	10.6	265	S 85 W	80	47.8	313	N 47 W
7735.0	8.00	7.3	245	S 65 W	90	47.9	313	N 47 W
7739.0	8.00	3.7	258	S 78 W	100	47.9	313	N 47 W
7741.0	8.00	3.5	240	S 60 W	100	47.9	313	N 47 W
7743.0	8.00	3.4	237	S 57 W	100	47.9	313	N 47 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
7745.0	8.00	3.9	241	S 61 W	78	48.0	313	N 47 W
7747.0	8.00	4.2	181	S 1 W	100	48.0	313	N 47 W
7749.0	8.00	4.6	203	S 23 W	100	48.1	313	N 47 W
7751.0	8.00	5.3	205	S 25 W	100	48.1	313	N 47 W
7753.0	8.00	4.6	163	S 17 E	100	48.2	313	N 47 W
7755.0	8.00	3.4	192	S 12 W	100	48.2	313	N 47 W
7759.0	8.00	13.9	22	N 22 E	60	48.2	313	N 47 W
7761.0	8.00	13.8	21	N 21 E	53	48.1	313	N 47 W
7765.0	8.00	4.5	37	N 37 E	100	48.1	313	N 47 W
7767.0	8.00	1.6	93	S 87 E	100	48.1	313	N 47 W
7769.0	8.00	2.7	72	N 72 E	100	48.1	313	N 47 W
7775.0	8.00	12.3	86	N 86 E	100	48.1	313	N 47 W
7777.0	8.00	9.8	88	N 88 E	100	48.0	313	N 47 W
7779.0	8.00	4.7	148	S 32 E	100	48.1	313	N 47 W
7783.0	8.00	3.2	180	S 0 E	100	48.0	313	N 47 W
7785.0	8.00	4.0	178	S 2 E	100	48.0	313	N 47 W
7787.0	8.00	4.0	164	S 16 E	100	48.0	313	N 47 W
7789.0	8.00	5.8	169	S 11 E	100	47.9	313	N 47 W
7791.0	8.00	5.5	133	S 47 E	100	48.0	313	N 47 W
7793.0	8.00	6.6	128	S 52 E	100	48.1	313	N 47 W
7795.0	8.00	2.1	124	S 56 E	100	48.1	313	N 47 W
7799.0	8.00	11.4	126	S 54 E	58	48.1	313	N 47 W
7801.0	8.00	11.9	125	S 55 E	74	48.2	313	N 47 W
7805.0	8.00	12.5	136	S 44 E	83	48.2	313	N 47 W
7807.0	8.00	5.5	179	S 1 E	92	48.2	313	N 47 W
7809.0	8.00	6.1	186	S 6 W	100	48.2	313	N 47 W
7811.0	8.00	5.2	187	S 7 W	100	48.3	313	N 47 W
7813.0	8.00	4.6	178	S 2 E	100	48.3	313	N 47 W
7815.0	8.00	4.5	181	S 1 W	100	48.3	313	N 47 W
7817.0	8.00	4.1	173	S 7 E	100	48.4	313	N 47 W
7819.0	8.00	3.4	165	S 15 E	100	48.3	313	N 47 W
7821.0	8.00	0.9	235	S 55 W	100	48.3	313	N 47 W
7823.0	8.00	4.7	210	S 30 W	100	48.3	312	N 48 W
7825.0	8.00	4.8	208	S 28 W	100	48.3	312	N 48 W
7827.0	8.00	3.8	233	S 53 W	100	48.2	313	N 47 W
7829.0	8.00	1.9	210	S 30 W	100	48.2	312	N 48 W
7831.0	8.00	6.7	190	S 10 W	100	48.3	312	N 48 W
7833.0	8.00	4.4	164	S 16 E	100	48.3	312	N 48 W
7835.0	8.00	5.9	183	S 3 W	100	48.3	313	N 47 W
7837.0	8.00	5.0	145	S 35 E	84	48.3	312	N 48 W

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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
7847.0	8.00	7.5	169	S 11 E	100	48.4	313	N 47 W
7851.0	8.00	0.9	191	S 11 W	100	48.4	312	N 48 W
7853.0	8.00	4.6	214	S 34 W	100	48.5	312	N 48 W
7855.0	8.00	5.5	209	S 29 W	100	48.5	312	N 48 W
7857.0	8.00	7.1	240	S 60 W	100	48.4	312	N 48 W
7859.0	8.00	1.5	260	S 80 W	100	48.5	312	N 48 W
7861.0	8.00	1.4	277	N 83 W	100	48.4	312	N 48 W
7863.0	8.00	2.5	238	S 58 W	100	48.5	312	N 48 W
7871.0	8.00	4.6	237	S 57 W	100	48.4	313	N 47 W
7873.0	8.00	5.1	244	S 64 W	100	48.4	313	N 47 W
7875.0	8.00	5.2	235	S 55 W	100	48.3	312	N 48 W
7877.0	8.00	5.6	263	S 83 W	100	48.3	313	N 47 W
7883.0	8.00	2.2	253	S 73 W	100	48.4	313	N 47 W
7885.0	8.00	5.0	245	S 65 W	100	48.4	313	N 47 W
7891.0	8.00	5.4	227	S 47 W	100	48.6	313	N 47 W
7893.0	8.00	4.8	226	S 46 W	100	48.6	313	N 47 W
7895.0	8.00	5.1	202	S 22 W	100	48.6	312	N 48 W
7897.0	8.00	10.7	206	S 26 W	100	48.6	312	N 48 W
7901.0	8.00	21.7	237	S 57 W	100	48.6	312	N 48 W
7913.0	8.00	5.1	242	S 62 W	100	48.5	313	N 47 W
7915.0	8.00	0.1	279	N 81 W	100	48.6	313	N 47 W
7923.0	8.00	0.7	267	S 87 W	100	48.8	313	N 47 W
7925.0	8.00	2.3	227	S 47 W	100	48.9	313	N 47 W
7927.0	8.00	1.7	231	S 51 W	100	48.9	312	N 48 W
7931.0	8.00	4.3	206	S 26 W	100	48.9	312	N 48 W
7933.0	8.00	3.9	226	S 46 W	100	48.9	312	N 48 W
7935.0	8.00	2.9	234	S 54 W	100	48.9	313	N 47 W
7937.0	8.00	6.0	225	S 45 W	100	48.9	312	N 48 W
7941.0	8.00	3.7	178	S 2 E	100	48.9	313	N 47 W
7943.0	8.00	3.6	179	S 1 E	100	48.8	313	N 47 W
7947.0	8.00	8.1	190	S 10 W	100	48.9	313	N 47 W
7949.0	8.00	4.9	200	S 20 W	100	48.9	313	N 47 W
7951.0	8.00	5.6	135	S 45 E	100	48.9	313	N 47 W
7955.0	8.00	5.6	139	S 41 E	100	48.9	313	N 47 W
7961.0	8.00	7.9	100	S 80 E	100	48.9	313	N 47 W
7963.0	8.00	5.9	89	N 89 E	100	48.8	313	N 47 W
7965.0	8.00	5.4	66	N 66 E	100	48.9	313	N 47 W
7969.0	8.00	20.2	45	N 45 E	77	48.8	312	N 48 W
7973.0	8.00	3.8	271	N 89 W	100	48.7	313	N 47 W
7975.0	8.00	4.2	290	N 70 W	100	48.8	313	N 47 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
7977.0	8.00	6.0	231	S 51 W	100	48.8	313	N 47 W
7979.0	8.00	8.8	222	S 42 W	100	48.8	313	N 47 W
7981.0	8.00	11.8	235	S 55 W	100	48.8	313	N 47 W
7983.0	8.00	9.7	225	S 45 W	100	48.9	313	N 47 W
7985.0	8.00	6.5	234	S 54 W	100	48.9	313	N 47 W
7989.0	8.00	1.5	209	S 29 W	100	49.0	313	N 47 W
7991.0	8.00	5.2	231	S 51 W	100	49.0	313	N 47 W
7993.0	8.00	3.5	223	S 43 W	100	49.1	313	N 47 W
7995.0	8.00	5.1	230	S 50 W	100	49.1	313	N 47 W
7997.0	8.00	5.1	232	S 52 W	100	49.1	313	N 47 W
7999.0	8.00	4.5	228	S 48 W	100	49.2	313	N 47 W
8001.0	8.00	2.0	234	S 54 W	100	49.2	313	N 47 W
8007.0	8.00	8.6	236	S 56 W	100	49.1	313	N 47 W
8009.0	8.00	8.9	228	S 48 W	100	49.1	312	N 48 W
8015.0	8.00	5.0	243	S 63 W	100	49.0	313	N 47 W
8019.0	8.00	6.3	259	S 79 W	100	49.0	313	N 47 W
8021.0	8.00	4.7	279	N 81 W	100	49.0	313	N 47 W
8023.0	8.00	4.5	264	S 84 W	100	49.0	313	N 47 W
8027.0	8.00	12.6	215	S 35 W	100	49.1	313	N 47 W
8029.0	8.00	8.7	230	S 50 W	100	49.1	313	N 47 W
8039.0	8.00	18.3	239	S 59 W	74	49.2	313	N 47 W
8043.0	8.00	9.0	210	S 30 W	100	49.1	313	N 47 W
8049.0	8.00	2.9	228	S 48 W	81	49.1	312	N 48 W
8055.0	8.00	19.1	209	S 29 W	77	49.2	313	N 47 W
8057.0	8.00	10.7	206	S 26 W	100	49.2	313	N 47 W
8059.0	8.00	11.0	208	S 28 W	100	49.3	313	N 47 W
8061.0	8.00	7.4	203	S 23 W	100	49.3	313	N 47 W
8063.0	8.00	5.8	199	S 19 W	100	49.3	313	N 47 W
8065.0	8.00	7.6	205	S 25 W	100	49.4	313	N 47 W
8069.0	8.00	2.3	208	S 28 W	100	49.4	313	N 47 W
8071.0	8.00	4.8	209	S 29 W	100	49.4	313	N 47 W
8073.0	8.00	6.8	218	S 38 W	29	49.4	313	N 47 W
8075.0	8.00	5.3	264	S 84 W	82	49.4	313	N 47 W
8077.0	8.00	6.8	247	S 67 W	100	49.4	313	N 47 W
8079.0	8.00	7.0	244	S 64 W	100	49.4	313	N 47 W
8081.0	8.00	7.4	240	S 60 W	100	49.5	313	N 47 W
8083.0	8.00	4.8	259	S 79 W	100	49.5	313	N 47 W
8085.0	8.00	12.8	273	N 87 W	100	49.5	313	N 47 W
8087.0	8.00	9.6	218	S 38 W	100	49.5	313	N 47 W
8089.0	8.00	9.9	214	S 34 W	100	49.5	313	N 47 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8093.0	8.00	11.2	105	S 75 E	100	49.6	313	N 47 W
8099.0	8.00	14.5	120	S 60 E	63	49.7	313	N 47 W
8101.0	8.00	18.1	132	S 48 E	66	49.7	313	N 47 W
8103.0	8.00	19.9	160	S 20 E	61	49.7	313	N 47 W
8105.0	8.00	15.9	158	S 22 E	75	49.6	313	N 47 W
8107.0	8.00	14.7	161	S 19 E	100	49.8	313	N 47 W
8109.0	8.00	9.1	197	S 17 W	49	49.9	313	N 47 W
8115.0	8.00	6.6	195	S 15 W	86	49.8	313	N 47 W
8117.0	8.00	4.2	276	N 84 W	100	49.8	313	N 47 W
8119.0	8.00	2.4	258	S 78 W	100	49.8	313	N 47 W
8121.0	8.00	5.2	245	S 65 W	100	49.8	313	N 47 W
8123.0	8.00	8.5	261	S 81 W	100	49.8	313	N 47 W
8125.0	8.00	5.1	236	S 56 W	100	49.7	313	N 47 W
8127.0	8.00	6.4	205	S 25 W	100	49.7	312	N 48 W
8129.0	8.00	2.6	190	S 10 W	100	49.7	313	N 47 W
8131.0	8.00	5.9	218	S 38 W	100	49.7	313	N 47 W
8133.0	8.00	5.4	199	S 19 W	100	49.7	313	N 47 W
8135.0	8.00	4.3	226	S 46 W	100	49.8	313	N 47 W
8137.0	8.00	4.4	226	S 46 W	100	49.8	313	N 47 W
8139.0	8.00	4.5	231	S 51 W	93	49.9	313	N 47 W
8141.0	8.00	11.7	221	S 41 W	74	49.9	313	N 47 W
8143.0	8.00	7.3	229	S 49 W	100	50.0	313	N 47 W
8145.0	8.00	6.4	233	S 53 W	100	50.1	313	N 47 W
8147.0	8.00	5.8	237	S 57 W	100	50.0	313	N 47 W
8149.0	8.00	5.7	224	S 44 W	100	50.0	313	N 47 W
8151.0	8.00	5.5	245	S 65 W	100	50.0	313	N 47 W
8153.0	8.00	5.4	252	S 72 W	100	50.0	312	N 48 W
8155.0	8.00	6.1	251	S 71 W	100	50.0	313	N 47 W
8157.0	8.00	5.7	261	S 81 W	100	49.9	313	N 47 W
8159.0	8.00	5.1	223	S 43 W	100	49.8	312	N 48 W
8161.0	8.00	6.3	222	S 42 W	100	49.8	312	N 48 W
8163.0	8.00	6.3	237	S 57 W	100	49.7	312	N 48 W
8165.0	8.00	4.3	250	S 70 W	100	49.8	312	N 48 W
8167.0	8.00	5.4	242	S 62 W	100	49.8	312	N 48 W
8169.0	8.00	6.1	240	S 60 W	100	49.7	312	N 48 W
8171.0	8.00	6.2	238	S 58 W	100	49.7	312	N 48 W
8177.0	8.00	6.0	245	S 65 W	100	49.7	312	N 48 W
8179.0	8.00	5.8	213	S 33 W	100	49.6	312	N 48 W
8181.0	8.00	4.7	238	S 58 W	100	49.6	312	N 48 W
8183.0	8.00	5.8	234	S 54 W	100	49.6	312	N 48 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8185.0	8.00	5.6	232	S 52 W	100	49.6	312	N 48 W
8187.0	8.00	5.1	210	S 30 W	100	49.5	312	N 48 W
8189.0	8.00	3.3	233	S 53 W	100	49.6	312	N 48 W
8191.0	8.00	3.4	204	S 24 W	100	49.5	312	N 48 W
8193.0	8.00	2.8	199	S 19 W	100	49.5	312	N 48 W
8195.0	8.00	4.3	212	S 32 W	100	49.5	312	N 48 W
8197.0	8.00	3.6	219	S 39 W	100	49.5	312	N 48 W
8199.0	8.00	6.0	218	S 38 W	100	49.5	312	N 48 W
8201.0	8.00	4.6	239	S 59 W	100	49.5	312	N 48 W
8203.0	8.00	5.4	236	S 56 W	100	49.5	312	N 48 W
8205.0	8.00	4.8	226	S 46 W	100	49.5	312	N 48 W
8207.0	8.00	3.9	207	S 27 W	100	49.5	312	N 48 W
8209.0	8.00	6.7	216	S 36 W	100	49.5	312	N 48 W
8211.0	8.00	6.8	215	S 35 W	89	49.4	312	N 48 W
8213.0	8.00	5.9	213	S 33 W	76	49.4	312	N 48 W
8215.0	8.00	6.5	207	S 27 W	100	49.5	312	N 48 W
8217.0	8.00	7.3	220	S 40 W	100	49.4	312	N 48 W
8219.0	8.00	7.0	198	S 18 W	100	49.4	312	N 48 W
8221.0	8.00	6.7	163	S 17 E	100	49.4	312	N 48 W
8223.0	8.00	8.1	191	S 11 W	100	49.4	312	N 48 W
8227.0	8.00	16.3	217	S 37 W	100	49.4	312	N 48 W
8229.0	8.00	12.2	215	S 35 W	91	49.2	312	N 48 W
8231.0	8.00	9.0	215	S 35 W	100	49.2	312	N 48 W
8233.0	8.00	11.3	216	S 36 W	100	49.2	312	N 48 W
8235.0	8.00	9.4	225	S 45 W	100	49.2	312	N 48 W
8237.0	8.00	5.6	231	S 51 W	100	49.3	312	N 48 W
8241.0	8.00	9.5	226	S 46 W	100	49.2	312	N 48 W
8245.0	8.00	13.2	266	S 86 W	78	49.2	312	N 48 W
8247.0	8.00	13.1	267	S 87 W	100	49.2	312	N 48 W
8253.0	8.00	5.3	280	N 80 W	100	49.1	312	N 48 W
8255.0	8.00	5.4	210	S 30 W	100	49.0	312	N 48 W
8257.0	8.00	10.6	227	S 47 W	100	48.9	312	N 48 W
8259.0	8.00	9.5	224	S 44 W	100	49.0	312	N 48 W
8261.0	8.00	5.6	259	S 79 W	100	48.9	312	N 48 W
8265.0	8.00	4.6	264	S 84 W	90	48.9	312	N 48 W
8267.0	8.00	1.1	162	S 18 E	87	48.9	312	N 48 W
8269.0	8.00	1.1	183	S 3 W	100	48.8	312	N 48 W
8271.0	8.00	3.8	210	S 30 W	100	48.8	312	N 48 W
8281.0	8.00	6.4	183	S 3 W	100	48.8	312	N 48 W
8283.0	8.00	6.4	226	S 46 W	81	48.7	312	N 48 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8285.0	8.00	3.2	200	S 20 W	100	48.7	312	N 48 W
8287.0	8.00	3.7	198	S 18 W	100	48.7	312	N 48 W
8289.0	8.00	4.5	194	S 14 W	100	48.7	312	N 48 W
8291.0	8.00	6.0	197	S 17 W	100	48.7	312	N 48 W
8293.0	8.00	6.7	202	S 22 W	100	48.7	312	N 48 W
8295.0	8.00	6.1	218	S 38 W	100	48.7	312	N 48 W
8297.0	8.00	7.1	225	S 45 W	100	48.7	312	N 48 W
8299.0	8.00	6.7	239	S 59 W	100	48.7	312	N 48 W
8301.0	8.00	6.9	241	S 61 W	100	48.7	312	N 48 W
8303.0	8.00	8.3	236	S 56 W	100	48.7	312	N 48 W
8305.0	8.00	8.6	233	S 53 W	100	48.6	312	N 48 W
8315.0	8.00	9.2	229	S 49 W	100	48.5	312	N 48 W
8317.0	8.00	6.2	223	S 43 W	82	48.4	312	N 48 W
8335.0	8.00	21.8	244	S 64 W	60	48.3	312	N 48 W
8337.0	8.00	16.8	236	S 56 W	100	48.3	312	N 48 W
8339.0	8.00	9.6	256	S 76 W	100	48.2	312	N 48 W
8343.0	8.00	13.6	257	S 77 W	62	48.2	312	N 48 W
8349.0	8.00	10.8	285	N 75 W	100	48.1	312	N 48 W
8351.0	8.00	9.4	328	N 32 W	100	48.2	312	N 48 W
8355.0	8.00	15.8	349	N 11 W	36	48.1	312	N 48 W
8357.0	8.00	9.1	290	N 70 W	100	48.1	311	N 49 W
8359.0	8.00	12.4	250	S 70 W	100	48.2	312	N 48 W
8361.0	8.00	13.6	267	S 87 W	100	48.1	312	N 48 W
8363.0	8.00	10.9	276	N 84 W	100	48.1	311	N 49 W
8365.0	8.00	13.3	252	S 72 W	100	48.1	312	N 48 W
8369.0	8.00	13.9	230	S 50 W	100	48.1	312	N 48 W
8371.0	8.00	10.7	240	S 60 W	100	48.1	312	N 48 W
8373.0	8.00	10.7	240	S 60 W	100	48.1	312	N 48 W
8379.0	8.00	4.2	268	S 88 W	100	48.0	311	N 49 W
8381.0	8.00	8.4	254	S 74 W	100	48.0	311	N 49 W
8383.0	8.00	8.6	256	S 76 W	100	48.0	311	N 49 W
8393.0	8.00	18.7	161	S 19 E	100	47.8	311	N 49 W
8395.0	8.00	7.4	161	S 19 E	100	47.8	311	N 49 W
8397.0	8.00	17.3	180	S 0 E	100	47.8	311	N 49 W
8399.0	8.00	17.2	185	S 5 W	100	47.8	311	N 49 W
8401.0	8.00	17.7	212	S 32 W	100	47.8	311	N 49 W
8403.0	8.00	17.1	213	S 33 W	100	47.7	311	N 49 W
8405.0	8.00	15.0	212	S 32 W	100	47.7	312	N 48 W
8407.0	8.00	12.6	226	S 46 W	100	47.6	311	N 49 W
8409.0	8.00	25.7	205	S 25 W	100	47.6	311	N 49 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8413.0	8.00	23.1	60	N 60 E	100	47.7	312	N 48 W
8415.0	8.00	25.5	59	N 59 E	77	47.7	312	N 48 W
8423.0	8.00	27.1	64	N 64 E	73	47.6	312	N 48 W
8425.0	8.00	24.2	61	N 61 E	100	47.6	312	N 48 W
8431.0	8.00	19.9	61	N 61 E	86	47.6	312	N 48 W
8433.0	8.00	19.5	61	N 61 E	100	47.6	312	N 48 W
8435.0	8.00	27.1	69	N 69 E	70	47.6	312	N 48 W
8437.0	8.00	31.7	177	S 3 E	13	47.6	312	N 48 W
8439.0	8.00	45.6	163	S 17 E	67	47.5	312	N 48 W
8443.0	8.00	16.9	214	S 34 W	100	47.5	312	N 48 W
8447.0	8.00	16.2	217	S 37 W	76	47.6	312	N 48 W
8449.0	8.00	12.8	187	S 7 W	80	47.5	312	N 48 W
8451.0	8.00	15.9	197	S 17 W	100	47.5	312	N 48 W
8455.0	8.00	9.4	197	S 17 W	100	47.5	312	N 48 W
8457.0	8.00	7.2	179	S 1 E	100	47.4	312	N 48 W
8459.0	8.00	12.1	218	S 38 W	100	47.4	312	N 48 W
8461.0	8.00	12.1	194	S 14 W	79	47.5	312	N 48 W
8463.0	8.00	10.7	190	S 10 W	100	47.4	312	N 48 W
8465.0	8.00	7.4	189	S 9 W	100	47.4	312	N 48 W
8467.0	8.00	12.4	241	S 61 W	100	47.4	312	N 48 W
8469.0	8.00	7.2	238	S 58 W	69	47.2	312	N 48 W
8471.0	8.00	17.0	153	S 27 E	100	47.4	312	N 48 W
8473.0	8.00	13.9	163	S 17 E	67	47.3	312	N 48 W
8475.0	8.00	13.0	158	S 22 E	76	47.3	312	N 48 W
8493.0	8.00	18.2	159	S 21 E	100	47.0	311	N 49 W
8497.0	8.00	15.2	143	S 37 E	75	47.0	312	N 48 W
8499.0	8.00	16.6	145	S 35 E	100	46.8	312	N 48 W
8511.0	8.00	8.0	167	S 13 E	100	46.8	312	N 48 W
8515.0	8.00	10.2	173	S 7 E	100	46.9	312	N 48 W
8517.0	8.00	11.0	173	S 7 E	100	46.9	312	N 48 W
8521.0	8.00	3.8	189	S 9 W	100	46.9	311	N 49 W
8523.0	8.00	8.1	202	S 22 W	100	46.9	311	N 49 W
8531.0	8.00	4.6	192	S 12 W	100	46.9	310	N 50 W
8533.0	8.00	5.3	197	S 17 W	100	46.9	310	N 50 W
8535.0	8.00	6.2	186	S 6 W	100	46.9	310	N 50 W
8537.0	8.00	5.4	183	S 3 W	100	46.8	310	N 50 W
8539.0	8.00	3.6	181	S 1 W	91	46.8	310	N 50 W
8541.0	8.00	8.4	195	S 15 W	100	46.7	309	N 51 W
8545.0	8.00	5.9	197	S 17 W	100	46.7	310	N 50 W
8547.0	8.00	7.9	179	S 1 E	100	46.7	309	N 51 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8549.0	8.00	9.2	182	S 2 W	100	46.7	309	N 51 W
8553.0	8.00	2.2	234	S 54 W	87	46.6	309	N 51 W
8555.0	8.00	2.8	221	S 41 W	100	46.6	309	N 51 W
8557.0	8.00	4.4	199	S 19 W	100	46.6	309	N 51 W
8559.0	8.00	4.8	192	S 12 W	100	46.6	309	N 51 W
8561.0	8.00	3.9	208	S 28 W	100	46.5	309	N 51 W
8565.0	8.00	3.9	233	S 53 W	100	46.4	309	N 51 W
8567.0	8.00	3.5	242	S 62 W	100	46.5	309	N 51 W
8569.0	8.00	3.9	227	S 47 W	75	46.4	309	N 51 W
8571.0	8.00	4.3	202	S 22 W	100	46.4	309	N 51 W
8573.0	8.00	3.5	197	S 17 W	100	46.4	309	N 51 W
8575.0	8.00	3.3	210	S 30 W	100	46.4	309	N 51 W
8577.0	8.00	3.9	219	S 39 W	100	46.3	309	N 51 W
8579.0	8.00	4.0	221	S 41 W	100	46.3	309	N 51 W
8583.0	8.00	25.4	206	S 26 W	73	46.2	310	N 50 W
8597.0	8.00	2.8	202	S 22 W	100	46.1	310	N 50 W
8599.0	8.00	6.8	191	S 11 W	100	46.1	310	N 50 W
8601.0	8.00	6.9	185	S 5 W	100	46.1	310	N 50 W
8603.0	8.00	6.1	178	S 2 E	100	46.0	310	N 50 W
8607.0	8.00	3.0	208	S 28 W	100	45.6	310	N 50 W
8613.0	8.00	7.3	176	S 4 E	100	45.9	311	N 49 W
8615.0	8.00	4.7	182	S 2 W	100	45.9	311	N 49 W
8617.0	8.00	5.9	208	S 28 W	100	45.9	311	N 49 W
8619.0	8.00	5.9	204	S 24 W	100	45.9	311	N 49 W
8621.0	8.00	6.0	204	S 24 W	100	45.9	311	N 49 W
8623.0	8.00	5.7	193	S 13 W	100	45.9	311	N 49 W
8625.0	8.00	5.3	187	S 7 W	100	45.8	311	N 49 W
8627.0	8.00	4.7	175	S 5 E	100	45.8	311	N 49 W
8629.0	8.00	4.7	179	S 1 E	100	45.8	311	N 49 W
8631.0	8.00	4.3	185	S 5 W	100	45.7	311	N 49 W
8633.0	8.00	4.0	185	S 5 W	100	45.7	311	N 49 W
8635.0	8.00	2.8	159	S 21 E	100	45.7	311	N 49 W
8637.0	8.00	7.5	184	S 4 W	100	45.6	311	N 49 W
8639.0	8.00	18.7	164	S 16 E	100	45.6	311	N 49 W
8641.0	8.00	8.1	240	S 60 W	100	45.6	311	N 49 W
8645.0	8.00	5.3	281	N 79 W	100	45.5	311	N 49 W
8647.0	8.00	5.4	261	S 81 W	100	45.4	311	N 49 W
8653.0	8.00	4.2	221	S 41 W	100	45.5	311	N 49 W
8655.0	8.00	4.6	191	S 11 W	100	45.5	311	N 49 W
8657.0	8.00	6.6	203	S 23 W	100	45.5	311	N 49 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8659.0	8.00	4.2	222	S 42 W	100	45.5	311	N 49 W
8661.0	8.00	6.1	216	S 36 W	100	45.5	311	N 49 W
8663.0	8.00	6.5	245	S 65 W	100	45.5	311	N 49 W
8673.0	8.00	7.8	194	S 14 W	100	45.2	311	N 49 W
8675.0	8.00	3.8	170	S 10 E	100	45.2	311	N 49 W
8677.0	8.00	4.1	171	S 9 E	100	45.2	311	N 49 W
8679.0	8.00	3.9	171	S 9 E	100	45.2	311	N 49 W
8681.0	8.00	4.8	188	S 8 W	100	45.2	311	N 49 W
8683.0	8.00	6.7	200	S 20 W	100	45.2	311	N 49 W
8685.0	8.00	4.5	202	S 22 W	100	45.1	311	N 49 W
8687.0	8.00	1.8	156	S 24 E	100	45.1	311	N 49 W
8693.0	8.00	4.1	163	S 17 E	100	45.1	311	N 49 W
8695.0	8.00	3.2	178	S 2 E	100	45.2	311	N 49 W
8697.0	8.00	3.1	164	S 16 E	100	45.2	311	N 49 W
8699.0	8.00	3.2	187	S 7 W	100	45.1	311	N 49 W
8701.0	8.00	3.5	195	S 15 W	100	45.1	311	N 49 W
8703.0	8.00	3.7	181	S 1 W	100	45.1	311	N 49 W
8705.0	8.00	2.9	202	S 22 W	100	45.1	311	N 49 W
8707.0	8.00	3.0	190	S 10 W	100	45.1	311	N 49 W
8709.0	8.00	2.8	188	S 8 W	100	45.1	311	N 49 W
8711.0	8.00	2.7	158	S 22 E	100	45.1	311	N 49 W
8713.0	8.00	2.6	150	S 30 E	100	45.1	311	N 49 W
8715.0	8.00	3.6	151	S 29 E	100	45.1	311	N 49 W
8717.0	8.00	4.3	195	S 15 W	100	45.0	311	N 49 W
8719.0	8.00	4.1	209	S 29 W	100	45.0	311	N 49 W
8721.0	8.00	4.7	205	S 25 W	100	45.1	311	N 49 W
8725.0	8.00	4.4	178	S 2 E	100	45.0	311	N 49 W
8727.0	8.00	6.8	181	S 1 W	100	45.0	311	N 49 W
8729.0	8.00	4.8	151	S 29 E	100	45.0	311	N 49 W
8731.0	8.00	4.8	169	S 11 E	100	45.0	311	N 49 W
8733.0	8.00	3.5	175	S 5 E	100	44.9	311	N 49 W
8739.0	8.00	2.2	183	S 3 W	100	44.9	311	N 49 W
8743.0	8.00	2.8	171	S 9 E	100	45.0	311	N 49 W
8745.0	8.00	3.7	169	S 11 E	100	45.0	311	N 49 W
8747.0	8.00	4.3	171	S 9 E	100	45.0	311	N 49 W
8749.0	8.00	7.0	186	S 6 W	100	45.1	311	N 49 W
8751.0	8.00	5.0	196	S 16 W	100	45.1	311	N 49 W
8753.0	8.00	3.6	183	S 3 W	100	45.1	311	N 49 W
8755.0	8.00	2.6	150	S 30 E	100	45.1	311	N 49 W
8757.0	8.00	2.1	159	S 21 E	100	45.1	311	N 49 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8763.0	8.00	2.5	192	S 12 W	100	45.1	311	N 49 W
8765.0	8.00	2.8	193	S 13 W	100	45.1	311	N 49 W
8767.0	8.00	3.0	187	S 7 W	100	45.1	311	N 49 W
8771.0	8.00	3.3	198	S 18 W	100	45.0	311	N 49 W
8773.0	8.00	3.2	192	S 12 W	100	45.0	311	N 49 W
8775.0	8.00	7.8	208	S 28 W	100	45.0	311	N 49 W
8777.0	8.00	4.7	189	S 9 W	100	45.0	311	N 49 W
8779.0	8.00	4.4	194	S 14 W	100	45.1	311	N 49 W
8785.0	8.00	4.4	192	S 12 W	100	45.0	311	N 49 W
8787.0	8.00	3.0	158	S 22 E	89	45.0	311	N 49 W
8789.0	8.00	1.9	160	S 20 E	100	44.9	311	N 49 W
8791.0	8.00	7.6	185	S 5 W	100	44.9	311	N 49 W
8793.0	8.00	14.4	197	S 17 W	100	44.9	311	N 49 W
8795.0	8.00	5.3	172	S 8 E	100	45.0	311	N 49 W
8797.0	8.00	3.9	136	S 44 E	100	45.0	311	N 49 W
8799.0	8.00	1.9	160	S 20 E	100	44.9	310	N 50 W
8801.0	8.00	2.4	164	S 16 E	100	45.0	311	N 49 W
8807.0	8.00	4.3	191	S 11 W	100	44.9	311	N 49 W
8809.0	8.00	2.3	143	S 37 E	100	44.8	311	N 49 W
8811.0	8.00	3.1	163	S 17 E	100	44.8	311	N 49 W
8813.0	8.00	3.5	149	S 31 E	100	44.9	311	N 49 W
8815.0	8.00	5.1	172	S 8 E	100	44.9	311	N 49 W
8819.0	8.00	1.5	164	S 16 E	100	45.0	311	N 49 W
8823.0	8.00	3.4	203	S 23 W	100	45.0	311	N 49 W
8825.0	8.00	1.9	180	S 0 E	100	45.1	311	N 49 W
8827.0	8.00	1.4	128	S 52 E	100	45.0	311	N 49 W
8829.0	8.00	2.3	136	S 44 E	100	45.0	311	N 49 W
8833.0	8.00	3.0	146	S 34 E	100	45.1	311	N 49 W
8835.0	8.00	3.9	171	S 9 E	100	45.0	311	N 49 W
8837.0	8.00	5.6	185	S 5 W	100	45.0	311	N 49 W
8839.0	8.00	3.5	171	S 9 E	100	45.0	311	N 49 W
8841.0	8.00	7.5	215	S 35 W	100	45.0	311	N 49 W
8845.0	8.00	6.3	216	S 36 W	100	44.8	311	N 49 W
8847.0	8.00	4.0	198	S 18 W	100	44.8	311	N 49 W
8849.0	8.00	3.7	189	S 9 W	100	44.8	311	N 49 W
8851.0	8.00	2.2	180	S 0 E	100	44.8	311	N 49 W
8853.0	8.00	3.4	156	S 24 E	100	44.8	311	N 49 W
8855.0	8.00	3.1	174	S 6 E	100	44.8	311	N 49 W
8857.0	8.00	3.0	194	S 14 W	100	44.8	311	N 49 W
8859.0	8.00	3.2	169	S 11 E	100	44.8	311	N 49 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8861.0	8.00	5.7	193	S 13 W	100	44.8	311	N 49 W
8863.0	8.00	6.5	188	S 8 W	100	44.8	311	N 49 W
8867.0	8.00	2.1	171	S 9 E	100	44.9	311	N 49 W
8873.0	8.00	8.2	163	S 17 E	90	44.9	311	N 49 W
8875.0	8.00	5.2	192	S 12 W	100	44.9	311	N 49 W
8877.0	8.00	7.2	200	S 20 W	100	45.0	311	N 49 W
8879.0	8.00	7.2	188	S 8 W	100	44.9	311	N 49 W
8881.0	8.00	5.3	179	S 1 E	100	44.9	311	N 49 W
8883.0	8.00	3.4	103	S 77 E	100	44.9	311	N 49 W
8885.0	8.00	2.8	130	S 50 E	100	44.9	311	N 49 W
8887.0	8.00	2.3	117	S 63 E	100	44.9	311	N 49 W
8889.0	8.00	4.7	178	S 2 E	100	44.9	311	N 49 W
8891.0	8.00	3.6	171	S 9 E	100	44.9	311	N 49 W
8897.0	8.00	4.3	172	S 8 E	100	44.9	311	N 49 W
8899.0	8.00	3.8	156	S 24 E	100	44.9	311	N 49 W
8901.0	8.00	4.6	145	S 35 E	100	44.8	311	N 49 W
8903.0	8.00	6.4	141	S 39 E	100	44.9	311	N 49 W
8905.0	8.00	6.4	134	S 46 E	100	44.9	311	N 49 W
8911.0	8.00	2.6	107	S 73 E	100	44.6	311	N 49 W
8913.0	8.00	16.8	159	S 21 E	92	44.8	312	N 48 W
8917.0	8.00	6.7	175	S 5 E	100	44.9	312	N 48 W
8919.0	8.00	3.6	164	S 16 E	100	44.9	311	N 49 W
8921.0	8.00	4.6	175	S 5 E	100	44.9	311	N 49 W
8923.0	8.00	4.6	132	S 48 E	100	44.9	311	N 49 W
8925.0	8.00	4.2	122	S 58 E	100	45.0	311	N 49 W
8927.0	8.00	4.3	173	S 7 E	81	44.9	311	N 49 W
8931.0	8.00	3.4	191	S 11 W	100	44.9	312	N 48 W
8933.0	8.00	4.9	184	S 4 W	100	45.0	312	N 48 W
8935.0	8.00	4.0	149	S 31 E	100	44.9	311	N 49 W
8937.0	8.00	7.5	151	S 29 E	100	44.9	311	N 49 W
8939.0	8.00	7.9	149	S 31 E	100	44.8	311	N 49 W
8941.0	8.00	3.6	142	S 38 E	100	44.8	311	N 49 W
8943.0	8.00	3.4	142	S 38 E	100	44.9	311	N 49 W
8945.0	8.00	1.5	162	S 18 E	100	44.9	311	N 49 W
8951.0	8.00	2.9	153	S 27 E	100	44.8	311	N 49 W
8953.0	8.00	4.6	175	S 5 E	100	44.8	311	N 49 W
8955.0	8.00	3.7	164	S 16 E	100	44.8	311	N 49 W
8959.0	8.00	3.7	131	S 49 E	100	44.9	311	N 49 W
8961.0	8.00	3.9	152	S 28 E	100	44.9	311	N 49 W
8963.0	8.00	4.8	137	S 43 E	100	44.9	311	N 49 W

CHEVRON U.S.A., INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
8965.0	8.00	5.3	148	S 32 E	100	45.0	311	N 49 W
8967.0	8.00	5.3	226	S 46 W	100	45.0	311	N 49 W
8969.0	8.00	6.6	213	S 33 W	100	45.0	311	N 49 W
8973.0	8.00	2.8	197	S 17 W	100	45.0	311	N 49 W
8975.0	8.00	4.3	201	S 21 W	100	45.0	311	N 49 W
8977.0	8.00	2.5	239	S 59 W	100	45.0	311	N 49 W
8979.0	8.00	1.5	245	S 65 W	100	45.0	311	N 49 W
8983.0	8.00	0.3	204	S 24 W	100	45.0	311	N 49 W
8985.0	8.00	13.3	180	S 0 E	100	45.0	311	N 49 W
8987.0	8.00	9.6	156	S 24 E	100	44.9	311	N 49 W
8989.0	8.00	4.8	160	S 20 E	100	44.9	311	N 49 W
8991.0	8.00	4.1	125	S 55 E	100	45.0	311	N 49 W
8993.0	8.00	6.4	112	S 68 E	100	44.9	311	N 49 W
8995.0	8.00	4.9	120	S 60 E	100	44.9	311	N 49 W
8997.0	8.00	3.2	135	S 45 E	100	45.0	311	N 49 W
8999.0	8.00	3.5	84	N 84 E	100	44.9	311	N 49 W
9001.0	8.00	4.5	108	S 72 E	100	45.0	311	N 49 W
9003.0	8.00	2.8	118	S 62 E	100	45.0	311	N 49 W
9005.0	8.00	3.9	101	S 79 E	100	45.0	311	N 49 W
9007.0	8.00	5.4	121	S 59 E	100	45.0	311	N 49 W
9009.0	8.00	6.8	113	S 67 E	100	45.0	311	N 49 W
9011.0	8.00	21.2	46	N 46 E	100	45.0	311	N 49 W
9013.0	8.00	20.4	42	N 42 E	100	45.0	311	N 49 W
9015.0	8.00	10.7	45	N 45 E	100	45.0	312	N 48 W
9017.0	8.00	4.3	37	N 37 E	100	45.0	312	N 48 W
9021.0	8.00	4.2	146	S 34 E	100	45.1	312	N 48 W
9023.0	8.00	5.6	167	S 13 E	100	45.1	312	N 48 W
9025.0	8.00	5.5	156	S 24 E	100	45.1	312	N 48 W
9027.0	8.00	7.7	151	S 29 E	100	45.1	312	N 48 W
9029.0	8.00	7.9	162	S 18 E	100	45.1	312	N 48 W
9031.0	8.00	7.1	142	S 38 E	100	45.1	312	N 48 W
9033.0	8.00	5.7	41	N 41 E	64	45.1	312	N 48 W
9037.0	8.00	5.3	41	N 41 E	76	45.1	312	N 48 W
9045.0	8.00	14.9	77	N 77 E	57	44.9	312	N 48 W
9047.0	8.00	13.0	65	N 65 E	100	44.9	313	N 47 W
9049.0	8.00	8.8	72	N 72 E	100	44.9	313	N 47 W
9051.0	8.00	8.5	86	N 86 E	100	44.9	313	N 47 W
9053.0	8.00	5.6	117	S 63 E	100	44.9	313	N 47 W
9055.0	8.00	5.4	122	S 58 E	100	44.9	313	N 47 W
9057.0	8.00	4.9	109	S 71 E	100	45.0	313	N 47 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
01-06-88

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9899.0	8.00	10.3	57	N 57 E	100	41.6	313	N 47 W
9901.0	8.00	10.7	60	N 60 E	100	41.6	313	N 47 W
9903.0	8.00	9.6	59	N 59 E	100	41.7	313	N 47 W
9905.0	8.00	9.1	63	N 63 E	100	41.7	313	N 47 W
9907.0	8.00	9.1	59	N 59 E	100	41.7	313	N 47 W
9909.0	8.00	8.8	45	N 45 E	100	41.7	313	N 47 W
9911.0	8.00	6.0	53	N 53 E	100	41.7	313	N 47 W
9915.0	8.00	6.1	58	N 58 E	92	41.8	313	N 47 W
9919.0	8.00	6.6	71	N 71 E	100	41.8	313	N 47 W
9921.0	8.00	7.2	68	N 68 E	100	41.9	313	N 47 W
9923.0	8.00	6.3	67	N 67 E	100	41.9	313	N 47 W
9925.0	8.00	6.4	84	N 84 E	100	41.9	313	N 47 W
9927.0	8.00	6.1	80	N 80 E	100	41.9	313	N 47 W
9929.0	8.00	8.9	51	N 51 E	100	41.9	313	N 47 W
9931.0	8.00	8.4	51	N 51 E	100	42.0	313	N 47 W
9933.0	8.00	7.5	63	N 63 E	100	42.0	313	N 47 W
9935.0	8.00	6.8	70	N 70 E	100	42.0	313	N 47 W
9937.0	8.00	6.9	66	N 66 E	100	42.2	313	N 47 W
9939.0	8.00	6.6	66	N 66 E	100	42.1	313	N 47 W
9941.0	8.00	8.2	52	N 52 E	100	42.1	313	N 47 W
9943.0	8.00	4.1	49	N 49 E	100	42.1	313	N 47 W
9945.0	8.00	8.2	49	N 49 E	100	42.2	313	N 47 W
9949.0	8.00	8.4	32	N 32 E	100	42.3	313	N 47 W
9951.0	8.00	9.0	33	N 33 E	100	42.3	313	N 47 W
9953.0	8.00	7.7	30	N 30 E	100	42.3	313	N 47 W
9955.0	8.00	7.0	45	N 45 E	100	42.3	313	N 47 W
9957.0	8.00	7.3	47	N 47 E	100	42.4	313	N 47 W
9959.0	8.00	5.3	48	N 48 E	100	42.5	313	N 47 W
9961.0	8.00	37.5	62	N 62 E	87	42.4	312	N 48 W
9965.0	8.00	6.6	54	N 54 E	100	42.5	312	N 48 W
9967.0	8.00	8.0	67	N 67 E	100	42.5	312	N 48 W
9969.0	8.00	6.4	61	N 61 E	100	42.6	312	N 48 W
9971.0	8.00	7.2	65	N 65 E	100	42.6	312	N 48 W
9973.0	8.00	7.7	67	N 67 E	100	42.7	312	N 48 W
9975.0	8.00	6.9	72	N 72 E	100	42.6	312	N 48 W
9977.0	8.00	6.6	82	N 82 E	100	42.8	312	N 48 W
9979.0	8.00	6.6	78	N 78 E	100	42.8	312	N 48 W
9981.0	8.00	6.1	78	N 78 E	100	42.9	312	N 48 W
9985.0	8.00	57.2	90	N 90 E	67	42.9	312	N 48 W
9995.0	8.00	7.9	66	N 66 E	68	43.0	312	N 48 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
01-06-88

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9997.0	8.00	7.5	60	N 60 E	100	43.1	312	N 48 W
9999.0	8.00	6.6	64	N 64 E	100	43.1	312	N 48 W
10001.0	8.00	7.2	60	N 60 E	66	43.1	312	N 48 W
10003.0	8.00	7.6	61	N 61 E	90	43.2	312	N 48 W
10005.0	8.00	7.9	62	N 62 E	94	43.2	312	N 48 W
10007.0	8.00	8.9	71	N 71 E	100	43.2	312	N 48 W
10009.0	8.00	8.0	59	N 59 E	100	43.3	312	N 48 W
10011.0	8.00	7.5	57	N 57 E	100	43.3	312	N 48 W
10013.0	8.00	6.8	51	N 51 E	100	43.4	312	N 48 W
10015.0	8.00	7.7	50	N 50 E	100	43.4	311	N 49 W
10017.0	8.00	7.5	56	N 56 E	100	43.5	311	N 49 W
10019.0	8.00	7.6	59	N 59 E	100	43.5	311	N 49 W
10021.0	8.00	7.6	64	N 64 E	100	43.5	311	N 49 W
10023.0	8.00	8.2	63	N 63 E	100	43.6	311	N 49 W
10025.0	8.00	6.7	69	N 69 E	100	43.6	311	N 49 W
10027.0	8.00	4.9	80	N 80 E	68	43.6	311	N 49 W
10029.0	8.00	3.6	102	S 78 E	43	43.7	311	N 49 W
10031.0	8.00	4.4	108	S 72 E	100	43.7	311	N 49 W
10035.0	8.00	7.1	168	S 12 E	100	43.8	311	N 49 W
10037.0	8.00	7.1	157	S 23 E	100	43.8	311	N 49 W
10039.0	8.00	7.6	150	S 30 E	100	43.8	311	N 49 W
10041.0	8.00	5.3	113	S 67 E	100	43.9	311	N 49 W
10043.0	8.00	4.0	110	S 70 E	100	43.9	311	N 49 W
10045.0	8.00	4.9	95	S 85 E	100	44.0	311	N 49 W
10047.0	8.00	4.8	100	S 80 E	100	44.0	311	N 49 W
10049.0	8.00	6.3	95	S 85 E	100	44.1	311	N 49 W
10051.0	8.00	6.9	90	N 90 E	100	44.1	311	N 49 W
10053.0	8.00	7.7	88	N 88 E	100	44.2	311	N 49 W
10055.0	8.00	7.6	87	N 87 E	100	44.2	311	N 49 W
10057.0	8.00	6.7	89	N 89 E	100	44.2	311	N 49 W
10061.0	8.00	4.7	107	S 73 E	100	44.2	311	N 49 W
10063.0	8.00	4.3	126	S 54 E	100	44.3	311	N 49 W
10065.0	8.00	4.6	111	S 69 E	100	44.3	311	N 49 W
10067.0	8.00	3.8	95	S 85 E	100	44.4	311	N 49 W
10069.0	8.00	4.1	74	N 74 E	100	44.4	311	N 49 W
10071.0	8.00	5.0	87	N 87 E	100	44.5	311	N 49 W
10073.0	8.00	5.5	100	S 80 E	100	44.5	311	N 49 W
10075.0	8.00	5.3	141	S 39 E	100	44.5	311	N 49 W
10077.0	8.00	5.1	144	S 36 E	100	44.5	311	N 49 W
10079.0	8.00	3.0	114	S 66 E	100	44.6	311	N 49 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
10081.0	8.00	2.8	108	S 72 E	100	44.6	311	N 49 W
10083.0	8.00	3.3	103	S 77 E	100	44.7	311	N 49 W
10085.0	8.00	5.5	95	S 85 E	100	44.7	311	N 49 W
10087.0	8.00	3.4	95	S 85 E	100	44.8	311	N 49 W
10089.0	8.00	6.1	81	N 81 E	100	44.8	311	N 49 W
10091.0	8.00	4.4	95	S 85 E	100	44.8	311	N 49 W
10093.0	8.00	4.2	95	S 85 E	100	44.8	311	N 49 W
10095.0	8.00	6.1	93	S 87 E	100	44.9	311	N 49 W
10097.0	8.00	3.7	79	N 79 E	100	45.0	311	N 49 W
10099.0	8.00	6.1	60	N 60 E	100	45.0	311	N 49 W
10103.0	8.00	15.7	51	N 51 E	100	45.0	311	N 49 W
10105.0	8.00	15.8	51	N 51 E	100	45.1	311	N 49 W
10107.0	8.00	4.2	76	N 76 E	100	45.1	311	N 49 W
10109.0	8.00	4.0	110	S 70 E	100	45.2	311	N 49 W
10111.0	8.00	5.2	117	S 63 E	100	45.2	311	N 49 W
10113.0	8.00	5.3	124	S 56 E	100	45.2	311	N 49 W
10115.0	8.00	6.1	141	S 39 E	100	45.3	311	N 49 W
10117.0	8.00	5.3	151	S 29 E	100	45.4	311	N 49 W
10119.0	8.00	5.0	151	S 29 E	100	45.4	310	N 50 W
10121.0	8.00	4.1	154	S 26 E	100	45.4	310	N 50 W
10123.0	8.00	4.2	148	S 32 E	100	45.5	310	N 50 W
10125.0	8.00	7.0	183	S 3 W	92	45.5	310	N 50 W
10127.0	8.00	7.9	185	S 5 W	85	45.6	310	N 50 W
10129.0	8.00	5.3	152	S 28 E	100	45.6	310	N 50 W
10131.0	8.00	7.2	177	S 3 E	100	45.7	311	N 49 W
10133.0	8.00	6.3	147	S 33 E	100	45.7	310	N 50 W
10135.0	8.00	6.2	158	S 22 E	100	45.7	310	N 50 W
10137.0	8.00	10.4	193	S 13 W	100	45.7	310	N 50 W
10139.0	8.00	9.1	188	S 8 W	100	45.8	310	N 50 W
10141.0	8.00	9.3	190	S 10 W	100	45.9	310	N 50 W
10143.0	8.00	6.3	174	S 6 E	100	45.9	310	N 50 W
10145.0	8.00	5.8	167	S 13 E	100	46.0	310	N 50 W
10147.0	8.00	6.6	167	S 13 E	100	46.0	310	N 50 W
10149.0	8.00	6.7	153	S 27 E	100	46.1	310	N 50 W
10151.0	8.00	4.2	174	S 6 E	100	46.1	310	N 50 W
10153.0	8.00	6.9	172	S 8 E	100	46.1	310	N 50 W
10155.0	8.00	9.0	175	S 5 E	100	46.2	310	N 50 W
10159.0	8.00	12.9	170	S 10 E	100	46.3	310	N 50 W
10161.0	8.00	12.9	170	S 10 E	100	46.2	310	N 50 W
10163.0	8.00	15.2	170	S 10 E	100	46.3	310	N 50 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
10165.0	8.00	12.9	186	S 6 W	100	46.3	310	N 50 W
10167.0	8.00	10.8	178	S 2 E	100	46.4	310	N 50 W
10169.0	8.00	11.7	189	S 9 W	100	46.4	310	N 50 W
10171.0	8.00	13.6	191	S 11 W	100	46.5	310	N 50 W
10173.0	8.00	11.2	192	S 12 W	100	46.5	310	N 50 W
10175.0	8.00	10.1	190	S 10 W	100	46.5	310	N 50 W
10177.0	8.00	11.6	191	S 11 W	100	46.7	310	N 50 W
10179.0	8.00	9.5	184	S 4 W	100	46.7	310	N 50 W
10181.0	8.00	9.0	180	S 0 E	100	46.8	310	N 50 W
10183.0	8.00	10.1	184	S 4 W	100	46.8	310	N 50 W
10185.0	8.00	7.1	168	S 12 E	100	46.8	310	N 50 W
10187.0	8.00	10.1	176	S 4 E	100	46.9	310	N 50 W
10189.0	8.00	11.3	181	S 1 W	100	46.9	310	N 50 W
10191.0	8.00	10.2	183	S 3 W	100	47.0	310	N 50 W
10193.0	8.00	12.0	180	S 0 E	100	47.0	310	N 50 W
10195.0	8.00	12.4	170	S 10 E	100	47.1	310	N 50 W
10197.0	8.00	11.8	166	S 14 E	100	47.2	310	N 50 W
10199.0	8.00	11.7	174	S 6 E	100	47.2	310	N 50 W
10201.0	8.00	10.7	177	S 3 E	100	47.3	310	N 50 W
10203.0	8.00	9.7	179	S 1 E	100	47.3	310	N 50 W
10205.0	8.00	8.7	185	S 5 W	100	47.3	310	N 50 W
10207.0	8.00	8.5	166	S 14 E	100	47.4	310	N 50 W
10209.0	8.00	9.9	169	S 11 E	100	47.4	310	N 50 W
10211.0	8.00	10.8	174	S 6 E	100	47.5	310	N 50 W
10213.0	8.00	11.1	175	S 5 E	100	47.5	310	N 50 W
10215.0	8.00	11.0	175	S 5 E	100	47.6	310	N 50 W
10217.0	8.00	9.3	170	S 10 E	100	47.6	310	N 50 W
10219.0	8.00	11.5	166	S 14 E	100	47.7	310	N 50 W
10221.0	8.00	10.4	178	S 2 E	100	47.7	310	N 50 W
10223.0	8.00	9.7	170	S 10 E	100	47.8	310	N 50 W
10225.0	8.00	7.6	181	S 1 W	100	47.8	310	N 50 W
10227.0	8.00	7.7	179	S 1 E	100	47.8	310	N 50 W
10229.0	8.00	9.4	174	S 6 E	100	47.9	310	N 50 W
10231.0	8.00	8.8	182	S 2 W	100	48.0	310	N 50 W
10233.0	8.00	8.5	187	S 7 W	100	48.0	310	N 50 W
10235.0	8.00	9.0	188	S 8 W	100	48.1	310	N 50 W
10237.0	8.00	10.4	187	S 7 W	100	48.1	310	N 50 W
10239.0	8.00	11.1	180	S 0 E	100	48.2	310	N 50 W
10241.0	8.00	11.1	178	S 2 E	100	48.2	310	N 50 W
10243.0	8.00	10.8	185	S 5 W	100	48.3	310	N 50 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
10245.0	8.00	10.6	176	S 4 E	100	48.4	310	N 50 W
10247.0	8.00	8.3	177	S 3 E	100	48.4	310	N 50 W
10249.0	8.00	11.3	182	S 2 W	100	48.5	310	N 50 W
10251.0	8.00	12.0	182	S 2 W	100	48.5	310	N 50 W
10253.0	8.00	10.8	182	S 2 W	100	48.6	310	N 50 W
10255.0	8.00	9.5	181	S 1 W	100	48.6	310	N 50 W
10257.0	8.00	12.5	192	S 12 W	100	48.7	310	N 50 W
10259.0	8.00	12.8	192	S 12 W	100	48.7	310	N 50 W
10261.0	8.00	10.9	186	S 6 W	100	48.8	310	N 50 W
10263.0	8.00	10.5	185	S 5 W	100	48.8	310	N 50 W
10265.0	8.00	9.5	190	S 10 W	100	48.9	310	N 50 W
10267.0	8.00	9.3	190	S 10 W	100	48.9	310	N 50 W
10269.0	8.00	9.6	175	S 5 E	100	48.9	310	N 50 W
10271.0	8.00	9.0	184	S 4 W	100	49.0	310	N 50 W
10273.0	8.00	7.4	161	S 19 E	100	49.1	310	N 50 W
10275.0	8.00	7.6	167	S 13 E	100	49.1	310	N 50 W
10281.0	8.00	4.5	177	S 3 E	100	49.2	310	N 50 W
10283.0	8.00	5.1	174	S 6 E	100	49.3	310	N 50 W
10285.0	8.00	8.8	169	S 11 E	100	49.4	310	N 50 W
10287.0	8.00	5.0	194	S 14 W	100	49.4	309	N 51 W
10289.0	8.00	5.7	196	S 16 W	100	49.5	310	N 50 W
10291.0	8.00	6.2	170	S 10 E	100	49.6	310	N 50 W
10295.0	8.00	3.9	137	S 43 E	100	49.6	309	N 51 W
10297.0	8.00	5.5	144	S 36 E	88	49.7	309	N 51 W
10299.0	8.00	6.2	156	S 24 E	100	49.7	309	N 51 W
10301.0	8.00	7.4	154	S 26 E	100	49.7	309	N 51 W
10303.0	8.00	6.5	155	S 25 E	100	49.8	309	N 51 W
10305.0	8.00	5.7	153	S 27 E	100	49.8	309	N 51 W
10307.0	8.00	6.9	162	S 18 E	100	49.9	309	N 51 W
10309.0	8.00	4.2	145	S 35 E	100	49.9	309	N 51 W
10313.0	8.00	11.7	178	S 2 E	100	50.1	309	N 51 W
10315.0	8.00	9.4	196	S 16 W	100	50.0	309	N 51 W
10317.0	8.00	4.2	189	S 9 W	100	50.1	309	N 51 W
10319.0	8.00	7.3	194	S 14 W	100	50.2	309	N 51 W
10321.0	8.00	6.7	192	S 12 W	100	50.2	309	N 51 W
10323.0	8.00	2.7	159	S 21 E	100	50.3	309	N 51 W
10325.0	8.00	7.4	160	S 20 E	100	50.3	309	N 51 W
10327.0	8.00	1.8	145	S 35 E	100	50.4	309	N 51 W
10329.0	8.00	6.1	195	S 15 W	100	50.4	309	N 51 W
10331.0	8.00	6.5	198	S 18 W	100	50.4	309	N 51 W

CHEVRON U.S.A.,INC.
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POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
10333.0	8.00	5.0	142	S 38 E	100	50.5	309	N 51 W
10335.0	8.00	4.1	152	S 28 E	100	50.6	309	N 51 W
10337.0	8.00	3.2	161	S 19 E	100	50.6	309	N 51 W
10339.0	8.00	14.7	199	S 19 W	99	50.6	309	N 51 W
10351.0	8.00	4.2	230	S 50 W	100	50.7	309	N 51 W
10353.0	8.00	6.1	210	S 30 W	100	50.8	309	N 51 W
10355.0	8.00	5.7	187	S 7 W	100	50.9	309	N 51 W
10357.0	8.00	12.9	185	S 5 W	100	50.8	309	N 51 W
10359.0	8.00	9.0	218	S 38 W	100	50.9	309	N 51 W
10361.0	8.00	12.4	232	S 52 W	100	51.0	309	N 51 W
10363.0	8.00	13.2	225	S 45 W	100	50.9	309	N 51 W
10365.0	8.00	14.3	228	S 48 W	100	51.0	309	N 51 W
10367.0	8.00	8.4	210	S 30 W	100	51.1	309	N 51 W
10369.0	8.00	17.1	234	S 54 W	24	51.0	309	N 51 W
10375.0	8.00	6.2	330	N 30 W	72	51.2	309	N 51 W
10377.0	8.00	2.6	336	N 24 W	100	51.3	309	N 51 W
10379.0	8.00	2.9	351	N 9 W	100	51.3	309	N 51 W
10381.0	8.00	5.9	349	N 11 W	92	51.3	309	N 51 W
10383.0	8.00	1.8	29	N 29 E	100	51.4	309	N 51 W
10389.0	8.00	1.5	39	N 39 E	100	51.4	309	N 51 W
10391.0	8.00	2.5	41	N 41 E	100	51.5	309	N 51 W
10395.0	8.00	7.1	63	N 63 E	100	51.6	309	N 51 W
10397.0	8.00	4.0	89	N 89 E	100	51.6	309	N 51 W
10399.0	8.00	7.0	90	N 90 E	100	51.7	309	N 51 W
10403.0	8.00	26.0	46	N 46 E	88	51.8	309	N 51 W
10409.0	8.00	15.0	33	N 33 E	100	51.8	308	N 52 W
10411.0	8.00	9.1	25	N 25 E	100	51.8	308	N 52 W
10417.0	8.00	7.3	344	N 16 W	100	51.9	307	N 53 W
10419.0	8.00	6.3	317	N 43 W	91	51.9	307	N 53 W
10427.0	8.00	7.6	294	N 66 W	37	52.1	307	N 53 W
10429.0	8.00	7.4	307	N 53 W	37	52.1	307	N 53 W
10431.0	8.00	11.4	282	N 78 W	100	52.1	307	N 53 W
10435.0	8.00	7.8	271	N 89 W	100	52.1	307	N 53 W
10439.0	8.00	25.6	225	S 45 W	100	52.2	307	N 53 W
10441.0	8.00	19.8	239	S 59 W	100	52.2	307	N 53 W
10443.0	8.00	14.7	247	S 67 W	100	52.3	307	N 53 W
10445.0	8.00	6.3	296	N 64 W	49	52.3	307	N 53 W
10447.0	8.00	21.4	52	N 52 E	79	52.2	307	N 53 W
10449.0	8.00	15.4	43	N 43 E	100	52.3	307	N 53 W
10451.0	8.00	15.4	43	N 43 E	100	52.4	307	N 53 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
10453.0	8.00	12.8	32	N 32 E	79	52.5	307	N 53 W
10455.0	8.00	6.9	315	N 45 W	81	52.5	307	N 53 W
10457.0	8.00	7.5	191	S 11 W	100	52.5	307	N 53 W
10459.0	8.00	22.4	167	S 13 E	100	52.6	307	N 53 W
10461.0	8.00	39.5	164	S 16 E	100	52.6	307	N 53 W
10463.0	8.00	30.1	208	S 28 W	61	52.6	307	N 53 W
10465.0	8.00	30.5	209	S 29 W	61	52.7	307	N 53 W
10469.0	8.00	33.2	205	S 25 W	46	52.8	307	N 53 W
10477.0	8.00	33.0	195	S 15 W	71	52.9	307	N 53 W
10479.0	8.00	8.9	208	S 28 W	100	53.0	307	N 53 W
10481.0	8.00	28.8	201	S 21 W	100	53.1	307	N 53 W
10483.0	8.00	28.5	201	S 21 W	100	53.1	307	N 53 W
10487.0	8.00	36.7	217	S 37 W	100	53.2	307	N 53 W
10489.0	8.00	8.3	190	S 10 W	65	53.3	307	N 53 W
10493.0	8.00	20.9	255	S 75 W	60	53.3	307	N 53 W
10507.0	8.00	11.2	241	S 61 W	100	53.5	307	N 53 W
10511.0	8.00	25.3	218	S 38 W	71	53.5	307	N 53 W
10515.0	8.00	29.0	223	S 43 W	89	53.4	307	N 53 W
10517.0	8.00	29.6	224	S 44 W	94	53.4	307	N 53 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9813.0	8.00	13.4	15	N 15 E	100	41.1	314	N 46 W
9815.0	8.00	3.6	16	N 16 E	100	41.1	314	N 46 W
9817.0	8.00	8.9	73	N 73 E	100	41.1	314	N 46 W
9819.0	8.00	8.7	98	S 82 E	100	41.1	314	N 46 W
9821.0	8.00	9.4	113	S 67 E	100	41.1	314	N 46 W
9823.0	8.00	6.2	115	S 65 E	100	41.0	314	N 46 W
9825.0	8.00	35.2	100	S 80 E	92	41.1	314	N 46 W
9827.0	8.00	10.3	348	N 12 W	55	41.1	314	N 46 W
9829.0	8.00	18.3	17	N 17 E	100	41.2	314	N 46 W
9831.0	8.00	4.9	36	N 36 E	100	41.2	314	N 46 W
9835.0	8.00	9.2	42	N 42 E	100	41.1	314	N 46 W
9837.0	8.00	9.9	52	N 52 E	100	41.2	314	N 46 W
9839.0	8.00	7.5	73	N 73 E	100	41.2	314	N 46 W
9841.0	8.00	7.5	99	S 81 E	100	41.1	314	N 46 W
9843.0	8.00	6.9	90	N 90 E	100	41.2	314	N 46 W
9845.0	8.00	8.1	84	N 84 E	100	41.2	314	N 46 W
9847.0	8.00	6.6	85	N 85 E	100	41.2	314	N 46 W
9849.0	8.00	6.6	84	N 84 E	100	41.2	314	N 46 W
9851.0	8.00	8.5	80	N 80 E	100	41.2	314	N 46 W
9853.0	8.00	10.2	75	N 75 E	100	41.2	314	N 46 W
9855.0	8.00	9.4	79	N 79 E	100	41.2	314	N 46 W
9857.0	8.00	8.8	71	N 71 E	100	41.2	314	N 46 W
9859.0	8.00	8.4	91	S 89 E	100	41.3	314	N 46 W
9861.0	8.00	12.0	62	N 62 E	100	41.3	314	N 46 W
9867.0	8.00	2.5	31	N 31 E	100	41.3	314	N 46 W
9869.0	8.00	6.6	57	N 57 E	100	41.3	314	N 46 W
9871.0	8.00	6.4	67	N 67 E	100	41.3	314	N 46 W
9873.0	8.00	8.3	79	N 79 E	100	41.3	314	N 46 W
9875.0	8.00	9.0	84	N 84 E	100	41.3	314	N 46 W
9877.0	8.00	6.9	84	N 84 E	100	41.4	314	N 46 W
9879.0	8.00	6.0	79	N 79 E	100	41.3	313	N 47 W
9881.0	8.00	8.9	59	N 59 E	100	41.4	313	N 47 W
9883.0	8.00	8.9	58	N 58 E	100	41.4	314	N 46 W
9885.0	8.00	6.8	60	N 60 E	100	41.4	313	N 47 W
9887.0	8.00	9.8	55	N 55 E	100	41.4	313	N 47 W
9889.0	8.00	9.4	53	N 53 E	100	41.4	313	N 47 W
9891.0	8.00	11.9	47	N 47 E	100	41.5	313	N 47 W
9893.0	8.00	11.3	51	N 51 E	100	41.5	313	N 47 W
9895.0	8.00	11.3	50	N 50 E	100	41.6	313	N 47 W
9897.0	8.00	12.5	50	N 50 E	100	41.6	313	N 47 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
01-06-88

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9725.0	8.00	4.9	110	S 70 E	100	40.6	315	N 45 W
9727.0	8.00	5.8	116	S 64 E	100	40.5	315	N 45 W
9729.0	8.00	5.9	123	S 57 E	100	40.5	315	N 45 W
9731.0	8.00	6.2	124	S 56 E	100	40.6	315	N 45 W
9733.0	8.00	5.8	118	S 62 E	100	40.6	315	N 45 W
9735.0	8.00	5.5	109	S 71 E	100	40.5	315	N 45 W
9737.0	8.00	6.0	94	S 86 E	100	40.6	315	N 45 W
9739.0	8.00	7.2	80	N 80 E	100	40.5	315	N 45 W
9741.0	8.00	8.4	76	N 76 E	81	40.6	315	N 45 W
9743.0	8.00	7.5	90	N 90 E	84	40.6	315	N 45 W
9745.0	8.00	6.4	98	S 82 E	100	40.6	315	N 45 W
9747.0	8.00	7.5	110	S 70 E	100	40.6	315	N 45 W
9749.0	8.00	6.5	101	S 79 E	100	40.6	315	N 45 W
9751.0	8.00	7.1	118	S 62 E	100	40.6	315	N 45 W
9753.0	8.00	7.2	117	S 63 E	100	40.6	315	N 45 W
9755.0	8.00	7.0	120	S 60 E	100	40.6	314	N 46 W
9757.0	8.00	7.4	113	S 67 E	100	40.7	314	N 46 W
9759.0	8.00	6.7	109	S 71 E	100	40.7	314	N 46 W
9761.0	8.00	6.2	108	S 72 E	100	40.7	314	N 46 W
9763.0	8.00	5.8	111	S 69 E	100	40.7	314	N 46 W
9765.0	8.00	7.1	106	S 74 E	100	40.7	314	N 46 W
9767.0	8.00	8.2	122	S 58 E	100	40.7	314	N 46 W
9769.0	8.00	8.4	112	S 68 E	100	40.7	314	N 46 W
9771.0	8.00	8.3	110	S 70 E	100	40.7	314	N 46 W
9773.0	8.00	8.0	107	S 73 E	100	40.8	314	N 46 W
9775.0	8.00	7.3	101	S 79 E	100	40.8	314	N 46 W
9777.0	8.00	7.9	99	S 81 E	100	40.8	314	N 46 W
9779.0	8.00	6.0	81	N 81 E	100	40.9	314	N 46 W
9781.0	8.00	6.2	77	N 77 E	100	40.9	314	N 46 W
9783.0	8.00	6.3	79	N 79 E	100	40.9	314	N 46 W
9785.0	8.00	7.1	102	S 78 E	100	40.9	314	N 46 W
9787.0	8.00	7.8	119	S 61 E	100	40.9	314	N 46 W
9789.0	8.00	7.8	126	S 54 E	100	40.9	314	N 46 W
9791.0	8.00	9.6	127	S 53 E	100	40.9	314	N 46 W
9793.0	8.00	8.8	39	N 39 E	53	40.9	314	N 46 W
9795.0	8.00	7.7	38	N 38 E	100	41.0	314	N 46 W
9799.0	8.00	3.1	327	N 33 W	100	41.0	314	N 46 W
9801.0	8.00	2.3	355	N 5 W	100	41.0	314	N 46 W
9805.0	8.00	5.5	333	N 27 W	100	41.0	314	N 46 W
9811.0	8.00	23.9	1	N 1 E	100	41.1	314	N 46 W

CHEVRON U.S.A., INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
01-06-88

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9643.0	8.00	10.6	113	S 67 E	100	41.8	316	N 44 W
9647.0	8.00	10.7	106	S 74 E	100	41.7	316	N 44 W
9649.0	8.00	8.0	99	S 81 E	100	41.6	316	N 44 W
9651.0	8.00	8.8	108	S 72 E	100	41.6	316	N 44 W
9653.0	8.00	7.2	106	S 74 E	100	41.6	316	N 44 W
9655.0	8.00	6.9	110	S 70 E	100	41.6	316	N 44 W
9657.0	8.00	6.1	104	S 76 E	100	41.5	316	N 44 W
9659.0	8.00	6.7	109	S 71 E	100	41.4	316	N 44 W
9661.0	8.00	7.4	101	S 79 E	100	41.4	316	N 44 W
9663.0	8.00	7.2	111	S 69 E	100	41.3	315	N 45 W
9665.0	8.00	7.4	99	S 81 E	100	41.3	316	N 44 W
9667.0	8.00	7.2	99	S 81 E	100	41.3	316	N 44 W
9669.0	8.00	7.3	94	S 86 E	100	41.2	315	N 45 W
9671.0	8.00	9.1	110	S 70 E	100	41.2	315	N 45 W
9673.0	8.00	6.5	88	N 88 E	100	41.2	315	N 45 W
9675.0	8.00	8.2	109	S 71 E	100	41.2	315	N 45 W
9677.0	8.00	5.6	95	S 85 E	100	41.1	315	N 45 W
9679.0	8.00	6.6	89	N 89 E	100	41.1	315	N 45 W
9681.0	8.00	10.5	100	S 80 E	100	41.1	315	N 45 W
9683.0	8.00	12.6	101	S 79 E	100	41.1	315	N 45 W
9685.0	8.00	9.8	121	S 59 E	100	41.0	315	N 45 W
9687.0	8.00	10.1	111	S 69 E	100	41.0	315	N 45 W
9689.0	8.00	8.1	113	S 67 E	100	40.9	315	N 45 W
9691.0	8.00	8.4	106	S 74 E	100	41.0	315	N 45 W
9693.0	8.00	8.9	112	S 68 E	100	40.9	315	N 45 W
9695.0	8.00	8.9	113	S 67 E	100	40.8	315	N 45 W
9697.0	8.00	8.3	115	S 65 E	100	40.8	315	N 45 W
9699.0	8.00	7.5	124	S 56 E	100	40.8	315	N 45 W
9701.0	8.00	8.0	129	S 51 E	100	40.7	315	N 45 W
9703.0	8.00	7.3	134	S 46 E	100	40.7	315	N 45 W
9705.0	8.00	8.7	125	S 55 E	100	40.7	315	N 45 W
9707.0	8.00	8.0	124	S 56 E	100	40.7	315	N 45 W
9709.0	8.00	3.7	106	S 74 E	100	40.7	315	N 45 W
9711.0	8.00	3.5	77	N 77 E	100	40.7	315	N 45 W
9713.0	8.00	5.5	90	N 90 E	100	40.7	315	N 45 W
9715.0	8.00	4.2	95	S 85 E	100	40.6	315	N 45 W
9717.0	8.00	9.1	101	S 79 E	100	40.6	315	N 45 W
9719.0	8.00	8.6	98	S 82 E	100	40.6	315	N 45 W
9721.0	8.00	5.9	102	S 78 E	100	40.5	315	N 45 W
9723.0	8.00	6.2	107	S 73 E	100	40.6	315	N 45 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
01-06-88

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9563.0	8.00	7.9	104	S 76 E	100	43.1	316	N 44 W
9565.0	8.00	6.4	120	S 60 E	100	43.1	316	N 44 W
9567.0	8.00	6.8	134	S 46 E	100	43.0	316	N 44 W
9569.0	8.00	5.1	112	S 68 E	100	43.0	316	N 44 W
9571.0	8.00	5.6	114	S 66 E	100	43.0	316	N 44 W
9573.0	8.00	7.1	78	N 78 E	100	42.9	316	N 44 W
9575.0	8.00	6.7	82	N 82 E	100	42.9	316	N 44 W
9577.0	8.00	6.9	77	N 77 E	100	42.9	316	N 44 W
9579.0	8.00	8.9	117	S 63 E	100	42.9	316	N 44 W
9581.0	8.00	8.2	114	S 66 E	100	42.8	316	N 44 W
9583.0	8.00	8.6	113	S 67 E	100	42.7	316	N 44 W
9585.0	8.00	8.1	110	S 70 E	100	42.8	316	N 44 W
9587.0	8.00	8.0	109	S 71 E	100	42.8	316	N 44 W
9589.0	8.00	7.8	106	S 74 E	100	42.7	316	N 44 W
9591.0	8.00	7.1	103	S 77 E	100	42.6	316	N 44 W
9593.0	8.00	4.8	86	N 86 E	100	42.6	316	N 44 W
9595.0	8.00	5.8	107	S 73 E	100	42.5	316	N 44 W
9597.0	8.00	2.6	91	S 89 E	100	42.5	316	N 44 W
9599.0	8.00	6.0	125	S 55 E	100	42.5	316	N 44 W
9601.0	8.00	6.8	126	S 54 E	100	42.5	316	N 44 W
9603.0	8.00	6.0	139	S 41 E	100	42.4	316	N 44 W
9605.0	8.00	3.6	126	S 54 E	100	42.3	316	N 44 W
9607.0	8.00	4.1	117	S 63 E	100	42.4	316	N 44 W
9609.0	8.00	4.0	113	S 67 E	100	42.4	316	N 44 W
9611.0	8.00	3.8	118	S 62 E	100	42.3	316	N 44 W
9613.0	8.00	6.6	109	S 71 E	100	42.2	316	N 44 W
9615.0	8.00	3.2	116	S 64 E	100	42.3	316	N 44 W
9617.0	8.00	5.4	119	S 61 E	98	42.2	316	N 44 W
9619.0	8.00	7.3	109	S 71 E	100	42.2	316	N 44 W
9621.0	8.00	6.7	117	S 63 E	100	42.1	316	N 44 W
9623.0	8.00	6.2	116	S 64 E	100	42.0	316	N 44 W
9625.0	8.00	7.6	111	S 69 E	100	42.0	316	N 44 W
9627.0	8.00	8.5	110	S 70 E	100	42.0	316	N 44 W
9629.0	8.00	8.0	106	S 74 E	100	42.0	316	N 44 W
9631.0	8.00	8.8	106	S 74 E	100	41.9	316	N 44 W
9633.0	8.00	8.6	113	S 67 E	100	41.9	316	N 44 W
9635.0	8.00	8.8	106	S 74 E	100	41.9	316	N 44 W
9637.0	8.00	7.8	112	S 68 E	100	41.8	316	N 44 W
9639.0	8.00	8.3	121	S 59 E	100	41.8	316	N 44 W
9641.0	8.00	8.1	124	S 56 E	100	41.8	316	N 44 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
01-06-88

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9483.0	8.00	7.0	175	S 5 E	100	44.5	316	N 44 W
9485.0	8.00	4.5	176	S 4 E	100	44.5	316	N 44 W
9487.0	8.00	4.3	168	S 12 E	100	44.5	316	N 44 W
9489.0	8.00	5.0	145	S 35 E	100	44.3	316	N 44 W
9491.0	8.00	8.5	130	S 50 E	100	44.5	316	N 44 W
9493.0	8.00	6.4	116	S 64 E	100	44.3	316	N 44 W
9495.0	8.00	9.8	112	S 68 E	100	44.4	316	N 44 W
9497.0	8.00	8.2	117	S 63 E	100	44.3	316	N 44 W
9499.0	8.00	7.2	105	S 75 E	100	44.3	316	N 44 W
9501.0	8.00	7.1	119	S 61 E	100	44.3	316	N 44 W
9503.0	8.00	6.2	125	S 55 E	100	44.3	316	N 44 W
9505.0	8.00	5.9	99	S 81 E	100	44.2	316	N 44 W
9507.0	8.00	6.7	99	S 81 E	100	44.2	316	N 44 W
9509.0	8.00	8.3	112	S 68 E	100	44.2	316	N 44 W
9511.0	8.00	8.2	114	S 66 E	100	44.1	316	N 44 W
9513.0	8.00	7.5	101	S 79 E	100	44.1	316	N 44 W
9515.0	8.00	7.5	103	S 77 E	100	44.0	316	N 44 W
9517.0	8.00	6.6	108	S 72 E	100	44.0	316	N 44 W
9519.0	8.00	6.9	117	S 63 E	100	44.0	316	N 44 W
9521.0	8.00	6.0	117	S 63 E	100	43.9	316	N 44 W
9523.0	8.00	6.7	117	S 63 E	100	43.9	316	N 44 W
9525.0	8.00	6.9	117	S 63 E	100	43.8	316	N 44 W
9527.0	8.00	5.5	153	S 27 E	100	43.8	316	N 44 W
9529.0	8.00	7.9	138	S 42 E	100	43.8	316	N 44 W
9531.0	8.00	7.3	117	S 63 E	100	43.8	316	N 44 W
9533.0	8.00	9.0	108	S 72 E	100	43.6	316	N 44 W
9535.0	8.00	9.6	100	S 80 E	100	43.7	316	N 44 W
9537.0	8.00	7.6	107	S 73 E	100	43.6	316	N 44 W
9539.0	8.00	7.3	121	S 59 E	100	43.5	316	N 44 W
9541.0	8.00	5.4	117	S 63 E	100	43.5	316	N 44 W
9543.0	8.00	4.6	105	S 75 E	100	43.4	316	N 44 W
9545.0	8.00	10.0	139	S 41 E	100	43.5	316	N 44 W
9547.0	8.00	7.8	133	S 47 E	100	43.4	316	N 44 W
9549.0	8.00	6.3	127	S 53 E	100	43.3	316	N 44 W
9551.0	8.00	6.7	123	S 57 E	100	43.3	316	N 44 W
9553.0	8.00	8.1	134	S 46 E	100	43.3	316	N 44 W
9555.0	8.00	7.5	128	S 52 E	100	43.3	316	N 44 W
9557.0	8.00	6.5	125	S 55 E	100	43.2	316	N 44 W
9559.0	8.00	5.6	90	N 90 E	100	43.2	316	N 44 W
9561.0	8.00	7.8	90	N 90 E	100	43.2	316	N 44 W

RUN # 2

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 7 RUN 2
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
01-06-88

INTERVAL 9412.0 TO 10521.0
RUN 2 RLAC 12109.
ENGINEER WILSON MR. YCUNSE MAG DEC 13.

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* CHEVRON          12109 SL=12,WL=8,ST=2        *
*                                               *
*     4     0     0     0     0                 *
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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9419.0	8.00	6.2	224	S 44 W	100	44.7	330	N 30 W
9423.0	8.00	8.7	208	S 28 W	100	44.6	338	N 22 W
9425.0	8.00	4.0	208	S 28 W	100	44.8	2	N 2 E
9427.0	8.00	6.1	141	S 39 E	100	44.7	350	N 10 W
9429.0	8.00	9.9	146	S 34 E	100	44.6	44	N 44 E
9435.0	8.00	2.1	88	N 88 E	100	44.5	303	N 57 W
9437.0	8.00	3.6	112	S 68 E	100	44.4	309	N 51 W
9439.0	8.00	6.6	134	S 46 E	100	44.5	312	N 48 W
9441.0	8.00	4.7	122	S 58 E	100	44.5	313	N 47 W
9443.0	8.00	5.0	115	S 65 E	100	44.6	314	N 46 W
9445.0	8.00	5.7	101	S 79 E	100	44.5	314	N 46 W
9447.0	8.00	8.7	121	S 59 E	100	44.6	315	N 45 W
9449.0	8.00	4.3	97	S 83 E	100	44.8	315	N 45 W
9451.0	8.00	7.0	105	S 75 E	100	44.7	315	N 45 W
9453.0	8.00	4.4	88	N 88 E	100	44.5	315	N 45 W
9455.0	8.00	5.0	126	S 54 E	100	44.5	315	N 45 W
9457.0	8.00	6.1	96	S 84 E	100	44.6	316	N 44 W
9459.0	8.00	5.7	110	S 70 E	100	44.6	316	N 44 W
9461.0	8.00	5.7	95	S 85 E	100	44.4	316	N 44 W
9463.0	8.00	6.3	117	S 63 E	84	44.5	316	N 44 W
9465.0	8.00	7.5	101	S 79 E	100	44.5	316	N 44 W
9467.0	8.00	5.5	112	S 68 E	100	44.5	316	N 44 W
9469.0	8.00	7.3	140	S 40 E	100	44.5	316	N 44 W
9471.0	8.00	7.5	145	S 35 E	100	44.6	316	N 44 W
9473.0	8.00	5.1	130	S 50 E	100	44.5	316	N 44 W
9475.0	8.00	6.7	92	S 88 E	100	44.4	316	N 44 W
9477.0	8.00	8.4	87	N 87 E	100	44.5	316	N 44 W
9479.0	8.00	8.5	83	N 83 E	100	44.6	316	N 44 W
9481.0	8.00	5.8	92	S 88 E	100	44.4	316	N 44 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9389.0	8.00	12.7	102	S 78 E	100	45.2	313	N 47 W
9391.0	8.00	14.6	79	N 79 E	100	45.2	313	N 47 W
9393.0	8.00	16.3	67	N 67 E	100	45.0	313	N 47 W
9395.0	8.00	17.7	55	N 55 E	77	45.2	313	N 47 W
9397.0	8.00	5.3	67	N 67 E	100	45.2	313	N 47 W
9399.0	8.00	2.5	91	S 89 E	100	45.2	313	N 47 W
9401.0	8.00	6.9	74	N 74 E	100	45.2	313	N 47 W
9403.0	8.00	2.5	104	S 76 E	100	45.2	313	N 47 W
9405.0	8.00	3.2	88	N 88 E	100	45.2	313	N 47 W
9407.0	8.00	7.9	139	S 41 E	100	45.2	313	N 47 W
9409.0	8.00	11.1	118	S 62 E	86	45.2	313	N 47 W
9411.0	8.00	7.0	126	S 54 E	96	45.0	312	N 48 W
9421.0	8.00	33.0	124	S 56 E	83	45.1	313	N 47 W
9423.0	8.00	15.6	75	N 75 E	100	45.1	313	N 47 W
9425.0	8.00	16.6	84	N 84 E	86	45.1	313	N 47 W
9427.0	8.00	15.5	42	N 42 E	100	45.1	314	N 46 W
9429.0	8.00	15.5	43	N 43 E	100	45.1	314	N 46 W
9431.0	8.00	15.7	40	N 40 E	100	45.1	314	N 46 W
9433.0	8.00	28.0	120	S 60 E	100	45.1	314	N 46 W
9435.0	8.00	28.1	120	S 60 E	98	45.1	314	N 46 W
9437.0	8.00	28.1	120	S 60 E	100	45.1	314	N 46 W

CHEVRON U.S.A., INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9287.0	8.00	28.6	219	S 39 W	96	45.4	313	N 47 W
9299.0	8.00	15.8	242	S 62 W	62	45.4	313	N 47 W
9301.0	8.00	34.8	210	S 30 W	85	45.4	313	N 47 W
9303.0	8.00	12.4	195	S 15 W	67	45.4	313	N 47 W
9305.0	8.00	3.2	171	S 9 E	100	45.2	313	N 47 W
9307.0	8.00	3.7	164	S 16 E	98	45.4	313	N 47 W
9309.0	8.00	7.6	62	N 62 E	100	45.3	313	N 47 W
9311.0	8.00	7.1	81	N 81 E	100	45.4	313	N 47 W
9313.0	8.00	8.0	78	N 78 E	100	45.4	313	N 47 W
9315.0	8.00	4.7	102	S 78 E	100	45.4	313	N 47 W
9317.0	8.00	4.5	104	S 76 E	100	45.4	313	N 47 W
9319.0	8.00	4.5	98	S 82 E	100	45.4	313	N 47 W
9321.0	8.00	4.8	91	S 89 E	100	45.4	313	N 47 W
9323.0	8.00	5.5	97	S 83 E	100	45.4	313	N 47 W
9325.0	8.00	5.7	85	N 85 E	100	45.4	313	N 47 W
9327.0	8.00	5.3	91	S 89 E	100	45.4	313	N 47 W
9329.0	8.00	3.9	88	N 88 E	100	45.4	313	N 47 W
9335.0	8.00	5.6	162	S 18 E	100	45.4	313	N 47 W
9337.0	8.00	5.2	142	S 38 E	100	45.3	313	N 47 W
9341.0	8.00	6.1	126	S 54 E	100	45.3	313	N 47 W
9343.0	8.00	7.1	124	S 56 E	100	45.3	313	N 47 W
9345.0	8.00	7.7	125	S 55 E	100	45.4	313	N 47 W
9347.0	8.00	4.9	90	N 90 E	100	45.3	313	N 47 W
9351.0	8.00	8.7	54	N 54 E	100	45.3	313	N 47 W
9353.0	8.00	25.5	59	N 59 E	100	45.2	313	N 47 W
9355.0	8.00	20.5	65	N 65 E	100	45.3	313	N 47 W
9357.0	8.00	9.4	81	N 81 E	100	45.3	313	N 47 W
9359.0	8.00	6.2	108	S 72 E	100	45.4	313	N 47 W
9361.0	8.00	7.1	118	S 62 E	100	45.4	313	N 47 W
9363.0	8.00	4.5	131	S 49 E	100	45.3	313	N 47 W
9365.0	8.00	5.5	94	S 86 E	100	45.4	313	N 47 W
9367.0	8.00	5.3	95	S 85 E	100	45.3	313	N 47 W
9369.0	8.00	7.0	97	S 83 E	100	45.3	313	N 47 W
9371.0	8.00	7.1	108	S 72 E	100	45.3	313	N 47 W
9373.0	8.00	6.1	111	S 69 E	100	45.3	313	N 47 W
9375.0	8.00	11.7	114	S 66 E	99	45.3	313	N 47 W
9377.0	8.00	6.3	127	S 53 E	100	45.3	313	N 47 W
9379.0	8.00	7.7	150	S 30 E	78	45.3	313	N 47 W
9385.0	8.00	17.2	167	S 13 E	62	45.2	313	N 47 W
9387.0	8.00	10.5	142	S 38 E	87	45.2	313	N 47 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9187.0	8.00	10.4	119	S 61 E	100	45.4	313	N 47 W
9191.0	8.00	11.7	127	S 53 E	100	45.3	313	N 47 W
9193.0	8.00	9.7	94	S 86 E	100	45.2	313	N 47 W
9195.0	8.00	10.1	87	N 87 E	100	45.4	313	N 47 W
9197.0	8.00	5.9	119	S 61 E	90	45.4	313	N 47 W
9203.0	8.00	6.1	120	S 60 E	57	45.4	313	N 47 W
9205.0	8.00	5.2	115	S 65 E	100	45.4	313	N 47 W
9207.0	8.00	5.2	118	S 62 E	100	45.4	313	N 47 W
9211.0	8.00	5.5	163	S 17 E	100	45.5	313	N 47 W
9213.0	8.00	1.7	155	S 25 E	100	45.3	313	N 47 W
9221.0	8.00	0.7	97	S 83 E	100	45.4	313	N 47 W
9223.0	8.00	1.9	125	S 55 E	100	45.4	313	N 47 W
9227.0	8.00	6.2	127	S 53 E	100	45.4	313	N 47 W
9229.0	8.00	8.4	136	S 44 E	100	45.3	313	N 47 W
9231.0	8.00	8.8	125	S 55 E	100	45.3	313	N 47 W
9233.0	8.00	6.8	124	S 56 E	100	45.3	313	N 47 W
9235.0	8.00	4.4	131	S 49 E	100	45.3	313	N 47 W
9237.0	8.00	4.5	139	S 41 E	100	45.4	313	N 47 W
9239.0	8.00	4.5	137	S 43 E	84	45.4	313	N 47 W
9241.0	8.00	5.9	125	S 55 E	100	45.3	313	N 47 W
9243.0	8.00	6.7	110	S 70 E	100	45.3	313	N 47 W
9245.0	8.00	4.3	121	S 59 E	100	45.3	313	N 47 W
9247.0	8.00	4.7	104	S 76 E	100	45.3	313	N 47 W
9249.0	8.00	3.0	134	S 46 E	100	45.3	313	N 47 W
9251.0	8.00	2.9	122	S 58 E	100	45.3	313	N 47 W
9253.0	8.00	3.3	105	S 75 E	100	45.4	313	N 47 W
9255.0	8.00	2.2	51	N 51 E	100	45.3	313	N 47 W
9257.0	8.00	1.6	65	N 65 E	100	45.4	313	N 47 W
9259.0	8.00	5.9	112	S 68 E	100	45.4	313	N 47 W
9261.0	8.00	6.2	106	S 74 E	100	45.4	313	N 47 W
9263.0	8.00	4.7	108	S 72 E	100	45.3	313	N 47 W
9265.0	8.00	4.8	101	S 79 E	100	45.3	313	N 47 W
9267.0	8.00	5.7	106	S 74 E	92	45.4	313	N 47 W
9271.0	8.00	6.4	114	S 66 E	100	45.4	313	N 47 W
9273.0	8.00	7.8	102	S 78 E	100	45.4	313	N 47 W
9275.0	8.00	6.5	123	S 57 E	94	45.4	313	N 47 W
9277.0	8.00	4.3	139	S 41 E	100	45.4	313	N 47 W
9279.0	8.00	5.5	143	S 37 E	100	45.4	313	N 47 W
9281.0	8.00	6.0	142	S 38 E	100	45.4	313	N 47 W
9283.0	8.00	6.3	160	S 20 E	100	45.4	313	N 47 W

CHEVRON U.S.A., INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9287.0	8.00	28.6	219	S 39 W	96	45.4	313	N 47 W
9299.0	8.00	15.8	242	S 62 W	62	45.4	313	N 47 W
9301.0	8.00	34.8	210	S 30 W	85	45.4	313	N 47 W
9303.0	8.00	12.4	195	S 15 W	67	45.4	313	N 47 W
9305.0	8.00	3.2	171	S 9 E	100	45.2	313	N 47 W
9307.0	8.00	3.7	164	S 16 E	98	45.4	313	N 47 W
9309.0	8.00	7.6	62	N 62 E	100	45.3	313	N 47 W
9311.0	8.00	7.1	81	N 81 E	100	45.4	313	N 47 W
9313.0	8.00	8.0	78	N 78 E	100	45.4	313	N 47 W
9315.0	8.00	4.7	102	S 78 E	100	45.4	313	N 47 W
9317.0	8.00	4.5	104	S 76 E	100	45.4	313	N 47 W
9319.0	8.00	4.5	98	S 82 E	100	45.4	313	N 47 W
9321.0	8.00	4.8	91	S 89 E	100	45.4	313	N 47 W
9323.0	8.00	5.5	97	S 83 E	100	45.4	313	N 47 W
9325.0	8.00	5.7	85	N 85 E	100	45.4	313	N 47 W
9327.0	8.00	5.3	91	S 89 E	100	45.4	313	N 47 W
9329.0	8.00	3.9	88	N 88 E	100	45.4	313	N 47 W
9335.0	8.00	5.6	162	S 18 E	100	45.4	313	N 47 W
9337.0	8.00	5.2	142	S 38 E	100	45.3	313	N 47 W
9341.0	8.00	6.1	126	S 54 E	100	45.3	313	N 47 W
9343.0	8.00	7.1	124	S 56 E	100	45.3	313	N 47 W
9345.0	8.00	7.7	125	S 55 E	100	45.4	313	N 47 W
9347.0	8.00	4.9	90	N 90 E	100	45.3	313	N 47 W
9351.0	8.00	8.7	54	N 54 E	100	45.3	313	N 47 W
9353.0	8.00	25.5	59	N 59 E	100	45.2	313	N 47 W
9355.0	8.00	20.5	65	N 65 E	100	45.3	313	N 47 W
9357.0	8.00	9.4	81	N 81 E	100	45.3	313	N 47 W
9359.0	8.00	6.2	108	S 72 E	100	45.4	313	N 47 W
9361.0	8.00	7.1	118	S 62 E	100	45.4	313	N 47 W
9363.0	8.00	4.5	131	S 49 E	100	45.3	313	N 47 W
9365.0	8.00	5.5	94	S 86 E	100	45.4	313	N 47 W
9367.0	8.00	5.3	95	S 85 E	100	45.3	313	N 47 W
9369.0	8.00	7.0	97	S 83 E	100	45.3	313	N 47 W
9371.0	8.00	7.1	108	S 72 E	100	45.3	313	N 47 W
9373.0	8.00	6.1	111	S 69 E	100	45.3	313	N 47 W
9375.0	8.00	11.7	114	S 66 E	99	45.3	313	N 47 W
9377.0	8.00	6.3	127	S 53 E	100	45.3	313	N 47 W
9379.0	8.00	7.7	150	S 30 E	78	45.3	313	N 47 W
9385.0	8.00	17.2	167	S 13 E	62	45.2	313	N 47 W
9387.0	8.00	10.5	142	S 38 E	87	45.2	313	N 47 W

CHEVRON U.S.A.,INC.
OCS-P-0450 C-1(HIGH) SUITE 5 RUN 3
POINT ARGUELLO
FEDERAL WATERS CALIFORNIA
12-28-87

		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
9389.0	8.00	12.7	102	S 78 E	100	45.2	313	N 47 W
9391.0	8.00	14.6	79	N 79 E	100	45.2	313	N 47 W
9393.0	8.00	16.3	67	N 67 E	100	45.0	313	N 47 W
9395.0	8.00	17.7	55	N 55 E	77	45.2	313	N 47 W
9397.0	8.00	5.3	67	N 67 E	100	45.2	313	N 47 W
9399.0	8.00	2.5	91	S 89 E	100	45.2	313	N 47 W
9401.0	8.00	6.9	74	N 74 E	100	45.2	313	N 47 W
9403.0	8.00	2.5	104	S 76 E	100	45.2	313	N 47 W
9405.0	8.00	3.2	88	N 88 E	100	45.2	313	N 47 W
9407.0	8.00	7.9	139	S 41 E	100	45.2	313	N 47 W
9409.0	8.00	11.1	118	S 62 E	86	45.2	313	N 47 W
9411.0	8.00	7.0	126	S 54 E	96	45.0	312	N 48 W
9421.0	8.00	33.0	124	S 56 E	83	45.1	313	N 47 W
9423.0	8.00	15.6	75	N 75 E	100	45.1	313	N 47 W
9425.0	8.00	16.6	84	N 84 E	86	45.1	313	N 47 W
9427.0	8.00	15.5	42	N 42 E	100	45.1	314	N 46 W
9429.0	8.00	15.5	43	N 43 E	100	45.1	314	N 46 W
9431.0	8.00	15.7	40	N 40 E	100	45.1	314	N 46 W
9433.0	8.00	28.0	120	S 60 E	100	45.1	314	N 46 W
9435.0	8.00	28.1	120	S 60 E	98	45.1	314	N 46 W
9437.0	8.00	28.1	120	S 60 E	100	45.1	314	N 46 W

Point Arguello OCS-P-0 C-2 WBO1 **Daily Completion/WO Repo** Version 1

Spud Date: May 4,00	Start Date: 5/30/00	Actual Days: 46	Auth. Days:	MD: 11,504'	TVD: 7,998'	PB: 11,150'
Job Description: Complete well as a single monterey producer				KB Correction: 16'	Orig KB Elev: 62'	

Wind:	Seas:	Bar:	POB: 28
Mud Type: Seawater	Wt: 8.4	PV:	YP: WL:

Prod. Casing Size: 5	WT: 15	Grade: L-80	Set @ MD: 11,490'	TVD: 7,985'	Cmt. Top @
Liner Size:	Wt:	Grade:	Set@ MD: TVD:	Top @MD: TVD:	

Tubing Size	Wt	Grade	Threads	Depth	Details	Do Not Use This Area
3-1/2	9.3	L-80	501			

Packer Set At:	Type	Perforations From: - To:	Details
		-	
		-	
		-	

Fish Top @ Description:

BHA No:	Details:	Bit Data Number	Type	Serial Number

Hrs.	(From -To)	hh:mm	Code	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
04:30	00:00 -	04:30	TR	Pulled out of well with 5" magnet, No recovery.	
01:30	04:30	06:00	TR	Made up 4" magnet and running in well.	
00:30	06:00	06:30	OT	Held safety meeting and held JSA.	
06:30	06:30 -	13:00	TR	Con't running in well to 11,457'. No problem getting into liner.	
00:30	13:00 -	13:30	LD	Layed down 10 joints of 3-1/2" tubing.	
04:30	13:30 -	18:00	TR	Pulled out of well with tubing.	
00:30	18:00 -	18:30	OT	Held safety meeting.	
02:00	18:30 -	20:30	LD	Con't pulling out of well and layed down 35 joints of 2-3/8" tubing.	
03:00	20:30 -	23:30	OT	Layed down kelly and cleared rig floor	
00:30	23:30	24:00	OT	Rigged up to run production equipment in well.	
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	-			AM Activities: Running in well with production equipment.	
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24 hr Summary:

Fluid Lost To Formation Daily: 0 Cumulative: 0

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch 24	Travel:	Tonga:	Circ. Equip:	

Remarks:

Torch %	H_2S: 0	Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $64,486	AFE Number: 12212
Cum Mud Cost:	Cum Tang Cost: $88,137	Cum Well Cost: $2,099,767	Total Appr: $2,152,300
Materials On Hand:			API Well No: 56-045-20063-01/S01

Profit Center:	Rig: #411	Rig Phone: (805) 562-3961	Drilling Rep: Dwayne Johnston
Field: C-2 COMP Report Point Arguello	Lease: OCS-P-0450	Well #: C-2 WBO1	Date: 7-Jun-00

MINERALS MANAGEMENT SERVICE
JUN - 8 2000
RECEIVED
SANTA MARIA DISTRICT

Point Arguello OCS-P-0 C-2 WBO1 **Daily Completion/WO Rep** Version 1

Spud Date: May 4,00	Start Date: 5/30/00	Actual Days: 50	Auth. Days:	MD: 11,504'	TVD: 7,998'	PBTD: 11,150'
Job Description: Complete well as a single monterey producer				KB Correction: 16'	Orig KB Elev: 62'	
				Wind:	Seas:	Bar: POB: 28
Mud Type: Seawater				Wt: 8.4	PV:	YP: WL:
Prod. Casing Size: 5	WT: 15	Grade: L-80	Set @ MD: 11,490'	TVD: 7,985'	Cmt. Top @ See CBL	
Liner Size:	Wt:	Grade:	Set@ MD:	TVD:	Top @MD:	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3-1/2	9.3	L-80	501	10,230'	324 joints 3-1/2" L-80 501 Hydril tubing	
3-1/2	9.3	L-80	EUE 8rd	90'	3 joints of 3-1/2" EUE 8rd L-80 tubing	

Packer Set At:	Type	Perforations From - To:	Details
10,342'	Baker 7" HB Hydraulic set	11,445' - 11,305'	140' 4 spf, 0 degree phase, 2-1/8" HMX
		-	Power jet
		-	

Fish Top @ 11,477 ETD Description: 2 Baker 5" scraper blocks and keeper plates (Blocks came off during orignal clean out, after running and cementing the 5" liner)

BHA No.	Details:	Bit Data		
		Number	Type	Serial Number

Hrs	(From -To)	hh:mm	Code	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
09:00	00:00 -	09:00	PF	Ran in well with gun #2 shot perforations from 11,395' to 11,350', all shots fired. Ran in well with perforation gun #3 shot perforations from 11,350' to 11,305', all shots fired. Rigged down Schlumberger.	
09.00	09.00 -	18:00	OT	Bleed pressure off SCSSSV and closed same. Closed all valves on tree and casing annules. Turned well over to production. Cleaned rig tanks # 1 and # 2, mud pump pop-off tank and petroleum solids sand trap pit. Released rig and crew from well C-2WBO1 at 18 00 hrs. 6/11/00	
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24 hr Summary

Fluid Lost To Formation Daily: 0 Cumulative: 0

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch: 24	Travel:	Tongs:	Circ. Equip:	

Remarks:

Torch %:	H_2S: 0	Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $9,754	AFE Number: 12212
Cum Mud Cost:	Cum Tang Cost: $88,137	Cum Well Cost: $2,337,172	Total Appr: $2,152,300
Materials On Hand:			API Well No: 56-045-20063-01/S01

Profit Center:	Rig: # 411	Rig Phone: (805) 562-3961	Drilling Rep: Dwayne Johnston
Field: Point Arguello (C-2 COMP Report #1)	Lease: OCS-P-0450	Well #: C-2 WBO1	Date: 11-Jun-00

Point Arguello OCS-P-0. C-2 WBO1 **Daily Completion/WO Rep** Version 1

Spud Date: May 4,00	Start Date: 5/30/00	Actual Days: 49	Auth. Days:	MD: 11,504'	TVD: 7,998'	PBTD: 11,150'
Job Description: Complete well as a single monterey producer				KB Correction: 16'	Orig KB Elev: 62'	
			Wind:	Seas:	Bar:	POB: 28
Mud Type: Seawater			Wt: 8.4	PV:	YP:	WL:
Prod. Casing Size: 5	WT: 15	Grade: L-80	Set @ MD: 11,490'	TVD: 7,985'	Cmt. Top @	See CBL
Liner Size:	Wt:	Grade:	Set@ MD:	TVD:	Top @MD:	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3-1/2	9.3	L-80	501	10,230'	324 joints 3-1/2" L-80 501 Hydril tubing	
3-1/2	9.3	L-80	EUE 8rd	90'	3 joints of 3-1/2" EUE 8rd L-80 tubing	

Packer Set At:	Type	Perforations From:	To:	Details
10,342'	Baker 7" HB Hydraulic set	11,445'	11,305'	140' 4 spf, 0 degree phase, 2-1/8" HMX
				Power jet

Fish Top @ 11,477 ETD Description: 2 Baker 5" scraper blocks and keeper plates (Blocks came off during orignal clean out, after running and cementing the 5" liner)

BHA No.	Details	Bit Data		
		Number	Type	Serial Number

Hrs	(From - To)	hh:mm	Code	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
06:00	00:00 -	06:00	NU	Con't nippling down class IV BOP and lowered production tree into well bay.	
00:30	06:00	06:30	OT	Held safety meeting, serviced equipment.	
10:30	06:30	17:00	NT	Installed production tree on wellhead . Note: Did not get tree on wellhead until 13:00 hrs. the	
	-			tubing hanger alinement screw was unusable. Had problem getting the tubing hanger and the	
	-			production tree to line up. Bolted tree to wellhead and tested bonnet and tubing hanger at 5000	
				psi. good. Hooked up flowlines and gas injection lines. Removed back-pressure valve from	
	-			tubing hanger. Pressured up on SSSV 1/4" hydraulic control line and opened the valve.	
01:00	17:00 -	18:00	WY	Rigging up schlumberger wireline	
00:30	18:00 -	18:30	OT	Held safety meeting. Held JSA on wireline perforating.	
05:30	18:30	24:00	PF	Con't rigging up Schlumberger wireline and lubricator. Tested lubricator at 2500 psi. Picked up	
	-			50 feet of 2-1/8" Hyper-jet HMX Strip guns loaded with 4 shots per foot. Ran in well, tied into	
	-			CBL collar log. Placed guns on depth and perforated 5" liner from 11,445' to 11,395' Pulled out	
	-			of well and layed down spent gun, all shots fired.	
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24 hr Summary:

Fluid Lost To Formation Daily: 0 Cumulative: 0

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch 24	Travel:	Tongs:	Circ. Equip:	

Remarks:

Torch %	H_2S: 0	Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $79,851	AFE Number: 12212
Cum Mud Cost:	Cum Tang Cost: $88,137	Cum Well Cost: $2,327,418	Total Appr: $2,152,300
Materials On Hand:			API Well No: 56-045-20063-01/S01

Profit Center:	Rig: # 411	Rig Phone: (805) 562-3961	Drilling Rep: Dwayne Johnston
Field: Point Arguello	Lease: OCS-P-0450	Well #: C-2 WBO1	Date: 10-Jun-00

C-2 DSR Report.xls

Point Arguello OCS-P-0450 C-2 WBO1 **Daily Completion/WO Report** Version 1

Spud Date:	May 4,00	Start Date:	5/30/00	Actual Days:	48	Auth. Days:		MD:	11,504'	TVD:	7,998'	PBTD:	11,150'
Job Description:	Complete well as a single monterey producer							KB Correction:	16'	Orig KB Elev:			62'
						Wind:		Seas:		Bar:		POB:	28
Mud Type:	Seawater					Wt:	8.4	PV:		YP:		WL:	
Prod. Casing Size:	5	WT:	15	Grade:	L-80	Set @ MD:	11,490'	TVD:	7,985'	Cmt. Top @	See CBL		
Liner Size:		Wt:		Grade:		Set@ MD:		TVD:		Top @MD:		TVD:	

Tubing Size	Wt	Grade	Threads	Depth	Details	Do Not Use This Area
3-1/2	9.3	L-80	501	10,230'	324 joints 3-1/2" L-80 501 Hydril tubing	
3-1/2	9.3	L-80	EUE 8rd	90'	3 joints of 3-1/2" EUE 8rd L-80 tubing	

Packer Set At	Type	Perforations From	To	Details
10,342'	Baker 7" HB Hydraulic set	11,445'	11,305'	140' 4 spf, 0 degree phase, 2-1/8" HMX
		-		Power jet
		-		

Fish Top @ 11,477 ETD Description: 2 Baker 5" scraper blocks and keeper plates (Blocks came off during orignal clean out. after running and cementing the 5" liner)

BHA No.	Details.	Bit Data		
		Number	Type	Serial Number

Hrs.	(From - To)	hh:mm	Code	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
06:00	00:00 -	06:00	TR	Con't running in well with production equipment.	
00.30	06.00	06.30	OT	Held safety meeting, serviced equipment.	
03.30	06.30	10:00	TR	Installed tubing hanger and stripped 1/4" and 3/8" hydraulic control line and chemical line thru	
	-			hanger and spliced lines back to reel. Installed landing joint and landed tubing hanger in wellhead.	
	-			Up weight 113K and down weight 55K. Wireline rentry guide @ 10,414', BXN nipple @ 10,412',	
	-			BX nipple @ 10,380', Baker 7" HB packer @ 10,342', BX nipple @ 10,334', Chemical injection	
	-			Mandrel @ 10,292', side pocket GLM w/ 1" valve @ 10,272', side pocket GLM w/ 1" valve	
	-			@ 9871', side pocket GLM w/ 1" valve @ 9314', side pocket GLM w/ 1" valve @ 8618',	
	-			side pocket GLM w/ 1-1/2" valve @ 7716', side pocket GLM w/ 1-1/2" valve @ 6593',	
				side pocket GLM w/ 1-1/2" valve @ 4637', side pocket GLM w/ 1-1/2" valve @ 2127', tubing	
	-			retrievable flapper SCSSSV @ 696'.	
11:00	10:00 -	21:00	WY	Rigged up slickline lubricator and tested same at 2000 psi. Pumped down tubing taking returns	
	-			up casing to production. Ran tubing plug in well and set same in BX nipple at 10,334' tested	
	-			tubing at 1700 psi good. Pulled plug and ran in well and set plug in BX nipple at 10,380'. Set .	
	-			packer in stages from 1000 psi to 3000 psi. Pulled plug and rigged down wireline.	
00:30	21:00 -	21:30	PT	Pressured up on tubing to 2000 psi with no returns from casing. Good set on packer.	
02:30	21:30 -	24:00	OT	Cut 1/4" control line and 3/8" chemical line at rig floor, cleared rig floor. Nippling down Class	
	-			IV BOP at 24:00 hrs.	
	-				
	-				
	-			AM Activities: Nipple down BOP and riser. Installing production tree at 06:00 hrs.	
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	-				

24 hr Summary:

Fluid Lost To Formation Daily: 0 Cumulative: 0

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch: 24	Travel:	Tongs:	Circ. Equip:	

Remarks:

Torch %	H_2S: 0	Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $130,992	AFE Number: 12212
Cum Mud Cost:	Cum Tang Cost. $88,137	Cum Well Cost: $2,247,567	Total Appr: $2,152,300
Materials On Hand:			API Well No: 56-045-20063-01/S01

Profit Center:	Rig: # 411	Rig Phone: (805) 562-3961	Drilling Rep: Dwayne Johnston
Field: Point Arguello	Lease: OCS-P-0450	Well #: C-2 WBO1	Date: 9-Jun-00

C:2 COMP Report.xls

Point Arguello OCS-P-0450 C-2 WBO1 **Daily Completion/WO Repo** Version 1

Spud Date	Start Date	Actual Days	Auth. Days	MD	TVD	PBTD
May 4,00	5/30/00	47		11,504'	7,998'	11,150'

Job Description: Complete well as a single monterey producer

KB Correction: 15' Orig KB Elev: 62'

Wind	Seas	Bar	POB
			28

Mud Type	Wt	PV	YP	WL
Seawater	8.4			

Prod. Casing Size	Wt	Grade	Set @ MD	TVD	Cmt. Top @
5	15	L-80	11,490'	7,985'	

Liner Size	Wt	Grade	Set@ MD	TVD	Top @MD	TVD

Tubing Size	Wt	Grade	Threads	Depth	Details	Do Not Use This Area
3-1/2	9.3	L-80	501			

Packer Set At	Type	Perforations From - To	Details
		-	
		-	
		-	

Fish Top @ Description

BHA No	Details	Bit Data Number	Type	Serial Number

Hrs	(From -To)	hh:mm	Code	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
06:00	00:00 -	06:00	BH	Made up Baker wireline rentry guide with (6) 6" O.D. fins welded to it., Baker "BXN" nipple, 1 joint 3-1/2" EUE tubing, Baker "BX" nipple, 1 joint of 3-1/2" EUE tubing, Baker7" "HB" packer, 3-1/2" EUE pup joint, Baker "BX" nipple, 1 joint of 3-1/2" EUE tubing, 3-1/2" EUE pup joint, Weatherford chemical injection mandrel. Connected 3/8" stainless line to mandrel and pressured up on line and dummy valve in mandrel to 1200 psi. Started running in well with 3-1/2" Hydril 501 tubing, banding chemical line along side of tubing, three bands per joint.	
00:30	06:00 -	06:30	OT	Held safety meeting, and JSA.	
17:30	06:30 -	24:00	TR	Con't running in well with production equipment. Installed gsa lift mandrels at proper depths, drifting all equipment in slips. Note: Chemical line pressure dropped to 500 psi. Pressured up to 1200 psi, pressure dropped back to 100 psi in 30 mins. Diesel fluid in chemical line may have destroyed the rubber o-rings on the equalizing dummy valve in the chemical injection mandrel, causing the leak-off. There will be a new dummy valve and a kick-over tool at the heliport at 06:00 if they are needed. AM Activities: Installed SCSSSV and connected 1/4" hydraulic control line. Held 4000 psi on control line and ran in well. Spliced on more chemical line at 4 stands out. Installing tubing hanger	

24 hr Summary:

Fluid Lost To Formation Daily: 0 Cumulative: 0

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch: 24	Travel:	Tongs:	Circ. Equip:	

Remarks:

Torch %: H_2S: 0 Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $16,808	AFE Number: 12212
Cum Mud Cost:	Cum Tang Cost: $88,137	Cum Well Cost: $2,116,575	Total Appr: $2,152,300
Materials On Hand:			API Well No: 56-045-20063-01/S01

Profit Center	Rig: # 411	Rig Phone: (805) 562-3961	Drilling Rep: Dwayne Johnston
Field: Point Arguello	Lease: OCS-P-0450	Well #: C-2 WBO1	Date: 8-Jun-00

C-2 COMP Report.xls

Point Arguello OCS-P-0 C-1

Daily Completion/WO Rep

Version 1

Spud Date:	Start Date: 3/18/00	Actual Days: 12	Auth. Days:	MD: 10,498'	TVD: 8,235'	PBTD: 10,412'
Job Description: Convert to gas injection well				KB Correction: 17'	Orig KB Elev: 59'	
			Wind:	Seas:	Bar:	POB: 24
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9-5/8	WT: 43.5	Grade:	Set @ MD: 9,415'	TVD:	Cmt. Top @	
Liner Size: 7	Wt: 26	Grade:	Set@ MD: 10,498'	TVD: 8,235'	Top @MD: 9,018'	TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area

Packer Set At	Type	Perforations From - To:	Details
		9,510' - 9,570'	.50 Dia @ 4 spf
		9,620' - 9,700'	.50 Dia @ 4 spf
		-	

Fish Top @ #1 @ 9710 Description: Baker 7" model "D" packer, 3-1/2" pup jt, "XN" nipple w/ plug

#2 @ 9850 Baker 7" FB-1" retainer, "R" no-go nipple w/ standing valve, "R" nipple w/ rentry guide.

BHA No.	Details:	Bit Data		
		Number	Type	Serial Number

Hrs	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-			
02:00	00:00 -	02:00	Drained stack. M/U wear bushing and landing joints. Installed wear bushing. L/D landing joints.	
04:00	02:00 -	06:00	M/U Milling assembly and RIH.	
00:30	06:00 -	06:30	Held safety meeting. Serviced rig and equipment.	
03:30	06:30 -	10:00	RIH with milling assembly tagged Baker Model "D" Pcker at 9710'.	
03:00	10:00 -	13:00	Milled over Model "D" packer and pushed packer down to 9844'. Started losing fluid to formation	
	-		approximately 150 BBL's per hour.	
01:30	13:00 -	14:30	POH with milling assembly.	
01:00	14:30 -	15:30	Stopped operations for Source Testing of Turbine.	
02:30	15:30 -	18:00	POH with milling assembly.	
00:30	18:00 -	18:30	Held safety meeting. Serviced rig and equipment.	
01:00	18:30 -	19:30	POH with milling assembly.	
02:00	19:30 -	21:30	Platform lost turbines. Waited for start up of # 2 turbine.	
02:30	21:30 -	24:00	POH recovered , Model "D" Packer, 3-1/2" pup joint, Otis "XN" nipple and wireline entry guide.	
	-		Camco wire line gauge tools, and Baker Atlas Chemical cutter with centralizer.	
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	-		AM Activities : RIH with Milling Assembly.	
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	-			
	-			

24 hr Summary

Fluid Lost To Formation Daily: Cumulative: 0

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch:	Travel:	Tongs:	Circ. Equip:	

Remarks: P.O.B. 1 Torch, 1 Secorp, 20 Pool, 1 Baker = 24

Last BOPE test on 3-26-00 Blind Ram test on 3-24-00	Torch %	H_2S:	Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $17,758	AFE Number: 12363
Cum Mud Cost:	Cum Tang Cost:	Cum Well Cost: $308,028	Total Appr: $342,500
Materials On Hand:			API Well No: 56-045-20062

Profit Center:	Rig: Pool # 411	Rig Phone: (805) 562-3962	Drilling Rep: Sam Loredo
Field: Point Arguello (Hidalgo C.)	Lease: OCS-P-0450	Well #: C-1	Date: 29-Mar-00

Point Arguello OCS-P-0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/18/00	Actual Days: 20	Auth. Days:	MD: 10,498'	TVD: 8,235'	PBTD: 10,412'
Job Description: Convert to gas injection well				KB Correction: 17'	Orig KB Elev: 59'	
			Wind:	Seas:	Bar:	POB: 24
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9-5/8	WT: 43.5	Grade:	Set @ MD: 9,415'	TVD:	Cmt. Top @	
Liner Size: 7	Wt: 26	Grade:	Set@ MD: 10,498' TVD: 8,235'	Top @MD: 9,018'	TVD:	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3-1/2	9.3	L-80	RTS-8	3,761'	Well has been completed as a single string gas injector	
3/1/02	9.3	L-80	501	5,174'		

Packer Set At	Type	Perforations From: - To:	Details
8,996'	Baker 9-5/8" HB Hydraulic	9,510' - 9,570'	.50 Dia @ 4 spf
		9,620' - 9,700'	.50 Dia @ 4 spf

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
06:00	00:00 - 06:00	Preped rig for move. Layed down mouse hole, rigged down "V"-door, stairs, and catwalk.	
		Unhooked hoses, stairs and porch for mud hopper. Roll up electrical cords, remove mix hopper,	
		clear off BOP Deck, roll up electrical cords from rig floor and loosen lower earthquake	
		clamps. Released rig and crew from well C-1 at 06:00 hrs.	

24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 11,449

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch	Travel:	Tongs:	Circ. Equip:	

Remarks: P.O.B. 1 Torch, 1 Secorp, 21 Pool, 1 Baker, 2 Camco, 1 Camco = 27

Last BOPE test on 3-26-00	Blind Ram test on 3-24-00	Torch %	H_2S:	Accidents: None
Daily Mud Cost:	Daily Tang. Cost: $36,660	Daily Well Cost: $40,780	AFE Number: 12363	
Cum Mud Cost:	Cum Tang Cost: $88,549	Cum Well Cost: $584,432	Total Appr: $342,500	
Materials On Hand:			API Well No: 56-045-20062	
Profit Center:	Rig: Pool # 411	Rig Phone: (805) 562-3962	Drilling Rep: D. Johnston	
Field: Point Arguello	Lease: OCS-P-0450	Well #: C-1	Date: 6-Apr-00	

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Point Arguello OCS-P-0450 C-1

Daily Completion/WO Report

Version 1

Spud Date	Start Date	Actual Days:	Auth Days:	MD:	TVD	PBTD
	3/18/00	19		10,498'	8,235'	10,412'

Job Description: Convert to gas injection well

KB Correction: 17' Orig KB Elev: 59'

Wind:	Seas:	Bar:	POB:
			24

Mud Type: Seawater

Wt:	PV:	YP:	WL:
8.5			

Prod. Casing Size:	Wt:	Grade:	Set @ MD:	TVD:	Cmt. Top @
9-5/8	43.5		9,415'		

Liner Size:	Wt:	Grade:	Set@ MD:	TVD:	Top @MD:	TVD:
7	26		10,498'	8,235'	9,018'	

Tubing Size	Wt	Grade	Threads	Depth	Details	Do Not Use This Area
3-1/2	9.3	L-80	RTS-8	3,761'	Well has been completed as a single string gas injector	
3/1/02	9.3	L-80	501	5,174'		

Packer Set At:	Type	Perforations From:	To:	Details
8,996'	Baker 9-5/8" HB Hydraulic	9,510'	9,570'	.50 Dia @ 4 spf
		9,620'	9,700'	.50 Dia @ 4 spf

Fish Top @ Description:

BHA No:	Details	Bit Data Number	Type	Serial Number

Hrs	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
02:00	00:00	02:00	Ran in well and recovered "X" plug. Redressed tool and stood back lubricator.	
02:30	02:00	04:30	Backed out tubing hanger anchor screws and pulled tubing hanger to rig floor. Redressed	
			tubing hanger and hung tubing hanger 1 foot above where it lands in wellhead. Rigged up	
			wireline lubricator and rigged up for change over.	
01:30	04:30	06:00	Started changing well over with packer fluid.	
02:30	06:00	08:30	Held safety meeting, serviced equipment. Con't changing well over, 563 bbls.	
01:30	08:30	10:00	Ran in well with wireline plug and set plug in BXN nipple at 9079' filled tubing and set packer with	
			3000 psi at 8996'. Bleed off pressure and pulled out of well with wireline plug. Rigged down wireline.	
01:30	10:00	11:30	Filled back-side and tested packer and backside at 1000 psi for 15 mins. Good.	
03:00	11:30	14:30	Drained bop and riser, Landed tubing hanger in wellhead and run in anchor screws. Tested tubing	
			hanger seals at 5000 psi. Backed out landing joint and installed back pressure valve in tubing	
			hanger.	
03:30	14:30	18:00	Pulled rotary table and started nippling down BOP.	
00:30	18:00	18:30	Held safety meeting, serviced equipment.	
01:00	18:30	19:30	Con't nipple down riser and BOP.	
02:00	19:30	21:30	Reset rotary table and picked up landing joint. Screwed into tubing hanger. Unlanded tubing	
			hanger and oriented same. Relanded hanger and tested same at 5000 psi.	
02:30	21:30	24:00	Installed production tree and tested bonnet at 5000 psi. Installed blind flanges on tree and	
			removed back pressure valve.	

24 hr Summary:

Fluid Lost To Formation Daily: 365 Cumulative: 11,449

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch	Travel	Tongs:	Circ. Equip	

Remarks: P.O.B. 1 Torch, 1 Secorp, 21 Pool, 1 Baker, 2 Camco, 1 Camco = 27

Last BOPE test on 3-26-00 Blind Ram test on 3-24-00 Torch %: H_2S: Accidents: None

Daily Mud Cost:	Daily Tang. Cost: $51,889	Daily Well Cost: $79,326	AFE Number: 12363
Cum Mud Cost:	Cum Tang Cost: $51,889	Cum Well Cost: $543,652	Total Appr: $342,500
Materials On Hand:			API Well No. 56-045-20062

Profit Ceneter:	Rig: Pool # 411	Rig Phone: (805) 562-3962	Drilling Rep: D. Johnston
Field: Point Arguello	Lease: OCS-P-0450	Well #: C-1	Date: 5-Apr-00

C-1conversion

Point Arguello OCS-P-0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/18/00	Actual Days: 18	Auth. Days:	MD: 10,498'	TVD: 8,235'	PBTD: 10,412'	
Job Description: Convert to gas injection well				KB Correction: 17'	Orig KB Elev: 59'		
			Wind:	Seas:	Bar:	POB: 24	
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:	
Prod. Casing Size: 9-5/8	WT: 43.5	Grade:	Set @ MD: 9,415'	TVD	Cml. Top @		
Liner Size: 7	Wt: 26	Grade:	Set@ MD: 10,498'	TVD: 8,235'	Top @MD: 9,018'	TVD	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area

Packer Set At:	Type	Perforations From: - To:	Details
		9,510' - 9,570'	.50 Dia @ 4 spf
		9,620' - 9,700'	.50 Dia @ 4 spf
		-	

Fish Top @ Description:

BHA No.	Details:	Bit Data		
		Number	Type	Serial Number

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
01:00	00:00 -	01:00	Picked up Baker T-5 SCSSSV tied in hydraulic control line and tested same.	
02:00	01:00 -	03:00	Con't picking up and drifting 3-1/2" Hydril 501 tubing.	
01:30	03:00	04:30	Made up tubing hanger and connected hydraulic control line. Made up landing joint and landed	
			tubing hanger in wellhead. Ran in lock-down screws.	
00:30	04:30 -	05:00	Started to rig up wireline, found error in pipe count. Rigged down wireline.	
01:00	05:00	06:00	Backed out lock screws, unlanded tubing hanger and layed down landing joint.	
06:30	06:00 -	12:30	Held safety meeting, layed down tubing hanger and pulled out of well to SCSSSV. Picked up	
	-		24 joints of 501 hydril tubing, installed SCSSSV and ran 24 joints of 501 tubing.	
01:00	12:30 -	13:30	worked ubing tail into liner at 9018'	
01:00	13:30 -	14:30	Made up tubing hanger with no seals and landed tubing.	
03:30	14:30 -	18:00	Rigged up wireline lubricator and tested lubricator at 1000 psi. Made gage run to "BX" nipple	
	-		at 8979'. Set and sheared off "X" plug in nipple at 8979' and pulled out of well rigged down	
	-		wireline equipment.	
04:30	18:00 -	22:30	Rigged up test pump and tested tubing at 3000 psi. Pressure bleed back to 2800 psi in 15 mins.	
01:00	22:30 -	23:30	Filled casing with seawater (85 bbls)	
00:30	23:30 -	24:00	Made up lubricator, running in well with retrieving tool.	
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	-		AM Activities: Pulled plug, pulled tubing hanger to rig fllor and installed seals. Lowered tubing	
	-		hanger to with-in 1' of being landed. Start changing over to packer fluid.	
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24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 11,084

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch	Travel:	Tongs:	Circ. Equip:	

Remarks: P.O.B. 1 Torch, 1 Secorp, 21 Pool, 1 Baker, 2 Camco, 1 Camco = 27

Last BOPE test on 3-26-00 Blind Ram test on 3-24-00		Torch %:	H_2S:	Accidents: None
Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $16,758	AFE Number: 12363	
Cum Mud Cost:	Cum Tang Cost:	Cum Well Cost: $464,326	Total Appr: $342,500	
Materials On Hand:			API Well No: 56-045-20062	
Profit Center:	Rig: Pool # 411	Rig Phone: (805) 562-3962	Drilling Rep: D. Johnston	
Field: Point Arguello	Lease: OCS-P-0450	Well #: C-1	Date: 4-Apr-00	

Hidalgo C-1

Point Arguello OCS-P-0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/18/00	Actual Days: 17	Auth. Days:	MD: 10,498'	TVD: 8,235'	PBTD: 10,412'
Job Description: Convert to gas injection well				KB Correction: 17'	Orig KB Elev: 59'	
			Wind:	Seas:	Bar:	POB: 24
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9-5/8	WT: 43.5	Grade:	Set @ MD: 9,415'	TVD:	Cmt. Top @	
Liner Size: 7	Wt: 26	Grade:	Set@ MD: 10,498'	TVD: 8,235'	Top @MD: 9,018'	TVD:

Tubing Size	Wt	Grade	Threads	Depth	Details	Do Not Use This Area

Packer Set At	Type	Perforations From:	To:	Details
		9,510'	9,570'	.50 Dia @ 4 spf
		9,620'	9,700'	.50 Dia @ 4 spf

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number

Hrs	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
06:00	00:00 -	06:00	Had welder put 1" fins on a 3-1/2" pup joint. Installed pup joint on top of the wireline entry guide.	
	-		Made up tubing tail assembly below the Baker packer.	
00:30	06:00	06:30	Held safety meeting and serviced all equipment.	
17:30	06:30	24:00	Con't running in well picking up 3-1/2" tubing.	
	-			
	-			
	-		AM Activities: Installed Baker SCSSSV , installed and banded hydraulic control line from valve	
	-		to tubing hanger. Installed and landed tubing hanger. Did not run tubing to proper depth, Unlanded	
	-		tubing and pulling out of well to Baker SCSSSV.	
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24 hr Summary:

Fluid Lost To Formation: Daily: 1,300 Cumulative: 11,084

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch:	Travel:	Tongs:	Circ. Equip:	

Remarks: P.O.B. 1 Torch, 1 Secorp, 21 Pool, 1 Baker, 2 Camco, 1 Camco = 27

Last BOPE test on 3-26-00	Blind Ram test on 3-24-00	Torch %	H_2S	Accidents: None
Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $21,358	AFE Number: 12363	
Cum Mud Cost:	Cum Tang Cost:	Cum Well Cost: $447,568	Total Appr: $342,500	
Materials On Hand:			API Well No: 56-045-20062	

Profit Center:	Rig: Pool # 411	Rig Phone: (805) 562-3962	Drilling Rep: D. Johnston
Field: Point Arguello	Lease: OCS-P-0450	Well #: C-1	Date: 3-Apr-00

C-1conversion

Point Arguello OCS-P-0 ... C-1

Daily Completion/WO Rep

Version 1

Spud Date	Start Date	Actual Days:	Auth. Days:	MD:	TVD:	PBTD:
	3/18/00	13		10,498'	8,235'	10,412'

Job Description: Convert to gas injection well

KB Correction: 17' Orig KB Elev: 59'

Wind:	Seas:	Bar:	POB:
			24

Mud Type:	Wt:	PV:	YP:	WL:
Seawater	8.5			

Prod. Casing Size:	WT:	Grade:	Set @ MD:	TVD:	Cmt. Top @:
9-5/8	43.5		9,415'		

Liner Size:	Wt:	Grade:	Set@ MD:	TVD:	Top @MD:	TVD:
7	26		10,498'	8,235'	9,018'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area

Packer Set At:	Type	Perforations From - To:	Details
		9,510' - 9,570'	.50 Dia @ 4 spf
		9,620' - 9,700'	.50 Dia @ 4 spf
		-	

Fish Top @ #1 @ 9710 Description:

#2 @ 9850 Baker 7" FB-1" retainer, "R" no-go nipple w/ standing valve, "R" nipple w/ rentry guide

BHA No:	Details:	Bit Data Number	Type	Serial Number

Hrs.	(From -To)	hh mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-			
03:30	00:00 -	03:30	M/U Milling Assembly and RIH.	
01:00	03:30 -	04:30	Waited on operations to restart turbines. Platform running on one turbine.	
01:30	04:30 -	06:00	RIH with Milling Assembly.	
00:30	06:00 -	06:30	Held safety meeting. Serviced rig and equipment.	
01:30	06:30 -	08:00	RIH with Milling Assembly to 7" liner top at 9018'.	
01:00	08:00 -	09:00	Waited on operations to restart turbines. Platform running on one turbine.	
00:30	09:00 -	09:30	RIH with Milling Assembly to 9850' top of Baker "FB-1" Retainer.	
03:00	09:30 -	12:30	Milled over retainer and chased it down to 10,196'.	
05:30	12:30 -	18:00	POH with Milling Assembly.	
00:30	18:00 -	18:30	Held safety meeting. Serviced rig and equipment.	
00:30	18:30 -	19:00	Laid down Milling Assembly.	
01:00	19:00 -	20:00	Made up 5-7/8" close catch overshot fishing assembly.	
04:00	20:00 -	24:00	RIH with Fishing Assembly to 7" liner top at 9018'.	
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	-		AM Activities : POH wet with fish.	
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	-			
	-			
	-			

24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 0

Hours Charged To Contractor:	Torch	Travel	Hours Used Tongs:	Circ. Equip:	Other Charges
Pool					

Remarks: P.O.B. 1 Torch, 1 Secorp, 21 Pool, 1 Baker = 24

Last BOPE test on 3-26-00 Blind Ram test on 3-24-00 Torch % H_2S: Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost:	AFE Number:
		$21,758	12363
Cum Mud Cost:	**Cum Tang Cost:**	**Cum Well Cost:**	**Total Appr:**
		$329,786	$342,500

Materials On Hand API Well No: 56-045-20062

Profit Center:	Rig:	Rig Phone:	Drilling Rep:
	Pool # 411	(805) 562-3962	Sam Loredo

Field:	Lease:	Well #:	Date:
Point Arguello Hidalgo C-1	OCS-P-0450	C-1	30-Mar-00

Point Arguello OCS-P-0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/18/00	Actual Days: 14	Auth. Days:	MD: 10,498'	TVD: 8,235'	PBTD: 10,412'
Job Description: Convert to gas injection well				KB Correction: 17'	Orig KB Elev: 59'	
			Wind:	Seas:	Bar:	POB: 24
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9-5/8	WT: 43.5	Grade:	Set @ MD: 9,415'	TVD:	Cmt. Top @	
Liner Size: 7	Wt: 26	Grade:	Set@ MD: 10,498'	TVD: 8,235'	Top @MD: 9,018'	TVD:

Tubing Size	Wt	Grade	Threads	Depth	Details	Do Not Use This Area

Packer Set At	Type	Perforations From - To	Details
		9,510' - 9,570'	.50 Dia @ 4 spf
		9,620' - 9,700'	.50 Dia @ 4 spf
		-	

Fish Top @ Description:

BHA No:	Details	Bit Data		
		Number	Type	Serial Number

Hrs	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-			
01:00	00:00 -	01:00	RIH with Fishing Tools and engaged fish at 10,196'.	
01:30	01:00	02:30	POH wet with fish.	
00:30	02:30	03:00	Changed out pipe spinners.	
03:00	03:00 -	06:00	POH wet with fish.	
00:30	06:00	06:30	Held safety meeting. Serviced rig and equipment.	
01:30	06:30 -	08:00	POH wet with fish. Recovered Baker "FB-1" retainer, and perforated tail. 38.47' over all measurement.	
	-		Laid down fish and fishing tools.	
03:00	08:00 -	11:00	Slipped and cut off 138' of drilling line. Unhung blocks and set Crown-o-matic.	
01:30	11:00 -	12:30	M/U 8-1/2" bit, 9-5/8" casing scraper and BHA.	
01:00	12:30 -	13:30	Replaced dies in 4-1/2" slips.	
03:00	13:30 -	16:30	RIH with 9-5/8" Scraper Assembly.	
01:30	16:30 -	18:00	Repairing clutch handle on drillers console.	
00:30	18:00 -	18:30	Held safety meeting. Serviced rig and equipment.	
00:30	18:30 -	19:00	Repaired clutch handle on drillers console.	
01:00	19:00 -	20:00	Continued to RIH. Made several passes from 8557' to 9018'.	
00:30	20:00 -	20:30	Adjust drawworks Brakes.	
03:30	20:30 -	24:00	POH with 9-5/8" casing scraper assembly.	
	-			
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	-			
	-		AM Activities : RIH with 7" casing scraper BHA.	
	-			
	-			
	-			

24 hr Summary:

Fluid Lost To Formation Daily: 3,161 Cumulative: 7,498

Hours Charged To			Hours Used		Other Charges
Contractor: Pool	Torch:	Travel:	Tongs:	Circ. Equip:	

Remarks: P.O.B. 1 Torch, 1 Secorp, 21 Pool, 1 Baker = 24

Last BOPE test on 3-26-00	Blind Ram test on 3-24-00	Torch %:	H_2S:	Accidents: None
Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost: $51,903	AFE Number: 12363	
Cum Mud Cost:	Cum Tang Cost:	Cum Well Cost: $381,689	Total Appr: $342,500	
Materials On Hand:			API Well No: 56-045-20062	
Profit Ceneter:	Rig: Pool # 411	Rig Phone: (805) 562-3962	Drilling Rep: Sam Loredo	
Field: Point Arguello (Hidalgo C-1)	Lease: OCS-P-0450	Well #: C-1	Date: 31-Mar-00	

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 25	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Wind: | Seas: | Bar: | POB: 32

Mud Type: Seawater | Wt: 8.5 | PV: | YP: | WL:

Prod. Casing Size: 9.625" | WT: 43.5 | Grade: SS-95 | Set @ MD: 9,415' TVD: 7114' | Cmt. Top @

Liner Size: 7" | Wt: 26 | Grade: L-80 | Set@ MD: 10,498' TVD: 8,102' | Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	9,174'	Packer @ 8996', GLMs @ 8665', 8059', 7485', 6906', 6232', 5250',	
					3889', 2160' and T-5 SSSV @ 789'.	
					T-5 SSSV Ser # 170575-1	

Packer Set At:	Type	Perforations From: - To:	Details
8,996'	Baker "HB" Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data Number	Type	Serial Number

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
01:30	00:00 -	01:30	Pulled "X" test plug from "X" nipple @ 9132' - rigged out Golden State W/L.	
01:30	01:30 -	03:00	Closed SSSV and set BPV in tubing hanger.	
07:00	03:00 -	10:00	Remove BOPE from well.	
04:30	10:00 -	14:30	Install Production tree and test to 5000 PSI for 15 minutes, tested tubing hanger to 5000 PSI for 15 minutes.	
01:00	14:30 -	15:30	Removed BPV from tubing hanger.	
02:30	15:30 -	18:00	Prepare rig for rig move.	
			Released rig from C-1 at 18:00, Move to C-11	
			Held safety meetings, discussed procedures for skidding rig, proper equipment to use when handling production tree. Pinch points, communication between decks, slippery decks - TEAM WORK.	

Post-it® Fax Note 7671 | Date | # of pages ▶ 2

To Dan Knowlson | From Laura Phillips

Co./Dept. MMS - SM | Co. Chevron

Phone # 922 1958 | Phone # 658 4493

Fax # 925 8546 | Fax # 658 4405

MINERALS MANAGEMENT SERVICE
APR 16 1997
RECEIVED
SANTA MARIA DISTRICT

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 24	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind: Seas: Bar: POB: 36

Mud Type: Seawater Wt: 8.5 PV: YP: WL:

Prod. Casing Size:	WT:	Grade:	Set @ MD:	TVD:	Cmt. Top @
9.625"	43.5	SS-95	9,415'	7114'	

Liner Size:	Wt:	Grade:	Set @ MD:	TVD:	Top @MD:	TVD:
7"	26	L-80	10,498'	8,102'	9,018'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	9,118'	Packer @ 8940', GLMs @ 8609', 8003', 7430', 6850', 6177', 5195',	
					3833', 2104' and T-5 SSSV @ 743'.	
					T-5 SSSV Ser # 170575-1	

Packer Set At:	Type	Perforations From: - To:	Details
8,940'	Baker "HB" Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:

Post-it® Fax Note 7671 Date # of pages ▶ 1

To Dan Knowlson From Laura Phillips

Co./Dept. MMS - SM Co. Chevron

Phone # 922 7958 Phone # 658 4493

Fax # 925 8546 Fax # 658 4405

APR 15

Operations Covering 24 Hours Ending at Midnight

Hrs.	(From -To)	hh:mm	Area
18:30	00:00 -	18:30	Continue to RIH w/ production string, made up tubing to 4500 ft/lbs and externally test couplings to 6000 PSI. Drifted all tubing w/ 2.867" drift. Unable to test FV-6 SSSV. Made up T-5 SSSV and tested as per program. Ran 1/4" stainless steel control line to surface. After making up tubing hanger tested SSSV as per program. Spotted 800 Bbls of packer fluid.
00:30	18:30 -	19:00	Landed tubing hanger and screwed in hanger lock-downs.
02:30	19:00 -	21:30	R/U Golden State W/L and set 2.75" test tool in "X" nipple @ 9076'.
02:30	21:30 -	24:00	Set packer w/ 1200 PSI f/ 5 min, 1800 PSI f/ 5 min, 2400 PSI f/ 5 min & 3500 PSI f/ 15 min. While holding 3500 PSI on tubing pressured annulus to 1000 PSI f/ 15 min. Bled pressure off of tubing and casing.
	-		A.M. Activities: Retrieve test tool f/ "X" nipple @ 9076', Close SSSV & install BPV in tubing hanger.
	-		Held safety meetings: Discussed running tubing, pinch points (Gator-Hawk, Tubing Tongs, Elevators, etc.). General Housekeeping, i.e. keep walkways & stairways clean, keep tools picked up. Discussed correcting safety items immediately.

24 hr Summary: Finish running production tubing. Set packer.

Fluid Lost To Formation Daily: 4,320 Cumulative: 24,069

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:3-CUSA; 23-Pool; 10-Service; Total=26:No Incidents & No-Non Compliance. Pool Crews Have Worked "59" Days W/Out LTA.

Chevron %: 26.32 H2S: None Accidents: None

Materials On Hand:	63-Sxs. Sulf X : 6.5 Drums Scale X : 80 Sxs Xanvis : 160 Sxs Salt			API Well No:	56-045-20062
Profit Center:	WBU/PC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	Ray/DeGraffenreid
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	14-Apr-97

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 23	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Wind: | Seas: | Bar: | POB: 38

Mud Type: Seawater | Wt: 8.5 | PV: | YP: | WL:

Prod. Casing Size: 9.625" | WT: 43.5 | Grade: SS-95 | Set @ MD: 9,415' | TVD: 7114' | Cmt. Top @

Liner Size: 7" | Wt: 26 | Grade: L-80 | Set@ MD: 10,498' | TVD: 8,102' | Top @MD: 9,018' | TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd			

Packer Set At:	Type	Perforations From:	To:	Details
		9,510'	9,570'	.60" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
6	Baker on/off tool, xo, 24 jts of 3 1/2" tbg, xo, 4 1/2" tbg			

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
03:00	00:00 - 03:00	Continue to change over to clean saltwater, pumped returns to V-9 production.	
01:00	03:00 - 04:00	Continue to pump clean saltwater to active pits.	
05:30	04:00 - 09:30	POOH w/ retrieving tool, laid down retrieving tool and "F" plug.	
01:30	09:30 - 11:00	R/U Gator Hawk and held safety meeting to discuss procedures for running tubing.	
13:00	11:00 - 24:00	M/U & RIH w/ production string, made up 3-1/2" tubing to 4500 ft/lbs and gatorhawked connections to 5000 PSI.	
		AM activities: Continue to RIH w/ production tubing.	
		Safety meetings: Discussed ladder safety and procedures for running tubing.	

Post-it® Fax Note 7671 | Date | # of pages ▶ 3
To Dan Knowlton | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 1958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: Finished circulating hole clean of sand, Remove "F" plug, POOH, Start running completion assembly.

Fluid Lost To Formation | Daily: 300 | Cumulative: 19,749

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:3-CUSA: 23-Pool; 10-Service; Total=28:No Incidents & No-Non Compliance. Pool Crews Have Worked "58" Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand:	63-Sxs. Sulf X : 6.5 Drums Scale X : 80 Sxs Xanvis : 180 Sxs Salt			API Well No:	56-045-20062
Profit Center:	WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	Roberts/Ray/DeGraffenreid
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	13-Apr-97

C-1 Proc.xls

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 22	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Mud Type: Seawater	Wind:	Seas:	Bar:	POB: 29
	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd			

Packer Set At:	Type	Perforations From: - To:	Details
		9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data Number	Type	Serial Number
6	Baker on/off tool, xo, 24 jts of 3 1/2" tbg, xo, 4 1/2" tbg			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
01:00	00:00 -	01:00	Finish rigging up hose to cmt standpipe conn., prepare to reverse circ.	
01:00	01:00 -	2:00	L/D 10 jts 4-1/2" in V-Door	
00:30	02:00 -	2:30	RIH from 9000' to 9355', tag sand.	
00:30	02:30 -	3:00	Break circ, close annular, reverse circ @ 9355'.	
03:00	03:00 -	6:00	Clean out sand from 9355' to 9429', circ b/u on each single down.	
00:30	06:00 -	6:30	Pre tour safety check and service rig.	
11:00	06:30 -	17:30	Reverse circ sand out from 9429' to 9705'.Had pressures up to 1500 PSI without losses.	
01:30	17:30 -	19:00	2" return hose plugged off, Changed hose out, Pre tour safety checks.	
01:00	19:00 -	20:00	Continued to reverse circulate sand out from 9705' to 9720', tagged packer.	
01:00	20:00 -	21:00	Pump down tbg, latch on to f-plug in packer, circ dwn tbg, pmp'g 2-20bbl hi vis sweeps.	
03:00	21:00 -	24:00	Change over to clean saltwater, pump returns to production V - 9 .	
	-			
	-			
	-		Note: No fluid losses to formation were noted thru out clean out job. Had Reversing	
	-		pressure as high as 1500 psi. Also, Very little frac sand in clean out from where string took	
	-		weight at 9355' to top of river sand plug, at 9541'. Pumped sweeps as needed.	
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	-			
	-		AM Activities: POOH to run completion string.Loosing approximately 1.5 BPM since	
	-		pulling F-plug from sump packer at 03:30.	
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24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:3-CUSA; 22-Pool; 5-Service; Total=28:No Incidents & No-Non Compliance. Pool Crews Have Worked "57" Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 80 Sxs Xanvis : 180 Sxs Salt				API Well No: 58-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 12-Apr-97	

C-1 Frac.xls

MINERALS MANAGEMENT SERVICE APR 14 1997 SANTA MARIA

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 21	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture, Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
				Wind:	Seas:	Bar: POB: 29
Mud Type: Seawater				Wt: 8.5	PV:	YP: WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From: - To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Plan Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
04:30	00:00 - 04:30	Continue to POOH w/ 4-1/2" tubing.	
01:00	04:30 - 5:30	Rig up test assembly.	
00:30	05:30 - 6:00	Drain stack.	
05:30	06:00 - 11:30	Test B.O.P.w/ 3-1/2" & 4-1/2" tubing as per MMS & CHEVRON specs.	
00:30	11:30 - 12:00	Pooh test assembly & rig down same, Clear rig floor.	
01:30	12:00 - 13:30	Rig up Foster tongs & pooh w/ tubing & packer, R/D packer and subs Change dies in tongs.	
01:30	13:30 - 15:00	Make up Baker retrieving head, 3-1/2" tubing, X-O, rework dies in tongs.	
03:00	15:00 - 18:00	RIH w/ 4-1/2" tubing.	
00:30	18:00 - 18:30	Pre tour safety check.	
04:00	18:30 - 22:30	Continue to RIH F/3277' to 9000'	
01:30	22:30 - 24:00	Rig up hose to cmt stand pipe, m/u safety vlv w/ pump in sub,Prepare equip to reverse circ.	
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24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 22-Pool; 5-Service; Total=28:No Incidents & No-Non Compliance. Pool Crews Have Worked "56" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 80 Sxs Xanvis : 180 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 11-Apr-97	

C-1 Frac.xls

MINERALS MANAGEMENT SERVICE
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SANTA MARIA DISTRICT

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 20	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind: Seas: Bar: POB: 35

Mud Type: Seawater Wt: 8.5 PV: YP: WL:

Prod. Casing Size: 9.625" WT: 43.5 Grade: SS-95 Set @ MD: 9,415' TVD: 7114' Cmt. Top @

Liner Size: 7" Wt: 26 Grade: L-80 Set@ MD: 10,498' TVD: 8,102' Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From: - To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Pre-Tour Safety Meetings: Crane operations, Rigging down CT Unit, Testing BOPE	
	-			
01:00	00:00	- 01:00	With coiled tubing at 9247' inside 4 1/2" frac string, pumped 10 bbl hi-visc sweep and	
	-		chased same with clean seawater to displace frac fluid.	
01:00	01:00	- 02:00	POOH with CT to 1500' while pumping 1/4 BPM to keep hole full.	
01:00	02:00	- 03:00	Moniter well. Flowing back frac fluid at less than 3 bbl/hr. No oil or gas.	
03:00	03:00	- 06:00	Finish POOH w/CT. Close well in on master valve. Purge CT with nitrogen.	
01:00	06:00	- 07:00	Pre-Tour safety check.Check well for pressure, 75 psi.	
04:00	07:00	- 11:00	Rig down Schlumberger coiled tubing unit.	
01:00	11:00	- 12:00	Rig up flowlines on top of master valve to choke manifold. Open valve. Had less than 100	
	-		psi on tubing. Open flowine from tubing to pits and moniter flowback. Less than 2 BPH.	
00:30	12:00	- 12:30	Platform H2S alarm. Secure well and muster in safe briefing area.	
01:00	12:30	- 13:30	Open well again and moniter flowback. Bled pressure off annulus. Back out donut screw.	
03:00	13:30	- 16:30	Pick up on tubing 5' and open dump valve on packer at 9240'. Reverse circulated 2 tubing	
	-		volumes. Had approx 1 bbl of oil and trace of gas to surface on 1st bottoms up.	
01:30	16:30	- 18:00	Rig down master valve from top of tubing and install TIW valve. Pull tubing hanger to	
	-		rig floor. Lay down same.	
01:30	18:00	- 19:30	Pre-Tour safety check.Change elevators. Pull 7 stands of 4 1/2" tubing so Packer above	
	-		7" liner top by 240'.	
01:30	19:30	- 21:00	Make up IBOP on top of tubing. Make up test plug and RIH on 4 1/2" tubing. Secure	
	-		hanger with Donut screws. Rig up hose from casing head to possum belly to moniter	
	-		well. Fill BOP stack with seawater.	
03:00	21:00	- 24:00	Attempt to test lower pipe rams. No test, no visible leaks. Pull test plug to inspect. Found	
	-		half of seal ring badly worn. Weight of tbg string under test plug causing test plug to drag	
	-		against drawworks side of riser and stack, damaging seal. Will POOH with tubing string	
	-		and attempt to retest BOPE.	
	-		Note: Test safety valves, IBOP's, and choke manifold while reverse circulating well	
	-		clean.	

24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 23-Pool; 11-Service; Total=35:No Incidents & No-Non Compliance. Pool Crews Have Worked "55" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Daily Mud Cost:	Daily Tang. Cost:	Daily Well Cost:	AFE Number: WVR66277
Cum Mud Cost:	Cum Tang Cost: $6,960	Cum Well Cost:	Total Appr: $1,214,200
Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 80 Sxs Xanvis : 180 Sxs Salt			API Well No: 56-045-20062

C-1 Fr0.xls

4/10/97

MMS ... APR 11 1997

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 19	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 33
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup

Post-it® Fax Note 7671 Date # of pages ▶ 1

To Dan Knowlson From Laura Phillips

Co./Dept. MMS - SM Co. Chevron

Phone # 922-7958 Phone # 658 4493

Fax # 925 8546 Fax # 658 4405

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed tripping pipe, & crane safety.	
	-			
02:30	00:00	02:30	With coiled tubing at 9247', pumped hi-visc sweep and circ around.	
01:30	02:30	04:00	Circulate While POOH w/CT to 3000'.	
01:30	04:00	05:30	Circulate While RIH w/CT to 6200'. Notice 30 bbl pit gain. Stop pumps and check for flow.	
	-		Well flowing, shut-in at valve on flow tee.	
01:30	05:30	07:00	Moniter well pressure. Crew change and Pre-tour Safety Inspection.SITP = 1025 psi	
	-		SICP = 1020 psi after 1 1/2 hrs and rising slowly. Ballooned formation giving back frac	
	-		fluid slowly.	
02:00	07:00	09:00	Open flo-tee valve and bleed off pressure. No oil or gas. Well flowing approx. 15 bbls/hr.	
	-		Start circulating coiled tubing and RIH to 9240' and shut well in to monitor pressure.	
00:30	09:00	09:30	Platform H2S Alarm. Secure well and muster in safe briefing area. Alarm in Prod facilities.	
01:00	09:30	10:30	Check pressures. SITP = 807psi & SICP = 800 psi. POOH w/CT while circ at 1/4 BPM	
	-		to 1500'.	
01:00	10:30	11:30	Monitor well flow. 16 bbls in 1 hr.	
02:00	11:30	13:30	Monitor well flow. 16 bbls in 2 hr.	
00:30	13:30	14:00	Shut well in an monitor pressures. SITP = 552 psi; SICP = 500 psi.	
05:00	14:00	19:00	Continue to monitor flowback. Flowed back approx 37 bbls. Flow rate down to +- 4 BPH.	
	-		No oil or gas to surface.	
02:00	19:00	21:00	RIH w/CT from 1500' to 9247' circulating at 1.8 BPM.	
01:30	21:00	22:30	Pump HI-visc sweep and circulated around. Had some frac sand in returns.	
01:30	22:30	24:00	Pump 2nd sweep and chase with clean seawater to displace CT and frac string.	
	-			
	-		Note: flowed back approx 130 bbls thru out day. At 04:00 well still flowing back at less	
	-		than 3 bbl/hr. Prep to rig down Coiled tubing.	
	-			
	-		Tranferred 500 bbls of wellbore frac fluid to Dual mud tank and 100 bbls to Pool reserve	
	-		tank #5 for production to dispose of.	

24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To				Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:		Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 22-Pool; 10-Service; Total=33:No Incidents & No-Non Compliance. Pool Crews Have Worked "54" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Sulf X ; 6.5 Drums Scale X ; 60 Sxs Xanvis ; 180 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 9-Apr-97	

C-1 Frac.xls

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 18	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 33
Mud Type: Seawater	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @

Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From: - To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "D"	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "FB-1" Retainer	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Held pre-tour safety meeting:Discussed running coiled tubing.	
	-		
06:00	00:00 - 06:00	Dump reserve pits. Offload & backload M/V "Jolly Roger". Clean deck.	
06:00	06:00 - 12:00	Rig up Coiled Tubing Unit. Test blind rams as per MMS & Chevron regulations. 250 Psi	
	-	low pressure side-4,500 Psi high pressure side. Test OK.	
12:00	12:00 - 24:00	RIH w/Coiled tubing, circulating out frac sand inside 4 1/2" tubing from 105' to 9247'. Circ.	
	-	bottoms up every 1,000' going in hole. At Midnight, circulating out frac sand from 9,247',	
	-	to perforated pup joint below packer. Pumped sweep and circulated around.	
	-		
	-	Will circulate out to 3000', RIH and check for fill prior to POOH w/CT and R/D.	
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	-	Note: Mr. Bob Hime with MMS on board for inspection.	
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Post-it® Fax Note 7671 | Date | # of pages ▶ 1

To Dan Knowlson	From Lenna Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 1958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: Test CT BOPE to 250/4500 psi. Circ in hole, cleaning out frac sand in 4 1/2" tubing. Circ B/U every 1000'. Circ Sweep at 9247' at midnite.

Fluid Lost To Formation | Daily: 0 | Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:2-CUSA; 22-Pool; 10-Service; Total=34:No Incidents & No-Non Compliance. Pool Crews Have Worked "53" Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X ; 6.5 Drums Scale X ; 60 Sxs Xanvis ; 180 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 8-Apr-97	

C-1 Freeze

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 17	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp. Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Wind:	Seas:	Ber:	POB: 41
Wt: 8.5	PV:	YP:	WL:

Mud Type: Seawater

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498' TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From: - To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,820' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting. Topics: 1) Crew change, discussed long operator 1st	
	-		aide accident.	
	-			
04:00	00:00	- 04:00	Clear deck of Frac Equipment & unload Coiled Tubing Equipment.	
18:00	04:00	- 22:00	Rig up 1 1/2" coiled tubing unit and Bowen Preventers.	
	-		Repair Rig Accumulator. Rig up discharge line from	
	-		Active pits to pump To V-9. Stab coiled tubing thru injection head.	
	-		Clean active pits, fill active pits with mud	
02:00	22:00	- 24:00	Test coiled tubing BOPs to 250 PSI low and 4500 PSI high. (Blind rams would not test).	
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	-			
	-		Note: Mr. Bob Mense with MMS on board for rig inspection.	
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Post-it® Fax Note 7671 | Date | # of pages ▶ 1

To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922-7958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: Clear Deck Of Frac Equipment & Offload Coiled Tubing Equipment. Rig Up Coiled Tubing Equipment. Rig up discharge line to pump active pits to To V-9. Attempt test on Bowen Preventers. Blinds failed.

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 22-Pool;8-Service; Total=31:No Incidents & No-Non Compliance. Pool Crews Have Worked "52" Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 80 Sxs Xanvis : 180 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 7-Apr-97	

Chevron — Point Arguello — OCS-P 0450 — C-1 — Daily Completion/WO Report — Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 16	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'			
Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'				
				Wind:	Seas:	Bar:	POB: 41		
Mud Type: Seawater				Wt: 8.5	PV:	YP:	WL:		
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @				
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:			

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data: Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting topics:1)On going frac job (High pressure lines & noise).	
	-			
01:00	00:00	- 01:00	Rig down frac lines & rig up wireline.	
02:00	01:00	- 03:00	RIH with wireline to retrieve bombs.	
01:00	03:00	- 04:00	Rig down wireline & rig up frac lines.	
05:00	04:00	- 09:00	Mix frac fluid. (Had trouble getting gel to hydrate due to cold weather).	
02:00	09:00	- 11:00	Held safety meeting. Performed Mini-frac.	
05:00	11:00	- 16:00	Cleaned mud pumps, worked on accumulator and hydraulic unit.	
02:00	16:00	- 18:00	Held safety meeting. Performed frac - well screened out while pumping at 6 ppg.	
		-	Attempted to flow to V-9 (Production), well would not back flow.	
06:00	18:00	- 24:00	Cleaned platform to make room for coiled tubing.	
		-		
		-	NOTE: R. Quilter, Chevron production engineer to provide details of mini-frac and frac jobs	
		-	In separate report.	
		-		
		-		
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		-		
		-		
		-		
		-		
		-	A.M. Continue to make room for coil tubing equipment on platform, unload coiled tubing	
		-	from work boat. Rigging up coil tubing.	
		-		
		-	NOTE: Mr. Bob Hime w/ MMS on board to witness mini-frac.	
Revised			4/6: Rec'd variance f/ Bob Hime, MMS, to delay BOPE test until rig is ready to pull pipe.	

24 hr Summary: RIH with wireline to retrieve bombs.Rig down wireline & rig up frac lines, mix frac fluid, & performed mini frac. Held safety meeting & performed frac. Cleaned platform to make room for coiled tubing.

Fluid Lost To Formation — Daily: — Cumulative: 19,449

Hours Charged To: Contractor	Chevron	Travel:	Hours Used: Tongs:	Circ. Equip:	Other Charges
0	24				Safety Meeting

Remarks: POB:2-CUSA; 22-Pool;18-Service; Total=41:No Incidents & No-Non Compliance. Pool Crews Have Worked "51" Days W/Out LTA.

Chevron %: 26.32 — H_2S: None — Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No:	56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 6-Apr-97		

C-1frecals

APR - 7

"Post-it" Fax Note 7671 | Date | # of pages ▶ 1

To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922-7958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 15	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'	
Job Description: Remove ESP Completion. Temp. isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 18'	Orig KB Elev: 133'		
			Wind:	Seas:	Bar:	POB: 41	
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:	
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Pre-tour safety meeting Topics:1) Discussed inspection of equipment before use.Proper	
	-	operation of hydraulic tongs.	
	-		
04:00	00:00 - 04:00	Continue RIH testing tubing for leaks. Tested tubing to 3,200 Psi. Test O.K.	
02:00	04:00 - 06:00	Make up tubing hanger & RIH & set frac packer W/50,000 down weight.-Set hanger &	
	-	secure. Make up tubing flange.	
01:00	06:00 - 07:00	Rig up hose for casing test. Test casing to 2,500 Psi. Test O.K.	
03:30	07:00 - 10:30	Rig up frac head, clean rig floor.	
07:30	10:30 - 18:00	Test Dowell surface lines to 7,500 Psi.Test OK.Test tubing to 6,000 Psi, test Ok. Test	
	-	pressure release valve to 8,156 Psi. Test OK. Rig down Dowell, R/U & RIH W/pulling	
	-	tool to pull "XX" plug from X-Nipple @ 9,249', RIH W/Quartz pressure gauges & set in XN	
	-	nipple @9,260'. Rig down wireline.	
01:30	18:00 - 19:30	Rig up frac lines.	
04:30	19:30 - 24:00	Test frac lines & begin data frac.	
	-		
	-	AM activity: Rig down frac lines, & R/U wireline to RIH & retrieve bombs.	
	-	Rig down wireline, & rig up frac lines. Mix frac fluid.	
	-		
	-	Note: Mr. Bob Hime with MMS on board to witness Data Frac.	
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24 hr Summary: RIH checking for leaks.RIH & Set Frac packer, land tbg. hanger & secure. Test casing to 2,500 Psi. Test O.K. Test tubing, RIH & pull "XX" plug. Run pressure gauges. R/U & test frac lines. Begin data frac.

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:2-CUSA: 22-Pool:18-Service: Total=41:No Incidents & No-Non Compliance. Pool Crews Have Worked "50" Days W/Out LTA.

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 5-Apr-97	

C-1 Frac.xls

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Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 14	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 46
Mud Type: Seawater	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From:	To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510'	9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From - To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Held pre-tour safety meeting; Discussed POOH.	
	-		
02:00	00:00 - 02:00	RIH with wireline & set "XX" plug in "X" Nipple @ 9249' -POOH with wireline.	
07:00	02:00 - 09:00	Rig up Dowell/Schlumberger frac lines to test tubing, pump & lines to 6,000 Psi.	
	-	Unable to get good test on tubing, communicates to annulus.	
01:00	09:00 - 10:00	Rig down frac head - Unland tubing hanger & release packer.	
08:00	10:00 - 18:00	POOH with 4 1/2" frac string wet looking for leaks. Tested tubing w/ tail @ 8283', pumped	
	•	away @ 500 PSI. With tubing tail @ 5470' tubing tested to 2500 PSI O.K.	
06:00	18:00 - 24:00	RIH w/ tubing, spidering in hole. Found loose connections @ 2196', 2010 & 1085'.	
	•	Tested tubing every ten stands in hole.	
	-		
	-		
	-		
	•	AM Activity: RIH testing for leaks in tubing. M/U landing joint & set frac packer.	
	-		
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	•	NOTE: Held H2S drill @ 16:30.	
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	-	NOTE: Mr. Bob Hime W/ MMS on platform.	
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24 hr Summary: RIH with wireline to set plug in X-Nipple. Rigged up & tested frac lines & tubing. Leak in tubing. Rig Down feec head, POOH yesting for leaks.

Fluid Lost To Formation Daily: Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB:1-CUSA; 22-Pool;6-Service; Total=29:No Incidents & No-Non Compliance.Pool Crews Have Worked"46"Days W/Out LTA.

Chevron %: 26.32 | H_2S: None | Accidents: (1)1st Aid

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel

API Well No: 56-045-20062

Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 4-Apr-97

C-1 Frac.xls

APR - 7

Chevron Point Arguello OCS-P 0450 C-1

Daily Completion/WO Report

Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 13	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 46
Mud Type: Seawater Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd	9,223'		

Packer Set At:	Type	Perforations From: - To:	Details
9,234'	Baker Model "EA" Retrievamatic	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,710'	Baker Model "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
9,850'	Baker Model "D"	9,876' - 9,998'	.42" Diameter @ 6 SPF

Plan Top @ Description: Baker Model

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed frac job starting tonight (high noise level) & high	
	-		pressure lines.	
	-			
02:00	00:00	- 02:00	Rig up Gatorhawk. Held pre-job safety meeting. Test frac assembly to	
	-		6,000 Psi.	
15:00	02:00	- 17:00	RIH with frac string, testing with Gatorhawk while RIH. Test to 6,000 Psi.	
02:00	17:00	- 19:00	Rig down Gatorhawk. Set Baker "EA" Packer @ 9,234' with 51K down weight & land tubing	
	-		hanger. Attempt to test back side to 2,500 Psi. - Failed to test.	
03:00	19:00	- 22:00	Unseated packer & pull up to change seals in FMC hanger. Change out seals, Reset Packer &	
	-		& landed tubing hanger- tested back side to 2,500 Psi. Test okay.	
02:00	22:00	- 24:00	Installed frac head & Rig up Golden State wireline.	
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	-		A.M. Activity : Set Wireline Plug in "X" Nipple.	
	-		Rig up frac lines. Pressure testing lines & tubing to 6,000 Psi.	
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	-		NOTE: Mr. Bob Himes On Board to Wit	
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Post-it® Fax Note 7671 | Date | # of pages ▶ 1

To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 1958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: Make up Frac assembly-Test same. RIH with frac string, testing with Gatorhawk while RIH. Set Baker "EA" Packer, & land tubing hanger, test back side to 2,500 Psi, Install frac head & R/U Golden State Wireline.

Fluid Lost To Formation | Daily: 0 | Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 3-CUSA; 22-Pool;21-Service; Total=46 No Incidents & No-Non Compliance. Pool Crews Have Worked "48" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 78 Sxs. MI Gel | API Well No: 56-045-20062

Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 3-Apr-97

C-1 Frac.xls

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 12	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 41
Mud Type: Seawater	Wt: 8.5	PV:	YP:	Wt:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd			

Packer Set At:	Type	Perforations From: - To:	Details
9,710'	Baker Model "D"	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker Model "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
5	2 7/8" Mule Shoe, 2 7/8" XN-Nipple, 2 7/8" Blast Jt., 2 7/8" X-Nipple			
	2 7/8" Pup Jt., 7" Baker "EA" Packer, XO, XO, 4-1/2" Pup Jt.			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed frac job (high pressure), lot of extra equipment on	
	-		board. Discussed testing With Gatorhawk to 6,000 Psi.	
	-			
02:30	00:00	- 02:30	Continue to RIH with Model "F" plug. Spider in hole to packer @ 9,710' - (located @ 9746' tbg meas.)	
02:00	02:30	- 04:30	Latched plug in packer & worked off of plug. Pulled to 9,476'.	
00:30	04:30	- 05:00	Rig up BJ Services to set sand plug, plug to be 4100 lbs of 20/40 sand .	
02:00	05:00	- 07:00	Set sand plug & displace same. Work pipe while placing sand.	
02:00	07:00	- 09:00	POOH to 9,520. Made up landing joint & hanger. Landed hanger on wellhead.	
02:00	09:00	- 11:00	Rig up Schlumberger wireline. RIH with same- Locate fill @ 9,541'.	
01:30	11:00	- 12:30	POOH with wireline & rig down same.	
01:00	12:30	- 13:30	Tested hanger, fat. nip & landing jt. to 7,700 Psi. Test Ok.	
00:30	13:30	- 14:00	Rig down test assembly.	
07:30	14:00	- 21:30	POOH standing back tubing. Measure out of hole.	
00:30	21:30	- 22:00	Laydown running/retrieving assembly.	
02:00	22:00	- 24:00	Make up 2 7/8" frac packer w/ accessories.	
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	-		AM Activity: RIH with 4 1/2" Frac string-Testing with Gatorhawk	
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Post-it® Fax Note 7671 | Date | # of pages ▶ 1

To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 7958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: RIH with Baker Model "F" plug, set sand plug, RIH with wireline & tag fill @ 9,541. POOH with wireline & rig down same. Test hanger to 7,700 Psi , laydown packer assembly & make up 2 7/8" Frac assembly & test to 6,000 Psi.

Fluid Lost To Formation | Daily: | Cumulative: 19,449

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 2-CUSA; 21-Pool;18-Service; Total=41 No Incidents & No-Non Compliance. Pool Crews Have Worked "47" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 2-Apr-97	

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 11	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 39
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: S95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.			
4 1/2"	12.75	L-80	501 Hyd			

Packer Set At:	Type	Perforations From: - To:	Details
9,710'	Baker Model "D"	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker Model "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
4	Baker Model "F-1" Plug			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed slipping & cutting drill line & up coming frac.	
	-			
02:30	00:00	- 02:30	Continue RIH with Schlumberger wire line. Set Baker 7" Model "D" Packer @ 9,710'.	
02:00	02:30	- 04:30	POOH with wireline. Rig down Schlumberger. Pull rotary table, rig down shooting flange. Nipple	
	-		up pitcher nipple & re-install rotary table.	
03:30	04:30	- 08:00	Hang blocks, slip & cut drill line. Continue to pump down annulus. Service rig.	
03:00	08:00	- 11:00	Make up BHA & RIH with 12-stands of 3 1/2" Hydril 501 tubing. Rig down 3 1/2" handling	
	-		equipment & rig up 4 1/2" handling equipment.	
06:00	11:00	- 17:00	Rig hydraulic tubing tongs down for the repairs.	
01:00	17:00	- 18:00	Tubing tongs repaired. RIH with 4 1/2" Hydril 501 tubing.	
06:00	18:00	- 24:00	Continue to run in hole w/ Model "F" Plug.	
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	-		A.M. Activity: Set Plug in Model "D" Packer and Release From Plug.	
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	-		NOTE: Mr. Bob Hime with MMS visited Platform.	
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	-			

Post-it® Fax Note 7671 | Date | # of pages ▶ 1
To Don Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 7958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: RIH with wireline & set 7" Baker Model "D" packer @ 9,710. POOH & rig down wireline. Slip & cut drill line.
RIH with Mdl "F" Plug on 3 1/2" & 4 1/2" Hydril 501 tubing.

Fluid Lost To Formation | Daily: 1,340 | Cumulative: 18,109

Hours Charged To			Hours Used		Other Charges
Contractor: 6	Chevron: 18	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 2-CUSA; 22-Pool;15-Service; Total=39 No Incidents & No-Non Compliance. Pool Crews Have Worked "45" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 76 Sxs. MI Gel				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 1-Apr-97	

Chevron — Daily Completion/WO Report

Point Arguello | OCS-P 0450 | C-1 | Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 10	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'	
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'		
			Wind:	Seas:	Bar:	POB: 40	
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:	
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'	Recovered	

Packer Set At:	Type	Perforations From:	To:	Details
		9,510'	9,570'	.50" Diameter @ 4 SPF
		9,620'	9,830'	.42" Diameter @ 6 SPF
		9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data: Number	Type	Serial Number
3	7" Baker Retrieve-O-Matic, 3-XO Subs, & 4 12" Tubing.			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed handling drill pipe, slips, trips, & falls.	
	-			
01:00	00:00	- 01:00	Finished testing BOPE as per Chevron & MMS regulations- 250-low side- 3,000 high side.	
	-		Each test held for 5-minutes. Tested BOPE W/3 1/2" & 4 1/2" tubing.	
01:00	01:00	- 02:00	Make up Model E-A retrieve-o-matic packer & RIH with same.	
00:30	02:00	- 02:30	Change out back-up dies in tubing tongs.	
03:30	02:30	- 06:00	RIH with 4 1/2" tubing & spider in hole. Held BOP trip drill & H2S drill with crew	
01:00	06:00	- 07:00	Held pre-tour rig inspection. Pump down tubing.	
04:00	07:00	- 11:00	Continue to RIH with Baker retrieve-o-matic packer.	
00:30	11:00	- 11:30	Rig up pump down assembly & fill hole.	
01:00	11:30	- 12:30	Set packer @ 9,093', fill hole. Attempt to test liner lap to 2,500 Psi, blew pop off on # -1 pump	
	-		Switched to # -2 pump & pressure test casing to 2,450 Psi for 30- minutes. No leak off.	
07:00	12:30	- 19:30	Pumped tubing & rat hole volume @ 5 BPM @ 270 Psi, unseat packer & POOH & Lay down	
	-		Same.	
02:00	19:30	- 21:30	Pull rotary table & nipple down pitcher nipple. Nipple up shooting flange, re-install rotary table,	
	-		rig up lubricator & pack-off & test pack-off to 300 Psi.	
02:30	21:30	- 24:00	Rig Schlumberger wire line, pick up Model "D" packer & RIH on wire line.	
	-			
	-			
	-			
	-		AM activity: Slip & cut drill line & RIH with Model "F" latch plug	
	-			
	-			
	-			
	-			
	-			
	-			
	-			

Post-it® Fax Note 7671 | Date | # of pages ▶ 1
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 1958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: Finish testing BOPE. RIH with Model "E-A" packer, POOH with same, test liner lap, R/U Schlumberger wire line & RIH with Model "D" packer.

Fluid Lost To Formation | Daily: 3,140 | Cumulative: 16,769

Hours Charged To: Contractor: 0	Chevron: 24	Travel:	Hours Used: Tongs:	Circ. Equip:	Other Charges: Safety Meeting

Remarks: POB: 2-CUSA: 24-Pool:14-Service: Total=40 No Incidents & No-Non Compliance. Pool Crews Have Worked "44" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Salt X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No:	56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521		Drilling Rep:	Keith Roberts
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1		Date:	31-Mar-97

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 9	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 31
Mud Type: Seawater			Wt: 6.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	
3 1/2"	9.3	L-80	501 Hyd.	7,290'	Recovered

Post-It® Fax Note 7671 | Date | # of pages ▶ 4
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922-1958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

Packer Set At:	Type	Perfs From:			
		9,510'	-	9,570'	.50" Diameter @ 4 SPF
		9,620'	-	9,830'	.42" Diameter @ 6 SPF
		9,876'	-	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
2	1-Lock set retrievable Bridge plug, Model "FL" on/off tool, XO sub, XO sub, 25-Jts. 3 1/2" 9.3# L-80 Hydril 501 Tubing.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed previous day near miss.	
00:30	00:00 -	00:30	Raised board in derrick due to larger elevators.	
04:30	00:30 -	05:00	Continue to RIH with 4 1/2" tubing to 9,100'. Set Baker 7" Loc-set bridge plug @ 9,100'	
01:00	05:00 -	06:00	Fill tubing and hole with 143 bbls seawater. Stop pump. Fluid level dropping.	
01:00	06:00 -	07:00	Held pre-tour safety check. Reset bridge plug and fill hole. Fluid level falling at 1.5 BPM rate.	
	-		Packer elements not set, dump valve not closing or liner lap is leaking.	
00:30	07:00 -	07:30	Attempt to J-off of packer with left-hand rotation, backed off of tubing at approximarely 3200'	
00:30	07:30 -	08:00	Locate top of fish and screw into same. Fill hole. Fluid level still falling away. Unseat packer.	
06:30	08:00 -	14:30	POOH to check workstring and bridge plug.	
00:30	14:30 -	15:00	Laydown packer.	
09:00	15:00 -	24:00	Make up test assembly. Test BOPE to 250/3000 psi for 5 minutes each as per Chevron &	
	-		MMS regulations. Tested with 3 1/2" and 4 1/2" tubing. Functioned BOPE from both Koomey	
	-		unit and BOP deck remote. One 3 1/2" TIW and one 3 1/2" IBOP failed to test. Have backups	
	-		on platform. Kept hole full by pumping 2.5 BPM thru wing valve during testing.	
	-			
	-			
	-			
	-			
	-		Note: MMS on board for inspection. (Bob Hime)	
	-			

24 hr Summary: Finish RIH with 4 1/2" tubing. POOH with packer & L/D same. Circulate well as needed. Test BOPE.

Fluid Lost To Formation | Daily: 3,600 | Cumulative: 13,629

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 2-CUSA; 22-Pool;14-Service; Total=38 No Incidents & No-Non Compliance. Pool Crews Have Worked "43" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 78 Sxs. MI Gel | API Well No: 56-045-20062

Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 30-Mar-97

C-1 Frac.xls

MAR 3 1 1997

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 8	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'	
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'		
			Wind:	Seas:	Bar:	POB: 31	
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:	
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'	Recovered	

Packer Set At:	Type	Perforations From: - To:	Details
		9,510' - 9,570'	.50" Diameter @ 4 SPF
		9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
1	6 1/8" bit, 7" casing scraper, xo, 25 jts of 3 1/2" tbg, xo,xo,xo 9 5/8"	1RR	reed	DM 6332
	casing scraper, xo,xo 4 1/2" tubing.			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
			Held pre-tour safety meeting: Discussed proper lifting techniques, tubing tongs & snub lines.	
06:00	00:00	06:00	Continue to strap, drift & RIH with 4 1/2" tubing. Circulate as needed.	
00:30	06:00	06:30	Service rig & conduct pre-tour inspection.	
09:00	06:30	0:930	Continue to RIH with 4 1/2" tubing, tag top of liner @ 9,018'.	
01:00	09:30	10:30	Rig up to pump down tubing, pump down same.	
03:30	10:30	14:00	Got back oil in returns. Shut down pump. Pumped returns & active pit to production V-9.	
06:00	14:00	20:00	POOH with 4 1/2" tubing. Circulate as needed. Install additional light on rig floor for safety purposes.	
02:00	20:00	22:00	Lay down 9 5/8" Casing scraper & X-0 sub, clear rig floor of same. Rig down 4 1/2" handling equipment & rig up to POOH with 3 1/2" tubing.. POOH with 3 1/2" tubing, laydown X-O sub, 7" casing scraper & 6 1/8" bit.	
01:00	22:00	23:00	M/U Baker bridge plug & RIH with 3 1/2" tubing.	
01:00	23:00	24:00	Rig down 3 1/2" handling equipment & rig up 4 1/2". Begin RIH with 4 1/2" tubing.	
			AM Activity: RIH with 4 1/2" tubing.	

24 hr Summary: Continue RIH with 4 1/2" tubing, circulate as needed. POOH & L/D bit & scraper BHA. RIH with Baker bridge plug.

Fluid Lost To Formation Daily: 1,100 Cumulative: 10,029

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 23-Pool; 7-Service; Total=31 No Incidents & No-Non Compliance. Pool Crews Have Worked "42" Days W/Out LT

Chevron %: 26.32 H_2S: None Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No:	56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521		Drilling Rep:	Keith Roberts
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1		Date:	29-Mar-97

C-1 Frac.xls

MAR 3 1 1997
DISTRICT

Chevron — Point Arguello — OCS-P 0450 — C-1 — Daily Completion/WO Report — Version 1

MINERALS MAR 31 SANTA

Spud Date:	Start Date: 3/22/97	Actual Days: 7	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133'

Mud Type:	Wind:	Seas:	Bar:	POB:
Seawater	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size:	WT:	Grade:	Set @ MD:	TVD:	Cmt. Top @
9.625"	43.5	SS-95	9,415'	7114'	

Liner Size:	Wt:	Grade:	Set@ MD:	TVD:	Top @MD:	TVD:
7"	26	L-80	10,498'	8,102'	9,018'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'	Recovered	

Packer Set At:	Type	Perforations From:	To:	Details
		9,510'	9,570'	.50" Diameter @ 4 SPF
		9,620'	9,830'	.42" Diameter @ 6 SPF
		9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data: Number	Type	Serial Number
1	6 1/8" bit, 7" casing scraper, xo, 25 jts of 3 1/2" tbg, xo,xo,xo 9 5/8"			
	casing scraper, xo,xo 4 1/2" tubing.	1RR	reed	DM 6332

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed offloading boat. Nomex clothing.	
06:00	00:00 -	06:00	Change out dies in Foster tongs. Pick up 4 1/2" Hydril tubing-Strap, drift & RIH with same.	
	-		Pump down kill line @ 2 BPM.	
00:30	06:00 -	06:30	Conducted rig floor inspection & held BOP drill.	
01:00	06:30 -	07:30	Continue to Pick up & RIH with 4 1/2" Hydril 501 tubing.. Pump down back side.	
02:00	07:30 -	09:30	Service rig, Work on koomey unit. Replace check valve on accumulator.	
10:00	09:30 -	19:30	Continue to pick up 4 1/2" tubing & RIH with same. Circulate as needed.	
03:00	19:30 -	22:30	Waiting on tubing. Service rig tongs & counter balance.	
01:30	22:30 -	24:00	Offload tubing from boat. Pick up, strap, drift & RIH with tubing. Circulate as needed.	
	-		Note: Continuing to RIH with 4 1/2" Hydril 501 tubing.	

Post-It® Fax Note 7671 | Date | # of pages ▶ 1
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 1958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: RIH with 4 1/2" Hydril 501 tubing, service rig, & wait on 4 1/2" Hydril 501 tubing.

Fluid Lost To Formation | Daily: 2,540 | Cumulative: 8,929

Hours Charged To: Contractor:	Chevron:	Travel:	Hours Used: Tongs:	Circ. Equip:	Other Charges
0	24				Safety Meeting

Remarks: POB: 1-CUSA; 23-Pool; 5-Service; Total=29 No Incidents & No-Non Compliance. Pool Crews Have Worked "41" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 78 Sxs. Mf Gel				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 28-Mar-97	

C-1 Frac.xls

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 6	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.Isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' | Orig KB Elev: 133' | Wind: | Seas: | Bar: | POB: 27 | Wt: 8.5 | PV: | YP: | WL: | Mud Type: Seawater

Prod. Casing Size:	WT:	Grade:	Set @ MD:	TVD:	Cmt. Top @
9.625"	43.5	S5-95	9,415'	7114'	

Liner Size:	Wt:	Grade:	Set@ MD:	TVD:	Top @MD:	TVD:
7"	26	L-80	10,498'	8,102'	9,018'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From:	To:	Details
6,692'	Otis "RDH" 9 5/8" Dual Packer	9,510'	9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
		9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data Number	Type	Serial Number
1	6 1/8" bit, 7" casing scraper, xo, 25 jts of 3 1/2" tbg, xo,xo,xo 9 5/8"			
	casing scraper, xo,xo 4 1/2" tubing.	1RR	reed	DM 6332

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Held pre-tour safety meeting: Discussed eye wash stations, use of H2S air packs.	
00:30	00:00 - 00:30	Pump down tubing.	
10:30	00:30 - 11:00	Continue POOH laying down tubing, SCSSV/dual packer assembly, ESP pump & motor.	
02:00	11:00 - 13:00	Rig down Hambros, clear rig floor of tubing equipment & clean oil off rig floor.	
01:30	13:00 - 14:30	Prepare rig floor to make up bit & scraper BHA. Make up same.	
01:30	14:30 - 16:00	RIH with BHA and 3 1/2" tbg to 786'.	
01:00	16:00 - 17:00	Make up test assembly on tubing hanger.	
02:00	17:00 - 19:00	Attempt to test upper & lower pipe rams and annular to 250/3000 psi with 4 1/2" tubing. Able to get low test on all rams, but high test leaks off 100 Psi in 5 minutes. Tighten up connections & retest. No visible leaks. Still unable to get high test. Possibly leaking passed tbg hanger.	
02:00	19:00 - 21:00	Pull tubing hanger and replace with test plug. Set same in well and secure with hold-downs.	
01:00	21:00 - 22:00	Test upper and lower pipe rams and annular to 250/3000 PSI with 4 1/2" tubing to Chevron and MMS specs using seawater. Held each test 5 minutes.	
02:00	22:00 - 24:00	Back out donut screws and pull test plug. Lay down same. Break down test head. Make up 9 5/8" casing scraper on top of 3 1/2" tubing. Measure, P/U drift and RIH with 4 1/2" tubing. Note: MMS on board for inspection, Bob Mense. Note: no bands or clamps lost in hole.	

24 hr Summary: Finish POOH L/D 3 1/2" tubing, jewelry & ESP pump & motor. Test 4 1/2" BOPE.

Fluid Lost To Formation Daily: 3,024 Cumulative: 6,389

Hours Charged To Contractor:	Chevron:	Travel:	Hours Used Tongs:	Circ. Equip:	Other Charges
0	24				Safety Meeting

Remarks: POB: 1-CUSA; 23-Pool; 3-Service; Total=27 No Incidents & No-Non Compliance. Pool Crews Have Worked "40" Days W/Out LT

Chevron %:	H_2S:	Accidents:
26.32	None	None

Materials On Hand:			API Well No:
63-Sxs. Suif X : 6.5 Drums Scale X : 78 Sxs. MI Gel			56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 27-Mar-97

C-1 Frac.xls

MAR 31 1997

MINERALS MANAGEMENT SERVICE
MAR 27 1997
SANTA MARIA DISTRICT

Chevron — Point Arguello — OCS-P 0450 — C-1 — Daily Completion/WO Report — Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 5	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'	
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'		
				Wind:	Seas:	Bar:	POB: 29
Mud Type: Seawater				Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: S-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From: - To:	Details
6,692'	Otis "RDH" 9 5/8" Dual Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

Post-it® Fax Note 7671 | Date | # of pages ▶ 1

To Dan Knowlson		From Lenna Phillips	
Co./Dept. MMS - SM		Co. Chevron	
Phone # 922 1958		Phone # 658 4493	
Fax # 925 8546		Fax # 658 4405	

BHA No:	Details:

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed H2S Alarms; electrical hazards	
	-			
01:00	00:00 -	01:00	R/D circulating lines from tbg. POOH w/SSSV and lay down same.	
	-			
08:30	01:00 -	09:30	Continue POOH, pressure washing and laying down production tubing and spooling control	
	-		line and ESP cable. Found holes in control line near 2108', 2170', 2232', 2604.	
	-			
00:30	09:30 -	10:00	Platform H2S alarm. Mask up and secure well. Lost platform power. Start emergency genset.	
	-		Wait on production to restore power. Stand down from alarm.	
	-			
14:00	10:00 -	24:00	Continue POOH, laying down production tbg and spooling control line and ESP cable.	
	-			
	-		NOTE: ESP cable has cracks in the armor coating every foot or so. Some places cable is	
	-		swelled to twice the original diameter. Cable releasing small amounts of H2S at surface.	
	-		Swelling started about 3900' and below.	
	-			
	-		Note #2: No bands or clamps lost in hole.	
	-			
	-		Note #3: ESP cable appears blown out 1' above splice at packer.	
	-			
	-			
	-		Activity at 06:00: Layed down packer and laying down last 15 joints between packer and pump.	
	-			
	-		Note: MMS on board for inspection.	
	-			
	-			
	-			
	-			

24 hr Summary: Cont POOH, cleaning. L/D Prod tbg. spooling control line & ESP cable. Respond to Platform H2S alarm.
Cont POOH.

Fluid Lost To Formation — Daily: 3,000 — Cumulative: 3,365

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 23-Pool; 5-Service; Total=29 — No Incidents & No-Non Compliance. Pool Crews Have Worked "39" Days W/Out LTA

Chevron %: 26.32 — H_2S: None — Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No:	56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: Keith Roberts		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 26-Mar-97		

Chevron — Point Arguello — OCS-P 0450 — C-1 — Daily Completion/WO Report — Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 3	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 25
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From: - To:	Details
6,692'	Otis "RDH" 9 5/8" Dual Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:

Post-it® Fax Note 7671 — Date — # of pages ▶ 1

To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 7958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight
	-		Held pre-tour safety meeting: Discussed checking power tongs out completely. Held rig floor
	-		safety meeting to discuss pulling pipe. Discussed situations that might be encountered as for
	-		as pressures & H2S.
	-		
07:30	00:00 -	07:30	Continue testing BOPE with seawater to Chevron & MMS regulations- 250 PSI low ; 3,000
	-		PSI high, held test for 5-min. Function tested pipe rams.
01:00	07:30 -	08:30	Break out & lay down test assembly.
01:00	08:30 -	09:30	Make up landing joint & screw into doughnut.
01:30	09:30 -	11:00	Pulled on tubing to 150 K. Had to shut down due to alarms going off in doghouse.
00:30	11:00 -	11:30	Continued pulling on packer. Packer free @ 175K.
02:30	11:30 -	14:00	Prepare rig to pull tubing.
04:00	14:00 -	18:00	Attempt to pull tubing, hanger hung up in pitcher nipple. ID of pitcher nipple too small to pull
	-		hanger through. Rig up to pump on tbg. Attempted to hang tubing hanger off in well head.
	-		Attempt unsuccessful, tubing would not go down.
02:00	18:00 -	20:00	Work tubing hanger-Attempt unsucceseful. Pump down tubing @ rate of 4 Bbbl per minute.
	-		Encountered heavy oil returns @ 19:50 hours. Closed annular & pumped oil to production
	-		thru V-9 @ 20:00 hours W/ 2 Bbls per minute.
03:00	20:00 -	23:00	Continue to pump to production W/annular closed W/partial returns @ 2 Bbl/min.
01:00	23:00 -	24:00	Pump down annulus @ 2 Bbls per minute W/no returns. Work tubing.
	-		
	-		
	-		
	-		A.M. Continue to pump water in well & begin stripping off rotary table and picture nipple.
	-		
	-		
	-		NOTE: Mr. Roy Bobbitt of the MMS inspected the drilling operations.
	-		
	-		

24 hr Summary: Finish testing BOPE. Released packer. Circulated oil to production.

Fluid Lost To Formation — Daily: 700 — Cumulative: 700

Hours Charged To			Hours Used		Other Charges
Contractor: 10	Chevron: 14	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 21-Pool; 7-Service; Total=29 No Incidents & No-Non Compliance. Pool Crews Have Worked "37" Days W/Out LTA

Chevron %: 28.32 — H_2S: None — Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 78 Sxs. MI Gel				API Well No:	56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521		Drilling Rep:	J. W. DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1		Date:	24-Mar-97

MINERALS MANAGEMENT SERVICE MAR 25 1997 PACIFIC OCS REGION SANTA MARIA FIELD OFFICE

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 4	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 29
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9.625"	WT: 43.5	Grade: S-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From: - To:	Details
6,692'	Otis "RDH" 9 5/8" Dual Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:

Post-it® Fax Note 7671 | Date | # of pages ▶ 1

To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 7958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Area
	-		Held pre-tour safety meeting: Discussed shut in procedures W/ESP cable. Handling SSSV.	
	-			
04:30	00:00 -	04:30	Circulate well, taking oily returns to production. Waiting on equipment. Unloaded Woodco	
	-		bowl & slips & pitcher nipple.	
06:00	04:30 -	10:30	Rig up to pull rotary table & pitcher nipple. Production issued work permit to remove flow line	
	-		outlet from pitcher nipple. Remove rotary table & pitcher nipple. Lay down pitcher nipple.	
01:30	10:30 -	12:00	Set slips on top annular. Production electrician disconnected cable from tubing hanger.	
04:00	12:00 -	16:00	Rebuild pitcher nipple with full bore ID.	
01:30	16:00 -	17:30	Make up rebuilt pitcher nipple. Re-install rotary table.	
00:30	17:30 -	18:00	Pump down tubing @ 3.5 BPM. Pumped total of 65 Bbls.	
02:00	18:00 -	20:00	Continue to pump down tubing. Rigged up Hambros sheaves for pulling control line.	
00:30	20:00 -	20:30	Held rig floor safety meeting to discuss operations pulling tubing & well control procedures.	
03:00	20:30 -	23:30	POOH standing back 3 1/2" tubing cutting bands, spooling control lines & ESP cable to SSSV.	
00:30	23:30 -	24:00	Rig up & circulate through SSSV @ 4 BPM prior to L/D same.	
	-			
	-			
	-			
	-			
	-		Note: (Rig Down Time) 10-Hours to pull & modify pitcher nipple.	
	-			
	-		AM Activity: Continuing to L/D tubing & spool ESP cable & control lines. Pressure washing &	
	-		steam cleaning oil from tubing.	
	-			
	-		Note: Deep set control line parted @ flat spot above 1st gas lift mandrill. Had to re-sheave	
	-		line.	
	-			
	-			
	-			

24 hr Summary: Rig down pitcher nipple & modify same. Circulate well. Install rebuilt pitcher nipple. POOH with tubing , cut bands & spool control line & ESP cable.

Fluid Lost To Formation Daily: 665 Cumulative: 1,365

Hours Charged To			Hours Used		Other Charges
Contractor: 10	Chevron: 14	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 21-Pool; 7-Service; Total=29 No Incidents & No-Non Compliance. Pool Crews Have Worked "38" Days W/Out LT

Chevron %: 26.32 | H_2S: None | Accidents: None

Materials On Hand:	63-Sxs. Sulf X : 6.6 Drums Scale X : 78 Sxs. MI Gel			API Well No:	56-045-20062
Profit Center:	WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	J. W. DeGraffenreid
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	25-Mar-97

Chevron — Point Arguello — OCS-P 0450 — C-1 — Daily Completion/WO Report — Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 2	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'	
Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.				KB Correction: 16'	Orig KB Elev: 133'		
			Wind:	Seas:	Bar:	POB: 25	
Mud Type: Seawater			Wt: 8.5	PV:	YP:	WL:	
Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018'	TVD:	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From:	To:	Details
6,892'	Otis "RDH" 9 5/8" Dual Packer	9,510'	9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620'	9,830'	.42" Diameter @ 6 SPF
		9,876'	9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed testing BOPE, 1st day operation on well work, take time	
	-		to do job safely.	
	-			
15:00	00:00	- 15:00	Install Class IV BOPE, Rig Up choke & kill lines, install picture nipple & koomey lines.	
	-		Chain BOPs to sub base.	
	-			
01:30	15:00	- 16:30	Pressure up accumulators, change fittings on stack & fix leaks.	
	-			
01:30	16:30	- 18:00	Rig up test pump & lines, fill stack. Production checked V-9 on well head.	
	-			
06:00	18:00	- 24:00	Test BOPE per MMS & CUSA regulations, 250 PSI low & 3000 PSI , held each f/ 5 min.	
	-			
	-			
	-			
	-		A.M. = Finish testing BOPs, release packer and POOH.	
	-			
	-			
	-		Note: Held platform H2S drill @ 17:00.	
	-			
	-			
	-			
	-			
	-			
	-			
	-			
	-			
	-			

24 hr Summary: Install class IV BOPE, choke & kill lines. Secured BOP'S to sub base. Rigged up test pump & test lines. Filled stack. Testing BOPE as per Chevron & MMS regulations.

Fluid Lost To Formation — Daily: — Cumulative:

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 24	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 21-Pool; 3-Service; Total=25 No Incidents & No-Non Compliance. Pool Crews Have Worked "36" Days W/Out LT

Chevron %: 26.32 — H_2S: None — Accidents: None

Materials On Hand: 63-Sxs. Sulf X ; 6.5 Drums Scale X ; 78 Sxs. MI Gel				API Well No:	56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 23-Mar-97		

C-1 Freeze

MAR 24 [illegible]

Chevron

Daily Completion/ Report

Spud Date: 11/26/1987	Start Date: 12/23/1991	Actual Days: 7	Auth. Days: 4	MD: 10498	TVD: 9415	PBTD: 10412
Job Description: REPLACE FAILED PKR. & INSTALL RETAINER				KB Correction: 59.2		Orig KB Elev: 59.2
			Wind:	Seas:	Bar:	POB: 62
Mud Type: POTASSIUM CHLORIDE (KCL)		Wt: 8.8	FV:	PV:	YP:	WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade:	Set @ 9415 MD	7414 TVD	Cmt. Top @ 0	
Liner Size: 7.000	Weight: 26#	Grade:	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
3.888	9.30	L-80	HYDRIL	7790	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
9850	FB-1 PKR. (BAKER) TAIL @ 9886.45'	9510	9570	4 - 1/2" HPF (240 TOTAL HOLES)
8947	HB PKR. (BAKER) TAIL @ 9109.80'	0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 0 Details:

Bit Data		
Number	Type	Serial Number
0		

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200	LAND & CHECK DONUT ORIENTATION P/U 10' S/O 8'
2.00	0200-0400	R/U G.S. WIRELINE. SET FB-2 STANDING VALVE IN F-NIPPLE @ 9054.90' WITH TBG TAIL @ 9109.80'
1.00	0400-0500	R/U HOWCO TO SET PKR. @ 8947.33' INITIAL SET @ +/- 1200 PSI. FINAL SET @ +/- 1800 PSI. STAGE UP TO MAX PRESS
	-	OF 4000 PSI. (HELD FOR 15 MIN. W & A BY PRODUCTION)
1.00	0500-0600	PULL FB-2 STANDING VALVE R/D G.S. WIRELINE. NOTE: USED105 SLICKLINE W/HYD. & SPANG JARS HAD NO TROUBLE PULLING
	-	STANDING VALVE SET UP WITH 2 SHEAR PINS.
5.00	0600-1100	LAND & CHECK DONUT ORIENTATION.LAND 20,000#.PACK OFF DONUT & TEST TO 5000 PSI. NOTE: HAD TO RETIGHTEN LOCK
	-	DOWN SEVERAL TIMES
1.00	1100-1200	R/U HOWCO TO TEST BACKSIDE TEST LINES TO 3000 PSI. TEST BACKSIDE TO 2000 PSI. (HELD FOR 15 MIN. W & A BY PROD)
0.50	1200-1230	NATIONAL SET BPV.
3.00	1230-1530	N/D BOPE. & RISER
1.50	1530-1700	ATTEMPT TO M/U BONNETT. ECCENTRIC TBG. HANGER ORIENTATION NOT WITHIN TOLERANCE TO ALLOW BONNETT INSTALLATION.
	-	(EVEN THOUGH TBG HEAD SLOT WAS INDEXED TO TBG HEAD REFERENCING STUD, CORRECT ALIGNMENT WAS NOT OBTAINED.)
	-	HNGR WAS +/- 3/8" OFF FROM ALLOWABLE TOLERANCE OF 1/8"OR 1/16" EITHER LEFT OR RIGHT.
5.00	1700-2200	N/U BOPE
2.00	2200-2400	TEST BLIND RAMS TO 250/5000 PSI. ATTEMPT TO TEST ANNULAR (ELEMENT NOT HOLDING)
	-	
	-	** RECIEVED VERBAL PREMISSION FROM SANTA MAIRA MMS MR.DALE ROBERTS THAT ACCEPTABLE BOPE TEST, UPON RE-N/U,
	-	COULD INCLUDE ONLY TESTING BLIND RAMS, CHOKE & KILL LINES AND TESTING ANNULAR.
	-	

Fluid Lost To Formation Daily: 0 Bbls Cumulative: 568 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	NONE

Remarks: OPERATION @ 0600 Hrs. CHANGE OUT ANN ELEMENT & TEST 250/3500 PSI. BACK OUT LOCKING STUDS. SCRIBING AND RE-ORIENTING TBG HNGR.

H_2S: NONE

Accidents: NONE

Daily Mud Cost: 0	Daily Tangible Cost: 0	Daily Well Cost: 27480	AFE Number: WFR16033	Chevron %: 50.000	
Cum Mud Cost: 9481	Cum Tangible Cost: 0	Cum Well Cost: 299276	Total Appropriated Cost: 274000		

Materials On Hand:

API Well Number: 5604520063

District: VENTURA DISTRICT	Rig: DUAL-45	Rig Phone: (805) 658-4592	Drilling Rep: SLEIGH/HARRIS
Field: PT. ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Dec 29, 1991

Chevron

CONFIDENTIAL Daily Completion Report

Spud Date: 11/26/1987	Start Date: 12/23/1991	Actual Days: 4	Auth. Days: 4	MD: 10498	TVD: 9415	PBTD: 10412

Job Description: REPLACE FAILED PKR. & INSTALL RETAINER		KB Correction: 59.2		Orig KB Elev: 59.2
	Wind:	Seas:	Bar:	POB: 66

Mud Type: POTASSIUM CHLORIDE (KCL)	Wt: 8.8	FV:	PV:	YP:	WL: 0.0

Prod. Casing Size: 9.625	Weight: 43.5#	Grade:	Set @ 9415 MD 7414 TVD	Cmt. Top @ 0
Liner Size: 7.000	Weight: 26#	Grade:	Set @ 10498 MD 8324 TVD	Top @ 9018 MD 7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
0.000	0.00			0	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
0		9510	9570	4 - 1/2" HPF (240 TOTAL HOLES)
0		0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 0	Details:	Bit Data		
		Number	Type	Serial Number
		0		

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
6.00	0000-0600	POOH W/PROD. STRING & L/D PRODUCTION JEWELRY
10.00	0600-1600	R/U SCHLUMBERGER RIH 9 5/8" GAUGE RING & JUNK BASKET TO TOP OF LINER @ 9018' PERF. W/E-LOG F/9510' T/9570'
	-	W/ 4-1/2" HPF 240 TOTAL HOLES MADE TWO GUN RUNS W/2-15' GUNS EACH RUN (TEST LUB. TO 500 PSI.) R/D SCHLUMBERGER
7.00	1600-2300	M/U & RIH W/ 7" 26# CSG. SCRAPER TO 10384' 28' OF FILL 388' OF RAT HOLE
1.00	2300-2400	POOH W/ CSG. SCRAPER
	-	
	-	
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	-	
	-	
	-	
	-	
	-	
	-	
	-	
	-	
	-	
	-	

Fluid Lost To Formation Daily: ~~88~~ 151 Bbls Cumulative: ~~396~~ 489 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	NONE

Remarks: OPERATION @ 0600 Hrs. RIH W/WLS 'FB-1' RETAINER

H_2S: NONE

Accidents: NONE

Daily Mud Cost: 225	Daily Tangible Cost: 0	Daily Well Cost: 31914	AFE Number: WFR16033	Chevron %: 50.000	
Cum Mud Cost: 9256	Cum Tangible Cost: 0	Cum Well Cost: 160766	Total Appropriated Cost: 274000		

Materials On Hand:

API Well Number: 5604520063

District: VENTURA DISTRICT	Rig: DUAL-45	Rig Phone: (805) 658-4592	Drilling Rep: SLEIGH/HARRIS
Field: PT. ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Dec 26, 1991

CONFIDENTIAL Daily Completion/WO Report

Chevron

Spud Date	Start Date 12/23/91	Actual Days 3	Auth. Days 4	Depth 10492' MD	TVD (10412' PBTD)
Job Description REPLACE FAILED PKR & INSTALL RETAINER			Present KB Correction	Original KB Elevation (Above Sea Level)	

Mud Type	Wt.	FV	PV	YP	Wt.

Existing Well Data

Prod. Casing Size 9 5/8" Weight 43.5# Grade Set @ 9415 MD TVD Cmt. Top @

Liner Size 7" Weight 26# Grade SET @ 10492' MD TVD Top @ 9048' MD TVD

Tubing

Size	Wt.	Grade	Threads	Depth	Details

Packer

Set at	Type

Perforations

From	To	Details

Fish

Top @	Description

BHA

Run No.	Details	Bit Data Type	Bit Data Serial Number
	NOTE: WEIGHT DOCUMENTED FOR P/U - S/O OF PKR STRING INCLUDE (30K FOR BLOCKS)		

Operations

Hrs.	(From – To)	Operation covering 24 hour ending at midnight
1½	0000 - 0130	CON'T. TO BREAK DOWN ANNULAR PREVENTER. FOUND SEAL KIT SENT OUT 12/24 PM. INCORRECT SEAL KIT. NOTE: FOUND ANNULAR ELEMENT HAD TWO CONCENTRIC WEAR AREAS DURING BREAK DOWN FOR SEAL R/O.
5½	0130 - 0700	WAITING ON REPAIR SEAL KIT
4	0700 - 1100	CON'T. REPAIRS ON ANNULAR PREVENTER.
1	1100 - 1200	TEST ANNULAR 250/3500 PSI - GOOD. COMPLETE BOP TEST: FUNCTION BOP F/REMOTE, CONDUCT ACCUM DRILL.
4½	1200 - 1630	BLEED 30 PSI F/ANNULUS T/PROD. CIRC 2 TBG VOLUMES. 164 BBLS KILL FLUID. GOT OIL BACK AFTER 35 BBLS CIRC, CHANGED TO OIL/H2O THEN 8.8 COMP FLUID W/TR OIL. MONITORED WELL - DEAD (0 PSI ANN - SLIGHT VAC TBG).
3½	1630 - 2000	BACK OUT LOCKING DOGS ON DONUT. RE-WORK DOGS & GLANDS. FILL BACKSIDE W/ 16 BBL GRAVITY FED
½	2000 - 2030	TEST RISER & TBG HEAD LOCKING DOGS & GLANDS TO 250/3000. TEST OK
½	2030 - 2100	SAFETY MTG. & TRIP DRILL 2035 HRS
1	2100 - 2200	P/U HANGER. WORK PKR 110↑, RS ↻, MAX PULL 185↑ 30' OUT.
2	2200 - 2400	L/D HANGER. DISPLACED ANNULUS W/ TBG. POOH W/ STRING L/D PRODUCTION JEWELRY. TALLY TBG OUT OF HOLE, FLUID LOSS 10-12 BBL/HR
		DIESEL 314 GAL WATER 2265 BBL

Fluid Lost To Formation: Daily 88 bbls Cumulative 338 bbls

Hours Charged To: Contractor 11	Chevron 13	Travel	Hours Used: Tongs	Circ. Equip.	Other Charges

Remarks: TOTAL LOSS OF 8.8 KILL FLUID TO WELL WAS ± 285 BBLS DURING INITIAL KILL (12-23-91) & CIRC TO PROD (12-25-91)

H2S

Accidents: NONE REPORTED

Exp.	Daily Mud	Daily Tangible	Daily Well 33,459	AFE No. 2WPC160053	Charge To 30
	Cum. Mud	Cum. Tangible	Cum. Well 128,852	Total Appr. 274,000	

Materials In Hand

Division VENTURA	Rig DUAL 45	Phone CTN 4582	Drilling Rep. T. HOLM / J. RAGSDALE	API Well No. 56-045-20043
Field PT. ARGUELLO	Lease OCS-P-0450	Well Number C-1		Page 1 of 1
				Date 12/25/91

Printed in U.S.A.

PRO-1240 (CD-5-89)

CONFIDENTIAL Daily Completion/WO Report

Spud Date	Start Date 12/23/91	Actual Days 2	Actl. Days 4	Depth 10490' MD	TVD (10462' PBTVD	
Job Description: REPLACE FAILED ARR & INSTALL RETAINER			Present KB Correction	Original KB Elevation (Above Sea Level)		
Mud Type	Wt.	FV	PV	YP	WL	

Existing Well Data

Prod. Casing Size 9 5/8" | Weight 43.5 # | Grade | Set @ 9415' MD | TVD | Cmt. Top @

Liner Size 7" | Weight 26 # | Grade | SET @ 10492' MD | TVD | Top @ 9018' MD | TVD

	Size	Wt.	Grade	Threads	Depth	Details
Tubing						

Packer	Set at	Type	Perforations	From	To	Details

Fish: Top @ Description

BHA

Item No.	Details	Bit Data: Type	Serial Number

Operations

Hrs.	(From – To)	Operation covering 24 hour ending at midnight
3	0000 - 0340	COMPLETE N/D OF ARMSTRONG TREE
8½	0340 - 1130	N/U RISER AND BOPE
1	1130 - 1230	R/U HOWCO AND TEST BLIND RAMS TO 250/5000 PSI
1½	1230 - 1400	M/U LANDING JTS. & SCREW INTO TBG. HANGER P/U KELLY & X OVER TO 3½" EU 8RD LANDING JTS.
5	1400 - 1900	PRESS. TEST 3½" PIPE RAMS, 2⅞" X 5" VARIABLE PIPE RAMS, CHOKE LINES & VALVES, KILL LINES & VALVES, HCR VALVE, CHECK VALVE, CHOKE MANIFOLD & VALVES, 3½" IF SAFETY VALVE & UPPER & LOWER KELLY VALVES TO 250/5000 PSI. TEST OK. TEST STAND PIPE & VALVES & KELLY HOSE TO 250/3500 PSI. UNABLE TO GET ANNULAR. RESCHEDULE TO TEST OTHERS TEST OK.
1	1900 - 2000	SWAB BACK KELLY. M/U AND FUNC TEST 3½" EUE 8RD SAFETY VALVE & 3½" IF INSIDE BOP TO 250/5000 PSI TEST OK.
4	2000 - 2400	PULL LANDING JTS. RIG DOWN FLOW NIPPLE. REMOVE ANNULAR PREVENTER OUTER H/CHANGE OUT CONFIGURATOR PISTON SEALS.
		DIESEL 3153 GALS WATER 1709 BBLS

Fluid Lost To Formation: Daily bbls Cumulative bbls

Hours Charged To			Hours Used		Other Charges
Contractor 4	Chevron 20	Travel	Things	Circ. Equip.	

Remarks: OPERATIONS @ 0600: WAITING ON CORRECT AP SEAL KIT
NOTE: BLEED OFF CSG @ 2230 HRS F/500 PSI TO 100 PSI

H₂S:

Accidents: NONE REPORTED

Exp.

Daily Mud	Daily Tangible	Daily Well 36,580	AFE No. 2TK 16033	Charges to 50
Cum. Mud	Cum. Tangible	Cum. Well 95,393	Total Appr. 274,000	

Materials On Hand

API Well No. 4-045-20043

Division VENTURA	Rig DIAL 45	Phone 654-4592	Drilling Supv. T. SIMS / T. BARNES	Page 1 of 1
Field FT. ARGUELLO	Lease OCS-P-0450	Well Number C-1		Date 12/24/91

Printed in U.S.A.

Chevron

Daily Completion/WO Report

Spud Date	Start Date 12/23/91	Actual Days 1	Auth. Days 4	Depth 10498' MD	TVD 10423' PBTD
Job Description: REPAIR FAILED PKR. & INSTALL TUBING			Present KB Correction	Original KB Elevation (Above Sea Level)	
Mud Type	Wt.	FV	PV	YP	WL

Existing Well Data

Prod. Casing Size 9-5/8" Weight 43.5# Grade Set @ 9445 MD TVD Cmt. Top @

Liner Size 7" Weight 26# Grade Set @ 10498' MD TVD Top @ 9018' MD TVD

	Size	Wt.	Grade	Threads	Depth	Details
Tubing						

	Set at	Type
Packer		

Perforations	From	To	Details

Fish — Top @ — Description

BHA

Run No.	Details	Bit Data: Type	Serial Number

Operations

Hrs.	(From – To)	Operation covering 24 hour ending at midnight
11½	0000-11:30	SRID RIG FROM WELL C-3 TO C-1
		RIG UP ON C-1. HOOK UP BLOWLINES TO TRIP
1	11:30-12:30	RIG UP HOWCO TEST LINES TO WELL
		TO 2000PSI OK
10	12:30-2230	KILL WELL DN TBG PUMP UP ANNULUS
		WITH 8.8#/gal (4% KCL & 4% NaCl)
		H_2O TREATED WITH 2½ gal/100 BBL SCALETROL
		2 gal/100 BBL H_2S SCAVENGER 1.75#/100 BBL
		X-CIDE 207 USE 1200 BBL
1½	2230-2400	N/D PRODUCTION TREE

DIESEL 3738 GALS WATER 168.1 BBLS

Fluid Lost To Formation: Daily bbls Cumulative bbls

Contractor	Hours Charged To: Chevron 24	Travel	Hours Used: Tongs	Chv. Reps.	Other Charges

Remarks: OPERATIONS @ 0600: NIPPLE UP BOPE & RISER

H_2S

Accidents: NONE REPORTED

Est.	Daily Mud	Daily Tangible	Daily Well 58813	AFE No. 45K 160538	Charges X 30
	Cum. Mud	Cum. Tangible	Cum. Well 58813	Total Appr. 274,000	

Materials on Hand

Division	Rig	Phone	Drilling Rep.	API Well No. 30-045-28963
VENTURA	DUKE 45	ON 4582	T. SWAYNE/T. BLAKE	Page 1 of 1
Field	Lease	Well Number		Date
FT ARCHULETA	OCS-P-0460	C-1		12/23/91

Form 7-15A

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # DATE: 11-27-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE:
PRESENT TD:
PREVIOUS TD:
FOOTAGE:

DIRECTIONAL SURVEY @
ANGLE: DEG DIRECT:
NEXT SURVEY DUE:
LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 24" @ 1030'
NEXT CSG POINT: 18 5/8" @ 1640'
MUD WT: ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 0600 11-26-87 TO 0600 11-27-87
N/U DIVERTER SYSTEM, HOOK UP, TRIP TANK, FLOWLINE, HYDRAULIC LINES. COMPLETE MMS PRE-SPUD REQUIREMENTS. P/U BHA & TIH. TAG @ 1003'. PREPARE TO FUNCTION TEST DIVERTER.

OPERATIONS AT REPORT TIME: PREPARE TO FUNCTION TEST DIVERTER.

ANTICIPATED ACTIVITY: FUNCTION TEST DIVERTER.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #

DATE: 11-26-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE:
PRESENT TD:
PREVIOUS TD:
FOOTAGE:

DIRECTIONAL SURVEY @
ANGLE: DEG DIRECT:
NEXT SURVEY DUE:
LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 24" @ 1030'
NEXT CSG POINT: 18 5/8" @ 1640'
MUD WT: ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 2400 11-25-87 TO 0600 11-26-87
N/U DIVERTER SYSTEM. FABRICATE & INSTALL PITCHER NIPPLE & FLOWLINE
COMPLETE MMS PRE-SPUD REQUIREMENTS

OPERATIONS AT REPORT TIME: -

ANTICIPATED ACTIVITY:

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONDUCTORS

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #16 DATE: 11-25-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 841' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: PPG
VISCOSITY:

OPERATIONS 0600 11-24-87 TO 0600 11-25-87
N/U DIVERTER SYSTEM. COMPLETE PRE-SPUD REQUIREMENTS.

OPERATIONS AT REPORT TIME: N/U DIVERTER.

ANTICIPATED ACTIVITY:

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #15 DATE: 11-24-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1030"
ANGLE: 0 DEG DIRECT:
MUD WT: PPG
VISCOSITY:

OPERATIONS 0600 11-23-87 TO 0600 11-24-87
▸▸UNDERREAM 22" HOLE TO 30" 990-1057'. DISPLACE HOLE W/500 BBL FRESH GEL MUD. POH W/UNDERREAMER. R/U & RUN 24 JTS (988') 24", 201#, X-52, RI-4 CONDUCTOR TO 1057', 493'BOF ON SLOT #3. RIH W/CMT STAB-IN TOOL. FILLED CSG. STABBED INTO FLT COLLAR. ESTABLISHED CIRCULATION. TSTD LINES TO 3000 PSI. CMT CONDUCTOR W/1600 SXS CLS 'G' CMT MIXED W/2% CACL2 IN SEAWATER @ 6 BPM. BUMPED PLUG W/1500 PSI. CIP @ 1630 HRS. CMT RETURNS MONITORED BY ROV. POH. SKID RIG TO SLOT #3. RETRIEVE SPIDER. SKID RIG TO SLOT #4 N/U DIVERTER.

OPERATIONS AT REPORT TIME: N/U DIVERTER.

ANTICIPATED ACTIVITY: DRILLING.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #14

DATE: 11-23-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: PPG
VISCOSITY:

OPERATIONS 0600 11-22-87 TO 0600 11-23-87
RAN 24 JTS 24", (987') 201#, X-52, RL-4 CONDUCTOR TO 1056' 492'BOF. RIH W/CMT STAB-IN TOOL. FILLED CSG. STABBED INTO FLT COLLAR. ESTABLISHED CIRCULATION. TSTD LINES TO 3000 PSI. CMT CONDUCTOR W/1600 SXS CLS 'G' CMT MIXED W/2% CACL2 IN SEAWATER @ 5 3/4 BPM. BUMPED PLUG W/1500 PSI. CIP @ 1500 HRS. CMT RETURNS MONITORED BY ROV. POH. SKID RIG TO SLOT #6. RETRIEVE SPIDER. SKID RIG TO SLOT #3 & PREPARE TO DRILL. TIH W/22" BIT W/ROV ASSIST. DRILL & SURVEY 564-1062'. POH. RIH W/UNDERREAMER W/ROV ASSIST. UNDERREAM 22" HOLE TO 30" 564-900'.

OPERATIONS AT REPORT TIME: UNDERREAMING.

ANTICIPATED ACTIVITY: RUNNING CONDUCTOR PIPE.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:
TESTED DIVERTER LINE TO 300 PSI IN PREPARTION OF NIPPLE UP

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #13

DATE: 11-22-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: PPG
VISCOSITY:

OPERATIONS 0600 11-21-87 TO 0600 11-22-87
DRILL & SURVEY 22" HOLE TO 1062'. POH W/DRLG ASSEMBLY. RIH W/UNDERREAMER W/ROV ASSIST. UNDERREAM 22" HOLE TO 30" 564-1057'. DISPLACED HOLE W/500 BBL FRESH GEL MUD. POH W/UNDERREAMER. R/U & RUN 24 CONDUTOR.

OPERATIONS AT REPORT TIME: RUNNING CONDUCTOR PIPE.

ANTICIPATED ACTIVITY: CEMENTING CONDUCTOR PIPE.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #12 DATE: 11-21-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: PPG
VISCOSITY:

OPERATIONS 0600 11-20-87 TO 0600 11-21-87
DRILL & SURVEY 22" HOLE 840-1063'. 499'BOF POH W/DRLG ASSEMBLY RIH W/UNDERREAMER W/ROV ASSIST. UNDERREAM 22" HOLE TO 30" 564-1058' DISPLACED HOLE W/500 BBL FRESH GEL MUD. POH W/UNDERREAMER. R/U & RUN 24 JTS 24", (985') 201#, X-52, RL-4 CONDUCTOR TO 1054'. 490'BOF. RIH W/CMT STAB-IN TOOL. FILLED CSG. STABBED INTO FLT COLLAR. ESTABLISHED CIRCULATION. TSTD LINES TO 3000 PSI. CMT CONDUCTOR W/1600 SXS CLS 'G' CMT MIXED W/2% CACL2 IN SEAWATER @ 5 3/4 BPM. BUMPED PLUG W/1500 PSI CIP @ 1310 HRS. CMT RETURNS MONITORED BY ROV. POH. SKID RIG TO SLOT #4, & PREPARE TO DRILL. TIH W/22" BIT W/ROV ASSIST. DRILLING 22" HOLE TO 564'.

OPERATIONS AT REPORT TIME: DRILLING.

ANTICIPATED ACTIVITY: RUNNING CONDUCTOR PIPE.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #11 DATE: 11-20-87

OPERATOR: CHEVRON USA INC
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: PPG
VISCOSITY:

OPERATIONS 0600 11-19-87 TO 0600 11-20-87

RAN 24 JTS 24", 201#, X-52, RL-4 CONDUCTOR TO 1058' 494'BOF. TIH W/CMT STAB-IN TOOL. FILLED CSG. STABBED INTO FLT COLLAR. ESTABLISHED CIRCULATION. TSTD LINES TO 3000 PSI. CMT CONDUCTOR W/1600 SXS CLS 'G' CMT MIXED W/2% CACL2 IN SEAWATER@ 4 3/4 BPM. BUMPED PLUG W/1500 PSI. CIP @ 1345 HRS. CMT RETURNS MONITORED BY ROV. POH. SKID RIG TO SLOT #39, PULL SPIDER. SKID RIG TO SLOT 41, PULL SPIDER. SKID RIG TO SLOT 6, CONDUCTOR #8. TIH W/22" BIT W/ROV ASSIST. DRILLING 22" HOLE TO 847'.

OPERATIONS AT REPORT TIME: DRILLING.

ANTICIPATED ACTIVITY: RUNNING CONDUCTOR PIPE.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #10 DATE: 11-19-87

OPERATOR: CHLVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: PPG
VISCOSITY:

OPERATIONS 0600 11-18-87 TO 0600 11-19-87
FINISHED RUNNING 24 JTS 24", 201#, X-52, RL-4 CONDUCTOR TO 1055'. 491' BOF. TIH W/CMT STAB-IN TOOL. FILLED CSG. STABBED INTO FLOAT COLLAR. TESTED LINES TO 3000 PSI. CMT CONDUCTOR W/1600 SXS CLS 'G' CMT MIXED W/2% CACL2 IN SEAWATER. CIP @ NOON. CIRCULATION CONFIRMED BY ROV. POH. SKID RIG TO SLOT #41, CONDUCTOR 7. TIH W/22" BIT W/ROV ASSIST. DRILL & SURVEY TO 1063'. TIH W/30" UNDERREAMER W/ROV ASSIST. OPENED 22" HOLE TO 30" TO 1058'. 494'BOF. DISPLACED HOLE W/500 BBLS OF GEL MUD. POH. PREP TO RUN 24" CONDUCTOR.

OPERATIONS AT REPORT TIME: PREP TO RUN CONDUCTOR.

ANTICIPATED ACTIVITY: CEMENT CONDUCTOR.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 9

DATE: 11-18-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: PPG
VISCOSITY:

OPERATIONS 0600 11-17-87 TO 0600 11-18-87
POH W/STAB IN CEMENTING TOOL. PULLED SPIDER FROM SLOTS #47 & #36. SKID RIG TO SLOT #46. PREPARE TO DRILL CONDUCTOR #6. TIH TO OCEAN FLOOR W/22" BIT W/ROV ASSIST. DRILL & SURVEY 22" HOLE TO 1062'. POH. INSTALLED TOTCO RING IN UNDERREAMER FLOAT SUB. TIH TO OCEAN FLOOR W/30" UNDERREAMER W/ROV ASSIST. OPEN 22" HOLE TO 30" TO 1057'. DISPLACED HOLE W/500 BBLS OF VISCOUS GEL. POH. R/U & BEGIN RUNNING 24" CONDUCTOR.

OPERATIONS AT REPORT TIME: RUNNING CONDUCTOR.

ANTICIPATED ACTIVITY: CEMENTING CONDUCTOR.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

HB

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 8 DATE: 11-17-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: 8.6 PPG
VISCOSITY: 80

OPERATIONS 0600 11-16-87 TO 0600 11-17-87
MOVE & SECURE RIG, SLOT #36. TIH TO 564' W/22" BIT. ROV ASSIST. DRILL 564-658'. DRILL & SURVEY 658-1062'. TIH W/UNDERREAMER. UNDERREAM 564-1057'. 493' BOF. POH. R/U & RUN 24 JTS 24", X-52, 201#, RL-4 CONDUCTOR TO 1052'. 488' BOF. RUN IN STAB IN TOOL. BREAK CIRCULATION & CEMENT W/1600 SX CLASS 'G' CMT MIXED W/2% CACL2 IN SEAWATER.

OPERATIONS AT REPORT TIME: CEMENTING CSG.

ANTICIPATED ACTIVITY:

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 7 DATE: 11-16-87

OPERATOR: CHEVRON USA INC
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11 10-87 5:00PM

DIRECTIONAL SURVEY @ 844' & 1036"
ANGLE: 0 DEG DIRECT:
MUD WT: 8 6 PPG
VISCOSITY: 80

OPERATIONS 0600 11-15-87 TO 0600 11-16-87
TIH W/22" BIT, SLOT #47. ROV ASSIST. DRLG 564-1062', 498' BOF. SURVEYING @ 840' & 1036'. POH. P/U UNDERREAMER. RIH W/ROV. UNDERREAM 22" HOLE 564 1057', 493' BOF. POH W/UNDERREAMER. SPOT GEL WATER IN OPEN HOLE. R/U & RUN 24 JTS OF 24", 201#, X-52 RL-4 CONDUCTOR. LANDED @ 1055', 491' BOF. BREAK CIRC THRU STAB IN. MIXED & PUMPED 1600 SX CLS 'G' CMT MIXED W/SEAWATER & 2% CACL2. BUMPED PLUG W/1500 PSI. CMT IN PLACE @ 0500 HRS POH W/STAB IN TOOL. MOVE RIG TO SLOT #49 & REMOVE WELLHEAD LANDING FRAME.

OPERATIONS AT REPORT TIME: REMOVING WELLHEAD LANDING FRAME.

ANTICIPATED ACTIVITY: DRILLING.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 6 DATE: 11-15-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5.00PM

DIRECTIONAL SURVEY @ 1035'
ANGLE: 0 DEG DIRECT:
MUD WT: 8.6 PPG
VISCOSITY: 60

OPERATIONS 0600 11-14-87 TO 0600 11-15-87
DRILLING & SURVEYING SLOT #49 640-1062'. 498' BOF. POH W/22" BIT. TIH W/22" X 30" UNDERREAMER TO 564'. UNDERREAM 564-1057'. 493' BOF. SPOT GEL IN OPEN HOLE. POH. R/U & RUN 24 JTS 24", 201#, X-52, RL-4 CONDUCTOR PIPE. LAND @ 1054'. 490' BOF. RIH W/STAB IN TOOL. FILL CSG W/SEAWATER. STAB IN MIX & PUMP 1600 SX CLS 'G' CMT MIXED W/SEAWATER W/2% CACL2. BUMPED PLUG W/1300 PSI. CMT IN PLACE @ 0411 HRS, 11-15-87. POH W/STAB IN TOOL MOVE & SECURE RIG TO SLOT #47.

OPERATIONS AT REPORT TIME: SECURE RIG.

ANTICIPATED ACTIVITY: DRILLING.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 5 DATE: 11-14-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM

DIRECTIONAL SURVEY @ 1035'
ANGLE: 0 DEG DIRECT:
MUD WT: 8.6 PPG
VISCOSITY: 80

OPERATIONS 0600 11-13-87 TO 0600 11-14-87
RUN 24" BLA 20# X-52 CONNECTOR IN SLOT #30. LANDED @ 1056'. RAN IN STAB IN TOOL. PUMPED 50 BBL SEAWATER MIXED & DISPLACED 1600 SX CLS 'G' CMT W/2% CACL2 IN SEAWATER. CMT IN PLACE @ 1553 HRS, 11-13-87, W/2000 PSI. MONITORED RETURNS W/ROV. POOH W/DRILLPIPE. WAIT ON CMT 1 HR. REMOVED LANDING FRAME. MOVED RIG TO SLOT #56. PULLED CONDUCTOR LANDING FRAME. MOVED TO SLOT #49. TIH W/22" BIT TO 504' W/ROV ASSIST. DRLG 504-040'.

OPERATIONS AT REPORT TIME: DRILLING

ANTICIPATED ACTIVITY: RUNNING 24" CONDUCTOR.

SIGNIFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 4

DATE: 11-13-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM
PRESENT TD: 1062'

DIRECTIONAL SURVEY @ 1035'
ANGLE: 0 DEG DIRECT:
LAST BOP TEST:
NEXT BOP TEST DUE:
MUD WT: 8.6 ppg VIS: 85
pH: CHLORIDES: ppm

OPERATIONS 0600 11-12-87 TO 0600 11-13-87
FINISHED CMTG CONDUTOR SLOT #56. CMT IN PLACE @ 07:30, 11-12-87. POH W/STAB IN TOOL. MOVED RIG TO SLOT #39. SECURE RIG. TIH W/22" BIT WITH ROV ASSISTANCE DRILLED 564-1062'. 498' BOF. DISPLACED HOLE W/80 SEC/1000 C.C. GELTWATER & POH. TIH TO 564' W/ROV ASSIST. UNDER REAM 564-1057'. DISPLACED OPEN HOLE W/GEL. POH W/UNDER REAMER. R/U & START TO RUN 24" CONDUCTOR.

OPERATIONS AT REPORT TIME: RUNNING 24" CONDUCTOR.

NTICIPATED ACTIVITY: CEMENT 24" CONDUCTOR.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #3

DATE: 11-12-87

OPERATOR: CHEVRON USA INC
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO
VESSEL/FACILITY: PLAT HIDALGO
APPROVED CSG PT: +1030' MD
SPUD DATE: 11-10-87 5:00PM
PRESENT TD: 1070'
PREVIOUS TD: 1070'
FOOTAGE: 0

DIRECTIONAL SURVEY @ 844'
ANGLE: 0DEG 15' DIRECT
LAST BOP TEST:
NEXT BOP TEST DUE:
MUD WT: ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 0600 11-11-87 TO 0600 11-12-87
M/U UNDER REAMING ASS'Y. TIH USING OCEANEERING ROV UNDER REAM 22" HOLE 30". DISPLACED HOLE W/460' BBL FRESH GEL MUD. POH W/UNDER REAMING ASS'Y. R/U CSG HANDLING TOOLS. RAN 24 JTS (988.41') 24", 201#, X-55 CSG W/VETCO RL4 CONNECTIONS. M/U CONDUCTOR RUNNING TOOL. SET CONDUCTOR HEAD ON SPIDE IN WELL HEAD DECK W/CSG SHOE @ 1057' & STAB IN FLT COLLAR @ 1017'. STD BACK CONDUCTOR. M/U STAB IN STINGER. RIH W/SAME. R/U TO CMT. CIRC. START MIXING CLS 'G' CMT W/2% CACL2 MIXED W/SEAWATER. ROV ON BTM TO MONITOR RETURNS.

OPERATIONS AT REPORT TIME: MIXING CMT.

ANTICIPATED ACTIVITY: CEMENT 24" CONDUCTOR

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #2

DATE: 11-11-87

OPERATOR: CHEVRON USA INC
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO
VESSEL/FACILITY: PLAT HIDALGO
APPROVED CSG PT: ±1030' MD
SPUD DATE: 11-10-87 5:00PM
PRESENT TD: 0'
PREVIOUS TD: 1070'
FOOTAGE: 1070'

DIRECTIONAL SURVEY @ 844'
ANGLE: 0DEG 15' DIRECT
LAST BOP TEST:
NEXT BOP TEST DUE
MUD WT: ppg VIS:
pH CHLORIDES ppm

OPERATIONS 0600 11-10-87 TO 0600 11-11-87
FINISHED P/U BHA & DP. TIH W/BHA USING OCEANEERING ROV TO OBSERVE DRILL STRING ENTERING GUIDE FUNNELS. TAG MUD LINE @ 564'. DRLG 27" HOLE 564-844'. SURVEY @ 844'. DRLG 844-1070'. DISPLACE HOLE W/280 BBL FRESH GEL MUD. POH W/DRLG ASS'Y. P/U 22"X30" UNDER REAMER ASSEMBLY.

OPERATIONS AT REPORT TIME: PREP TO TIH.

ANTICIPATED ACTIVITY: UNDER REAM 22" HOLE TO 30".

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #1 DATE: 11-10-87

OPERATOR: CHEVRON USA INC.
LEASE: OCS-P-0450 CONDUCTORS
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 1030 MD
SPUD DATE:
PRESENT TD:
PREVIOUS TD:
FOOTAGE:

DIRECTIONAL SURVEY @ 800' & 1030'
ANGLE DIRECT:
NEXT SURVEY DUE:
LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING:
NEXT CSG POINT:
MUD WT: ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 0600 11-08-87 TO 0600 11-09-87
COMPLETED THE RIG FUNCTION TEST OF DUAL RIG #45 AT 1800 HRS, 11-9-87. ORGANIZED RIG FLOOR. PUT THE CONDUCTOR LANDING OVERSHOT THROUGH THE ROTARY TABLE TO CHECK THE TOLERANCES. P/U BHA & DRILLPIPE & STOOD IT BACK. PREPARING TO TIH W/DRLG ASSEMBLY.

OPERATIONS AT REPORT TIME: PREP TO TIH.

ANTICIPATED ACTIVITY:

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

Chevron Point Arguello OCS-P 0450 C-1 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 3/22/97	Actual Days: 1	Auth. Days: 18	MD: 10,498'	TVD: 8,102'	PBTD: 10,412'

Job Description: Remove ESP Completion. Temp.isolate all but top 10' of perfs. & perform hyd.fracture. Re-expose lower perfs. & comp. W/3.5 Tubing.

KB Correction: 16' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB:
Mud Type: Seawater Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9.625"	WT: 43.5	Grade: SS-95	Set @ MD: 9,415'	TVD: 7114'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 10,498'	TVD: 8,102'	Top @MD: 9,018' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2"	9.3	L-80	501 Hyd.	7,290'		

Packer Set At:	Type	Perforations From: - To:	Details
6,692'	Otis "RDH" 9 5/8" Dual Packer	9,510' - 9,570'	.50" Diameter @ 4 SPF
9,850'	Baker "FB-1" Retainer	9,620' - 9,830'	.42" Diameter @ 6 SPF
		9,876' - 9,996'	.42" Diameter @ 6 SPF

Fish Top @ Description:

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held pre-tour safety meeting: Discussed nippling down tree & nippling up BOPE.	
	-			
06:00	18:00	- 24:00	Operations opened SSSV, bled down well. Operations closed SSSV. Installed BPV	
	-		Rigged down production tree, (removed side outlet valves from production tree for removal	
	-		thru BOP deck. Tested tree to 2750 PSI w/ no leaks (Walt Redding w/ Operations witnessed	
	-		testing. (Platform Electrician megged ESP cable before removing tree). Plugged SSSV lines.	
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	-			
	-		AM Activity: Rigging up BOPE.	
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Post-it® Fax Note 7671 | Date | # of pages ▶ 2
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 7958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: Rigged down production tree.

Fluid Lost To Formation Daily: Cumulative:

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 6	Travel:	Tongs:	Circ. Equip:	Safety Meeting

Remarks: POB: 1-CUSA; 22-Pool; 2-Service; Total=25 No Incidents & No-Non Compliance. Pool Crews Have Worked "35" Days W/Out LT

Chevron %: 26.32 H_2S: None Accidents: None

Cu

Materials On Hand:	63-Sxs. Suif X : 6.5 Drums Scale X : 78 Sxs. MI Gel			API Well No:	56-045-20062
Profit Center:	WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep:	J. W. DeGraffenreid
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date:	22-Mar-97

C-1 Free.xls

MAR 24 1997

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 10	Auth. Days: 5	MD: 10498	TVD: 8235	PBTD: 10412
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Corrections: 0.0		Orig KB Elev: 133.0
				Wind:	Seas:	Bar: POB: 66
Mud Type: KCL POLYMER			Wt: 8.5	FV:	PV:	YP: WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD	Cmt. Top @ 0	
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
3.500	9.30	L-80	HYD 501	8968	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type
9850	(BAKER FB-1 TAIL @ 9888'
8968	(BAKER) HB TAIL @ 9187'
0	

Perforations From	To	Details
9510	9996	PRODUCTION
9854	9858	25 HOLES IN SEAL BORE ASSEMBLY
0	0	

Fish Top @ 0 Description:

BHA No.: 3 Details: GAS LIFT MANDREL'S. - #1 @ 8918.87', #2 @ 8487.27', #3 @ 7780.12', #4 @ 6711.52', #5 @ 5820.67', #6 @ 4515.48', #7 @ 3593.35', #8 @ 2246.20', SSSV @ 739.54'.

Bit Data		
Number	Type	Serial Number
0		

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
2.50	0000-0230	R/U SCHLUMBERGER PERFORATING TOOLS, RUN PERFORATING GUNCOLLAR LOCATOR, TO 9860= POSITION PERF. GUN FR/9854' TO
	-	9858' SHOT 25 HOLES, 6 HOLES / FT. FOR 4' HOLE TOOK 10 BBLS., OF FLUID, POH & LD/RD SCHLUMBERGER PERF.TOOL
2.00	0230-0430	R/U WIGGINS TONGS & GATORHAWK TESTING HU & TEST "F" NIPPLE AND PACKER TAIL T/ 5000 PSI.
0.50	0430-0500	R/U GOLDEN STATE WIRELINE TOOLS, DRIFT PACKER & TAIL ASSEMBLY WITH 2.764" GUAGE RING. RD/ WIRELINE TOOLS.
1.00	0500-0600	R/U & PREPARE TO RUN 3 1/2" 9.3 # 501 PRODUCTION TBG.
8.50	0600-1430	P/U 3 1/2" TBG, RABBIT AND EXTERNALLY PRESSURE TEST EACH JNT. W/ GATORHAWK,TO 5000 PSI WHILE RUNNING IN HOLE.
	-	
3.00	1430-1730	N/U & TEST SSSV CONTROL LINE TO 5000 PSI, FOR 30 MIN., OK, RUN TBG. & CONTROL LINE.
1.00	1730-1830	RU & CIRC PACKER FLUID DOWN TBG. & UP ANNULUS.
5.50	1830-2400	P/U TBG HANGER & CONTROL LINE, TEST T/ 5000 PSI. P/U LANDING JTS. TEST W/ GATORHAWK, LAND TBG HANGER IN WELLHEAD
	-	TEST SEALS T/ 5000 PSI. TEST OK R/U SLICK LINE AND INSTALLED PLUG IN "F"NIPPLE BELOW PKR. R/U BJ AND PRESSURED
	-	UP ON TBG. SET BAKER "HB"PACKER @8967.65',BOTTOM OF TAIL AT 9186.89'.G/L #1 @8918.87'G/L #2 @8487.27',G/L #3 @
	-	7780.12',G/L #4 @6711.52',G/L #5 @5820.67',G/L #6 @4515.48',G/L #7 @3593.35',G/L #8 @2246.20', SSSV @739.54'.
	-	TEST ANNULUS T/2500PSI. TEST OK. REMOVED PLUG F/"F"NIPPLE. REMOVED LANDING JTS. AND INSTALLED BPV. N/D BOPE AND
	-	INSTALLED AND TESTED TREE.
	-	RELEASED RIG AT 2400HRS. WILL SKID TO SLOT #6.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Fluid Lost To Formation Daily: 0 Bbls Cumulative: 0 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: NLTA:216 DAYS. SAFETY MEETING SUBJECT: BASIC FIRST AID. H_2S: NONE REP'D

OPERATION AT 0500 HRS: CLEARING DECK AND PREPARING TO SKID RIG. Accidents: NONE REP'T

Daily Mud Cost: Daily Tangible Cost: Daily Well Cost: AFE Number: Chevron %:

Materials On Hand: API Well Number: 5604520062

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: G.BROWN/BEDINGFIELD
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Feb 25, 1994

RECEIVED
SANTA MARIA DISTRICT
FEB 28 1994
MINERALS MANAGEMENT SERVICE

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 9	Auth. Days: 5	MD: 10498	TVD: 10498	PBTD: 10412	
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Correction: 0.0		Orig KB Elev: 133.0	
				Wind:	Seas:	Bar:	POB: 71
Mud Type: KCL POLYMER		Wt: 8.8	FV:	PV:	YP:	WL: 0.0	
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD	Cmt. Top @ 0		
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD	

Tubing Size	Wt.	Grade	Threads	Depth	Details
0.000	0.00			0	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
9850	(BAKER FB-1 TAIL @ 9888'	9510	9996	
0		0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 3	Details:	Bit Data		
		Number	Type	Serial Number
		0		

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
3.00	0000-0300 TIH, RABBIT 3 1/2" WORK STRING, L/D 2 BAD JTS. HANG OFF BOTTOM OF STRING @ 9174'.
2.00	0300-0500 R/U WIRELINE TOOLS, GIH DIA-LOG CL/JET CUTTER ASSEMBLY WORK INTO PACKER, SEAL BORE ASSEMBLY & PUP JNT. @ 9852'
	- WLH, PUMP TO 1500 PSI TO VERIFY CUT, CUT WAS NOT MADE.
0.50	0500-0530 POH TO CHECK JET CUTTER.
7.50	0530-1300 GIH WITH COLLAR LOCATOR, FOR OBSERVATION, POH W/CL, R/U JET CUTTER GIH W/SAME, UNABLE TO GO INTO PACKER, POH CHG
	- CENTRALIZERS, & R/U NEW JET CUTTER GIH ATTEMPT TO GET INTO TOP OF PACKER, POH L/D WIRELINE TOOLS
0.50	1300-1330 CONTINUE TIH W/ WORK STRING TO 9854'.
2.00	1330-1530 CIRC & WASH AT TOP OF PACKER, WASH INTO PACKER ASSEMBLY TO 9862', CIRC HOLE CLEAN.
0.50	1530-1600 PULL UP HOLE TO 9181'.
1.00	1600-1700 R/D & LD WIRELINE & SHEAVES FROM DERRICK.
5.50	1700-2230 POOH & LAY DOWN 3 1/2" 501 TBG. WORK STRING, 289 JTS. OR 9181'.
1.50	2230-2400 RU SCHLUMBERGER TO PERFORATE TOTAL 25 HOLES 6 HOLES/FT.
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	- ONE DAY BOPE TEST EXTENSION GRANTED BY MR. DAN KNOWLSON (MMS) PER TELEPHONE CONVERSATION W/ GDB & DNB

Post-it™ brand fax transmittal memo 7671 # of pages ▸

To D. Knowlson	From N Jones / L Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805 658-4480 658-4493
Fax # 925-8546	Fax # 658-4405

Fluid Lost To Formation Daily: 0 Bbls Cumulative: 15 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: 215 NLTA, SAFETY MEETING SUBJECT: OVERHEAD WORK H_2S:

OPERATIONS AT 0500 HRS: PICKING UP & DRIFTING 3 1/2" TAIL PIPE & PROD. PACKER. Accidents: NONE REP,T

Materials On Hand: API Well Number: 5604520052

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: G.BROWN/BEDINGFIELD
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Feb 24, 1994

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 8	Auth. Days: 5	MD: 10498	TVD: 8235	PBTD: 10412
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Correction: 0.0		Orig KB Elev: 133.0
				Wind:	Seas:	Bar: POB: 77
Mud Type: KCL POLYMER		Wt: 8.8	FV:	PV:	YP:	WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD		Cmt. Top @ 0
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
0.000	0.00			0	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
9850	(BAKER FB-1 TAIL @ 9888'	9510	9996	
0		0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 3 Details:

Bit Data		
Number	Type	Serial Number
0		

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
1.00	0000-0100	L/D DIA-LOG TOOLS, R/D SCHLUMBERGER WIRELINE.
3.00	0100-0400	POOH W/WORK STRING, L/D 2 7/8" MULE SHOE JNT, & XO
4.50	0400-0830	M/U 3 1/2" MULESHOE ON BTM OF 3 1/2" WORK STRING, TIH WITH WORK STRING RABBIT EVERY JNT. TO 9850', PU PUP JNT.
2.00	0830-1030	R/U WIRELINE & TOOLS, ATTEMPT TO RUN DIA-LOG COLLAR LOCATOR & JET CUTTER, NO GOOD L/D 15' PUP JNT. RE-RUN NG.
1.50	1030-1200	L/D WIRELINE TOOLS, POOH W/ 4 1/2" DP PU 20 JTS 3 1/2" TBG & RABBIT EACH JNT TO 9306'.
6.00	1200-1800	R/U WIRELINE TOOLS, GIH W/ C/L, & SINKER BARS, STOPPED @ 4170'. POH, RELAXED BELLY SPRINGS ON C/L GIH TO 4190'.
	-	POH,M/U JET CUTTER GIH, STOPPED @ 4871' ATTEMPT TO PUMP DOWN, NO SUCCESS, POH W/JET CUTTER R/D WIRELINE.TOOLS.
2.00	1800-2000	POOH W/ 3 1/2" TBG T/ 5426'.
3.50	2000-2330	R/U WIRELINE TOOLS, GIH W/SINKER BARS, C/L, @ JET CUTTER STOPPED @ 90' IN, POH & L/D WIRELINE TOOLS, POOH W/ 3
	-	1/2" TBG TO 4405' L/D 5 BAD JTS. OF TBG. R/U WIRELINE TOOLS, GIH W/SINKER BARS, CL, & JET CUTTER, TBG CLEAR.
0.50	2330-2400	POH W/ WIRELINE TOOLS, L/D DIA-LOG WIRELINE TOOLS, R/D SCHLUMBERGER WIRELINE UNIT.
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PROPRIETARY/CONFIDENTIAL INFORMATION

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To D. Knowlson	From N Jones / L Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805 658-4480 4493
Fax # 925-8546	Fax # 658-4405

Fluid Lost To Formation Daily: 0 Bbls Cumulative: 15 Bbls

Hours Charged To				Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00		Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: 214 NLTA. SAFETY MEETING SUBJECT: OPEN TOPIC H2S:

OPERATIONS AT 0500 HRS: MADE JET CUT IN PUP JNT. RIGGING UP TO VERIFY. Accidents: NONE REP'T

Materials On Hand: API Well Number: 5604520062

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: G.BROWN/BEDINGFIELD
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Feb 23, 1994

MINERALS MANAGEMENT SERVICE
FEB 24 1994
RECEIVED
SANTA MARIA DISTRICT

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 7	Auth. Days: 5	MD: 10498	TVD: 8235	PBTD: 10412
Job Description: PULL TUBING AND RECOVER STANDING VALVE.			KB Correction: 0.0		Orig KB Elev:	133.0
			Wind:	Seas:	Bar:	POB: 75
Mud Type: KCL POLYMER		Wt: 8.8	FV:	PV:	YP:	WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD	Cmt. Top @	0
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
0.000	0.00			0	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
9850	(BAKER) FB-1 TAIL @ 9888'	9510	9996	
0		0	0	
0		0	0	

Fish Top @ 9860 Description: PULLING TOOL, SPANG JARS, KNUCKLE JNT, STEM, KNUCKLE JNT, STEM, AND ROPE SOCKET. ALL RECOVERED.

BHA No.: 1	Details: #1 3 5/8" OVERSHOT,2.20', 2 7/8" PUP JNT, 6.02', 4 1/2" BUMPER SUB, 5.	Bit Data		
	56', 2 7/8" X 3 1/2" XO, 1.11', 3 1/2" EUE PIN X 3 1/2" 501 BOX XO 1.40'	Number	Type	Serial Number
	#2 3 1/2" 501 X 2 7/8" EUE XO, 1.11', 2 7/8" EUE TBG. W/MULESHOE CUT, 30.06.	0		

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.50	0000-0230 FINISH RIH WITH OVERSHOT. SLIDE OVER FISH AND ENGAGE AT 9854. PULLED 15000 # OVER WT.
3.50	0230-0600 POH. LAY DOWN 13 JTS TBG. RECOVERED PULL TOOL, S/JARS, KNUCKLE JTS, STEMS, & ROPE SOCKET TO TOP OF S/V @ 9854'
1.50	0600-0730 LAY DOWN FISH, & OVERSHOT FISHING ASSEMBLY.
2.50	0730-1000 WAITING ON DIA-LOG EQUIPMENT.
5.00	1000-1500 MAKE MULE SHOE CUT ON JT. OF 2 7/8" TBG. RU ON BOTTOM OF 3 1/2" TBG, TIH T/ 9850'.
4.00	1500-1900 BREAK CIRC WASH INTO PACKER ASSEMBLY TO 9854' PUMPING A HI-VIS PILL EVERY 30 MIN. CIRC CLEAN.
2.00	1900-2100 SPOT HI- VIS XC/KCL PILL @ 9854'.
3.00	2100-2400 PULL UP TO 9849', RU DIA-LOG TOOLS CONSISTING OF COLLAR LOCATOR & 5 SINKER BARS ON SCHLUMBERGER WIRE LINE, GIH
	- TO 9861'WLN.TOP OF PUP JNT @ 9859' WLM, POH W/WIRELINE.
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To D. Knowlson	From N Jones / L Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805 658-4480 -4493
Fax # 925-8546	Fax # 658-4405

PROPRIETARY/CONFIDENTIAL INFORMATION

MINERALS MANAGEMENT SERVICE
FEB 23 1994
RECEIVED
SANTA MARIA DISTRICT

Fluid Lost To Formation Daily: 0 Bbls Cumulative: 15 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: 213 MLTA. SAFETY MEETING SUBJECT: HEARING PROTECTION — H_2S:

OPERATIONS AT 0500 HRS: TIH W/ 3 1/2" TBG. RABBIT EACH JNT. — Accidents: NONE REP'T

Daily Tangible Cost: Daily Well Cost: AFE Number: Chevron %: 60.000

Materials On Hand: API Well Number: 5604520062

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: G.BROWN/BEDINGFIELD
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Feb 22, 1994

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 6	Auth. Days: 5	MD: 10498	TVD: 10498	PBTD: 10412
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Correction: 0.0		Orig KB Elev: 133.0
			Wind:	Seas:	Bar:	POB: 71
Mud Type: SEAWATER		Wt: 8.8	FV:	PV:	YP:	WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD	Cmt. Top @	0
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
0.000	0.00			0	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
9850	(BAKER) FB-1 TAIL @ 9888'	9510	9996	
0		0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 1 Details: 3 5/8" OVERSHOT, 2.20', 2 7/8" PUP JNT, 6.02', 4 1/2" BUMPER SUB, 5.56'
2 7/8" X 3 1/2" XO, 1.11', 3 1/2" EUE PIN X 3 1/2" SOH BOX

Bit Data		
Number	Type	Serial Number
0		

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
16.00	0000-1600 CONTINUE FISHING WIRE WITH 3 PRONG GRAB. MADE 7 RUNS RECOVER 62 FEET OF WIRE. TOTAL RECOVERED 82'.
	- RAN BLIND BOX TO TOP OF FISH. BEAT ON SAME. POH BOX SHOWS GOOD IMPRESSION OF ROPE SOCKET.
	- RERAN 3 PRONG GRAB TO TOP OF FISH. POH. NO WIRE. RIH WITH RETRIVING TOOL AND LATCH ON TO TOP OF FISH AT 9852.
2.50	1600-1830 JAR ON FISH UNDER 2200# WORK FISH FOR 2 HRS. NO. SHEAR OFF. POH WITH WIRELINE TOOLS. RIG DN WIRELINE UNIT.
3.50	1830-2200 POH
2.00	2200-2400 MU BOWEN 3 5/8"X 3 1/8" BASKET GRAPPLE OVERSHOT WITH 1 7/8" CATCH BUMPER SUB ON 3 1/2" TBG AND RIH.
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To	D. Knowlson	From	N Jones / L Phillips
Co.	MMS	Co.	Chevron
Dept.	Santa Maria	Phone #	805 658-4480 -4493
Fax #	925-8546	Fax #	658-4405

PROPRIETARY/CONFIDENTIAL INFORMATION

Fluid Lost To Formation Daily: 7 Bbls Cumulative: 15 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: 212 NLTA. SAFETY MEETING SUBJECT: LADDERS.
OPERATIONS AT 0500 HRS. PULLED 15000 # OVER WT. POH WITH FISH.

H_2S: NONE
Accidents: NONE REP'D

Materials On Hand:

API Well Number: 5804520062

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN/HARRIS
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Feb 21, 1994

MINERALS MANAGEMENT SERVICE
FEB 22 1994
RECEIVED
SANTA MARIA DISTRICT

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 5	Auth. Days: 5	MD: 10498	TVD: 10498	PBTD: 10412
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Correction: 0.0		Orig KB Elev: 133.0
				Wind:	Seas:	Bar: POB: 71
Mud Type: SEAWATER		Wt: 8.8	FV:	PV:	YP:	WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD		Cmt. Top @ 0
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
3.500	9.30	L-80	HYD. 501	9019	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
9850	(BAKER) FB-1 TAIL @ 9888'	9510	9996	
0		0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 0 Details:

Bit Data		
Number	Type	Serial Number
0		

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
4.00	0000-0400 RIH WITH BAKER LATCH ON TOOL. LATCH ON TO FISH. JAR AND WORK FISH. UNABLE TO WORK FREE.
11.00	0400-1500 DROP GO DEVEL TO CUT LINE. WORK LINE N.G. DROP BLIND BOX AND CUT LINE. POH LEFT 80'LINE IN HOLE.
	- RIH WITH RETRIEVING TOOL AND RECOVER BLIND BOX. RIH WITH RETRIVING TOOL AND RECOVER GO DEVEL.
	- RIH WITH WIRE LINE SPEAR ENGAGE WIRE LINE @ 9835. JAR ON SAME UNABLE TO WORK FREE. SHEAR OFF. POH.
3.00	1500-1800 CHANGE OUT DRUM ON WIRELINE UNIT. INSTALL 3/16" LINE SPOOL. WAIT ON WIRE LINE AND TOOLS FROM BAKERSFIELD.
6.00	1800-2400 RIG UP 3/16 PACKOFF ON LUBRACATOR. MAKE UP RETRIVING TOOL RIH. ENGAGE WIRELINE WITH SPEAR. ATTEMPT TO PULL
	- WIRELINE IN TO, PULLED OUT OF ROPE SOCKET. POOH. REDRESS WIRE LINE WITH OVERSHOT AND RIH. LATCH ON TO FISH.
	- JAR AND WORK FISH FREE. POOH. RECOVERED FISHING TOOL STRING AND 20' OF WIRELINE.
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	- MR. ROY BOBBITT WITH MMS VISITED THE PLATFORM AND APPROVED OPERATION.
	-

PROPRIETARY/CONFIDENTIAL INFORMATION

Fluid Lost To Formation Daily: 7 Bbls Cumulative: 15 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: 211 NLTA. SAFETY MEETING SUBJECT: LADDERS.
OPERATIONS AT 0500 HRS. FISHING FOR WIRELINE.

H_2S: NONE
Accidents: NONE REPT

Daily Mud Cost: 50.000
Cum Mud C

Materials On Hand:

API Well Number: 5804520062

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN/HARRIS
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Feb 20, 1994

MINERALS MANAGEMENT SERVICE
FEB 22 1994
RECEIVED
SANTA MARIA DISTRICT

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 4	Auth. Days: 5	MD: 10498	TVD: 10498	PBTD: 10412
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Correction: 0.0		Orig KB Elev: 133.0
				Wind:	Seas:	Bar: POB: 71
Mud Type: SEAWATER		Wt: 8.8	FV:	PV:	YP:	WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD		Cmt. Top @ 0
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
3.500	9.30	L-80	HYD. 501	9019	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
9850	(BAKER) FB-1 TAIL @ 9888'	9510	9996	
0		0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 0 Details:

Bit Data		
Number	Type	Serial Number
0		

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 FINISH RIH TO 9162.
5.00	0200-0700 RIG UP GOLDEN STATE WIRELINE. RIH WITH BAKER LATCH ON TOOL TO 9850, TOP OF SUMP PACKER.
	- UNABLE TO GET IN PACKER. WORKED SEVERAL TIMES. NG. POH RAN LATCH TOOL WITH HOLE FINDER.
	- RIH TO 9850. TRY TO GET INSIDE PACKER. NG. POH WITH WIRELINE.
3.00	0700-1000 RIH WORKED SEVERAL TIMES GOT INTO SUMP PACKER AT 9850. SPACED OUT TO FLOOR. STABBED IN TO 9853.
14.00	1000-2400 RIG UP GOLDEN STATE WIRE LINE. RIH WITH BAKER LATCH ON TOOL TO 9887' WIRE LINE MEASUREMENT. POH. NO RECOVERY.
	- RAN 2" OD IMPRESSION BLOCK TO 9887. POH. BLOCK INDICATES SCALE.
	- MADE TEN RUNS WITH 2.25" OD BAILER TO 9887. FIRST 4 RUNS HAD FULL LOADS LAST 6 RUNS HAD FROM .5 TO .25 OF A LOAD
	- BAILED FROM 9887' TO 9897'.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Fluid Lost To Formation Daily: 8 Bbls Cumulative: 8 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: 210 NLTA. SAFETY MEETING SUBJECT: NIPPLE UP AND DOWN
OPERATIONS AT 0500 HRS. RUNNING WIRELINE CUTTER BAR

H_2S: NONE
Accidents: NONE REP'T

Daily Mud Co: % : 50.000
Cum Mud Cost: 3990
Materials On Hand:
API Well Number: 9604520062

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN/HARRIS
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Feb 19, 1994

MINERALS MANAGEMENT SERVICE
FEB 22 1994
RECEIVED
SANTA MARIA DISTRICT

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 3	Auth. Days: 5	MD: 10498	TVD: 10498	PBTD: 10412
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Correction: 0.0		Orig KB Elev: 133.0
				Wind:	Seas:	Bar: POB: 71
Mud Type: SEAWATER		Wt: 8.8	FV:	PV:	YP:	WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD		Cmt. Top @ 0
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
3.500	9.30	L-80	HYD. 501	9019	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
8947	(BAKER) HB TAIL @ 9019'	9510	9996	
9850	(BAKER) FB TAIL @ 9888'	0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 0	Details:	Bit Data		
		Number	Type	Serial Number
		0		

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
6.00	0000-0600 FINISH INCREASE MUD WT IN PITS TO 8.8 PPG. ATTEMPT TO KILL WELL ON TBG UP ANNULUS.
	- PRESSURE UP TO 2500 PSI 1 BBL/ MIN. BACK OUT LANDING JTS. MAKE UP BPV SCREW IN TOOL ON SUCKER RODS.
	- ATTEMPT TO STAB IN TBG HANGER. NG. POH WITH RUNNING TOOL. RIH WITH LANDING JTS STAB INTO HANGER.
	- MAKE UP J RUNNING TOOL ON SUCKER RODS. RIH J INTO BPV. STRIP OUT LANDING JTS. POH RECOVER BPV.
	- FOUND BPV PLUGGED OFF WITH LARGE PIECE OF TEST PLUG RUBBER. RERUN LANDING JTS. KILL WELL AT 500 PSI 4 BBL/MIN.
2.50	0600-0830 FINISH KILL WELL WITH 8.8 PPG KCL WATER. BACK OUT LOCK DN SCREWES. PULL PKR LOOSE UNDER 260000 # PULL.
4.50	0830-1300 RIG UP GOLDEN STATE WIRE. RIH WITH BAKER LATCH ON TOOL. UNABLE TO GET BELOW SLIDING SLEEVE AT 8935.
1.50	1300-1430 POH WITH WIRELINE. BLED DN DRILLPIPE. DISPLACE TBG VOL WITH 8.8 PPG FOLLOWED BY DRY JOB.
6.50	1430-2100 POOH. LAY DOWN 7 CORKSCREWED JOINTS OF TUBING AND HB PACKER.
0.50	2100-2130 SERVICE TOP DRIVE.
2.50	2130-2400 RIH WITH TUBING.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Fluid Lost To Formation Daily: 0 Bbls Cumulative: 0 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 0.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: H_2S:

Accidents:

Materials On Hand: API Well Number: 5604520062

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN/HARRIS
Field: POINT ARGUELLO	Lease: OCS-p-0450	Well #: C-1	Date: Feb 18, 1994

MINERALS MANAGEMENT SERVICE
FEB 22 1994
RECEIVED
SANTA MARIA DISTRICT

Chevron

Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 2	Auth. Days: 5	MD: 10498	TVD: 10498	PBTD: 10412	
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Correction: 0.0		Orig KB Elev: 133.0	
				Wind:	Seas:	Bar:	POB: 72
Mud Type: SEAWATER		Wt: 8.5	FV:	PV:	YP:	WL: 0.0	
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD		Cmt. Top @ 0	
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD	

Tubing Size	Wt.	Grade	Threads	Depth	Details
3.500	9.30	L-80	HYD. 501	9019	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
8947	(BAKER) HB TAIL @ 9019'	9510	9996	
9850	(BAKER) FB TAIL @ 9888'	0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 0	Details:	Bit Data		
		Number	Type	Serial Number
		0		

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
8.00	0000-0800 KILL WELL WITH 1320 BBL FILTERED SEA WATER WITH SCALE TROLL. WELL NOT CLEANING UP. SHUT DN PUMPS.
	- WELL HAD 80 PSI ON CSG AND TBG. PUMP IN 80 BBL 9.0#/GAL KCL WATER DN TBG. SHUT DN PUMPS. TBG SIDE DEAD.
4.00	0800-1200 INSTALL BACK PRESSURE VALVE IN DONUT. NIPPLE DN TREE.
5.00	1200-1700 NIPPLE UP CLASS IV BOPE.
7.00	1700-2400 TEST CLASS IV BOPE 300 PSI LOW -3500 PSI HIGH. CLEAN UP PIPE RACK AFTER RIG MOVE.
	- INCREASE MUD WT IN PITS TO 8.8 PPG WITH KCL AND FILTER TO 2 MICRON WITH 2.5 GAL/100 BBL SCALETROL.
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To D. Knowlson	From N Jones / L. Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805 658-4480 -4493
Fax # 925-8546	Fax # 658-4405

PROPRIETARY/CONFIDENTIAL INFORMATION

Fluid Lost To Formation Daily: 0 Bbls Cumulative: 0 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 24.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: 208 NLTA. SAFETY MEETING SUBJECT: 30 MIN. S.C.B.A. H_2S: NONE

OPERATIONS AT 0500 HRS. KILLING WELL. Accidents: NONE REP'T

Drilled Mud Reads: Drilled Formation Reads: API Hydraulics: Chevron Men:

Materials On Hand: API Well Number: 5604520062

District: VENTURA PROFIT CENTER	Rig: DUAL-45	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN/HARRIS
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-1	Date: Feb 17, 1994

Chevron — Daily Completion/WO Report

Spud Date: 11/26/1987	Start Date: 02/16/1994	Actual Days: 1	Auth. Days: 5	MD: 10498	TVD: 9415	PBTD: 10412
Job Description: PULL TUBING AND RECOVER STANDING VALVE.				KB Correction: 0.0		Orig KB Elev: 133.0
				Wind:	Seas:	Bar: POB: 70
Mud Type: SEAWATER		Wt: 8.5	FV:	PV:	YP:	WL: 0.0
Prod. Casing Size: 9.625	Weight: 43.5#	Grade: L-80	Set @ 9415 MD	7414 TVD	Cmt. Top @ 0	
Liner Size: 7.000	Weight: 26#	Grade: L-80	Set @ 10498 MD	8324 TVD	Top @ 9018 MD	7187 TVD

Tubing Size	Wt.	Grade	Threads	Depth	Details
3.500	9.30	L-80	HYD. 501	9019	
0.000	0.00			0	
0.000	0.00			0	

Packer Set At	Type	Perforations From	To	Details
8947	(BAKER) HB TAIL @ 9019'	9510	9996	
9850	(BAKER) FB TAIL @ 9888'	0	0	
0		0	0	

Fish Top @ 0 Description:

BHA No.: 0 Details:

Bit Data		
Number	Type	Serial Number
0		

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.00	1800-1900 SKID RIG FROM C-10 TO C-1.
3.50	1900-2230 RIG UP GOLDEN STATE WIRELINE LUBRICATOR. RIH AND PULL GAS LIFT VALVE AT 8860'. RIG DOWN GOLDEN STATE WIRELINE.
1.50	2230-2400 RIG UP BJ TO TREE. KILL WELL WITH FILTERED SEAWATER TREATED WITH SCALETROL DOWN TUBING AND UP ANNULAS.

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To D. Knowlson	From N Jones / L Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805 658-4480 -4493
Fax # 925-8546	Fax # 658-4405

Fluid Lost To Formation Daily: 0 Bbls Cumulative: 0 Bbls

Hours Charged To			Hours Used		Other Charges
Contractor: 0.00	Chevron: 6.00	Travel: 0.00	Tongs: 0.00	Circ. Equip.: 0.00	

Remarks: 207 NLTA. SAFETY MEETING SUBJECT: LIFEBOATS.
OPERATIONS AT 0500 HRS. KILLING WELL.

H_2S: NONE
Accidents: NONE REP'T

Daily Mud Co: Chevron %: 50.000
Cum Mud Cost: 990
Materials On Hand: API Well Number: 5604520062

District: VENTURA PROFIT CENTER | Rig: DUAL-45 | Rig Phone: (805) 658-4522 | Drilling Rep: SHERIDAN/HARRIS
Field: POINT ARGUELLO | Lease: OCS-P-0450 | Well #: C-1 | Date: Feb 16, 1994

MINERALS MANAGEMENT SERVICE
FEB 17 1994
RECEIVED
SANTA MARIA DISTRICT

Date: as of 9-16-88

Verification of Submittals at Well Completion
Santa Maria District

Operator: Chevron Lease and Well No: OCS-P 0450 C-1 API No: 56-045-20062

Verification of Receipt		
as of 3-1-88	Sundry Notices (Form MMS-331)	
	1. Reduce barite	4.
	2. Change 9-5/8" csg. grade	5.
	3. Subs. Perf. & Comp.	6.
1-25-88	Final composite prints of mud logs: Interval 1057-10,498' 2" MD plus Exlog Final Well Report	
as of 6-7-88	Final composite prints of electric logs (see attached list)	
as of 7-6-88	Digital well log tapes (10 tapes)	
N/A	Core analysis reports/core descriptions	
N/A	Sidewall core analysis reports/descriptions	
need	Samples (washed and dried): Interval not yet received	
	Note: The samples have been requested from Chevron.	
N/A	Velocity survey analysis	
1-25-88	MWD: Interval 3348-10,498' 2" MD plus Anadrill End of Well Report	
2-12-88	Composite directional survey: Interval 564-10,498' NL Sperry-Sun	
2-12-88	Completion Report (Form MMS-330)	
N/A	Drill Stem Test Reports	

Final composite prints of electric logs:

1.	DLL-MLL-GR 2", 5"	1056-10,494'
2.	BHC Acoustilog 5"	9350-10,496'
3.	BHC Acoustic Fraclog 5"	9350-10,496'
4.	CD-CN-GR 5"	9380-10,496'
5.	Minilog 5"	9350-10,496'
6.	Caliper 5"	1020-3336'
7.	Diplog 5"	3300-10,496'
8.	Computed Diplog 2", 5"	3300-10,496'
9.	Special Computed Diplog 5"	7500-10,496'
10.	Comparison Diplog 60"	8800-8900'
11.	Stratadip 5"	8850-8880'
12.	Diplog Printout	3337-10,517'
13.	CBL 5"	8895-10,394'
14.	Restech Incline Computed Dipmeter Results	3300-9415'

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
SANTA MARIA DISTRICT OFFICE
222 W. CARMEN LANE, SUITE 201
SANTA MARIA, CA 93454

Date: as of 9-15-88

Verification of Submittals at Well Completion
Santa Maria District

Operator: Chevron Lease/Well No: OCS-P 0450 C-4 API No: 56-045-20065

Field: Pt. Arguello TD Depth (MD): 8583'

Verification (Date Rec'd)	
7-1-88	Final composite prints of mud logs: Interval 3200-8583' 2" MD Report Exlog Final Well Rept.
7-1-88	Final composite prints of electric logs (see attached list)
9-15-88	Digital well log tapes (# tapes 12 ; library tape yes)
N/A	Core analysis reports/core descriptions
N/A	Sidewall core analysis reports/descriptions
6-15-88	Samples (washed and dried): Interval 3200-8580'
N/A	Velocity survey analysis: Interval N/A
7-1-88	MWD Log: Interval 3300-7340'; 6270-7510' 2" MD 3300-7340'; 6200-7510' Engineering Parameters Report Anadrill End of Well Report
7-27-88	Composite directional survey: Interval 563-7240' Gyro 7240-8550' MWD 8550-8583' Projected
7-27-88	Completion Report (Form MMS-330)
N/A	Abandonment Report (Form MMS-332)
N/A	Drill Stem Test Reports
N/A	Production Test Reports

Final composite prints of electric logs:

Caliper 5"	1000-1698'
Caliper 5"	1613-3194'
DLL-GR 2", 5"	6165-8580'
Gamma Ray 5"	7300-7380'
CD-CN-GR 5"	7248-8581'
Spectralog-GR 5"	7248-8581'
BHC Acoustilog-GR 5"	7300-8568'
BHC Acoustilog-Quality Control 5"	7300-8568'
BHC Acoustic Fraclog GR 5"	7300-8568'
Minilog 5"	7300-8580'
4-Arm Diplog 5"	3110-7389'
4-Arm Diplog 5"	7280-8581'
Computed Diplog 5"	3110-7389'
Computed Diplog 5"	7280-8581'
ACBL-VDL-Signature 5"	6850-8490'

Date: as of 4-22-88

Verification of Submittals at Well Completion
Santa Maria District

Operator: Chevron Lease and Well No: OCS-P 0450 C-1 API No: 56-045-20062

Verification of Receipt		
as of 3-1-88	Sundry Notices (Form MMS-331)	
	1. Reduce barite	4.
	2. Change 9-5/8" csg. grade	5.
	3. Subs. Perf. & Comp.	6.
1-25-88	Final composite prints of mud logs: Interval 1057-10,498' 2" MD plus Exlog Final Well Report	
as of 2-11-88	Final composite prints of electric logs (see attached list)	
as of 3-7-88	Digital well log tapes (9 tapes)	
N/A	Core analysis reports/core descriptions	
N/A	Sidewall core analysis reports/descriptions	
need	Samples (washed and dried): Interval to be sent asap by Chevron	
N/A	Velocity survey analysis	
1-25-88	MWD: Interval 3348-10,498' 2" MD plus Anadrill End of Well Report	
2-12-88	Composite directional survey: Interval 564-10,498' NL Sperry-Sun	
2-12-88	Completion Report (Form MMS-330)	
N/A	Drill Stem Test Reports	



Final composite prints of electric logs:

1.	DLL-MLL-GR 2", 5"	1056-10,494'
2.	BHC Acoustilog 5"	9350-10,496'
3.	BHC Acoustic Fraclog 5"	9350-10,496'
4.	CD-CN-GR 5"	9380-10,496'
5.	Minilog 5"	9350-10,496'
6.	Caliper 5"	1020-3336'
7.	Diplog 5"	3300-10,496'
8.	Computed Diplog 2", 5"	3300-10,496'
9.	Special Computed Diplog 5"	7500-10,496'
10.	Comparison Diplog 60"	8800-8900'
11.	Stratadip 5"	8850-8880'
12.	Diplog Printout	3337-10,517'
13.	CBL 5"	8895-10,394'



Chevron

March 19, 1997

Chevron U.S.A. Production Company
646 County Square Drive
Ventura, California 93003

V. Sankur
Pt. Arguello Asset Team Leader
Ventura Profit Center
Production Department

Minerals Management Service
222 Carmen Lane, Suite #201
Santa Maria, California 93454-7731

Attention: Mr. Phil Schroeder

Gentlemen:

Attached please find our proposed frac head arrangement for your review. The frac head has been segmented and labeled for your reference. Segment descriptions with respect to sour service and NACE certification are summarized below. Our frac fluid pumping/flowback plan and flowback volume limitations are also included. We have discussed this plan with Mr. Mike Mitchell of your staff on March 18 and are proceeding with these plans. If you have any questions, concerns, or objections to this plan, please call Mr. R.M. Quilter at (805) 658-4400.

FRAC HEAD ARRANGEMENTS SEGMENTS

SEGMENT A. Lowest-most 4-1/16" 10000 psi valve
- 4-1/16" valve body and bonnet are manufactured in accordance with NACE
- Will have NACE gates, segments, seats, and stems
- The lowest-most 4-1/16" valve will be NACE approved

SEGMENT B. Frac head with two 2-1/16" 10000 psi valves
- 2-1/16" valve bodies and bonnets are manufactured in accordance with NACE
- 2-1/16" valves have been hardness tested for sour service
- 2-1/16" valves have NACE gates, segments, seats, and stems
- The two 2-1/16" valves will be NACE approved
- Frac head is made of materials suitable for sour service
- Frac head has been hardness tested for sour service
- Frac head has been mag particle inspected
- Frac head will be NACE approved

SEGMENT C. Upper-most 4-1/16" 10000 psi valve
- 4-1/16" valve body and bonnet are manufactured in accordance with NACE
- 4-1/16" valve has sour service stems
- Has been hardness tested for sour service
- 4-1/16" valve does not have NACE gates, segments, and seats
- The upper-most 4-1/16" valve will not be NACE approved

FRAC FLUID PUMPING/FLOWBACK PLAN

All of the frac fluid will be pumped into the wellbore through the two 2-1/16" valves. Initially, crosslinked frac fluid will be pumped. Proppant will be added to the crosslinked frac fluid in a ramped-up fashion from 0 ppg to 8 ppg. The frac fluid will then be displaced to the tubing tail. Following this displacement, we plan on flowing the well back through the lower-most 4-1/16" valve and one of the two 2-1/16" valves to a flowback line hooked up to a choke manifold. This manifold will allow us to control the flowback rate to our cleanup separators. We feel this flowback portion is necessary to properly pack the proppant in the reservoir and to reduce our chance of proppant flowback following the frac job.

FLOWBACK VOLUME

Our plan is to flow back enough fluid until one of the following three events occur:

1. The well no longer flows to the surface. We are not equipped to gas lift the well immediately following the frac job. If the recovered frac fluid loads up the well to a sufficient state whereby the well will no longer flow, flowback will cease and we will begin completion operations.
2. We have recovered 500 barrels of frac fluid. Our cleanup separators have a maximum capacity of 500 barrels. When this capacity has been reached, flowback will cease and we will begin completion operations.
3. We receive reservoir fluid at the surface. Once reservoir oil is observed and recorded at the surface, flowback will cease and we will begin completion operations.

Very truly yours,

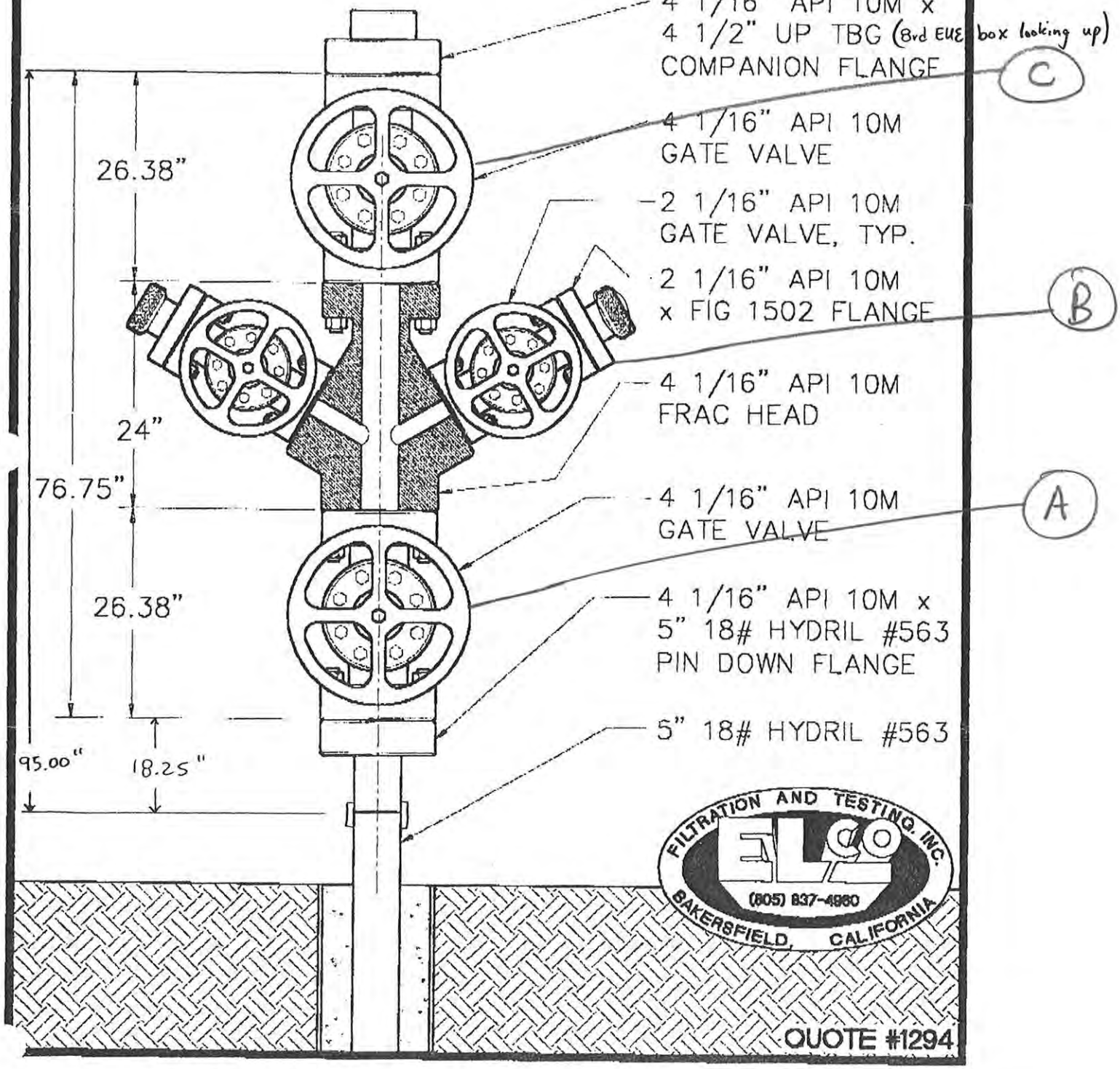
Attachment
cc: RAP

CHEVRON USA

PLATFORM HIDALGO

WELL #PRO-316-1

ATTN: CARL SIMONSON



FILTRATION AND TESTING, INC.
ELCO
(805) 837-4960
BAKERSFIELD, CALIFORNIA

QUOTE #1294

Chevron

Chevron U.S.A. Production Company
646 County Square Drive
Ventura, California 93003

February 24, 1997

V. Sankur
Pt. Arguello Asset Team Leader
Ventura Profit Center
Production Department

Mr. Phil Schroeder
Minerals Management Services
222 W. Carmen Lane.
Santa Maria, California 93454

MAR – 3

Dear Mr. Schroeder:

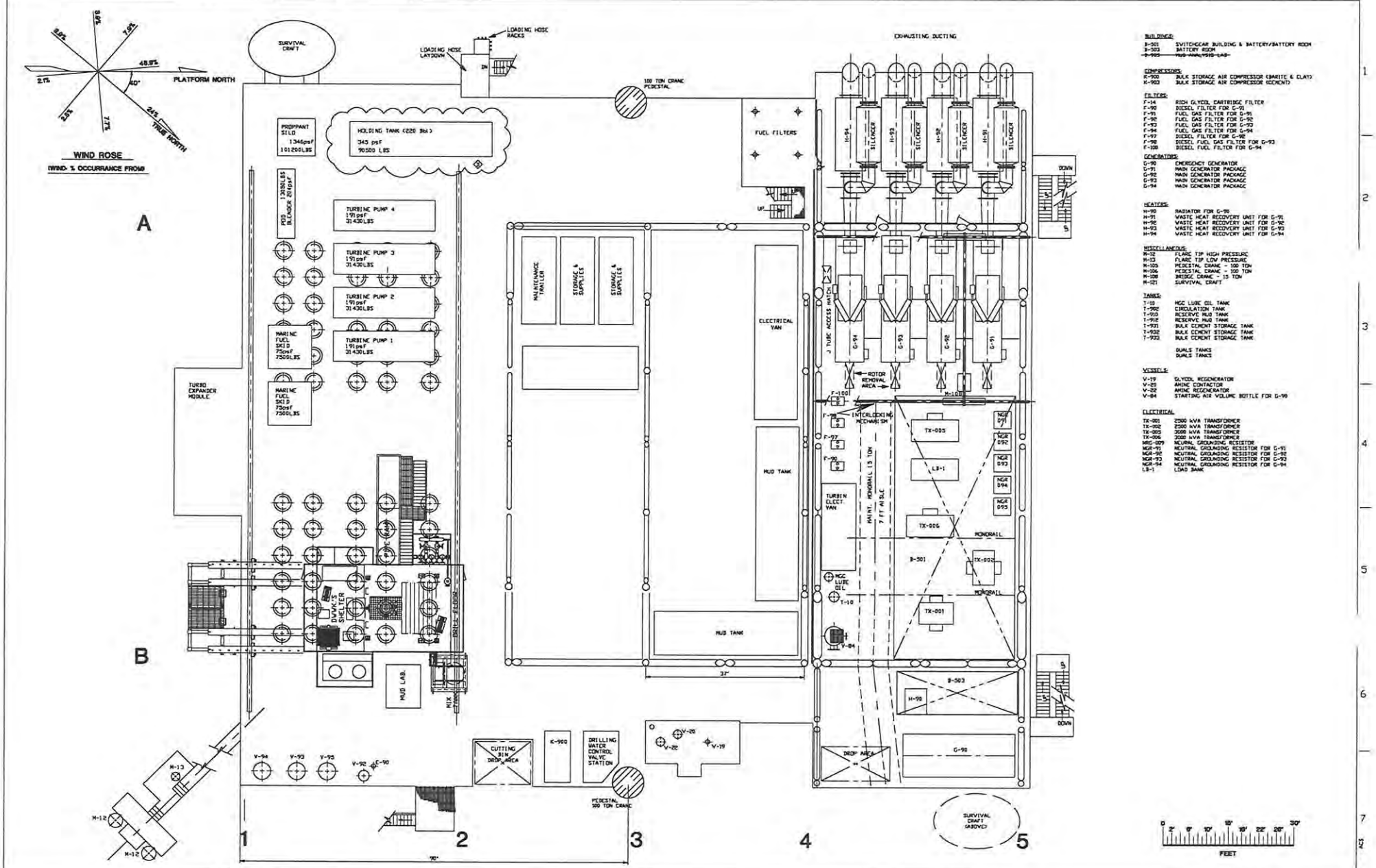
Attached for your review is an equipment layout change for our upcoming approved hydraulic fracturing jobs on Platform Hidalgo. We will be moving the 500 barrel tank from the main deck to the pipe deck. This moved tank will be placed a minimum of 8 feet away from the other two 500 barrel tanks on the pipe deck to maintain proper deck loading. Replacing the 500 barrel tank on the main deck will be a 220 barrel holding tank. This holding tank is being fabricated with sufficient valve outlets to fulfill our frac job pump rate requirement of 30-40 barrels per minute.

Please provide your concurrence on this layout modification. Mr. R. M. Quilter can be reached at (805) 658-4400 if you have any questions.

Very truly yours

Attachments

DOWELL SCHLUMBERGER FRAC EQUIPMENT SPECIFICATIONS				
Name	Pieces	Weight (lbs)	Dimensions	Loading (lbs/sq. ft.)
----Main Deck----				
POD Blender	1	13050	4' X 16'	204
Turbine Pump	4	31430	7' X 23.5'	191
Proppant Silo (Filled with 85000 lbs proppant)	1	101200	8.67' X 8.67'	1346
Marine Fuel Skid	2	7500	10' X 10'	75
Holding Tank (Filled with 220 BBLS Water)	1	90500	8' X 33'	343
Total Main Deck Frac Eqpt Loading		**251184**		
----Pipe Deck----				
Frac Tanks (Filled with 480 BBLS Water)	3	192000	8' X 40'	600
Treatment Control Skid	1	10000	8' X 13'	96
Total Pipe Deck Frac Eqpt Loading		**586000**		



BUILDINGS:
B-501 SWITCHGEAR BUILDING & BATTERY/BATTERY ROOM
B-503 BATTERY ROOM
~~B-505 MUD MAN/SIG LAB~~

COMPRESSORS:
K-900 BULK STORAGE AIR COMPRESSOR (BARITE & CLAY)
K-903 BULK STORAGE AIR COMPRESSOR (CEMENT)

FILTERS:
F-14 RICH GLYCOL CARTRIDGE FILTER
F-90 DIESEL FILTER FOR G-91
F-91 FUEL GAS FILTER FOR G-91
F-92 FUEL GAS FILTER FOR G-92
F-93 FUEL GAS FILTER FOR G-93
F-94 FUEL GAS FILTER FOR G-94
F-97 DIESEL FILTER FOR G-90
F-98 DIESEL FUEL GAS FILTER FOR G-93
F-108 DIESEL FUEL FILTER FOR G-94

GENERATORS:
G-90 EMERGENCY GENERATOR
G-91 MAIN GENERATOR PACKAGE
G-92 MAIN GENERATOR PACKAGE
G-93 MAIN GENERATOR PACKAGE
G-94 MAIN GENERATOR PACKAGE

HEATERS:
H-90 RADIATOR FOR G-90
H-91 WASTE HEAT RECOVERY UNIT FOR G-91
H-92 WASTE HEAT RECOVERY UNIT FOR G-92
H-93 WASTE HEAT RECOVERY UNIT FOR G-93
H-94 WASTE HEAT RECOVERY UNIT FOR G-94

MISCELLANEOUS:
M-12 FLARE TIP HIGH PRESSURE
M-13 FLARE TIP LOW PRESSURE
M-103 PEDESTAL CRANE - 100 TON
M-106 PEDESTAL CRANE - 100 TON
M-108 BRIDGE CRANE - 15 TON
M-121 SURVIVAL CRAFT

TANKS:
T-10 MGC LUBE OIL TANK
T-900 CIRCULATION TANK
T-910 RESERVE MUD TANK
T-912 RESERVE MUD TANK
T-921 BULK CEMENT STORAGE TANK
T-922 BULK CEMENT STORAGE TANK
T-923 BULK CEMENT STORAGE TANK
DUALS TANKS
DUALS TANKS

VESSELS:
V-19 GLYCOL REGENERATOR
V-20 AMINE CONTACTOR
V-22 AMINE REGENERATOR
V-94 STARTING AIR VOLUME BOTTLE FOR G-90

ELECTRICAL:
TX-001 2500 kVA TRANSFORMER
TX-002 2500 kVA TRANSFORMER
TX-003 3000 kVA TRANSFORMER
TX-006 3000 kVA TRANSFORMER
NRG-009 NEUTRAL GROUNDING RESISTOR
NGR-91 NEUTRAL GROUNDING RESISTOR FOR G-91
NGR-92 NEUTRAL GROUNDING RESISTOR FOR G-92
NGR-93 NEUTRAL GROUNDING RESISTOR FOR G-93
NGR-94 NEUTRAL GROUNDING RESISTOR FOR G-94
LB-1 LOAD BANK

REFERENCE DRAWINGS

REVISIONS
1 AS-BUILT REMOVED T-84, T-85 P-83, P-84, P-90, & P-91 — RMG
2 ADDED PROPOSED DRILLING RIG AND FRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL — ACS RMG
3 FINAL EQUIPMENT PLACEMENT ISSUED TO MMS FOR APPROVAL — RMG ACS

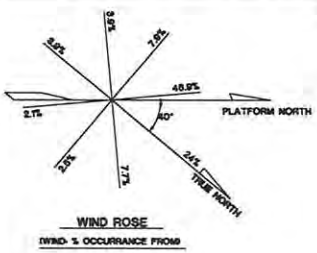
SCALE 1" = 1/8"
DATE 7-20-95 DR. ACS CK.
DR. APPR. ENG.
OPR'R. DEPT. APPROVED
ENG'R. DEPT.

Chevron
Chevron U.S.A. Inc.
Western Production Business Unit
Ventura District

EQUIPMENT ARRANGEMENT PLAN
MAIN DECKAND POWER EL. 95'-3"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

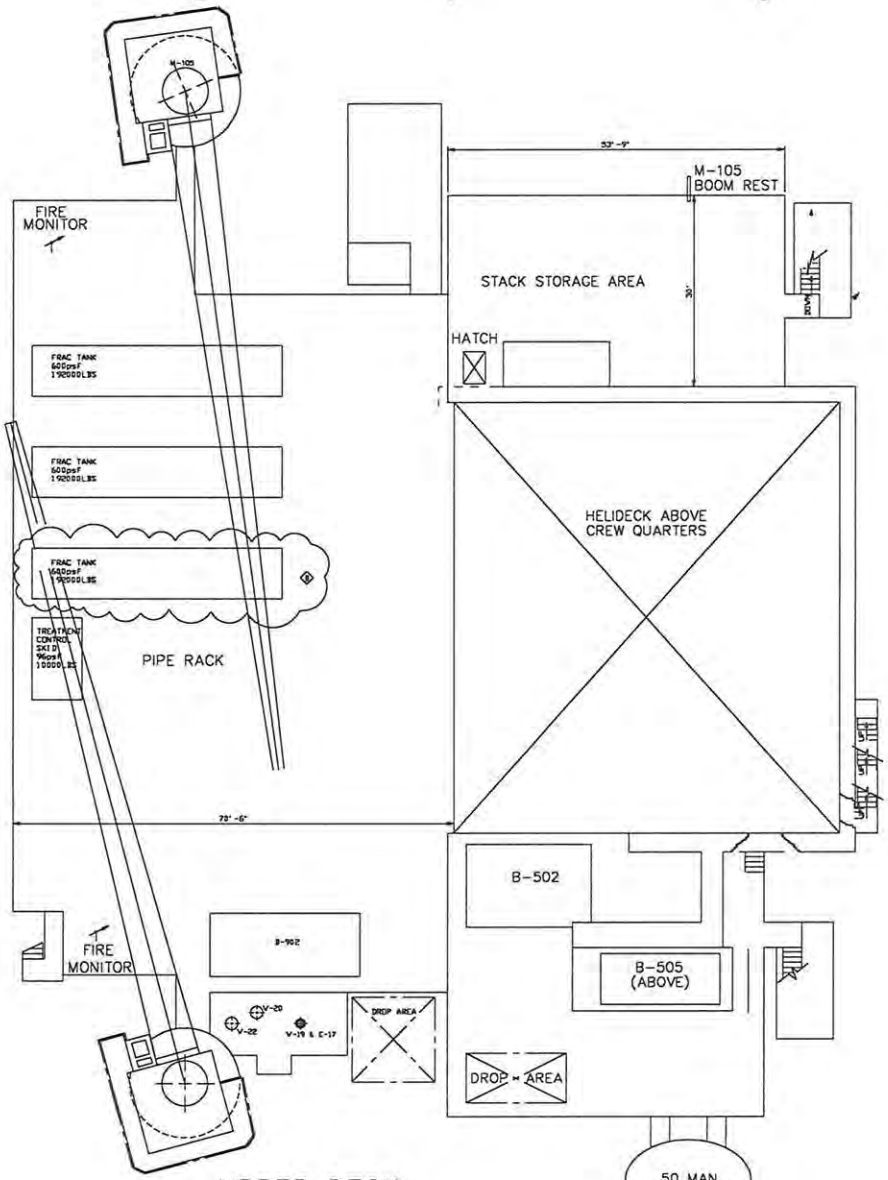
A | C.C. | E-SB-1600 | B | S.D.

ESB1600 HIDALGO



WIND ROSE

(WIND- % OCCURRANCE FROM)



UPPER DECK

EL. 123'-0"

BUILDINGS:
B-502 HVAC EQUIPMENT BUILDING
B-101 CREW QUARTERS/HELIPORT
B-504 SHOWER & CHANGE ROOM
B-505 POWER FACTOR BUILDING
B-904 MCC CSCR - EAST BAY2
B-902 CRANE EQUIPMENT STORAGE BLD.

EXCHANGERS:
C-17 GLYCOL REGENERATOR CONDENSER

GENERATORS:
G-901 STAND-BY GENERATOR

MISCELLANEOUS:
M-105 PEDESTAL CRANE 100 TON
M-106 PEDESTAL CRANE - 100 TON
M-129 SURVIVAL CRAFT
M-911 LOGGING UNIT

VESSELS:
V-19 GLYCOL REGENERATOR
V-20 AMINE CONTACTOR
V-22 AMINE REGENERATOR

0 2' 6' 10' 14' 18' 22' 26' 30'

FEET

1/8" = 1'-0"

REFERENCE DRAWINGS

REVISIONS

◇ AS-BUILT - GENERAL ADDED B-505 POWER FACTOR — RHG

◇ ADDED PROPOSED FRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL — ACS

◇ FINAL EQUIPMENT PLACEMENT ISSUED TO MMS — RHG

◇ — ACS

SCALE: 1" = 1/8"

DATE: 2-22-95 DR. ACS CK.

DR. APPR. ENG.

DPR'G. DCPT. APPROVED

ENG'R. DCPT.

Chevron

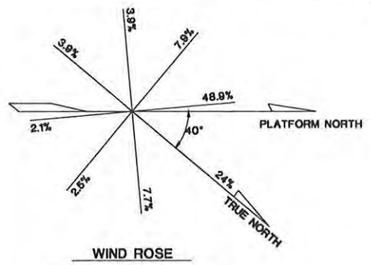
Chevron U.S.A. Inc.
Western Production Business Unit
Ventura District

EQUIPMENT ARRANGEMENT PLAN
UPPER DECK PIPERACK EL. 123'-0"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | C.C. | E-SB-1500 | B | S.O.

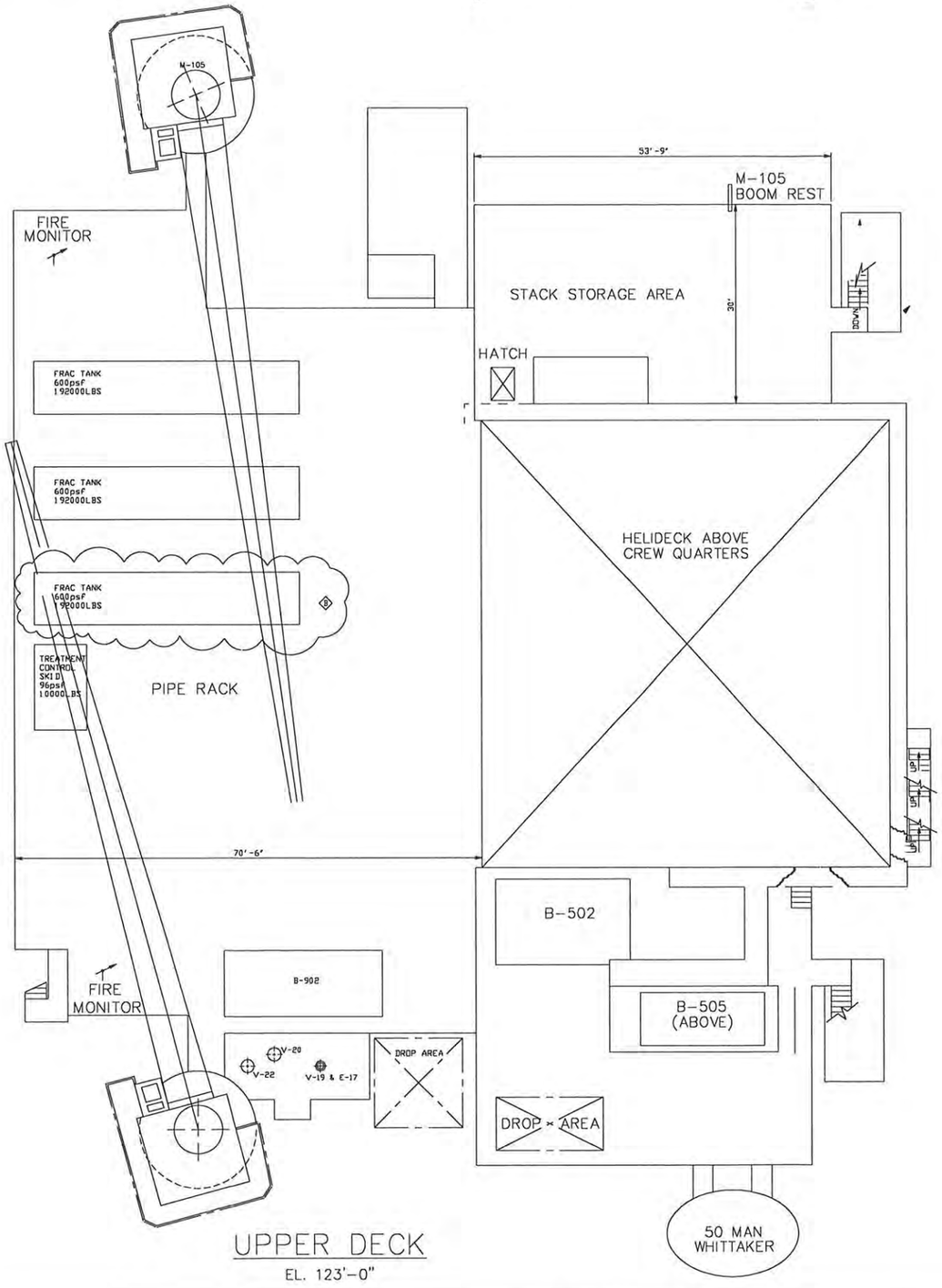
ACS

ERB.500
D:\CADVIEW\A.DGN



WIND ROSE

(WIND- % OCCURRANCE FROM)



UPPER DECK

EL. 123'-0"

BUILDINGS:
- B-502 HVAC EQUIPMENT BUILDING
- B-601 CREW QUARTERS/HELIPORT
- B-504 SHOWER & CHANGE ROOM
- B-505 POWER FACTOR BUILDING
- B-904 MCC (SCR - EAST BAY)
- B-902 CRANE EQUIPMENT STORAGE BLD.

EXCHANGERS:
- E-17 GLYCOL REGENERATOR CONDENSER

GENERATORS:
- G-901 STAND-BY GENERATOR

MISCELLANEOUS:
- M-105 PEDESTAL CRANE 100 TON
- M-106 PEDESTAL CRANE - 100 TON
- M-120 SURVIVAL CRAFT
- M-911 LOGGING UNIT

VESSELS:
- V-19 GLYCOL REGENERATOR
- V-20 AMINE CONTACTOR
- V-22 AMINE REGENERATOR

0 2' 6' 10' 15' 18' 22' 26' 30'

FEET

1/8" = 1'-0"

REFERENCE DRAWINGS	REVISIONS		
	◇ AS-BUILT - GENERAL ADDED B-505 POWER FACTOR		⟨B⟩ FINAL EQUIPMENT PLACEMENT ISSUED TO MMS
	⟨A⟩ ADDED PROPOSED FRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL	ACS RMQ	◇

RMQ ACS

SCALE 1" = 1/8"

DATE 7-20-95 DR. ACS CK. ____

DR. APPR. ____ ENG. ____

OPR'G. DEPT. ____ APPROVED

ENG'R. DEPT. ____

Chevron

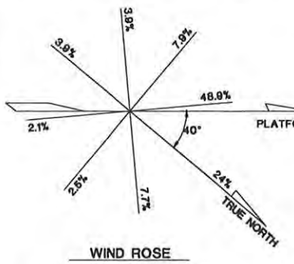
Chevron U.S.A. Inc.
Western Production Business Unit
Ventura District

EQUIPMENT ARRANGEMENT PLAN
UPPER DECK PIPERACK EL. 123'-0"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | C.C. ____ S.O. ____ | E-SB-1500 | B

ESRI_500 D:\CAD\HI DALGO

ACS



WIND ROSE

(WIND- % OCCURRANCE FROM)

SURVIVAL CRAFT

LOADING HOSE LAYDOWN

LOADING HOSE RACKS

DN

100 TON CRANE PEDESTAL

EXHAUSTING DUCTING

PROPPANT SILO
1346psf
101200LBS

HOLDING TANK (220 Bbl)
345 psf
90500 LBS

POD
BLENDER 1305LBS
204psf

TURBINE PUMP 4
191psf
31430LBS

TURBINE PUMP 3
191psf
31430LBS

TURBINE PUMP 2
191psf
31430LBS

TURBINE PUMP 1
191psf
31430LBS

MARINE FUEL SKID
75psf
7500LBS

MARINE FUEL SKID
75psf
7500LBS

TURBO EXPANDER MODULE

FUEL FILTERS

UP

DOWN

H-94 SILENCER

H-93 SILENCER

H-92 SILENCER

H-91 SILENCER

MAINTENANCE TRAILER

STORAGE & SUPPLIES

STORAGE & SUPPLIES

ELECTRICAL VAN

J TUBE ACCESS HATCH

G-94

G-93

G-92

G-91

ROTOR REMOVAL AREA

F-100

M-100

F-98

INTERLOCKING MECHANISM

F-97

F-90

MUD TANK

TURBIN ELECT. VAN

MAINT. MONORAIL 15 TON

7 FT AISLE

TX-005

NGR 091

NGR 092

NGR 093

NGR 094

NGR 095

LB-1

TX-006

MONORAIL

B-501

TX-002

MONORAIL

MGC LUBE OIL

T-10

TX-001

V-04

37'

B-503

H-90

DOWN

DROP AREA

G-90

A

B

DWK'S SHELTER

PIPE RACK

CATTLE FLOOR

MUD LAB.

MIX TANK

V-94 V-93 V-95 V-92 C-90

M-13

M-12

M-12

CUTTING BIN DROP AREA

K-900

DRILLING WATER CONTROL VALVE STATION

V-20

V-22

V-19

PEDESTAL 100 TON CRANE

90'

1 2 3 4 5

SURVIVAL CRAFT (ABOVE)

0 2' 6' 10' 15' 16' 22' 26' 30'

FEET

BUILDINGS:

B-501	SWITCHGEAR BUILDING & BATTERY/BATTERY ROOM
B-503	BATTERY ROOM
~~B-505~~	~~MUD ANALYSIS LAB~~

COMPRESSORS:

K-900	BULK STORAGE AIR COMPRESSOR (BARITE & CLAY)
K-903	BULK STORAGE AIR COMPRESSOR (CEMENT)

FILTERS:

F-14	RICH GLYCOL CARTRIDGE FILTER
F-90	DIESEL FILTER FOR G-91
F-91	FUEL GAS FILTER FOR G-91
F-92	FUEL GAS FILTER FOR G-92
F-93	FUEL GAS FILTER FOR G-93
F-94	FUEL GAS FILTER FOR G-94
F-97	DIESEL FILTER FOR G-92
F-98	DIESEL FUEL GAS FILTER FOR G-93
F-100	DIESEL FUEL FILTER FOR G-94

GENERATORS:

G-90	EMERGENCY GENERATOR
G-91	MAIN GENERATOR PACKAGE
G-92	MAIN GENERATOR PACKAGE
G-93	MAIN GENERATOR PACKAGE
G-94	MAIN GENERATOR PACKAGE

HEATERS:

H-90	RADIATOR FOR G-90
H-91	WASTE HEAT RECOVERY UNIT FOR G-91
H-92	WASTE HEAT RECOVERY UNIT FOR G-92
H-93	WASTE HEAT RECOVERY UNIT FOR G-93
H-94	WASTE HEAT RECOVERY UNIT FOR G-94

MISCELLANEOUS:

M-12	FLARE TIP HIGH PRESSURE
M-13	FLARE TIP LOW PRESSURE
M-105	PEDESTAL CRANE - 100 TON
M-106	PEDESTAL CRANE - 100 TON
M-108	BRIDGE CRANE - 15 TON
M-121	SURVIVAL CRAFT

TANKS:

T-10	MGC LUBE OIL TANK
T-902	CIRCULATION TANK
T-910	RESERVE MUD TANK
T-912	RESERVE MUD TANK
T-931	BULK CEMENT STORAGE TANK
T-932	BULK CEMENT STORAGE TANK
T-933	BULK CEMENT STORAGE TANK
	DUALS TANKS
	DUALS TANKS

VESSELS:

V-19	GLYCOL REGENERATOR
V-20	AMINE CONTACTOR
V-22	AMINE REGENERATOR
V-84	STARTING AIR VOLUME BOTTLE FOR G-90

ELECTRICAL

TX-001	2500 kVA TRANSFORMER
TX-002	2500 kVA TRANSFORMER
TX-005	3000 kVA TRANSFORMER
TX-006	3000 kVA TRANSFORMER
NRG-009	NEURAL GROUNDING RESISTOR
NGR-91	NEUTRAL GROUNDING RESISTOR FOR G-91
NGR-92	NEUTRAL GROUNDING RESISTOR FOR G-92
NGR-93	NEUTRAL GROUNDING RESISTOR FOR G-93
NGR-94	NEUTRAL GROUNDING RESISTOR FOR G-94
LB-1	LOAD BANK

REFERENCE DRAWINGS

REVISIONS

5	AS-BUILT REMOVED T-84, T-85 P-83, P-84, P-90, & P-91		8	FINAL EQUIPMENT PLACEMENT ISSUED TO MMS FOR APPROVAL
4	ADDED PROPOSED DRILLING RIG AND FRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL	ACS RMD	◇	

RMD ACS

SCALE 1" = 1/8"

DATE 7-20-99 DR. ACS CK.

DR. APPR. ENG.

OPR'G. DEPT. APPROVED

ENG'R. DEPT.

Chevron

Chevron U.S.A. Inc.
Western Production Business Unit
Ventura District

EQUIPMENT ARRANGEMENT PLAN
MAIN DECKAND POWER EL. 95'-3"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | C. C. | E-SB-1600 | B | S. O.

ESB1600 D:\CAD\HIDALGO

ACS

Chevron

Chevron U.S.A. Inc.
646 County Square Drive, Ventura, California
Mail Address: P.O. Box 6917, Ventura, CA 93006

MINERALS MANAGEMENT SERVICE
FEB - 6 1992
RECEIVED
SANTA MARIA DISTRICT

D. A. Yunker
District Manager
Ventura District
Production Department

February 4, 1992

Sundry Notices
Wells C-1, C-4
Platform Hidalgo

Minerals Management Service
Santa Maria District
222 West Carmen Lane, Suite 201
Santa Maria, California 93454

Attn: Mr. Phil Schroeder

Gentlemen:

Per our discussion with Mr. Dan Knowlson of your staff, Chevron is hereby providing the MMS with the information it had requested pertaining to the previous C-4 rig stimulation and flowback period, in order to secure approval (Sundry notices attached) for the upcoming acid jobs on wells C-1 and C-4 on Platform Hidalgo.

Following the flowback period with the rig on the well, Well C-4 required 10.5 ppg kill fluid in order to run the production string. However, when the well did not flow on its own, a pressure gauge was run into the well on 1-22-92 that indicated the pressure gradient had dropped to the equivalent of a 9.9 ppg fluid column. Immediately following, a spectral gamma ray log run on 1-22-92 confirmed that the majority of the tagged acid entered the Sisquoc formation at 7460'-7484', 7510'-7538', 7593'-7597', and 7638'-7650'. Two gas lift valves were then run on 1-24-92 and the well was unloaded. The valves successfully lowered the bottomhole pressure by nearly 1800 psi, however the well flowed at rates of only 100-200 BPD. We suspect that damage may have occurred in the near wellbore area when the well was killed, and are proposing to remove this damage with a small nitrified acid job to further evaluate the Sisquoc formation.

Well C-1, on the other hand, is not currently perforated in the Sisquoc, and for the reasons stated above relevant to well C-4, does not appear to be an issue at this time.

If you have any further questions regarding this matter, please contact Mr. C. J. Featherstone at 658-4513.

Sincerely,

David Patterson

File P0450 well C-1 gen. corr. 12-6-91

Chevron U.S.A. Inc.
646 County Square Drive, Ventura, California
Mail Address: P.O. Box 6917, Ventura, CA 93006

MINERALS MANAGEMENT SERVICE
NOV 19 1991
RECEIVED
SANTA MARIA DISTRICT

November 15, 1991

Well C-1
Platform Hidalgo

Department of the Interior
Minerals Management Service
222 W. Carmen Lane, Suite #201
Santa Maria, California 93454

Attention: Mr. Phil Schroeder
District Supervisor

As discussed with Mr. Dan Knowlson of your staff on November 14, 1991, we have confirmed that well C-1 on Platform Hidalgo has a packer leak. We intend to mobilize a rig and pull the well near December, 1991 to correct both the packer and previously observed sub-surface safety valve problems.

As you are aware, we had planned to perform wireline work and a xylene wash on the C-1 SSSV since it would not pass a leak off test on October 30, 1991. However, after discussing our packer leak and plans to mobilize a rig in December, Mr. Dan Knowlson advised that this work was no longer required since we intend to pull the well and correct the SSSV problem and packer leak at that time.

We request permission to continue to produce the well on gas lift until the rig is moved on the well.

Please contact Mr. Nick Lucidi at 658-4529 if you have any questions.

Very Truly Yours,

David Patterson

D. E. Patterson
Operations Supervisor

File Ca 0450 C-1 sp
11-18-91

Chevron U.S.A. Inc.
646 County Square Drive, Ventura, California
Mail Address: P.O. Box 6917, Ventura, CA 93006

MINERALS MANAGEMENT SERVICE
SEP 17 1991
RECEIVED
SANTA MARIA DISTRICT

September 13, 1991

Minerals Management Service
Santa Maria District
222 West Carmen Lane, Suite 201
Santa Maria, California 93454

Attention: Mr. Phil Schroeder

Gentlemen:

Hidalgo well C-1 exhibits some communication between the production tubing and casing. This has been indicated by a build up of casing pressure as tubing pressure increases (for example, when the well is shut-in).

This well is completed with eight gas lift mandrels in the tubing string. All of the mandrels currently have dummy valves installed. On August 26, 1991 a sonic fluid level shot indicated that the fluid level in the casing is at 4056' or 762' over the third mandrel (see attached schematic). We suspect that one of the dummy valves (#3-#8) is leaking and is the cause of the tubing/casing communication.

Our current plans are to install gas lift valves in C-1 to increase production from this well. After placing the well on gas lift, we propose to shoot a sonic fluid level to determine if the fluid drops below the bottom gas lift mandrel. This would be an indication that the source of the communication was not one of the dummy valves. At that time we will propose additional work to locate the source of the communication.

Very truly yours,

David Patterson

D. E. PATTERSON
Area Operations Supv.

PLATFORM ✓

FINAL C-1 MECHANICAL

D. F. ELEVATION 133 '
D. F. TO TBG HEAD 55.39'
WATER DEPTH 430 '
TREE McEVOY
5000 PSI WP

POINT ARGUELLO FIELD
OCS-P-0450 LEASE
C-1 WELL
COMPLETED: 01-13-88

GAS LIFT

McMURRY MANDRELS MD	TVD	McMURRY VALVES PSI	PORTS
1917	10° 1914	DUMMY	
3559	45° 3298	"	
4818	39° 4214	"	
5861	45° 4961	"	
6679	42° 5563	"	
7369	46° 6058	"	
8024	48° 6502	"	
8678	44° 6959	"	

24 " 201 1# CSG. TO 1056 '

18-5/8 " 117.5 # CSG. TO 1630'

13-3/8 " 68 # CSG. TO 3340'

9-5/8 " 43.5 # CSG TO 9415'

7 " 26 # CSG. TO 10498'

FLUID LEVEL

TUBING

SIZE	WEIGHT	GRADE	THREAD	FEET
3-1/2"	9.3#	L-80	Hydril 501	

3-1/2" BAKER TYPE FV-6 SSSV @ 713'
WITH "F" PROFILE (2.81"ID)

TOP 7 " LINER @ 9018'

3-1/2"BAKER MODEL "TR" SLIDING SLEEVE
WITH "F" PROFILE (2.81"ID)@9390'

7" BAKER HYDRA-PAK PACKER @9435'

3-1/2" BAKER "F" NIPPLE (2.75"ID)@9440'
3-1/2" PERFORATED PUPS (2-10' PUPS)
3-1/2" BAKER "R" NIPPLE (2.697"ID)@9461'
3-1/2" JOINT TBG
3-1/2" W/L REENTRY GUIDE @ 9495'

DIRECTIONAL DATA

VERTICAL TO ~600'
MAX ANGLE 52 @ 10,498'
52 @ TD'

PBTD 10412'

TD 10498'

CONFIDENTIAL

BY NAL DATE 2-9-88

Silver P0450 C-1 GenCor
10-.-91

Chevron U.S.A. Inc.
646 County Square Drive, Ventura, California
Mail Address: P.O. Box 6917, Ventura, CA 93006

MINERALS MANAGEMENT SERVICE
SEP 9 1991
RECEIVED
SANTA MARIA DISTRICT

September 4, 1991

Department of the Interior
Minerals Management Service
222 W. Carmen Lane, Suite 201
Santa Maria, California 93454

Attention: Mr. Phil Schroeder
District Supervisor

Gentlemen:

On August 25, 1991, a leak-off test was done to test the integrity of the surface controlled sub-surface safety valve for well C-1 on Platform Hidalgo. After the SSSV was shut, the tubing above the SSSV was bled down to 22 psi and then shut-in. Over a ten minute period the tubing pressure increased to 32 psi. This is equivalent to a gas leak rate of 2.3 SCF/minute or less. The attached notes include the methods used to calculate the leak rate and the assumptions made.

If you have any questions regarding the calculations, please contact Curt Featherstone at (805) 658-4513.

Very truly yours,

David Patterson

D. E. PATTERSON
Operations Supervisor

Attachments

Varified with a flow meter 9/91
MMS will witness a flow meter test ASAP

GENERAL CALCULATIONS, C-1 SSSV LEAK RATE

THE CALCULATIONS ON THE FOLLOWING PAGES CALCULATE THE GAS LEAK RATE PAST THE SSSV FROM OBSERVED TUBING PRESSURE. ON 8/25/91 WITH THE WELL FLOWING THE SSSV WAS CLOSED. THEN TBG PRESSURE WAS BLED DOWN TO 22 psi AND THEN SHUT-IN. OVER A 10 MINUTE PERIOD THE TBG PRESSURE INCREASED TO 32 psi. THIS IS A RATE OF 2.32 SCF/MIN.

THIS IS CALCULATED USING BOYLES LAW $P_1V_1 = P_2V_2 =$ CONSTANT

$\Rightarrow$ THE TUBING VOLUME PLUS TREE AND LUBRICATOR IS 34.1 cu ft IN C-1 ABOVE THE SSSV.

AT 22 psig THE VOLUME OF GAS IN THE TBG IS

$\Rightarrow$ 22 psig + 14.7 = 36.7 psia = P_1

TBG VOLUME IS 34.1 CF = V_1

P_2 = ATMOSPHERIC PRESSURE = 14.7 psia

$$V_2 = \frac{P_1V_1}{P_2} = \frac{(36.7)(34.1)}{14.7} = 85.1 \text{ SCF}$$

AT 32 psig THE VOLUME IS $\Rightarrow$ $P_1 = 32 + 14.7 = 46.7$ psia

$V_1 = 34.1$ cu ft $P_2 = 14.7$ psia

$$V_2 = \frac{P_1V_1}{P_2} = \frac{(46.7)(34.1)}{14.7} = 108.3 \text{ SCF}$$

ENDING VOLUME − STARTING VOLUME = 108.3 − 85.1 = 23.2 SCF

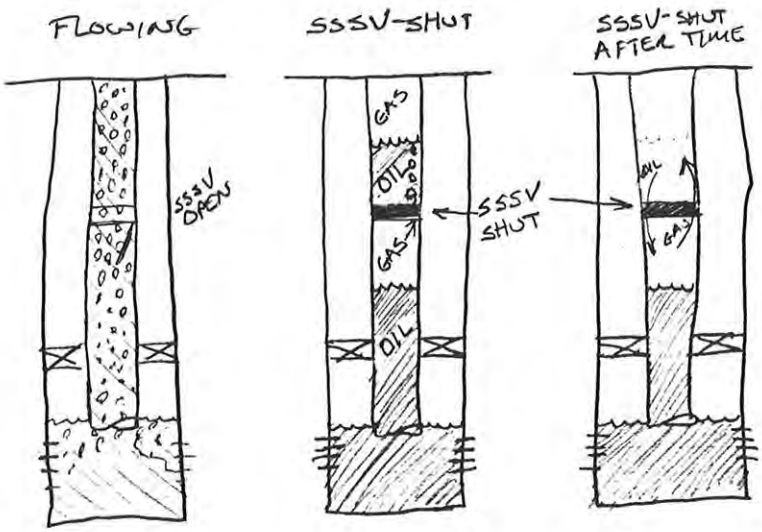
23.2 SCF OF GAS LEAKED INTO THE TBG IN 10 MINUTES OR 2.32 SCF/MIN.

CJF 9/91

ASSUMPTIONS

THE ASSUMPTIONS WE MAKE FOR THIS CALCULATION ARE THAT: 1) THE LEAKAGE PAST THE SSSV IS GAS AND NOT LIQUID, AND 2) ALL OF THE SPACE ABOVE THE SSSV IS GAS FILLED, NOT LIQUID FILLED.

ASSUMPTION ① IS GOOD BECAUSE WHEN THE WELL FLOWS, IT PRODUCES A STEADY STREAM OF OIL AND FREE GAS. WHEN THE SSSV IS SHUT, THE FREE GAS SEPARATES ABOVE AND BELOW THE SSSV. THEREFOR ANY LEAKAGE FROM BELOW THE SSSV TO ABOVE IT MUST BE GAS.



WITH A SMALL LEAK OF GAS ACROSS THE SSSV, AFTER SOME TIME THE GAS WILL DISPLACE THE OIL THAT WAS ORIGINALLY SITTING ON TOP OF THE FLAPPER. IN EITHER CASE, GAS IS BELOW THE FLAPPER AND THEREFORE ONLY GAS IS LEAKING TO ABOVE THE FLAPPER.

ASSUMPTION ② EVEN IF IT IS INCORRECT, IS THE SAFEST AND MOST CONSERVATIVE ASSUMPTION. USING THIS ASSUMPTION, (THAT ALL OF THE AREA ABOVE THE SSSV IS GAS FILLED) WE CALCULATED A LEAK RATE OF 2.32 SCF/MIN FOR A TBG PRESSURE INCREASE FROM 22 psig TO 32 psig.

→ IF WE ASSUME THAT PART OF THE SPACE ABOVE THE SSSV IS LIQUID FILLED THEN THE CALCULATED LEAK RATE IS SMALLER FOR THE SAME 10 psi INCREASE.

⇒ ASSUME TBG VOLUME (AVAILABLE FOR GAS) IS NOW ONLY 20 cu ft INSTEAD OF 34.1 cu ft. THE VOLUME OF GAS IN TBG @ 22 psig (36.7 psia) IS

$$V_2 = \frac{(36.7)(20)}{14.7} = 49.9 \text{ SCF}$$

AT 32 psig (46.7 psia) THE VOLUME IS $V_2 = \frac{(46.7)(20)}{14.7} = 63.5$ SCF

ENDING VOLUME − STARTING VOLUME = 63.5 − 49.9 = 13.6 SCF OR **1.36 SCF/MIN**

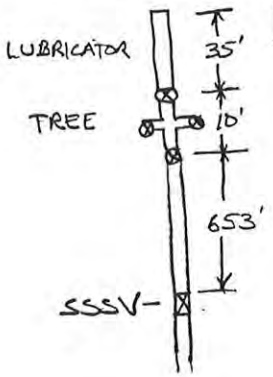
CJF 9/9

DETAILED CALCULATIONS, C-1 SSSV LEAK

ALL OF THE FOLLOWING CALCULATIONS ARE BASED ON THE IDEAL GAS LAW => $PV = nRT$ WHERE P = ABSOLUTE PRESSURE (GAUGE + 14.7), V = VOLUME OF THE GAS IN CUBIC FEET (CF), n = NUMBER OF MOLES OF GAS, R = UNIVERSAL GAS CONSTANT, T = TEMPERATURE IN KELVIN DEGREES. FOR THE CALCULATIONS BELOW, WE USE A CONSTANT TEMPERATURE SO n, R & T ARE ALL CONSTANT. THIS REDUCES THE IDEAL GAS LAW TO BOYLES LAW => **PV = CONSTANT**.

USING BOYLES LAW, FOR A GIVEN NUMBER OF MOLES (≈ MOLECULES) OF GAS, THE PRODUCT OF ITS PRESSURE AND VOLUME IS ALWAYS A CONSTANT AT ANY CONDITION SO $P_1 V_1 = P_2 V_2$ = CONSTANT.

C-1



THE "TUBING" VOLUME IS ACTUALLY A COMBINATION OF TUBING, THE TREE, AND THE LUBRICATOR.

THE "TUBING" VOLUME IS V_1 AND IS CALCULATED BELOW:

DESCRIPTION	I.D.	VOLUME FACTOR	LENGTH	TOTAL VOLUME
3½" TUBING	2.992"	0.0488 cu ft/ft	653'	31.9 cu ft
TREE	3"	0.0491 cu ft/ft	10'	0.5 cu ft
LUBRICATOR	3"	0.0491 cu ft/ft	35'	1.7 cu ft

V_1 = TOTAL VOLUME ABOVE SSSV = 34.1 cu. ft.

P_1 IS TUBING PRESSURE
P_2 IS PRESSURE AT STANDARD CONDITIONS = 14.7 psia = 0 psig
V_2 IS THE VOLUME IN STANDARD CUBIC FEET (SCF) THAT THE GAS OCCUPIES AT STANDARD PRESSURE.

$$P_1 V_1 = P_2 V_2$$

CJF 7/91

DETAILED CALCULATIONS C-1 SSSV LEAK RATE

$P_1V_1 = P_2V_2$

CALCULATE THE VOLUME OF GAS IN SCF IN C-1 ABOVE THE CLOSED SSSV IF THE TUBING PRESSURE IS 10 psi (gauge).

$\Rightarrow$ 10 psig + 14.7 = 24.7 psia = P_1

TUBING VOLUME = 34.1 cu ft = V_1

AT STANDARD CONDITIONS, PRESSURE = 14.7 psia = P_2

$$V_2 = \frac{P_1V_1}{P_2} = \frac{24.7 \times 34.1}{14.7} = 57.3 \text{ cu ft.}$$

SIMILARLY, IF TBG PRESSURE (P_1) = 20 psig = 34.7 psia

$$V_2 = \frac{P_1V_1}{P_2} = \frac{34.7 \times 34.1}{14.7} = 80.5 \text{ cu. ft.}$$

USING THIS METHOD THE FOLLOWING TABLE FOR C-1 IS CONSTRUCTED:

TUBING PRESS. (GAUGE)	TUBING PRESS (ABSOLUTE) (P_1)	TUBING VOLUME cu ft. (V_1)	STANDARD PRESSURE (P_2)	GAS VOLUME AT STANDARD PRESSURE (SCF) (V_2)	DIFFERENCE
Ø psig	14.7 psia	34.1 cu ft	14.7 psia	34.1 SCF	23.2 SCF
10 psig	24.7 psia	34.1 cu ft	14.7 psia	57.3 SCF	23.2 SCF
20 psig	34.7 psia	34.1 cu ft	14.7 psia	80.5 SCF	23.2 SCF
30 psig	44.7 psia	34.1 cu ft	14.7 psia	103.7 SCF	23.2 SCF
40 psig	54.7 psia	34.1 cu ft	14.7 psia	126.9 SCF	23.2 SCF
50 psig	64.7 psia	34.1 cu ft	14.7 psia	150.1 SCF	

IT IS INDICATED FROM THE TABLE THAT IT TAKES 23.2 SCF OF GAS TO INCREASE THE TBG PRESSURE BY 10 PSI.

- IF DURING A 10 MINUTE SHUT IN TEST THE PRESSURE INCREASED BY 20 psi, THEN THE AMOUNT OF GAS THAT LEAKED PAST THE SSSV IS 46.4 SCF. 46.4 SCF/10 MIN IS 4.64 SCF/MIN.

CJF 9/91

DETAILED CALCULATIONS C-1 SSSV LEAK RATE

WHAT IS THE ACCEPTABLE PRESSURE INCREASE FOR C-1 DURING A 10 MINUTE SHUT-IN, IF THE STARTING PRESSURE IS 20 psi?

=> THE ACCEPTABLE GAS LEAK RATE IS 5.0 SCF/MIN SO IN 10 MINUTES 50 SCF CAN LEAK PAST THE SSSV. AT 20 psig THE VOLUME OF GAS IN THE TBG (FROM THE TABLE) IS 80.5 SCF.
AT THE END OF 10 MINUTES THE VOLUME IS 80.5 + 50 = 130.5 SCF.

$P_1 V_1 = P_2 V_2$ $P_1 = ?$ $P_2 = 14.7$ psia $V_1 = 34.1$ cf $V_2 = 130.5$

$$P_1 = \frac{P_2 V_2}{V_1} = \frac{(14.7)(130.5)}{34.1} = 56.3 \text{ psia} = 41.6 \text{ psig}$$

41.6 psig ENDING PRESSURE

STARTING PRESSURE = 20 psig, ENDING PRESSURE = 41.6 psig

ALLOWABLE RATE OF PRESSURE INCREASE IS 21.6 psig / 10 MINUTES.

THE ALLOWABLE RATE OF PRESSURE INCREASE FOR C-1 ASSUMING 5.0 SCF/MIN OF LEAKAGE IS 2.16 psi/MINUTE.

CJP 7/11

Chevron U.S.A. Inc.
646 County Square Drive, Ventura, California
Mail Address: P.O. Box 6917, Ventura, CA 93006

September 13, 1991

Minerals Management Service
Santa Maria District
222 West Carmen Lane, Suite 201
Santa Maria, California 93454

Attention: Mr. Phil Schroeder

Gentlemen:

Hidalgo well C-2 is currently operating with the sub-surface safety valve permanently locked-open. We request an extension of the previous Sundry Notice so that we can continue to produce the well through September 30, 1991. Our objective is to change the gas lift valves and produce the well at a stabilized rate so that an ambient-type SSSV can be used in the well. We intend to change the gas lift valves during the week of September 15, 1991.

C-2 will not produce at a steady rate with the current gas lift valve design. The well currently produces about 100-200 BOPD on gas lift in periodic fluid slugs. An ambient-type SSSV will not function properly with this type of flow.

C-2 HISTORY

In June 1991 it was discovered that the SSSV in C-2 would not open and it was determined that the hydraulic control line was plugged. In July we obtained permission (sundry notice attached) to install a separation sleeve to temporarily hold open the SSSV. The objective was to produce the well long enough to get a stabilized production rate. Once a stable production rate was determined then an ambient-type SSSV would be set-up and placed into the well. The well was placed on production but would not produce without artificial lift.

In August the SSSV was permanently locked-open and gas lift valves were installed. This work was done after receiving approval from your office on 8/13/91 (sundry notice attached). The Sundry Notice gave approval to operate the well for 14 days with the SSSV locked-open. After the lock-open ring was installed, the well was placed on production on 8/19/91 which placed the Sundry Notice expiration at 9/2/91. Since that time, verbal approval to continue producing the well has been obtained from Daniel Knowlson of your office.

Very truly yours,

D. E. PATTERSON
Area Operations Supv.

September 19, 1988

Mr. J. P. Lester
Chevron U.S.A., Inc.
P. O. Box 6917
Ventura, CA 93006

Dear Mr. Lester:

In regard to Lease OCS-P 0450, we need to receive the following for the indicated wells:

C-1: 1) Washed and dried cuttings samples (one set)
2) One LIS format library tape of well logs

C-2: One LIS format library tape of well logs

C-3: One LIS format library tape of well logs

If there are any questions concerning this request, please call Joan Roberts at (805) 922-7958.

Sincerely,

E. P. Danenberger
District Supervisor
Santa Maria District

cc: RS/OFO

JRoberts/st
File: 0450 C-1 Correspondence
0450 C-2 Correspondence
0450 C-3 Correspondence
Chron

June 7, 1988

Mr. Harry Barnum
Chevron U.S.A., Inc.
P. O. Box 6917
Ventura, CA 93006

Dear Mr. Barnum:

In regard to Chevron's Lease OCS-P 0450, we would like to receive the following information:

1. Well C-1: One set of washed and dried ditch samples.
   One LIS format library tape of well logs.

2. Well C-2: One LIS format library tape of well logs.

3. Well C-4: Mud logs on a weekly basis (2 copies). We have not received any mud logs to date for this well (other than one interval faxed at special request) although the well was spudded on 5-9-88.

In regard to Chevron's Lease OCS-P 0316, we need to receive mud logs (2 copies) on a weekly basis for the currently drilling B-10 well. This well was spudded on 5-16-88 and we have yet to receive any mud logs. Please rectify this situation as soon as possible for current and future Hermosa and Hidalgo wells.

Please call Joan Roberts at 922-7958 if there are any questions regarding our requests.

Sincerely,

E. P. Danenberger
District Supervisor
Santa Maria District

cc: RS/OFO

JRoberts/st
File: 0450 C-1 Correspondence
0450 C-2 Correspondence
0450 C-4 Correspondence
0316 B-10 Correspondence
Chron

Noted - Mason

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
NOV 24 1987
FIELD OPERATIONS
LOS ANGELES

November 23, 1987

Mr. R. J. B. Young
Chevron U.S.A. Inc.
P. O. Box 6917
Ventura, CA 93006

Dear Mr. Young:

We are hereby requesting that Chevron send us the following information in regard to development drilling on Platform Hidalgo, Lease OCS-P 0450:

1. Two intersecting CDP seismic lines at or near the platform site, annotated with shotpoints, marker horizons, and time scale.

2. A shotpoint base map for the 0450 lease.

3. A copy of the revised Monterey Structure map (we understand that Mr. John Claussen of Chevron is currently revising the map based on recently processed 3-D seismic data), when available.

These items were discussed during a recent telephone conversation between Mr. John Claussen of your office and Ms. Joan Roberts of our office regarding the 0450 C-1 APD.

If you have any questions regarding our request, please call Joan Roberts at (805) 922-7958.

Sincerely,

Signed by
E. P. Danenberger

E. P. Danenberger
District Supervisor
Santa Maria District

cc: ✓RS/OFO

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
SANTA MARIA DISTRICT OFFICE
222 W. CARMEN LANE, SUITE 201
SANTA MARIA, CA 93454

November 19, 1987

Memorandum

To: District Supervisor, Santa Maria District EPD 11/19/87

From: District Geologist, Santa Maria District

Subject: Geologic Hazards Analysis for Development Well APD (Proprietary)

Operator: Chevron Lease OCS-P: 0450

Field: Pt. Arguello Unit: N/A

Platform: Hidalgo Well No: C-1 Slot No: 4

Location: Surface X = 710,995.44m Y = 3,819,240.18m UTM Zone 10

Top Prod. Int. X = 709,857.68m Y = 3,820,224.2m

Bottom Hole X = 709,642.91m Y = 3,820,409.95m

KB Elev: 133' Total Depth: MD: 10,559' TVD: 8233'

Water Depth: 430' Closest Well: 0450 #3 BHL is ≈ 300' SW of the BHL of C-1

1. Geologic marker horizons

Formation	Age	Depth, RKB MD	Depth, RKB TVD	Depth, SS
top Foxen	Pliocene	2340'	2313'	-2180'
Sisquoc S-1	Pliocene	5609'	4708'	-4575'
Sisquoc S-4	Miocene	8424'	6713'	-6580'
Monterey M-1	Miocene	9232'	7288'	-7155'
Monterey M-4	Miocene	10,173'	7958'	-7825'
TD	Cretaceous	10,559'	8233'	-8100'

2. Potential Oil or Gas Reservoirs, depth/thickness

Formation	Age	Depth, RKB MD	Depth, RKB TVD	Depth, SS	Thickness	Hydrocarbon Type
Foxen	Plio	2340'	2313'	-2180'	≈ 250-300'	Gas
Monterey	Mio	9232'	7288'	-7155'	≈ 950' vert.	Oil

The well will be drilled toward the crest of the northwest-trending anticline with the bottom hole location near the 0450 #3 well. Oil gravities in the 0450 wells in this northern part of the structure ranged from 29-33.5° API; H_2S concentrations averaged 4500 ppm. The oil/water contact is anticipated at -8150' SS. The Foxen section is not anticipated to have significant gas in this well; however, it will be logged and monitored for gas shows with the mud logging commencing at the 24" shoe and a resistivity log run through the Foxen.

3. Possible fresh or salt water flows, depth/thickness

According to the DPP, no fresh water bearing formations were encountered below 630' (log data confirms this observation); sediments above this depth are primarily impermeable silts with some fresh interstitial water. Wells to date on 0450 have not penetrated any fresh water zones.

4. Possible lost circulation zones, depth/thickness

Lost circulation is a persistent problem in the Pt. Arguello field. Previous exploratory wells on 0450 experienced LC, both in the upper part of the well and in the Monterey and deeper section. A summary of these LC events follows:

Well No.	Lost Circulation Depths	Formation
0450 #1	8572 - 8750'	Monterey
	9814 - 9870'	Pt. Sal
	11,318 - 11,591'	Tranquillon Volcanics
0450 #2	5580'	Sisquoc
	8016 - 8252'	Monterey
	8307 - 8345'	Monterey
	8534 - 8737'	Monterey
0450 #3	5890'	Sisquoc
	7779 - 8881'	Monterey
0450 #4	2712'	Sisquoc
	3608 - 3625'	Sisquoc
	4103 - 5680'	Sisquoc

Chevron believes that LC is not a significant problem; however, they will utilize controlled drilling for the conductor and surface holes to avoid subjecting the formations to increased hydrostatic pressures. There is evidence in the high resolution geophysical data that buried channel deposits are prevalent in the area which could cause some of the shallow LC situations. In the Sisquoc and Monterey, LCM was used, sometimes successfully, to control LC. No well control problems arose due to LC in any of the exploratory wells.

A related problem consistently found in the exploratory wells and in other Pt. Arguello field wells is lost returns during cementing jobs; a summary of these situations follows:

Well No.	Casing jobs experiencing lost returns
0450 #1	13-3/8", 9-5/8"
0450 #2	9-5/8", 7"
0450 #3	9-5/8"
0450 #4	9-5/8"

Chevron has commented in the APD that lost returns during cement jobs may occur in this well.

5. Faulting

No known faults underlie the platform site. Two subsurface faults mapped by Chevron (map dated 7/83) lie to the northwest of the platform in the well path. These are both northeast-trending thrust faults with minor displacement. In general, the structure in the vicinity of the C-1 well is very flat and featureless, although small faults with throws of 25-50' (undetectable on seismic data) may be present in the area. No drilling problems due to faulting are anticipated.

6. Possible shallow gas zones, depth/thickness

Although the Foxen formation may have some gas potential, the likelihood is considered low since the three exploratory wells have encountered minimal indications of gas in this zone. However, Chevron will take appropriate precautions for this well; 18-5/8" casing will be set at 1640' MD/TVD which is above the top Foxen at 2340 'MD (2313' TVD). The diverter will be in place while drilling the Foxen.

Chevron detected two unusually high amplitude seismic anomalies on 3D seismic survey data. Both anomalies are mapped northwest of the platform, at depths below the top Foxen. There is another possible bright spot beneath the platform. Chevron's geophysicist does not believe it is gas; he thinks the high amplitude is indicative of a lithologic change. However, this high amplitude zone is immediately beneath the platform and will likely be intersected by the well bore. Approximate depth to the horizon is -2600' SS (0.9 sec. BSL) which is below the top of the Foxen at -2180' SS. To date, no wells have been drilled in this area to verify the presence of gas associated with these anomalies. The proposed C-1 well may intersect these anomalies although the section is not expected to be overpressured. Appropriate precautions will be taken while drilling the anomalies and the diverter will be in place while drilling the entire Foxen interval.

7. Possible overpressured or depleted zones, depth/thickness

The well is not expected to encounter any overpressured zones. No abnormal pressures were encountered in the exploratory wells. Pressure gradients on the exploratory wells, based on mud weights used during drilling, were as follows:

OCS-P 0450 Well #	Range of Mud Weights (ppg)	Maximum Pressure Gradient Equivalents (psi/ft)
1	8.5 - 11.4	0.441 - 0.587
2	8.5 - 10.4	0.441 - 0.539
3	8.5 - 9.9	0.441 - 0.514
4	8.5 - 10.2	0.441 - 0.529

Chevron is projecting the following gradients on C-1:

Depth, MD	Exp. Fracture Grad. (psi/ft)	Press. Grad. (psi/ft)	Max. Ant. Mud Weight (ppg)
0-1030'	0.495	-	8.7
1030-1640'	0.56	0.416	9.0
1640-3400'	0.61	0.433	9.2
3400-9372'	0.67	0.444	9.2
9372-10,599' TD	0.67	0.445	9.2

Previous drilling on 0450 and 0451 indicated a normal pressure gradient of 0.45 psi/ft. Chevron states that although there are no known pressure anomalies, the entire region is faulted which could lead to higher pressures in upthrown fault traps.

8. Summary of shallow hazards

Plio-Pleistocene sediments are possibly gassy in this area. Several natural gas seeps have been identified in the Hidalgo area but are deep enough not to present a problem to the platform. The gas is finely dispersed and at hydrostatic pressure (which is too low to cause any reduction in sediment shear strength).

At the platform site, a shallow "bright" reflector occurs at 32m BML on subottom profiles. Although this feature was originally interpreted as gassy sediments, further review discounts this theory since the reflector can be positively correlated with a hard streak in Boring M-20 at 80 ft BML. Gassy sediments are inferred, however, to occur at the platform site at 139' and 205' BML where gas in the boring correlates with high amplitude reflectors on Acoustipulse data. However, the gas encountered in Boring M-20 was not abnormally pressured and will not pose a well control problem.

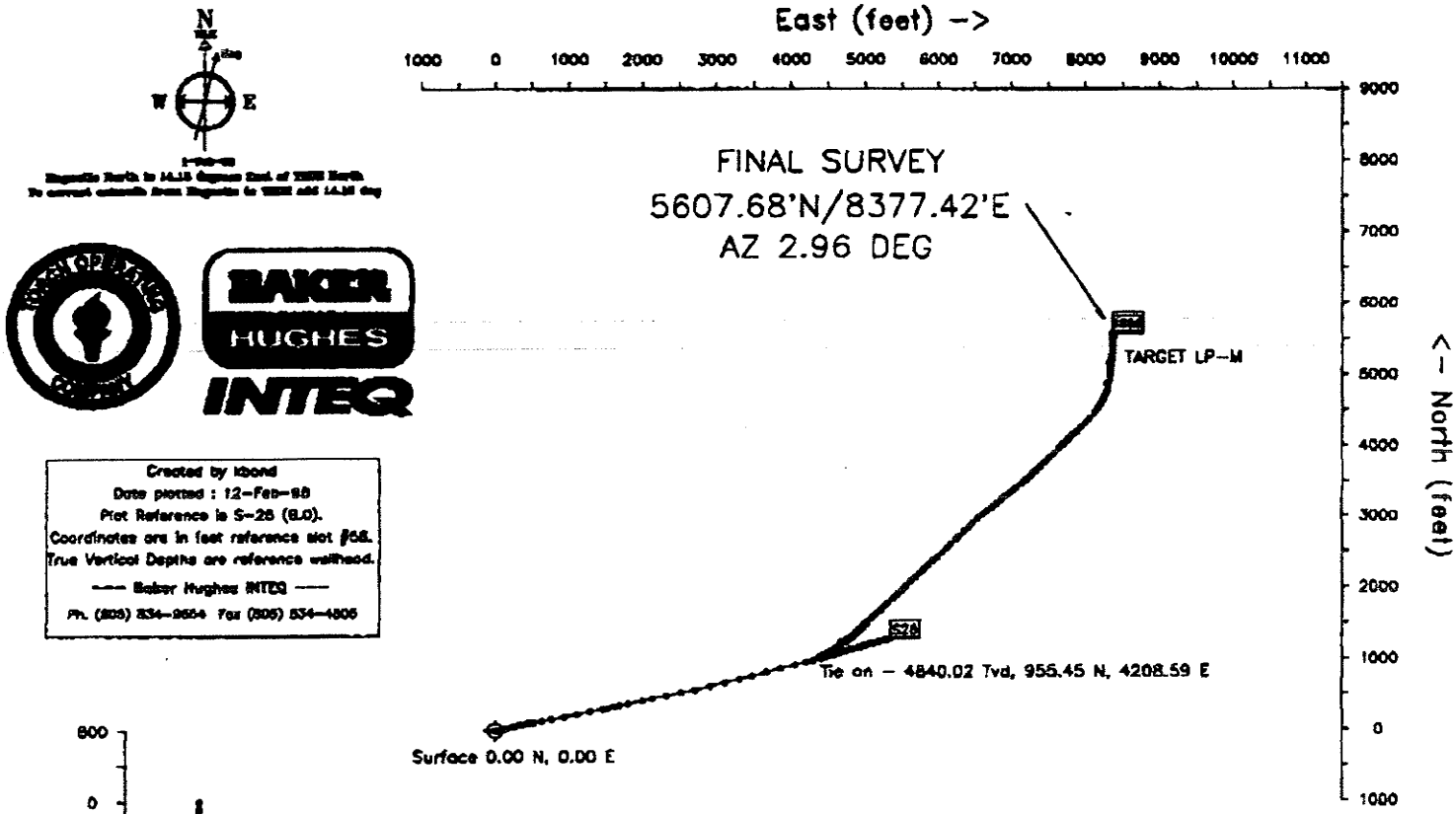
Slope stability analyses indicate that liquifaction potential is very low at the platform site. There is no evidence of recent instability. However, loss of stiffness of the Recent soils (upper 16-20 ft) is possible under extreme earthquake loading (modeled at 0.33g ground acceleration). Although downslope movement is not anticipated, the predicted maximum horizontal displacement is less than 1 foot. Predicted loss of stiffness below the Recent sediments is negligible.

9. Directional Program

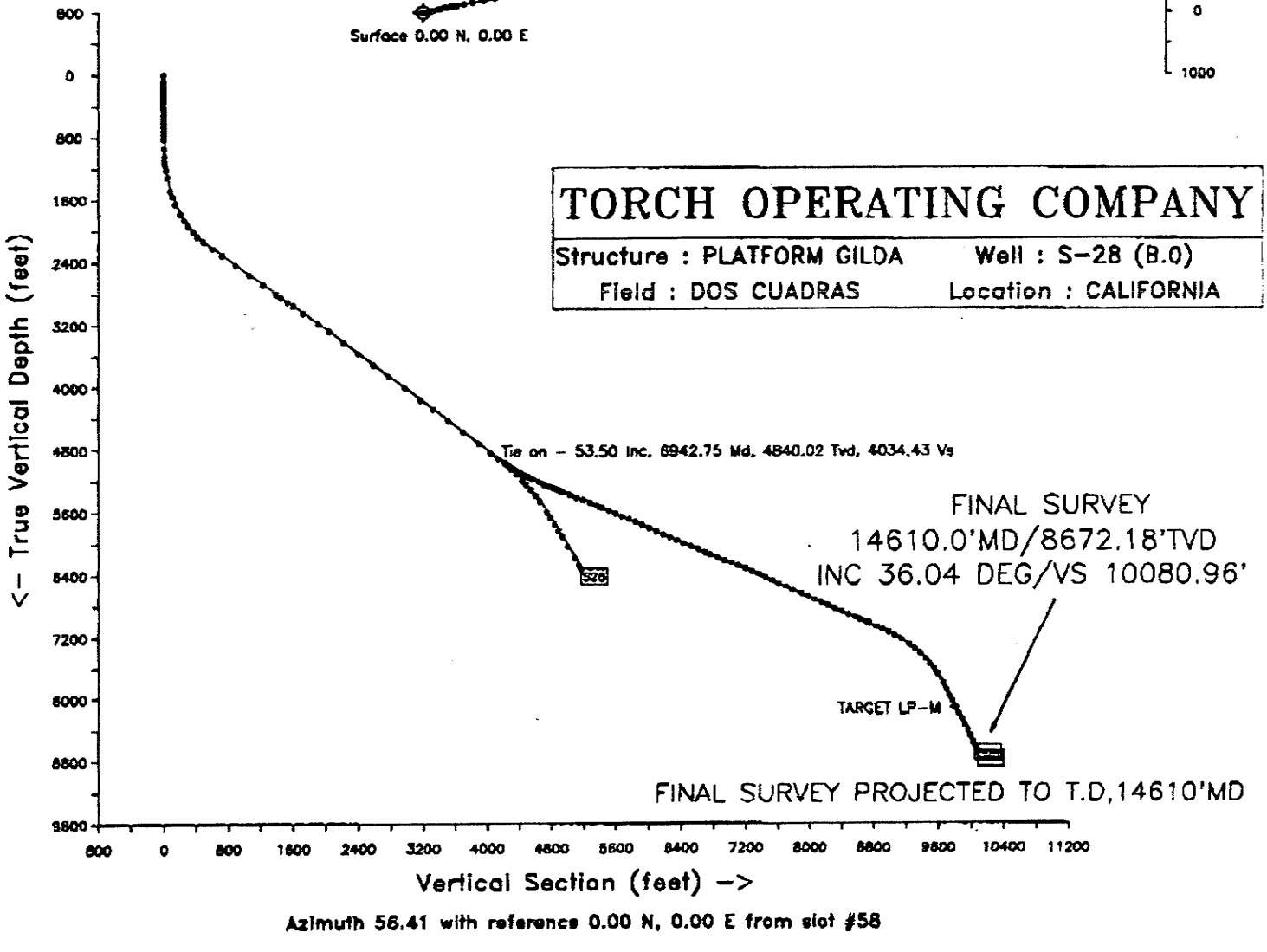
The well will be directionally drilled to the northwest from the platform. Vertical hole will be drilled from the 24" structural shoe to 1500' MD/TVD. At or near 1500' MD/TVD, the well is to be directed on a course of N 49° 09' W; hole angle will build at 3°/100' to 44° 36' at 2987' MD (2841' TVD). This angle and direction will be held to TD at 10,559' MD (8233' TVD).

Joan W. Roberts

Joan W. Roberts



Created by kbond
Date plotted : 12-Feb-99
Plot Reference is S-28 (8.0).
Coordinates are in feet reference slot #58.
True Vertical Depths are reference wellhead.
—— Baker Hughes INTEQ ——
Ph. (805) 834-9654 Fax (805) 834-4806



TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : S-28 (8.0)
Field : DOS CUADRAS Location : CALIFORNIA

Azimuth 56.41 with reference 0.00 N, 0.00 E from slot #58

TORCH OPERATING COMPANY
PLATFORM GILDA

S-28 ST #1
slot #58
DOS CUADRAS
CALIFORNIA

Santa Clara

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : S-28 SIDETRACK #1 MWD
Our ref : svy11113
License :

Date printed : 17-Feb-98
Date created : 29-Dec-97
Last revised : 12-Feb-98

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.763,w119 25 6.300
Slot Grid coordinates are N 748020.835, E 1041778.491
Slot local coordinates are 33.20 N 44.50 E

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Should reference Grid North.
Correct directional to
Grid North.

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 1
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	1041778.49	748020.83
75.00	0.17	108.42	75.00	0.04S	0.11E	0.23	0.07	1041778.60	748020.80
100.00	0.25	31.95	100.00	0.00S	0.17E	1.07	0.14	1041778.66	748020.83
125.00	0.25	11.97	125.00	0.10N	0.21E	0.35	0.23	1041778.70	748020.93
150.00	0.25	16.63	150.00	0.20N	0.24E	0.08	0.31	1041778.73	748021.03
175.00	0.25	326.65	175.00	0.30N	0.22E	0.84	0.35	1041778.72	748021.13
200.00	0.25	341.68	200.00	0.40N	0.18E	0.26	0.37	1041778.68	748021.23
225.00	0.50	358.72	225.00	0.56N	0.16E	1.08	0.44	1041778.66	748021.39
250.00	0.75	8.73	250.00	0.83N	0.18E	1.09	0.61	1041778.69	748021.66
275.00	1.00	18.97	274.99	1.20N	0.27E	1.18	0.89	1041778.80	748022.03
300.00	1.25	26.70	299.99	1.65N	0.47E	1.17	1.30	1041779.01	748022.47
325.00	1.25	19.92	324.98	2.15N	0.68E	0.59	1.76	1041779.24	748022.96
350.00	1.33	23.15	349.98	2.67N	0.89E	0.43	2.22	1041779.46	748023.48
375.00	1.25	32.88	374.97	3.17N	1.15E	0.93	2.71	1041779.74	748023.97
400.00	1.33	32.73	399.96	3.64N	1.46E	0.32	3.23	1041780.06	748024.43
425.00	1.17	38.97	424.96	4.08N	1.77E	0.84	3.74	1041780.39	748024.86
450.00	1.25	58.18	449.95	4.43N	2.17E	1.65	4.25	1041780.79	748025.19
475.00	1.25	69.42	474.95	4.67N	2.65E	0.98	4.79	1041781.29	748025.42
500.00	1.33	82.13	499.94	4.80N	3.20E	1.19	5.32	1041781.83	748025.54
525.00	1.25	86.82	524.93	4.86N	3.76E	0.53	5.82	1041782.39	748025.57
550.00	1.25	88.98	549.93	4.88N	4.30E	0.19	6.28	1041782.94	748025.58
575.00	1.08	93.67	574.92	4.87N	4.81E	0.78	6.70	1041783.45	748025.55
600.00	1.08	100.33	599.92	4.81N	5.28E	0.50	7.05	1041783.91	748025.48
625.00	1.17	105.52	624.91	4.70N	5.75E	0.54	7.39	1041784.38	748025.36
650.00	1.08	100.07	649.91	4.59N	6.23E	0.56	7.73	1041784.86	748025.23
675.00	1.17	99.75	674.90	4.50N	6.71E	0.36	8.09	1041785.34	748025.13
700.00	1.17	103.93	699.90	4.40N	7.21E	0.34	8.44	1041785.84	748025.01
725.00	1.00	97.60	724.89	4.31N	7.68E	0.83	8.78	1041786.30	748024.91
750.00	0.83	110.78	749.89	4.22N	8.06E	1.08	9.05	1041786.68	748024.80
775.00	0.83	97.90	774.89	4.13N	8.41E	0.74	9.29	1041787.02	748024.70
800.00	0.67	103.03	799.89	4.07N	8.73E	0.69	9.53	1041787.34	748024.64
825.00	0.50	140.75	824.89	3.95N	8.94E	1.64	9.64	1041787.55	748024.51
943.00	1.00	121.43	942.88	3.02N	10.15E	0.47	10.12	1041788.73	748023.54
1035.00	2.00	95.00	1034.84	2.46N	12.43E	1.29	11.72	1041790.99	748022.91
1096.00	4.00	79.00	1095.76	2.77N	15.58E	3.52	14.51	1041794.15	748023.13
1155.00	5.50	76.18	1154.55	3.84N	20.35E	2.57	19.07	1041798.95	748024.05
1215.00	7.50	82.32	1214.17	5.05N	27.02E	3.52	25.30	1041805.66	748025.06
1308.00	11.00	77.93	1305.94	7.72N	41.72E	3.84	39.02	1041820.43	748027.28
1487.00	18.75	76.18	1478.81	18.18N	86.42E	4.34	82.05	1041865.43	748036.38
1579.00	22.00	77.95	1565.05	25.31N	117.64E	3.60	112.00	1041896.86	748042.56
1679.00	25.75	77.68	1656.47	33.86N	157.20E	3.75	149.68	1041936.65	748049.90
1814.00	29.60	76.70	1776.01	47.79N	218.32E	2.87	208.30	1041998.17	748061.97
1907.00	33.90	75.30	1855.07	59.66N	265.78E	4.69	254.40	1042045.98	748072.39
2001.00	38.70	78.50	1930.81	72.18N	319.97E	5.49	306.47	1042100.52	748083.26
2094.00	43.10	78.80	2001.09	84.15N	379.65E	4.74	362.81	1042160.55	748093.42
2183.00	47.50	79.20	2063.68	96.21N	441.74E	4.95	421.20	1042222.98	748103.58
2281.00	52.20	79.20	2126.85	110.24N	515.30E	4.80	490.24	1042296.93	748115.38
2440.00	55.30	78.80	2220.86	134.72N	641.15E	1.96	608.62	1042423.48	748136.01
2595.00	55.50	78.80	2308.87	159.50N	766.30E	0.13	726.59	1042549.34	748156.98
2812.00	55.60	79.20	2431.63	193.64N	941.96E	0.16	891.80	1042725.96	748185.77

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10081.03 on azimuth 56.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 2
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
3030.00	55.80	78.50	2554.48	228.47N	1118.65E	0.28	1058.25	1042903.64	748215.22
3250.00	55.80	78.80	2678.14	264.28N	1297.05E	0.11	1226.67	1043083.05	748245.59
3464.00	56.00	78.50	2798.11	299.15N	1470.79E	0.15	1390.69	1043257.78	748275.17
3546.00	56.00	78.10	2843.97	312.94N	1537.35E	0.40	1453.77	1043324.74	748286.93
3650.00	56.10	77.10	2902.05	331.46N	1621.61E	0.80	1534.21	1043409.53	748302.89
3745.00	55.50	78.10	2955.45	348.34N	1698.35E	1.08	1607.47	1043486.75	748317.42
3899.00	55.30	78.10	3042.89	374.47N	1822.39E	0.13	1725.26	1043611.53	748339.78
4147.00	54.20	78.10	3186.02	416.24N	2020.56E	0.44	1913.44	1043810.89	748375.51
4301.00	54.10	78.10	3276.22	441.98N	2142.70E	0.06	2029.43	1043933.77	748397.52
4550.00	54.00	77.80	3422.40	484.06N	2339.83E	0.11	2216.92	1044132.10	748433.60
4798.00	53.80	77.40	3568.52	527.08N	2535.54E	0.15	2403.76	1044329.04	748470.66
5046.00	53.70	76.70	3715.17	571.90N	2730.45E	0.23	2590.91	1044525.23	748509.54
5298.00	53.70	76.40	3864.35	619.14N	2927.97E	0.10	2781.59	1044724.11	748550.76
5547.00	53.80	75.70	4011.59	667.55N	3122.85E	0.23	2970.71	1044920.38	748593.23
5794.00	53.90	75.70	4157.30	716.81N	3316.12E	0.04	3158.96	1045115.07	748636.60
6012.00	53.80	75.30	4285.90	760.89N	3486.54E	0.16	3325.31	1045286.76	748675.48
6260.00	53.60	75.30	4432.71	811.61N	3679.87E	0.08	3514.41	1045481.56	748720.30
6507.00	53.20	75.00	4579.98	862.43N	3871.54E	0.19	3702.20	1045674.70	748765.27
6760.00	53.40	74.60	4731.18	915.61N	4067.29E	0.15	3894.68	1045871.99	748812.49
6942.00	53.50	73.91	4839.57	955.28N	4208.01E	0.31	4033.85	1046013.85	748847.87
7172.00	55.20	64.10	4973.84	1022.26N	4382.07E	3.54	4215.91	1046189.88	748909.53
7235.00	57.20	62.30	5008.88	1045.87N	4428.79E	3.96	4267.89	1046237.30	748931.72
7298.00	58.40	63.00	5042.45	1070.36N	4476.14E	2.12	4320.88	1046285.38	748954.76
7329.00	59.10	62.00	5058.54	1082.60N	4499.65E	3.56	4347.23	1046309.24	748966.28
7390.00	60.60	59.90	5089.18	1108.22N	4545.75E	3.86	4399.81	1046356.11	748990.48
7454.00	60.70	59.50	5120.54	1136.36N	4593.92E	0.57	4455.50	1046405.11	749017.15
7514.00	62.00	58.50	5149.31	1163.48N	4639.05E	2.61	4508.10	1046451.04	749042.89
7578.00	62.80	57.10	5178.96	1193.71N	4687.04E	2.31	4564.80	1046499.93	749071.64
7671.00	65.70	51.80	5219.39	1242.42N	4755.12E	6.00	4648.46	1046569.47	749118.27
7737.00	66.50	50.40	5246.13	1280.31N	4802.08E	2.29	4708.54	1046617.56	749154.72
7799.00	67.30	48.60	5270.45	1317.35N	4845.44E	2.97	4765.15	1046662.03	749190.42
7862.00	67.20	47.90	5294.82	1356.03N	4888.78E	1.04	4822.66	1046706.53	749227.77
7924.00	68.50	46.90	5318.19	1394.90N	4931.05E	2.57	4879.37	1046749.96	749265.34
7988.00	68.70	44.70	5341.55	1436.44N	4973.76E	3.22	4937.94	1046793.92	749305.57
8080.00	69.00	44.00	5374.74	1497.80N	5033.74E	0.78	5021.85	1046855.74	749365.08
8171.00	69.00	44.00	5407.35	1558.91N	5092.76E	0.00	5104.82	1046916.59	749424.37
8263.00	68.20	43.30	5440.92	1620.89N	5151.88E	1.12	5188.36	1046977.57	749484.53
8357.00	67.50	45.40	5476.37	1683.14N	5212.73E	2.20	5273.49	1047040.30	749544.91
8450.00	67.40	46.40	5512.03	1742.91N	5274.41E	1.00	5357.94	1047103.77	749602.78
8517.00	67.30	46.50	5537.83	1785.51N	5319.23E	0.20	5418.84	1047149.86	749644.01
8610.00	66.80	46.90	5574.10	1844.25N	5381.55E	0.67	5503.25	1047213.94	749700.82
8704.00	66.20	46.50	5611.58	1903.37N	5444.29E	0.75	5588.22	1047278.45	749758.01
8797.00	67.10	46.20	5648.44	1962.30N	5506.07E	1.01	5672.29	1047342.00	749815.05
8891.00	66.40	45.80	5685.54	2022.30N	5568.20E	0.84	5757.23	1047405.92	749873.13
8983.00	65.40	45.80	5723.11	2080.84N	5628.40E	1.09	5839.78	1047467.88	749929.82
9080.00	65.10	46.20	5763.72	2142.04N	5691.77E	0.49	5926.42	1047533.08	749989.06
9169.00	65.20	46.50	5801.12	2197.78N	5750.20E	0.33	6005.93	1047593.19	750043.01
9265.00	64.00	46.90	5842.30	2257.26N	5813.31E	1.31	6091.41	1047658.08	750100.54
9359.00	63.50	46.50	5883.87	2315.07N	5874.67E	0.65	6174.51	1047721.17	750156.47
9453.00	66.50	45.80	5923.60	2374.09N	5936.09E	3.26	6258.33	1047784.36	750213.60

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10081.03 on azimuth 56.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 3
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
9548.00	67.10	45.40	5961.02	2435.18N	5998.48E	0.74	6344.10	1047848.58	750272.77
9645.00	67.50	45.40	5998.45	2498.02N	6062.20E	0.41	6431.93	1047914.18	750333.65
9739.00	67.40	45.10	6034.50	2559.13N	6123.85E	0.31	6517.11	1047977.67	750392.87
9833.00	67.60	45.80	6070.47	2620.06N	6185.74E	0.72	6602.37	1048041.38	750451.88
9926.00	67.50	46.20	6105.99	2679.76N	6247.57E	0.41	6686.90	1048105.00	750509.69
9998.00	66.70	46.20	6134.01	2725.67N	6295.44E	1.11	6752.18	1048154.24	750554.12
10095.00	67.30	46.50	6171.91	2787.30N	6360.04E	0.68	6840.09	1048220.70	750613.77
10191.00	67.80	46.50	6208.57	2848.37N	6424.40E	0.52	6927.49	1048286.89	750672.86
10285.00	68.30	47.90	6243.71	2907.61N	6488.37E	1.48	7013.55	1048352.63	750730.13
10378.00	67.30	48.60	6278.84	2964.95N	6552.61E	1.28	7098.78	1048418.59	750785.49
10473.00	66.60	49.30	6316.04	3022.35N	6618.53E	1.00	7185.46	1048486.23	750840.87
10568.00	65.80	50.00	6354.38	3078.63N	6684.77E	1.08	7271.77	1048554.15	750895.11
10661.00	65.40	50.70	6392.80	3132.67N	6749.98E	0.81	7355.99	1048620.98	750947.15
10755.00	65.40	51.80	6431.93	3186.17N	6816.63E	1.06	7441.11	1048689.23	750998.60
10848.00	64.00	51.80	6471.67	3238.16N	6882.71E	1.51	7524.92	1048756.85	751048.57
10941.00	65.00	50.40	6511.71	3290.88N	6948.03E	1.73	7608.50	1048823.75	751099.27
11034.00	64.90	50.00	6551.09	3344.81N	7012.76E	0.40	7692.25	1048890.09	751151.22
11127.00	65.60	49.00	6590.02	3399.66N	7076.98E	1.23	7776.09	1048955.95	751204.09
11250.00	64.20	47.60	6642.20	3473.74N	7160.14E	1.54	7886.36	1049041.34	751275.62
11343.00	65.50	46.20	6681.72	3531.26N	7221.60E	1.95	7969.38	1049104.52	751331.25
11437.00	66.10	45.40	6720.26	3591.04N	7283.07E	1.00	8053.65	1049167.78	751389.14
11528.00	66.10	45.80	6757.13	3649.25N	7342.51E	0.40	8135.37	1049228.96	751445.52
11624.00	66.50	44.70	6795.71	3711.13N	7404.93E	1.13	8221.61	1049293.25	751505.48
11721.00	67.10	44.00	6833.93	3774.89N	7467.26E	0.91	8308.80	1049357.48	751567.32
11817.00	66.60	43.70	6871.67	3838.54N	7528.41E	0.59	8394.96	1049420.54	751629.09
11910.00	65.40	43.70	6909.49	3899.97N	7587.10E	1.29	8477.83	1049481.08	751688.70
12005.00	65.70	44.40	6948.81	3962.12N	7647.23E	0.74	8562.31	1049543.07	751749.01
12076.00	66.10	44.70	6977.81	4008.31N	7692.70E	0.68	8625.74	1049589.93	751793.79
12102.00	66.40	44.70	6988.28	4025.22N	7709.44E	1.15	8649.04	1049607.17	751810.19
12165.00	66.80	44.70	7013.30	4066.32N	7750.11E	0.63	8705.65	1049649.07	751850.04
12210.00	67.10	44.70	7030.92	4095.75N	7779.23E	0.67	8746.20	1049679.08	751878.57
12305.00	66.60	44.70	7068.26	4157.84N	7840.67E	0.53	8831.73	1049742.39	751938.77
12391.00	65.70	44.40	7103.04	4213.89N	7895.85E	1.09	8908.71	1049799.25	751993.12
12478.00	64.00	43.70	7140.01	4270.49N	7950.61E	2.09	8985.63	1049855.70	752048.03
12568.00	60.90	43.30	7181.63	4328.36N	8005.53E	3.47	9063.40	1049912.36	752104.21
12662.00	57.20	41.60	7229.97	4387.82N	8059.95E	4.23	9141.62	1049968.56	752161.99
12786.00	54.00	36.70	7300.05	4467.06N	8124.57E	4.16	9239.29	1050035.56	752239.24
12882.00	51.40	34.20	7358.22	4529.24N	8168.87E	3.41	9310.60	1050081.74	752300.04
12978.00	47.10	32.40	7420.88	4589.98N	8208.82E	4.70	9377.48	1050123.52	752359.55
13069.00	44.50	28.90	7484.32	4646.06N	8242.10E	3.97	9436.24	1050158.49	752414.60
13162.00	42.10	25.10	7552.01	4702.86N	8271.09E	3.81	9491.80	1050189.19	752470.48
13253.00	40.10	19.80	7620.60	4758.07N	8293.97E	4.41	9541.40	1050213.74	752524.98
13335.00	39.40	15.90	7683.66	4807.95N	8310.04E	3.16	9582.40	1050231.32	752574.36
13483.00	41.50	13.10	7796.29	4900.90N	8334.03E	1.88	9653.80	1050258.12	752666.54
13607.00	38.60	3.70	7891.28	4979.60N	8345.85E	5.40	9707.19	1050272.33	752744.85
13701.00	38.00	1.50	7965.06	5037.79N	8348.50E	1.58	9741.59	1050276.75	752802.94
13790.00	37.80	1.20	8035.28	5092.45N	8349.79E	0.31	9772.90	1050279.70	752857.54
13885.00	40.10	2.80	8109.16	5152.13N	8351.89E	2.64	9807.67	1050283.62	752917.12
13990.00	41.50	4.20	8188.65	5220.60N	8356.09E	1.59	9849.05	1050289.89	752985.44
14080.00	41.40	4.80	8256.10	5279.99N	8360.77E	0.46	9885.80	1050296.37	753044.67

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10081.03 on azimuth 56.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK.S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 4
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
14179.00	38.90	2.00	8331.78	5343.69N	8364.59E	3.11	9924.23	1050302.13	753108.23
14273.00	38.40	2.70	8405.19	5402.35N	8367.00E	0.71	9958.69	1050306.32	753166.79
14367.00	38.20	3.10	8478.96	5460.54N	8369.95E	0.34	9993.33	1050311.03	753224.86
14458.00	37.80	2.80	8550.67	5516.49N	8372.83E	0.48	10026.69	1050315.61	753280.70
14553.00	36.70	2.90	8626.28	5573.92N	8375.69E	1.16	10060.85	1050320.22	753338.03
14610.00	36.04	2.96	8672.18	5607.68N	8377.42E	1.16	10080.96	1050322.97	753371.72

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10081.03 on azimuth 56.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-28 ST #1
DOS CUADRAS,CALIFORNIA

SURVEY LISTING Page 5
Your ref : S-28 SIDETRACK #1 MWD
Last revised : 12-Feb-98

Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
6942.00	4839.57	955.28N	4208.01E	TIE-ON
14610.00	8672.18	5607.68N	8377.42E	FINAL SURVEY PROJECTED TO T.D.14610'MD

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
TARGET LP-M	1050262.000,752935.000,999.00	8107.00	5169.34N	8329.75E	13-Oct-97
T.D.	1050315.000,753324.000,999.00	8592.00	5559.74N	8370.90E	13-Oct-97

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WEEKLY ACTIVITY REPORT
Period: 03/16/98 to 03/22/98

Week No. 15

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	**03/21/98**

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: n/a
15. Last BOP Test Date: 3/17/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RD surface equip. Install BPV and ND BOPE stack & riser. NU xmas tree, tested void to 5000 psi for 1/2 hour, set stinger plug in tree, tested tree to 5000 psi for 1/2 hour. RU Dowell tbg. **Test BOPE 250# low and 5000# high on 3/17/98.** RIH w/1 1/4" coiled tbg, jet @ 150 scf to 500'. Cont. RIH to 1000'. Jet well, rec. total of 6.6 bbls (oil-gas/water). Jet well @ 1500', 1800' & 2000'. Well started to flow at 0100 hrs. Flow well back until 0400 hrs. Attempt to keep rate @ 100 bpd. Jet and flow 58 bbls back in 9 hours (avg. 6.4 bph, 155 bpd). POOH w/coiled tbg. Monitor well. All seems o.k. **Release rig from S-28 @ 2400 hrs on 3/21/98.**

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT
Period: 03/09/98 to 03/15/98

Week No. 14

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD:	14,610		
14. Mud Weight:	14.1		
15. Last BOP Test Date:	3/1/98	Test Pressure (psi):	250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA):	COM		

17 Summary of Operations:

RIH w/GP assembly. Run all of 2 3/8" tbg and 20 stds of 3 1/2" tbg. Rabbit tbg in hole to 13971'. Drop ball and set pkr @ 13805'. Pressure test all - o.k. Pump Dowell's Stim-Pac for the "M" interval. Monitor tbg & csg press. Underbalance between tbg & csg. Well appears to be static. Rev. circ. and shut pump down. POOH w/tbg & csg. PU and run production string - 31 jts of 2 3/8" 4.7# N-80 EUE tbg, 12288.68" Halliburton 2 7/8" LX A flapper SSSV serial #171-LL-5, 20.01'. Test valve to 5000 psi for 1/2 hour - o.k. Displace 13 ppg Bromide w/6% KCL water on annulus down to 12281'. Left 30 bbls Bromide in annulus. Cont. to displace 6% KCL water w/13# Bromide on backside. Landed hanger, backed out landing jts. PU new w/pup jts. Snapped out of SC-1 pkr. Displace 13# Bromide w/6% KCL water + inhibitor & oxygen scavenger on backside to 12281'. Left 30 bbls on backside. Landed hanger in well head. Tested stinger seals and tbg to 1000 psi - o.k.
Received verbal approval for variance on BOPE test until 1200 hrs on 3/15/98 provided that Xmas tree has not been installed by Mr. Dave Gebaur w/MMS. Variance granted @ 3/14/98 2030 hrs. Received verbal approval for BOPE extension till bromide displacement w/KCL water has been completed, tbg hanger landed, ND, & tree installed f/Rishi Tyagi w/MMS @ 2300 hrs on 3/14/98.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT
Period: 03/02/98 to 03/08/98

Week #13

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD:	14,610		
14. Mud Weight:	14.1		
15. Last BOP Test Date:	3/1/98	Test Pressure (psi):	250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA):	COM		

17 Summary of Operations:

Pump 40 bbls Hi VIS pill and follow w/13.3# caustic bromide water. Pumped 441 bbls, open annular and cont. to displace seawater w/13.3# cal. bro. water @ 4.4 bpm (750#). Circ. out gel pill and check NTU's on bro. water. Had 200+ after 66 additional bbls. Pump NTU 15, and remained 15 to 16. Cont. to circ. RIH and test **BOPE per MMS regs on 3/1/98.** POOH. Prep and RIH w/Schlumberger logging tools. RIH w/ATC & CCL to 11500' - tool failed. POOH. RIH w/Gamma Ray and CCL loggers f/14370'-14000'. Tied in RA tag w/Gamma Ray and made a 6' correction to 14424'. Re-run log to verify depth. POOH. MU Howco 3 3/8" perf gun w/12 spf. RIH w/perf gun and to 14424'. Tag sump pkr. Space out **w/btm shot @ 14409' and top shot @ 14349'.** Champ pkr and set @ 12805'. Guns fired. POOH. Lay out Baker 20/40 gravel pack screen, SC-1 pckr and MU assembly. RIH w/GP assembly to 12800' and prep for frac job. Pump frac pack, displaced w/70 bbls flush, got sand out & pressure up. Bleed down and circ. Flush clean. POOH w/5 stds. Took 22 bbls to fill hole. Monitor well and POOH. PU Howco perf gun assembly and TIH. Set pkr plug in Baker SC-1 pkr @ 13973'. Set 7" pkr @ 12733'. Pressure up and **fire guns f/13896' to 13956' w/12 spf.** Monitor well and POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT
Period: 02/23/98 to 03/01/98

Week No. 12

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RIH w/4.250" bit to top of liner @ 12846' and cont. in hole to 14525'. Circ. mud out of 5" liner. Pump 22 bbls Gel Sweep until fluid clean. POOH. RIH w/5", 7" & 9.625" csg scrapers & brushing tools to 14518'. M/P and pump 50 bbls caustic pill - circ. POOH. TIH and test tbg @ 7500 psi. **Note: Received verbal approval from Ralph Vasqez @ 0830 hrs. on 2/28/98 to extend BOP test until coming out of hole after changing over fluid.** Break circ. and wash to btm @ 14525' no fill. Start circ. w/FSW following with 75 bbls HI VIS Gel pill, 5 gpb Safe VIS E, 100 bbls of caustic pill mixed w/2 ppb caustic, follow w/75 bbls of FSW, follow w/100 bbls caustic pill mixed w/2 ppb of caustic and 3 drums of rinse aid, follow w/ 75 bbls of FSW, follow s/200 bbl caustic pill mixed w/2 ppb of caustic. Circ. until clean NTU's 36.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT
Period: 02/16/98 to 02/22/98

Week No. 11

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/06/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Pressure test casing @ 2000 psi - o.k. Pressure test down tbg. to test 7" & 5" liner LAP @ 2000 psi - would blead down to 1800 psi in 10 min. Unseat pkr and POOH. CO pack off insert f/12875' to 13105'. Wash & rotate f/13105' to 14525'. Circ. hole clean & pump pill. POOH. RIH w/5.161" flutted mill and tag @ 12857'. Polish tie back sleeve & CBU. POOH. RIH w/tie back pkr. Break circ. & set tie back in place. PT seals @ 1000 psi. Set pkr TOP @ 12846'. Close rams & PT tie back to 2000 psi for 30 min. CBU & pump pill. POOH. Run Schlumberger USIT-CBT-GR-CCL from 14520' to 13400'. POOH. **Note: Notified MMS at 1130 hrs. that we would be disposing of 14.2# mud. Rishi Tyagi gave approval.** Pump 44 bbls of HI VIS Gel Sweep and circ. until clean. POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 13400'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25. Geochem Sample:

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WEEKLY ACTIVITY REPORT

Period: 02/09/98 to 02/15/98

Week No. 10

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/06/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Logged Platform Express f/14580' to 13397' on 2/10/98. POOH. W&R f/13397' to 14610'. Circ. for casing. **Began completion on 02/11/98.** Prepare to run 5" liner. Received verbal approval from MMS to hold off on BOPE test until 5" liner has been run and cemented. Run 5" 15# L-80 521 new liner w/135 sks Class "G" + 1% CD-32, 1.2% FL-1.2 + 2% SR-30 & 15.8 ppg - CIP 1010 hrs. on 2/12/98. POOH and pump pill. MU RR bit #9 and RIH w/ 3.5" DP. RIH to TOL @ 12860'. Attempt to PT liner lap - no good. 300 psi loss in 20 min. Pump pill. MU and run test plug. PT all rams, safety valves, C&K valves & choke manifold 250 low to 4700 high. Pull test plug and MU test string. PT lower pipe rams same. PT annular 250 low and 3500 high. All tests good. MU 7", 26# RTTS and RIH. RU and set packer @ 6492'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

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WEEKLY ACTIVITY REPORT

Period: 02/02/98 to 02/08/98

Week No. 09

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/06/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Drill f/13400' to 13405' and circulate. Perform P.I.T. w/13.5 ppg & TVD of csg shoe @ 7732 & 825 psi = 15.6 ppg EMW. Cont. drilling f/13405' to 14003'. Circ.and wait on weather (high winds). Cont. drilling f/14003' to TD @ 14610'. Circ. and POOH to shoe @ 13397'. Prepare to log. TIH w/logging tools to 13321' and ran T.P. Log f/13338' to 14580'. Logging going in hole. Logging out of hole f/14580' w/T.P. Logs.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/26/98 to 02/01/98

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Week No. 08

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 12.2
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

PU and set cast iron bridge plug @ 7082'. POOH to 6364'. Test lines to 3000 psi - 625.5 bpm. POOH. RIH w/ 9.625 cement retainer and set @ 6360'. Test casing above retainer to 2500 psi. Pump 25 sks Class "G" w/20 ghs CD-31L + 50 ghs FL-33L + 2 ghs R-21L + 2 ghs FP-6L to top of liner. Total cement in liner lap 12.5 bbls. Final pressure @ 1020 psi. **Estimated top of cement @ 6346'. CIP @ 0555 hrs on 1/27/98.** Pump slug & POOH. NU 13 5/8" 3000X 13 5/8" W.H. w/5000 HUB. Pressure test seals to 3000 psi. NU riser & BOP's. Install diverter. Test BOPE as per MMS regulations - 250 low & 4700 high on 1/28/98. Pressure test 5" & 3.5" annular f/250 low & 3000 high. CO cement and retainer f/6263' to top of liner @ 6393'. Circ. RIH w/BHA and tag @ 6260'. Wash to 6292'. CO cement f/6392' to 7080' (bull plug). Mill BP and chase f/7395' to 12679'. CO cement f/12679' to 12848' & mill on BP. Pump pill. CO cement f/12850 to 12905' - gas detected. Drill cement f/12905' to13371'. Test casing & liner lap @ 2500 psi for 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/19/98 to 01/25/98

Week No. 07

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Finish underreaming. Prep to run 7" 26# P110 Hyd. new csg. Mix and wt up Ultra Flush II and pump M/P 940 sks lead cmt Class "G" 12.5 wt w/2% sodium metasilicate + .8% FL-62; + .5% CD-32 + 2 ghs FP-12L, followed w/158 sks Class "G" mixed @ 15.8 w/20 ghs CD-31L; 45 ghs FL-33L; 2 ghs FP-12L. Displaced cmt w/11.9 mud to landing collar @ 13305'. Bumped plug w/2550/600 over displacement pressure. Bled to 0 psi. CIP @ 1120 hrs. on 01/22/98. RIH and tag cmt @ 3405'. Circ. Hole clean. RIH to 5442' and circ. Same. Drill cmt f/6382' to TOL @ 6392'. Circ. RU BJ and test lines to 3000 psi. MU and set test plug. Test 3.5 DP on variable rams. Test 3.5 TIW & IBOP to 3000h/250l. Test hydrill same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/12/98 to 01/18/98

Week No. 06

GENERAL INFORMATION

1. Lease (BHL): OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Bit stacking up and unable to slide @ 12280'. Add .6% by volume S.O. lube, slide drill & rotate to 12543'. Pull to 9843'. Tight hole f/12543'-10920'. Add nut plug to enhance sliding. Pulsar on MWD failed @ 12566'. POOH to change out MWD. Move heavy wall to top of string, RIH and drill ahead to 12882'. WB indicating possible over balance. Reduce mud wt. To 11.88 ppg. Wiper trip @ 13183'. Pulled tight and had to pump stands out to 12560'. Safety ream back to bottom. Drill to 13210' and short trip to 10050' (hole much improved). **Continued drilling to 13400' (TD).** Circ. Btms up. LD directional drilling tools & RIH w/9 7/8" underreamer. Underream to 8724'. POOH & **test BOPE per MMS specs. On 1/16/98.** Cont. RIH, washed last 90' to bottom. Underream to 8912'. Pull to shoe @ 6928'. Continue to Underream to 10519' at report time.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/05/98 to 01/11/98

COPY TO REGION

Week No. 05

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 12300'
14. Mud Weight: 12
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue to survey and drill from 10260' to 12300'. Wash & ream the same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

COPY TO REGION

WEEKLY ACTIVITY REPORT
Period: 12/29/97 to 01/04/98

Week No. 04

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 10260'
14. Mud Weight: 10.8
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue drilling f/7088' to 9996'. Pressure test BOPE per MMS specifications on 1/2/98. RIH w/114 jts 5" 19.5 G-105 D.P. to 4797' and continue to shoe @ 6903'. RIH to 9881' and W&R to 9996'. (Calibrated Baker depth sensor) Drill f/9996' to 10260.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25. Geochem Sample:

DATE 12-23-97
AFE No. 5188
DHC 2,358,450
COMPL 2,067,000
TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 2,7[illegible] DWC 30,900
TMC 34,600 TWC 567,700

PROP. DAYS 43
PROP. F 7,500'
ACT. DAYS 20
DEPTH 6832'
PROGRESS

OBJECTIVE FORMATION LOWER REGRETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P0216-528 ST CO./ST. OFFSHORE, CA API NO. 004-551-205-02-01
RIG TOC-10 LAST CSG 9 5/8' SET @ 8841'
LAST BOP TEST/2-19-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS WAIT ON CEMENT (RIG MAINTENANCE).

TIME 0900	HRS	TR CODE	OPERATIONS SUMMARY
0130	1 1/2		POH WITH UNDERREAMER. WET PIPE.
0300	1 1/2		BREAK DOWN AND LOAD OUT UNDERREAMING ASSEMBLY. FOUND UNDERREAMER PACKED WITH METAL SHAVINGS.
0430	1 1/2		CLEAN RIG FLOOR. MEASURE 15 JTS 2 7/8" TBG.
1100	6 1/2		RIH WITH MULE SHOE ON BOTTOM OF 15 JTS 2 7/8" TBG AND 5" DRILL PIPE TO 6984'.
1330	2 1/2		CIRCULATE A 5 SK SAWDUST SWEEP. REDUCE VISCOSITY F/76 T/46 SEC/QT. PRETREAT MUD WITH BCARB. CIRCULATE AND CONDITION MUD.
1500	1 1/2		RIG UP CEMENTERS. TEST CEMENTING LINE TO 2500 PSI. HELD A PRIOR SAFETY MEETING. EQUALIZED 105 CU.FT. (106 SX) OF 17.2 PPG "G" SLURRY CONTAINING 32 GPM D-314, 7 GPM R-21L AND 3 GPM FP6L FROM 6984' TO 6833' (THEORETICAL TOP OF CEMENT). CIP @ 14:50 HRS, 12-22-97.
1530	1/2		PULLED TBG TAIL TO 6051'.
1600	1/2		REVERSE TBG AND D.P. CLEAN.
1900	3		POH LAYING DOWN 2 7/8" TBG.
2400	5		WAIT ON CEMENT.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.4				
SIZE			TYPE	P29	P29	FV	46				
MAKE			LINER	6	6	PV/YP	8/34				
TYPE			STROKE	9	9	GELS	30/52				
SER NO.			PRESS			WL	20				
JETS			SPM			HTHPWL	0				
IN			GPM			PH	8.7				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	0				
HRS			NOZ VEL			CA	100				
FPH			BTMS UP	59		CL	15000				
WOB			ECD			HGS	7.9				
RPM			BIT HHP/IN²			LGS	35.5	TOTAL			
T			JIF			MBT	15	DP CONNECTION:			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) 56/43 FLUID TYPE SEAWATER MUD VISUAL SHEEN YES (NO)

COPY TO REGION

WEEKLY ACTIVITY REPORT
Period: 12/22/97 to 12/28/97

Week No. 03

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 7088'
14. Mud Weight: 9.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue milling window f/6966' to 6978'. Under-reamed open hole to 15" f/6928' to 6978'. RIH w/mule shoe on btm of 15 jts 2 7/8" tbg and 5" D.P. to 6984'. Circulate & pretreat mud. RU cementers (for kick off plug) and equalized 103 ft3 (106 sks) of 17.2 ppg, Class "G" slurry w/32 gph D-316, 7 gph R-21L and 3 gph FP-6L f/6984' to 6833' CIP @ 1450 hrs. 12/22/97. POOH and wait on cement. Tag cement stringers f/6571' to 6660', clean out f/6660' to 6978' (no kick off plug). RIH w/2 7/8" tbg and DP to 6950' - tbg plugged - attempt to unplug was no good. POOH. Tbg plugged w/metal shavings. LD & CO tbg. RU BJ and pressure test lines to 2500 psi. BJ M&P 106 sks (103 ft^3) Class "G" w/30 ghs CD-31L, 7 ghs R-21L, 2 ghs defoamer. CIP @ 1815 hrs (for kick off plug). RIH w/bit & tag hard cement @ 6800'. CO cmt f/6800' to 6928' & circ. **NOTE: Torch obtained verbal approval 12/26/97 from Ralph Vasquez w/MMS to continue operations w/3000 psi W.H. until 7" csg PT.** RIH and tag TOC @ 6928'. CO cmt f/6928' to 6930'. Slide f/6930' to 6988'. Perform LOT - 9.6 ppg/1720 psi. Drill f/6988' to 7088'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:

23. Paleo Samples:

DATE 12-22-97 | TORCH OPERATING COMPANY | PROP. D 43
AFE No. 5188 | DAILY DRILLING REPORT | P. 14,500'
DHC 2,358,450 | DMC 1,500 | DWC 33,700 | ACT. DAYS 19
COMPL 2,067,000 | TMC 31,900 | TWC 536,700 | DEPTH 7139'
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P0216 · 5-28 ST CO./ST. OFFSHORE, CA API NO. 04-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-17-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS POH WITH UNDERREAMER.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0430	4 1/2		CONTINUE MILLING WINDOW IN 9 5/8" CSG WITH SECTION MILL NO. 2 F/6966' T/6978' (BOTTOM OF WINDOW).
0700	2 1/2		PUMP HI-VIS PILL. CIRCULATE HOLE CLEAN.
0800	1		PUMP DRY JOB.
1200	4		POH WITH SECTION MILL.
1300	1		SERVICE RIG.
1600	3		RIH WITH 7 1/4" X 15" UNDERREAMER TO TOP OF WINDOW @ 6928'.
1900	3		BREAK CIRCULATION AND DRILL PIPE PLUGGED. WORKED PIPE UNABLE TO CLEAR OBSTRUCTION. ATTEMPTED TO POH UNABLE TO RETRACT ARMS ON UNDERREAMER.
2100	2		UNDERREAMED (DRY REAMED) OPEN HOLE SECTION TO 15" T/6928' T/6978'. WORKED UNDERREAMER AGAINST 9 5/8" CSG STUB @ 6978'.
2400	3		CLOSED ARMS ON UNDERREAMER AND POH (WET) @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.6	UNDERREAMER	7 1/4"	2.25	7.00
SIZE			TYPE	P29	P29	FV	77	SHOCK SUB	6 1/2"	3.125	13.30
MAKE			LINER	6	6	PV/YP	15/67	BIT SUB	6 1/2"	2.125	2.42
TYPE			STROKE	9	9	GELS	45/69	6- DRILL COLLARS	6 1/2"	2.37	182.01
SER NO.			PRESS			WL	17	34- HWDP	5"	2.32	1043.84
JETS			SPM	DRILL PIPE		HTHPWL	—	25, 25.6" G105 DP	5"	3.75	781.29
IN			GPM	PLUGGED		PH	9	159-17.6" " "	5"	4.27	4985.57
OUT			DC AV			PF	.35	UP			- 10.00
FEET			DP AV			PM	0				
HRS			NOZ VEL			CA	60				
FPH			BTMS UP			CL	111500				
WOB			ECD			HGS	86.7				
RPM			BIT HHP/IN²			LGS	40.6	TOTAL			6978.80
T			JIF			MBT	18	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		DIL SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	60°	FLAT	0-5	470	1240			

DISCHARGE MONITORING: EST. VOL. (BBLS) 0/375 FLUID TYPE SEAWATER MUD VISUAL SHEEN YES (NO)

COPY TO REGION

WEEKLY ACTIVITY REPORT
Period: 12/15/97 to 12/21/97

Week No. 02

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 6966'
14. Mud Weight: 10.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Recovered total of 77 jts. of tbg while fishing (top of fish @ 7473'). RIH w/bit & scraper. Tag top of fish @ 7473' and pull bit to 7470'. Circulate and condition mud. MU 9 5/8" x 47# mechanical set drillable bridge plug on 15 jts of 2 7/8" tbg. **Set BP @ 7470' and test @ 1500 psi for 5 minutes - o.k. RU and test cement line - o.k. Mixed 90 ft^3 (78 sks) of Class "G" w/20 ghs CP-311, 4 ghs R-211 and 2 ghs FP-6 f/7470' to 7251'. CIP @ 2129 hrs 12/15/97.** POOH laying down 2 7/8" tbg tail. Prep to mill window. Set test plug (12") and test BOPE - 250L/3000H on 12/19/97. RIH w/section mill on 5" D.P. tag top of cement @ 7139'. **Mill window in 9 5/8" csg. F/6928' to 6934' on 12/19/97 @ 2400 hrs.** Continued milling to 6966', pumping Hi-Vis Sweep every 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-21-97
AFE No. 5188
DHC 2,358,450
COMPL 2,067,000
TOTAL 4,425,450

DMC 1,46 TMC 30,600
DWC 32,800 TWC 503,000

PROP. DAYS 43
PT 7,500'
ACT. DAYS 18
DEPTH 7139'
PROGRESS

COPY TO REGION

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P0216-528 37 CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-19-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS MILLING WINDOW IN 9 5/8" CSG.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0930	9 1/2		CONTINUE TO MILL WINDOW IN 9 5/8" CSG. F/6934' T/6962', MILL QUIT.
1200	2 1/2		CIRCULATE HI-VIS SWEEPER.
1900	7		POH WITH SECTION MILL ASSEMBLY.
1930	1/2		MAKE UP SECTION MILL NO. 2.
2200	2 1/2		RIH TO 6962'.
2400	2		CONTINUE MILLING WINDOW IN 9 5/8" CSG F/6962' T/6966', PUMP HI-VIS SWEEP EVERY 50 MIN @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.6	SECTION MILL	7 1/2	2.25	6.65
SIZE			TYPE	P29	P29	FV	72	XO	7 1/2	2.25	3.07
MAKE			LINER	6	6	PV/YP	13/61	SHOCK SUB	6 1/2	2.125	13.30
TYPE			STROKE	9	9	GELS	42/64	BIT SUB	6 1/2	2.125	2.42
SER NO.			PRESS	1800		WL	17	6- DRILL COLLARS	6 1/2	2.37	182.01
JETS			SPM	64		HTHPWL	—	34- HWDP	5	2.32	1013.84
IN			GPM	402		PH	8.8	25-25.6# G105 DP	5	3.75	781.29
OUT			DC AV	704		PF	.3	159-19.6# G105 DP	5	4.27	4985.57
FEET			DP AV	196		PM	0	UP			- 22.00
HRS			NOZ VEL			CA	140				
FPH			BTMS UP	35		CL	11000				
WOB			ECD			HGS	86.7				
RPM			BIT HHP/IN²			LGS	40.9	TOTAL			6966.20
T			JIF			MBT	18	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT 215 SO WT 115			
G						CAKE	2	TORQUE 12.5 FT/LBS. FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES	D/L SEV.
					NS EW	
					NS EW	
					NS EW	
					NS EW	
					NS EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
	59°	CHOP	S-10	970	1240			

DISCHARGE MONITORING: EST. VOL. (BBLS) 62/875 FLUID TYPE BARITE + GEL VISUAL SHEEN YES (NO)

COPY TO REGION

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-20-97 | AFE No. 5188 | DHC 2,358,450 | COMPL 2,067,000 | TOTAL 4,425,450
DMC 4,800 | TMC 29,200 | DWC 27,200 | TWC 470,200
PROP. DAYS 43 | PTD 1,500 | ACT. DAYS 17 | DEPTH 7139' | PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-PO216-S28-ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82.01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-19-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS MILL WINDOW IN 9 5/8" CSG.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0530	5 1/2		CONT. TESTING BOPE. TEST UPPER AND LOWER PIPE RAMS, BLIND RAMS, ANNULAR, CHOKE AND KILL LINES, CHOKE MANIFOLD, STANDPIPE AND STANDPIPE MANIFOLD, UPPER KELLY COCK AND INSIDE B.O.P. ALL EQUIPT TESTED TO 250 PSI LOW/ 3000 PSI HIGH FOR 5/5 MIN USING FILTERED SEAWATER. REMOVE TEST PLUG.
1400	8 1/2		MAKE UP 7 1/2" SECTION MILL AND SHOCK SUB ON 6-6 1/2" DRILL COLLARS AND 34 JTS. HWDP. RIH ON 5" D.P. TAGGED TOP OF CEMENT @ 7139'.
1600	2		ATTEMPTED BUT UNABLE TO LOCATE CSG COLLAR @ 6940'.
2400	8		MILL WINDOW IN 9 5/8" CSG FROM 6928' TO 6934' @ 24:00.

REMARKS: HOLE PACKED OFF. LOST 150 BBLS OF MUD BEFORE CIRCULATION WAS REGAINED.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.5	SECTION MILL	7 1/2"	2.25	6.65
SIZE			TYPE	P29	P29	FV	74	XO	7 1/2"	2.25	3.07
MAKE			LINER	6	6	PV/YP	22/56	SHOCK SUB	6 1/2"	2.125	13.30
TYPE			STROKE	9	9	GELS	28/53	BIT SUB	6 1/2"	2.125	2.43
SER NO.			PRESS	1800		WL	16.5	6- D.C.S	6 1/2"	2.375	182.01
JETS			SPM	64		HTHPWL		34- JTS HWDP	5"	2.52	1013.84
IN			GPM	402		PH	9	184- JTS 5" D.P.	5"	4.27	5766.86
OUT			DC AV	298		PF	.25	UP			-54.00
FEET			DP AV	196		PM					
HRS			NOZ VEL			CA	60				
FPH			BTMS UP	56		CL	11500				
WOB			ECD			HGS	9.4				
RPM			BIT HHP/IN²			LGS	2.3	TOTAL			6934.16
T			JIF			MBT	18	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT 215 SO WT 115			
G						CAKE	2	TORQUE FTLBS or AMPS 17.3			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	56°	FLAT	0-5	770	1546			

DISCHARGE MONITORING: EST. VOL. (BBLS) 0/513 FLUID TYPE BARITE - GEL VISUAL SHEEN YES (NO)

DATE 12-19-97 | AFE No. 5188 | DHC 2,358,450 | COMPL 2,067,000 | TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY RILLING REPORT

DMC 504 | TMC 24,406 | DWC 28,700 | TWC 443,000

PROP. DAYS 43 | P 4,500 | ACT. DAYS 16 | DEPTH 7251' | PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO RECEIVE

WELL NAME OCS-P0216-S28-ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82.01

RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'

LAST BOP TEST 12-19-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF

PRESENT OPERATIONS TEST BOPE

TIME 0900	HRS	TR CODE	OPERATIONS SUMMARY
			CONT. RIGGING UP TOP DRIVE UNIT. MODIFIED THE DERRICKMAN'S WORKING PLATFORM BY HINGEING PLATFORM 18" FROM THE END, (ALLOWS PLATFORM TO BE FOLDED BACK OUT OF THE WAY). EXTENDED STANDPIPE 10'.
0700	7		RE-ATTACH KELLY HOSE INSTALLING SAFETY CLAMPS.
1100	4		ATTACH LINKS AND ELEVATORS TO TOP DRIVE AND MAKE ADJUSTMENTS. INSTALL AND CONNECT 500 GAL FUEL TANK.
1930	8 1/2		TRIP TOP DRIVE UP AND DOWN DERRICK. CHECK FOR CLEARANCE. REMOVE RUBBER ARRESTING MOUNT FROM SWIVEL. HOOKUP HOSES IN DERRICK. TOP DRIVE UNIT IS OPERATIONAL AND INSTALLATION IS COMPLETE @ 19:30 HRS.
2030	1		SET 12" TEST PLUG IN WELLHEAD
2400	3 1/2		PRESSURE TEST PIPE RAMS, BLIND RAMS AND ALL SURFACE EQUIPT TO 250 PSI LOW / 3000 PSI HIGH USING FILTERED SEAWATER AND RIG PUMP @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.6				
SIZE			TYPE			FV	68				
MAKE			LINER			PV/YP	26/66				
TYPE			STROKE			GELS	34/60				
SER NO.			PRESS			WL	18				
JETS			SPM			HTHPWL	—				
IN			GPM			PH	9				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	—				
HRS			NOZ VEL			CA	60				
FPH			BTMS UP			CL	14500				
WOB			ECD			HGS	—				
RPM			BIT HHP/IN²			LGS	39.4	TOTAL			
T			JIF			MBT	16	DP CONNECTION: 4½" I.F.			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
RAIN	64°	CHOP	10-20	970	1546	—		

DISCHARGE MONITORING: EST. VOL. (BBLS) 0 / 3/5 FLUID TYPE VISUAL SHEEN YES (NO)

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-18-97
AFE No. 5188
DHC 2,358,450 DMC 2,000 DWC 22,300
COMPL 2,067,000 TMC 23,900 TWC 414,300
TOTAL 4,425,450

PROP. DAYS 43
PTD 7500
ACT. DAYS 15
DEPTH 7251'
PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P0216 - S28 ST CO./ST. OFFSHORE, CA API NO. 004-331-2055-01
RIG TOC-10 LAST CSG SET @ 8841'
LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN Hart
PRESENT OPERATIONS EXTENDING STAND PIPE 10'.

COPY TO REGION

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0100	2		CONT. INSTALLING TOP DRIVE CONTROL LINES.
0400	2		POSITION TOP DRIVE ON RIG FLOOR. MAKE UP SAME TO KELLY SWIVEL. INSTALL TORQUE BAR.
0700	3		INSTALL CONTROL LINES TO TOP DRIVE.
0800	1		CHANGE BOTTOM PIPE RAMS TO 5".
1030	2½		INSTALL OVERRIDE SWITCH FOR PIPE GRABBER. INSTALL KELLY HOSE.
1900	8½		INSTALL TURNBUCKLES TO TRACK. INSTALL CONTROL LINE TARP.
2300	4		REPLACE DRILLING LINE.
2400	1		MODIFY STAND PIPE AND DERRICKMAN'S STABBING PLATFORM @ 24:00 HRS

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.5				
SIZE			TYPE			FV	62				
MAKE			LINER			PV/YP	28/57				
TYPE			STROKE			GELS	36/57				
SER NO.			PRESS			WL	18.5				
JETS			SPM			HTHPWL	—				
IN			GPM			PH	9				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	—				
HRS			NOZ VEL			CA	60				
FPH			BTMS UP			CL	14500				
WOB			ECD			HGS		TOTAL			
RPM			BIT HHP/IN²			LGS	28				
T			JIF			MBT	16	DP CONNECTION: 4½" I.F.			
B						% OIL	—	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	59°	FLAT	0-5	970	1546	300		

DISCHARGE MONITORING: EST. VOL. (BBLS) 0/313 FLUID TYPE BARITE + GEL VISUAL SHEEN YES NO

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-17-97
AFE No. 5188
DHC 2,358,450
COMPL 2,067,000
TOTAL 4,425,450

DMC 40 DWC 31,200
TMC 21,980 TWC 392,000

PROP. DAYS 43
14,500
ACT. DAYS 14
DEPTH 7251'
PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P0216-528 ST CO./ST. OFFSHORE, CA API NO. 004-331-205-88-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN HOF

PRESENT OPERATIONS INSTALL TOP DRIVE.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0100	1		POH TO 4768'
0300	2		PICK UP KELLY SWIVEL. BREAK OUT UPPER KELLY COCK AND KELLY SPINNER. LAY DOWN SWIVEL.
0530	2 1/2		POH LAYING DOWN 2 7/8" TBG. TAIL. SECURE WELL.
0700	1 1/2		CLEAR DRILL FLOOR FOR TOP DRIVE INSTALLATION.
2400	17		INSTALL TOP DRIVE T-BAR AND TRACK. INSTALL DRILLERS CONSOLE. MOVE POWER PACK TO PIPE DECK. INSTALL CONTROL LINES FROM CONSOLE TO POWER PACK @ 24:00.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.5				
SIZE			TYPE			FV	40				
MAKE			LINER			PV/YP	14/18				
TYPE			STROKE			GELS	5/16				
SER NO.			PRESS			WL	25				
JETS			SPM			HTHPWL	—				
IN			GPM			PH	9				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	0				
HRS			NOZ VEL			CA	ø0				
FPH			BTMS UP			CL	15K				
WOB			ECD			HGS	—				
RPM			BIT HHP/IN²			LGS	27.7	TOTAL			
T			JIF			MBT	13	DP CONNECTION:			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	61°	FLAT	0-5	970	1546	300		

DISCHARGE MONITORING: EST. VOL. (BBLS) 0 / 913 FLUID TYPE BARITE + GEL VISUAL SHEEN YES (NO)

COPY TO REGION

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-16-97 | AFE No. 5188 | DHC 2,558,450 | COMPL 2,067,000 | TOTAL 4,625,450
DMC 1,925 | TMC 21,500 | DWC 24,200 | TWC 357,500
PROP. DAYS 43 | F 4,500 | ACT. DAYS 13 | DEPTH | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO | WELL TYPE PRODUCER | PROP.VS/ZONE

WELL NAME OCS-P0216-S28-ST | CO./ST. OFFSHORE, CA | API NO. 004-331-205-88-01
RIG TBC-10 | LAST CSG 9 5/8" | SET @ 8841'
LAST BOP TEST 12-8-97 | CSG SEAT TEST (EMW) | ROT HRS | CO. MAN HOF

COPY TO REGION

PRESENT OPERATIONS

TIME 0000	HRS	TR CODE	OPERATIONS SUMMARY
0330	3½		RIH WITH 8½" BIT OH BOTTOM OF 9⅝" CSG SCRAPER. TAG TOP OF FISH @ 7473'. PULL BIT TO 7470'.
0600	2½		CIRCULATE AND CONDITION MUD @ 7470'.
0800	2		PUMP DRY JOB. POH WITH BIT AND SCRAPER.
0930	1½		REPAIR DRILL LINE SPOOLING GUIDE.
1100	1½		CONTINUE POH.
1900	8		MAKE UP 9⅝" x 47# MECHANICAL SET DRILLABLE BRIDGE PLUG ON 15 STDS OF 2⅞" TBG. RIH (SLOW) WITH 5" D.P. SET B.P. @ 7470'. TEST B.P. AND 9⅝" CSG TO 1500 PSI FOR 5 MIN (OK).
2200	3		R/U CEMENTERS. TEST CEMENTING LINE TO 2500 PSI. HELD A PRE-JOB SAFETY MEETING. WITH TBG TAIL AT 7464' MIXED AND EQUALIZED 90 CU.FT. (78 SX) OF "G" CEMENT WITH 20 GHS CD-31, 4 GHS R-21 AND 2 GHS FP-6 FROM 7470 TO 7251' (THEORETICAL TOC). CEMENT IN PLACE @ 21:29 HRS, 12-15-97.
2330	1½		PULLED TBG TAIL TO 7075' AND REVERSE CLEAN.
2400	½		POH @ 24:00 HRS.

REMARKS: X- M.M.S. APPROVED.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.5				
SIZE			TYPE			FV	40				
MAKE			LINER			PV/YP	14/18				
TYPE			STROKE			GELS	5/15				
SER NO.			PRESS			WL	25				
JETS			SPM			HTHPWL	—				
IN			GPM			PH	9				
OUT			DC AV			PF	3				
FEET			DP AV			PM	—				
HRS			NOZ VEL			CA	80				
FPH			BTMS UP			CL	15000				
WOB			ECD			HGS	—				
RPM			BIT HHP/IN²			LGS	27.7	TOTAL			
T			JIF			MBT	13	DP CONNECTION:			
B						% OIL	—	ST WT PU WT SO WT			
G						CAKE	3	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	60°	FLAT	0-5	970	1646			

DISCHARGE MONITORING: EST. VOL. (BBLS) 170/313 FLUID TYPE BARITE & GEL VISUAL SHEEN YES (NO)

COPY TO REGION

DATE 12-15-97 | AFE No. 5188 | DHC 1,358,450 | COMPL 2,067,000 | TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 1300 | TMC 19,600 | DWC 23,300 | TWC 333,300

PROP. DAYS 45 | PTD 14,500' | ACT. DAYS 12 | DEPTH 7475 | PROGRESS

OBJECTIVE FORMATION LOWER REPETTO | WELL TYPE PRODUCER | PROP.VS/ZONE

WELL NAME OCS-P0216-528-ST | CO/ST. OFFSHORE, CA | API NO. 004-331-205-82-01

RIG TOC-10 | LAST CSG 9 5/8" | SET @ 8841'

LAST BOP TEST 12-8-97 | CSG SEAT TEST (EMW) | ROT HRS | CO. MAN Hoff

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0230	2 1/2		POH. RECOVERED 57 JTS (1794.21') OF TBG.
0330	1		SERVICE OVERSHOT. CHECK SERVICE BREAKS ON FISHING TOOL ASSEMBLY.
0800	4 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 6844.
1000	2		ENGAGED FISH AND JAR ON SAME. NO MOVEMENT OF FISH INDICATED.
1030	1/2		MAKE BLIND BACK OFF ON TBG.
1100	4 1/2		DRY JOB.
1430	3 1/2		POH. RECOVERED 13 JTS (409.65') OF TBG.
1530	1		SERVICE OVERSHOT. CHECK CONNECTIONS ON FISHING TOOL ASSEMBLY.
1800	2 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 7253'.
1900	1		ENGAGED FISH AND JAR ON SAME. NO UPWARD MOVEMENT NOTICED.
1930	1/2		MAKE BLIND BACK OFF ON TBG.
2000	1/2		DRY JOB.
2230	2 1/2		POH. RECOVERED 7 JTS (220.16') OF TBG, (TOP OF FISH @ 7473').
2400	1 1/2		BREAK DOWN AND LOAD OUT FISHING TOOLS @ 24:00 HRS.

REMARKS: LEFT IN WELL: 18 JTS. 2 7/8" TBG, 2 7/8 X 4 PUP JT., TRAVEL JT., 1-JT 2 7/8" TBG, XO SLEEVE, 9 5/8" RDH PKR, 2 7/8" X 4' PUP JT, 9 JTS 2 7/8" TBG, XO SLEEVE, 1-JT TBG, XN NIPPLE, 1-JT 2 7/8" TBG, LOCATOR SUB W/ SEAL ASSEMBLY. (9861.92').

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	10.1				
SIZE			TYPE			FV	44				
MAKE			LINER			PV/YP	12/14				
TYPE			STROKE			GELS	4/11				
SER NO.			PRESS			WL	25				
JETS			SPM			HTHPWL	0				
IN			GPM			PH	9.8				
OUT			DC AV			PF	.3				
FEET			DP AV			PM	.5				
HRS			NOZ VEL			CA	400				
FPH			BTMS UP			CL	14000				
WOB			ECD			HGS	0				
RPM			BIT HHP/IN²			LGS	28	TOTAL			
T			JIF			MBT	15	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT SO WT			
G						CAKE	3	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
RAIN	60°	FLAT	5	1048	1546			

DISCHARGE MONITORING: EST. VOL. (BBLS) 143 | FLUID TYPE BARITE + GEL | VISUAL SHEEN YES/NO

12-15-97 01:28 P.01

DATE 12-14-97 | AFE No. 5188 | DHC 2,358,450 | COMPL 2,067,000 | TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 2,200 | TMC 18,300 | DWC 40,000 | TWC 310,000

PROP. DAYS 43 | PT. 14,500' | ACT. DAYS 11 | DEPTH | PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS. P0216-528 ST CO./ST. OFFSHORE, CA API NO. 004-331-205-88-01

RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'

LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0230	2 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 2879'.
0300	1/2		ENGAGED FISH AND TIGHTEN TBG. MADE A BLIND BACK OFF ON TBG.
0600	3		POH. RECOVERED 65 JTS (2046.09') OF 2 7/8" TBG.
0700	1		SERVICE OVERSHOT. CHECK CONNECTION ON FISHING TOOL ASSEMBLY.
1130	4 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 4925'.
1430	3		ENGAGED FISH AND JAR ON SAME. NO MOVEMENT OF PACKER INDICATED. MAKE BLIND BACK OFF.
1500	1/2		MIX AND PUMP DRY JOB.
1900	4		POH. RECOVERED 4 JTS. (125.00') OF TBG.
2130	2 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY. FOUND TOP OF FISH @ 5050'.
2230	1		ENGAGED FISH AND TIGHTEN TBG STRING. BACK TBG OFF.
2300	1/2		DRY JOB.
2400	1		POH @ 24:00 HRS.

REMARKS: WELL BACK FLOWING UP TBG @ THE RATE OF 12 BBLS/HR.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.1	OVERSHOT	5 3/4	2.74	5.82
SIZE			TYPE	P29	P29	FV	45	XO	5 3/4	2.25	1.41
MAKE			LINER	6	6	PV/YP	14/16	BUMPER SUB	5"	2.25	4.65
TYPE			STROKE	9	9	GELS	5/14	XO	5"	2.25	2.54
SER NO.			PRESS			WL	0	JARS	5"	2.25	11.57
JETS			SPM			HTHPWL	0	6 JTS HEVI-WATE	5"	3.06	180.04
IN			GPM			PH	9.8	ACCELLERATOR	5"	2.25	12.93
OUT			DC AV			PF	.3	25 JTS @ 105 DP	5	3.75	781.29
FEET			DP AV			PM	.5	5' PUP JT.	5	3.75	15.00
HRS			NOZ VEL			CA	440	130 SINGLES	5	3.75	4080.06
FPH			BTMS UP			CL	13400	UP			-32.00
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS	28.4	TOTAL			5050.38
T			JIF			MBT	15	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	0	ST WT PU WT 136 SO WT 90			
G						CAKE	0	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CALM	57°	FLAT	5	1048	746			

DISCHARGE MONITORING: EST. VOL. (BBLS) 36 FLUID TYPE BARITE + GEL VISUAL SHEEN YES (NO)

COPY TO REGION

DATE 12-13-97 | TORCH [illegible]RATING COMPANY | PROP. DAY 43
AFE No. 5188 | DAILY [illegible]ILLING REPORT | PTL 4,500'
DHC 2,358,450 | DMC 2,300 | DWC 86,700 | ACT. DAYS 10
COMPL 2,067,000 | TMC 16,100 | TWC 270,000 | DEPTH
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REALITO | WELL TYPE PRODUCER | PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P0216-SZB-S7 | CO/ST. OFFSHORE, CA | API NO. 004.331.205.82.01
RIG TOC-10 | LAST CSG 9 5/8" | SET @ 8841'
LAST BOP TEST 12-8-97 | CSG SEAT TEST (EMW) | ROT HRS | CO. MAN HOFF
PRESENT OPERATIONS FISHING TBG

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0030	1/2		MAKE A BLIND BACK OFF ON TBG @ 2091'.
0230	2		POH. RECOVERED 6 JTS (188.90') OF TBG.
0400	1 1/2		RIH WITH OVERSHOT/FISHING ASSEMBLY TO 2262', (TOF @ 2280').
0730	3 1/2		RIG UP DIALOG. MAKE UP 1 3/8" X 32' SPUD BAR. STRIP SPUD BAR AND PACK OFF THRU TOP SINGLE D.P.
0830	1		ENGAGED FISH WITH OVERSHOT. PULLED UP TO 120,000# AND TBG SEPARATED. LAY DOWN DIALOG SPUD BAR.
1200	3 1/2		POH. RECOVERED 12 JTS (379.13') OF TBG.
1500	3		RIH WITH FISHING ASSEMBLY TO 2644', (TOP OF FISH @ 2659'). RIG UP DIALOG. ENGAGED TBG AND TIGHTEN TBG. PULL 10,000# OVER AND SET SLIPS.
2000	5		RIH WITH 1 3/8" SPUD BAR ON WIRELINE. STOPPED @ 2670' (W.L.M.). WORKED SPUD BAR THRU SCALE DEPOSIT TO 3889'. PROGRESS DECREASED TO APPROXIMATELY 40'/HR. DISCUSSED SITUATION WITH TOC ENGINEERING (WIRELINE OPERATOR IS INEXPERIENCED WITH STRING SHOTS). IT WAS DECIDED TO CONTINUE WITH TBG BACK OFF. RDMO DIALOG.
2100	1		BACK OFF TBG @ 2659'.
2300	2		POH. RECOVERED 7 JTS (220.57') OF TBG.
2400	1		CHANGE OUT GRAPPLE IN OVERSHOT. MAKE UP FISHING ASSEMBLY @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	10.7	OVERSHOT	5 3/4"	2.25	5.82
SIZE			TYPE	P29	P29	FV	45	XO	5 3/4	2.25	1.41
MAKE			LINER	6	6	PV/YP	16/20	BUMPER SUB	5"	2.25	4.65
TYPE			STROKE	9	9	GELS	8/24	XO	5"	2.25	2.54
SER NO.			PRESS			WL	24	JARS	5"	2.25	11.37
JETS			SPM			HTHPWL	—	6 JTS HEVI-WATE	5"	3.06	186.04
IN			GPM			PH	7	ACCELERATOR	5"	2.25	12.23
OUT			DC AV			PF	—	25 JTS G-105 D.P.	5"	3.75	781.29
FEET			DP AV			PM	—	53 SINGLES D.P.	5"	3.75	1670.91
HRS			NOZ VEL			CA	800				
FPH			BTMS UP			CL	7800				
WOB			ECD			HGS	—				
RPM			BIT HHP/IN²			LGS	26	TOTAL			2671.16
T			JIF			MBT	15	DP CONNECTION: 4 1/2" I.F.			
B						% OIL	—	ST WT PU WT 89 SO WT 72			
G						CAKE	3	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
EXAM	58	FLAT	10	1048	826	0		

DISCHARGE MONITORING: EST. VOL. (BBLS) | FLUID TYPE BARITE + GEL | VISUAL SHEEN YES (NO)

DATE 12-12-97
AFE No. 5188
DHC 2,358,450
COMPL 2,067,000
TOTAL 4,425,450

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 600 DWC 28,600
TMC 13,800 TWC 243,300

PROP. DAYS 43
PTD 5007
ACT. DAYS 9
DEPTH
PROGRESS

COPY TO REGION

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-PO216-S-28 ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 7 5/8" SET @ 8541'
LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN ROFF

PRESENT OPERATIONS FISHING TBG.

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0430	4 1/2		RIH WITH 5 3/4" OVERSHOT WITH 7 3/4" GUIDE AND 2 7/8" GRAPPLE, BUMPER SUB AND JARS ON BOTTOM OF 6 JTS OF 5" HEVI-WATE AND 5" D.P. TAGGED TOP OF FISH @ 1523' (MD).
0730	3 1/2		ENGAGED FISH, MOVED FISH UPHOLE 45' AND STARTED JARRING. JARRED FISH UPHOLE 5' @ 30,000# OVER. INCREASED JARRING TO 50,000# OVER WITH NO FURTHER MOVEMENT NOTICED.
0830	1		PERFORMED A BLIND BACK-OFF ON TBG STRING.
1100	2 1/2		POH. RECOVERED 5 JTS. OF TBG AND L-BROKEN (PARTED) JT, 188.18' TBG RECOVERED.
1400	3		RIH WITH OVERSHOT/FISHING ASSEMBLY, TAGGED TOP OF FISH @ 1711'.
1500	1		ENGAGED FISH AND JAR ON SAME WITH NO MOVEMENT NOTICED. TIGHTEN TBG STRING. PERFORMED A BLIND BACK-OFF ON TBG STRING.
1730	2 1/2		POH. RECOVERED 12 JTS (379.11') OF TBG.
2200	4 1/2		CHANGE UPPER PIPE RAMS TO 2 7/8" X 5 1/2" VARIABLE. TEST PIPE RAMS TO 250 PSI LOW, 3000 PSI HIGH FOR 5/5 MIN.
2330			RIH WITH OVERSHOT/FISHING ASSEMBLY, (SPIDER ALL D.P. CONNECTIONS). TAGGED TOP OF FISH @ 2091'.
2400	1/2		ENGAGED FISH AND RE TIGHTEN TBG STRING @ 2400 HR.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.	1	2	MW	11.6	OVERSHOT	5 3/4"	2.25	5.82
SIZE			TYPE	P-79	P-79	FV	44	X-OVER	5 3/4"	2.25	1.41
MAKE			LINER	6	6	PV/YP	12/20	BUMPER SUB	5"	2.25	4.65
TYPE			STROKE	9	9	GELS	6/22	X-OVER	5"	2.25	2.54
SER NO.			PRESS			WL	20.8	JARS	5"	2.25	11.57
JETS			SPM			HTHPWL		6-JTS. HEVI-WATE	5"	3 3/4"	180.04
IN			GPM			PH	7	ACCELLERATOR	5"	2 1/4"	12.93
OUT			DC AV			PF		2.5 JTS. G-105 P.P.	5"	3 3/4"	781.29
FEET			DP AV			PM		35 SINGLES 5"	5"	3 3/4"	1103.65
HRS			NOZ VEL.			CA	800				
FPH			BTMS UP			CL	5200				
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS	29.7	TOTAL			2103.90
T			JIF			MST	17.5	DP CONNECTION: 4 1/2" I.F.			
B						% OIL		ST WT PU WT 70 SO WT 68			
G						CAKE	3	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
CHGE	61°	10-15	SE	1048	826	0		

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE BARITE + GEL VISUAL SHEEN YES (NO)

COPY TO REGION

DATE 12-11-97 | TORCH OPERATING COMPANY | PROP. D/ 43
AFE No. 5188 | DAILY DRILLING REPORT | P 14,600'
DHC 2,358,450 | DMC 900 | DWC 24,000 | ACT. DAYS 8
COMPL 2,067,000 | TMC 15,200 | TWC 214,100 | DEPTH
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO | WELL TYPE PRODUCER | PROP.VS/ZONE

WELL NAME OCS-P0216-5-28 | CO./ST. OFFSHORE, CA | API NO. 004-331-205-82-01
RIG 70C-10 | LAST CSG 9 7/8" | SET @ 8841'
LAST BOP TEST 12-8-97 | CSG SEAT TEST (EMW) | ROT HRS | CO. MAN
PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0730	7 1/2		POH LAYING DOWN 2 3/8" SHORT STRING.
0800	1/2		MAKE UP TBG SPEAR WITH 2.438" GRAPPLE ON 2 JTS. OF 2 3/8" N80 TBG.
1330	5 1/2		BACK OUT HANGER LOCK SCREWS. REPLACED ALL HANGER HOLD DOWNS DUE TO RUST.
1900	5 1/2		ENGAGED LONG STRING WITH TBG SPEAR. RELEASED PACKER @ 8101'. WORKED PKR UPHOLE TO 8056'. ATTEMPTED TO WORK PKR FREE AND TBG PARTED @ 100,000 #, POH. RECOVERED 2-10' PUP JTS. AND 46 JTS OF TBG. TBG PARTED 3' BELOW COUPLING ON JT. NO 47. ALSO RECOVERED BPV AND INJECTION VALVE IN JT NO 24. TOP OF FISH @ 1506'.
2100	3		RIG UP 5" ROTARY TOOLS AND PIPE SPINNER.
2300	1		MAKE UP SPEAR WITH 4 1/8" GRAPPLE ON LANDING JT. RET. TBG HANGER FROM TBG HEAD
2400	1		MEASURE AND PICK UP OVERSHOT, BUMPER SUB AND JARS @ 24:00 HRS

REMARKS: NOTE: TBG IS SEVERELY SCALED. BOTTOM 3 SINGLES CAME WET.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	12.2				
SIZE			TYPE			FV	44				
MAKE			LINER			PV/YP	20/13				
TYPE			STROKE			GELS	4/15				
SER NO.			PRESS			WL	12.6				
JETS			SPM			HTHPWL					
IN			GPM			PH	8.5				
OUT			DC AV			PF	.05				
FEET			DP AV			PM	.10				
HRS			NOZ VEL			CA	80				
FPH			BTMS UP			CL	680				
WOB			ECD			HGS					
RPM			BIT HHP/IN ^{2}			LGS	4/5	TOTAL			
T			JIF			MBT	20	DP CONNECTION:			
B						% OIL	–	ST WT PU WT SO WT			
G						CAKE	2	TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES	D/L SEV.
					NS EW	
					NS EW	
					NS EW	
					NS EW	
					NS EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

COPY TO REGION

DATE 12-10-97 | **TORCH RATING COMPANY** | PROP. DAY 43
AFE No. 5188 | **DAILY DRILLING REPORT** | PTD 4,500'
DHC 2,358,450 DMC 8,000 DWC 37,600 | ACT. DAYS 7
COMPL 2,067,000 TMC 12,300 TWC 190,700 | DEPTH
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P0216-S-28 ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TDC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0330	3 1/2		RIG UP SLICKLINE EQUIPT ON LONG STRING (2 7/8").
			RETRIEVE TEST PLUG FROM LONG STRING. RDMO SLICKLINE.
1530	1 1/2		BUILD MUD WT TO 12.2 PPG IN ACTIVE PITS.
1700	1 1/2		STAB OUT OF PACKER @ 8101' AND ESTABLISH CIRC.
			WITH RETURNS GOING TO PRODUCTION. CIRCULATE
			DOWN SHORT STRING (2 3/8").
2000	3		WEIGHT UP MUD IN RESERVE PITS TO 12.2 PPG.
2300	3		CIRCULATE AND KILL WELL WITH 12.2 PPG MUD @ 3 BPM.
			OPEN ANNULAR PREVENTER AND CHECK FOR FLOW.
			WELL DEAD.
2400	1		POH LAYING DOWN 2 3/8" SHORT STRING @ 24:00 HRS.

REMARKS: RE-INSTALLED REPAIRED SHAKERS ON MUD PITS.

BIT DATA			PUMP DATA			MUD DATA	
BIT NO.			PUMP NO.			MW	12.2
SIZE			TYPE			FV	45
MAKE			LINER			PV/YP	12/14
TYPE			STROKE			GELS	9/21
SER NO.			PRESS			WL	12.4
JETS			SPM			HTHPWL	
IN			GPM			PH	8.6
OUT			DC AV			PF	.06
FEET			DP AV			PM	.10
HRS			NOZ VEL			CA	40
FPH			BTMS UP			CL	500
WOB			ECD			HGS	
RPM			BIT HHP/IN^2			LGS	27.5
T			JIF			MBT	20
B						% OIL	
G						CAKE	

BHA DESCRIPTION	OD	ID	LENGTH
TOTAL			

DP CONNECTION:
ST WT PU WT SO WT
TORQUE FTLBS or AMPS

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

DATE 12-9-97 | TORCH ERATING COMPANY | PROP. DA 43
AFE No. 5188 | DAI RILLING REPORT | F 4,500'
DHC 2,358,450 | DMC 4300 | DWC 23,300 | ACT. DAYS 6
COMPL 2,067,000 | TMC 4300 | TWC 153,100 | DEPTH
TOTAL 4,425,450 | PROGRESS
OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P-0216-S-28-ST CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST 12-8-97 CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS BUILD KILL WEIGHT MUD

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
1000	10		REPAIR AND REWELD BEARING RETAINER PLATE ON DRAWWORKS DRUM SHAFT. REINSTALL LOW DRUM CLUTCH ASSEMBLY. REINSTALL AND RECONNECT DRILLERS CONSOLE.
1700	7		TEST BOPE AND ALL SURFACE EQUIPT TO 250 PSI LOW FOR 5 MIN, 3000 PSI HIGH FOR 5 MIN.
2000	3		BUILD KILL WEIGHT MUD (12.5 PPG)
2400	4		RIG UP SLICKLINE EQUIPT ON 2 7/8" SHORT STRING. RETRIEVE TEST PLUG AND BPV FROM SHORT STRING @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW	9				
SIZE			TYPE			FV	45				
MAKE			LINER			PV/YP	15/12				
TYPE			STROKE			GELS	3/12				
SER NO.			PRESS			WL	15.4				
JETS			SPM			HTHPWL					
IN			GPM			PH	8.5				
OUT			DC AV			PF	.05				
FEET			DP AV			PM	.10				
HRS			NOZ VEL			CA	40				
FPH			BTMS UP			CL	600				
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS	45	TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE BARITE + GEL VISUAL SHEEN YES NO

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-7-97
AFE No. 5188
DHC 2,358,450
COMPL
TOTAL

DMC — TMC —
DWC 32100 TWC 108200

PROP. DAYS
PTL
ACT. DAYS 4
DEPTH
PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

COPY TO REGION

WELL NAME OCS-P-0216 · S-28 ST CO./ST. OFF-SHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0300	3		SKID RIG NORTH OVER WELL BAY NO. 3. POSITION RIG OVER WELL NO. S-28.
0700	4		RIG UP TO SKID TOP SECTION AND PIPE RACK.
1800	5		SKID RIG FLOOR OVER WELL S-28. SKID PIPE RACK IN PLACE.
1800	6		INSTALL CATWALK, STAIRS, HAND RAILS ETC. RIG UP CIRC. EQUIPT.
2000	4		CLEAN ACTIVE AND RESERVE PITS.
2400	2		RIG UP SLICKLINE EQUIPT. TO SHORT STRING. 1100 PSI SITP SHORT STRING. BLEED TBG. DOWN. RIH WITH 1.77" GAUGE RING TO 7764'. STUCK WIRELINE TOOLS @ 7764'. WORKED WIRELINE TOOLS FREE AND POH @ 2400 HRS.

REMARKS: WIRELINE OPERATOR UNABLE TO EXPLAIN WHY TOOL STRING STOPPED 32' HIGH. SEE REPORT DATED 12-3-97.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW					
SIZE			TYPE			FV					
MAKE			LINER			PV/YP					
TYPE			STROKE			GELS					
SER NO.			PRESS			WL					
JETS			SPM			HTHPWL					
IN			GPM			PH					
OUT			DC AV			PF					
FEET			DP AV			PM					
HRS			NOZ VEL			CA					
FPH			BTMS UP			CL					
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS		TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

COPY TO REGION

DATE 12-7-97
AFE No. 5188
DHC 2,358,450
COMPL
TOTAL

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DMC 0 DWC 21,600
TMC 0 TWC 129,800

PROP. DAYS
P
ACT. DAYS 5
DEPTH
PROGRESS

OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS.P.0816.S-28-ST CO./ST. OFFSHORE, CA API NO. 004-334-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN Host

PRESENT OPERATIONS

TIME 0500	HRS	TR CODE	OPERATIONS SUMMARY
0900	8		RERAN 1.77" GAUGE RING TO 7764', UNABLE TO WORK TOOLS BELOW 7764' (SOCIA), POH.
			RIH WITH 1 3/4" IMPRESSION BLOCK TO 7764', POH. T.B. SHOWED SCALE ON TBG WALL.
			SET BPV IN SHORT STRING @ 300'. SET TEST PLUG @ 100' WITH SLICKLINE.
			SET TEST PLUG IN LONG STRING @ 100'. RDMO SCHLUMBERGER.
1100	3		REMOVE INJECTION TREE. (NOTE: NO THREADS IN LONG STRING LANDING JT. ERODED)
1600	5		INSTALL RISER AND BOPE. FUNCTION TEST BOPE.
1900	3		TEST BOPE; CHECK AND FIX LEAKS.
2400	5		REMOVE DRILLER'S CONSOLE. REMOVE LOW DRUM CLUTCH.
			REPAIR DRAWWORKS ON RIG @ 24:00 HRS.

REMARKS:

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW					
SIZE			TYPE			FV					
MAKE			LINER			PV/YP					
TYPE			STROKE			GELS					
SER NO.			PRESS			WL					
JETS			SPM			HTHPWL					
IN			GPM			PH					
OUT			DC AV			PF					
FEET			DP AV			PM					
HRS			NOZ VEL			CA					
FPH			BTMS UP			CL					
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS		TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)
	68	10-12	40	1048	1586	750		

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

DATE 12-6-97 | TORCH OPERATING COMPANY | PROP. DAYS
AFE No. 5188 | DAILY DRILLING REPORT | PTD
DHC 2,358,450 DMC TMC | DWC 18,600 TWC 76,100 | ACT. DAYS 3
COMPL DEPTH
TOTAL PROGRESS
OBJECTIVE FORMATION LOWER REPETTO WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P-0216 · S-28 CO./ST. OFFSHORE, CA API NO. 004-321-205-88-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN HOFF
PRESENT OPERATIONS SKIDDING RIG

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0100	1		RIH WITH 2" TBG SCRATCHER ON SLICKLINE. WORKED SCRATCHER FROM 730' - 743' (TOP OF INJECTION VALVE W/ L.M.), POH.
0400	3		RIH WITH 1 5/8" BAILER, STOPPED @ 740'. BAILED SCALE TO 743' AND WELL STARTED TO BACK FLOW @ THE APPROXIMATE RATE OF 1.5 BBL/HR.
0600	2		BACK FLOW WELL, WELL DEAD @ 0550 HRS.
0730	1 1/2		RIH WITH 2" GS PULLING TOOL TO 743', ATTEMPTED BOT UNABLE TO ENGAGE VALVE, POH. PULLING TOOL PACKED WITH SCALE.
0800	1/2		ATTEMPTED TO RETURN WELL TO INJECTION, TBG PLUGGED.
1300	5		RIH WITH 1 5/8" BAILER, STOPPED @ 737'. BAILED TBG TO 743'. RECOVERED VERY SMALL AMOUNTS OF SCALE LAST 2 RUNS.
1530	2 1/2		RIH WITH 2" GS PULLING TOOL, STOPPED @ 774' (VALVE FELL THRU X NIPPLE @ 743'), POH.
1630	1		RIH WITH 2" IMPRESSION BLOCK TO 774', POH. I.B. SHOWED MINIMAL I.P. DUE TO SCALE, NO INDICATION OF VALVE.
1830	2		RIH WITH 1 5/8" BAILER TO 774', BAIL SCALE, UNABLE TO MAKE ANY SIGNIFICANT PROGRESS. DISCUSSED SITUATION WITH TOC ENGINEERING. IT WAS DECIDED TO ABORT THE ATTEMPT AND SKID THE RIG.
2030	2		SET BPV IN LONG STRING @ 317' WITH SLICKLINE. RDMO SLICKLINE EQUIPT.
2400	3 1/2		SKID RIG EAST TO NORTH/SOUTH TRAVERSE @ 24:00 HRS

REMARKS: EXPERIENCING GALE FORCE WINDS (SOUTH-EASTERLY) AND HEAVY RAIN. ALL WELDING WAS TERMINATED DUE TO SHOCK HAZARD.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW					
SIZE			TYPE			FV					
MAKE			LINER			PV/YP					
TYPE			STROKE			GELS					
SER NO.			PRESS			WL					
JETS			SPM			HTHPWL					
IN			GPM			PH					
OUT			DC AV			PF					
FEET			DP AV			PM					
HRS			NOZ VEL			CA					
FPH			BTMS UP			CL					
WOB			ECD			HGS					
RPM			BIT HHP/IN²			LGS		TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FTLBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

COPY TO FILE

TORCH OPERATING COMPANY
DAILY DRILLING REPORT

DATE 12-4-97
AFE No. 5188
DHC
COMPL
TOTAL 2,358,450
OBJECTIVE FORMATION LOWER REPETTO

DMC -1- DWC 18,600
TMC -0- TWC 57,500

PROP. DAYS
ACT. DAYS 2
DEPTH
PROGRESS

WELL TYPE PRODUCER PROP.VS/ZONE

WELL NAME OCS-P-0216-S-28 CO./ST. OFFSHORE, CA API NO. 004-331-205-82-01
RIG TOC-10 LAST CSG 9 5/8" SET @ 8841'
LAST BOP TEST CSG SEAT TEST (EMW) ROT HRS CO. MAN M. HOFF

PRESENT OPERATIONS

TIME 0600	HRS	TR CODE	OPERATIONS SUMMARY
0530	5½		RIH W/1.77" GAUGE RING ON SLICKLINE, STOPPED @ 106'. WORKED GAUGE RING TO TOP OF INJ. VALVE @ 743' (WLM). RIH W/2" GAUGE RING, WORKED GAUGE RING TO TOP OF INJ. VALVE @ 743', POH. RIH W/2.25" GAUGE RING, STOPPED @ 109'. WORKED GAUGE RING TO 743', POH.
0600	½		RETURNED WELL TO WATER INJECTION FOR CLEAN UP.
0800	2		RIH W/2.35" GAUGE RING, WORKED GAUGE RING DOWN TO TOP OF INJECTION VALVE @ 743' (WLM), POH. RIH W/2" "GS" PULLING TOOL. ENGAGED VALVE POH. NO RECOVERY. RIH W/2" IMPRESSION BLOCK TO 743', POH. I.B. SHOWED TOP OF VALVE (BODY CAVITY PACKED W/SCALE).
1300	5		RIH W/1 3/8" BAILER. BAIL SCALE OFF OF AND OUT OF INJECTION VALVE. RIH W/2" "GS" PULLING TOOL. ENGAGED VALVE. WORKED VALVE OFF SEAT AND TOOL STRING WAS BLEW UP HOLE BALLING UP WIRELINE. STRIP WIRELINE TOOLS OUT OF WELL.
1400	1		BACK FLOW WELL WHILE REHEADING TOOL STRING.
1800	4		RIH W/2" "GS" PULLING TOOL, FOUND VALVE LODGED IN TBG @ 691'. ATTEMPTED TO RE-ENGAGE VALVE AND VALVE STARTED DOWNHOLE TO SEAT @ 743'. UNABLE TO ENGAGE VALVE, POH. FOUND PULLING TOOL PACKED WITH SCALE.
2100	3		ATTEMPTED TO BACK FLOW WELL, WELL DEAD, RIH WITH 1 3/8" BAILER, BAIL SCALE OFF OF AND OUT OF VALVE.
2400	3		RIH W/2" "GS" PULLING TOOL. ATTEMPTED BUT UNABLE TO WORK PULLING TOOL INTO VALVE DEEP ENOUGH TO LATCH VALVE. POH. PULLING TOOL PACKED WITH SCALE. UNABLE TO INJECT INTO OR BACK FLOW WELL. RIH WITH 2" TBG SCRATCHER. ATTEMPTING TO REMOVE SCALE FROM VALVE POCKET @ 24:00 HRS
RIG WORK:			REPAIRING CATWALK; WORK ON LIGHTS IN DERRICK. REPAIR GRATING ON RIG FLOOR; REPLACED CABLE TRAY ON RIG; REPAIR HANGERS FOR ROTARY TABLE ETC.

REMARKS: REMOVED SHAKERS FROM MUD PITS FOR REPAIRS.

BIT DATA			PUMP DATA			MUD DATA		BHA DESCRIPTION	OD	ID	LENGTH
BIT NO.			PUMP NO.			MW					
SIZE			TYPE			FV					
MAKE			LINER			PV/YP					
TYPE			STROKE			GELS					
SER NO.			PRESS			WL					
JETS			SPM			HTHPWL					
IN			GPM			PH					
OUT			DC AV			PF					
FEET			DP AV			PM					
HRS			NOZ VEL			CA					
FPH			BTMS UP			CL					
WOB			ECD			HGS					
RPM			BIT HHP/IN^2			LGS		TOTAL			
T			JIF			MBT		DP CONNECTION:			
B						% OIL		ST WT PU WT SO WT			
G						CAKE		TORQUE FT-LBS or AMPS			

MD	TVD	DRIFT	DIRECTION	VS	COORDINATES		D/L SEV.
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	
					NS	EW	

COND	TEMP	SEAS	WIND	BULK CMT (SX)	BULK BARITE (SX)	DRL.WTR (BBLS)	POT.WTR (BBLS)	FUEL (GALS)

DISCHARGE MONITORING: EST. VOL. (BBLS) FLUID TYPE VISUAL SHEEN YES NO

COPY TO REGION

RECEIVED
DEC - 8 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

TORCH OPERATING COMPANY

DAILY DRILLING COSTS

DATE: 12-3-97 THRU _____

WELL: OCS-P-0216-S-28-ST CO, ST: OFFSHORE, CA RIG: TOC-10 AFE #: 5188 DH AFE$: 2,358,450

		AFE AMOUNT	PRIOR TOTAL	12-3-97	12-4-97						WEEKLY CUM	TOTAL
1.	LOCATION	12,000	-0-									
2.	CONTRACT DRILLING											
	a. Footage/Turnkey $/Ft. or $											
	b. Install & Remove Rig	24,000		3900								
	c. Daywork	320,000			7800							
3.	DRILLING BITS	47,000										
4.	FUEL & WATER	8,400		600	1200							
5.	CEMENT & SERVICE	66,300										
6.	FORMATION EVALUATION											
	a. Electric Surveys (open hole) Specialized Service	37,500										
	b. Mud Logging	22,500										
7.	DRILLSTEM TEST (INCLUDING TEST UNIT)											
8.	CONVENTIONAL CORING & ANALYSIS											
9.	SPECIALIZED SERVICE											
	a. Directional/MWD Services	300,000										
	b. All Other Services	29,000										
10.	FISHING TOOLS & SERVICE											
11.	EQUIPMENT RENTAL	269,000		1300	3000							
12.	LOST IN HOLE											
13.	DRILLING MUD & COMPLETION FLUIDS											
	a. Materials/Liquid Mud	250,000										
	b. Maintenance & Monitoring Equipment/Transp	40,000										
	c. Mud/cutting disposal charges											
	d. All Other Services	12,000		4500								
14.	CONSTRUCTION/WELLSITE SUPERVISION	28,000		300	700							
15.	TRANSPORTATION	468,000		1500	3000							
16.	CASED HOLE WIRELINE			1900								
17.	SUPPLIES & SMALL TOOLS			100	200							
18.	ENVIRONMENTAL	5,000										
19.	COMMUNICATIONS	4,000			100							
20.	CATERING/GROCERIES	44,000		400	900							
21.	INSURANCE $/Ft.	16,000		20700								
22.	OVERHEAD $/Day	4,750										
23.	CONTINGENCIES 10 %	100,000		3500	1700							
	TOTAL INTANGIBLES	2,252,450		38,900	18,600							
24.	CASING											
	a. Conductor											
	b. Surface Pipe											
	c. Intermediate/Production	156,000										
	d. Liner & Hanger											
25.	TUBING											
26.	WELLHEAD											
27.	SUBSURFACE EQUIPMENT											
28.	PRODUCTION EQUIPMENT											
	TOTAL TANGIBLES	156,000										
	DAILY TOTAL			38,900	18,600							
	CUMULATIVE	2,358,450		38,900	57,500							

P.02
ID=
12-05-97 00:29

TORCH
OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

RECEIVED
FEB 10 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

February 6, 1998

Mr. Shannon Shaw
Minerals Management Service
770 Paseo Camarillo - MS 7210
Camarillo, CA 93010-6064

RE: Correction Sundry Notice for
Platform Gilda - #S-28WB01

Mr. Shaw:

Enclosed you will find the above referenced information as per your requirements (4 copies). This work had been approved verbally as noted on Sundry Notice.

Please feel free to call with any question or comment at 805-934-8224.

Sincerely,

Sabrina J. Miller
Regulatory Coordinator

RECEIVED

JAN 2 7 1998

MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

TORCH
OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

January 26, 1998

Mr. Rishi Tyagi
U.S. Department of Interior
Mineral Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RE: Platform Gilda Well #S-28
Correction Sundry Notice for Approval

Mr. Tyagi:

Enclosed you will find the above referenced package for your approval, with copies as per your requirements. These are the hard copies for this sundry, which had been faxed to you on this date.

Feel free to call me at 805-934-8224 with any questions or comments.

Thank you,

Sabrina J. Miller
Regulatory Coordinator

TORCH
OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

January 12, 1998

Mr. Shannon Shaw
Minerals Management Service
770 Paseo Camarillo - MS 7210
Camarillo, CA 93010-6064

RE: Correction Sundry Notice for Platform Gilda - #S-28WB01

Mr. Shaw:

Enclosed you will find the above referenced information as per your requirements (4 copies). This had been faxed over to you on this day for approval – these are the hard copies as promised in my fax cover sheet.

Please feel free to call with any question or comment at 805-934-8224.

Sincerely,

Sabrina J. Miller
Regulatory Coordinator

TORCH
OPERATING COMPANY

FAX COVER SHEET

Date:	December 2, 1997	**Time:**	3:22 PM
To:	**Shannon Shaw**	**Phone:**	805-389-7775
Company:	MMS	**Fax:**	805-389-7784
From:	Gary P. Hertfelder	**Phone:**	805-934-8208
Department:	Drilling	**Fax:**	805-937-0237

Number of pages including cover sheet: 5

Message:
Shannon,

As per our telephone conversation, attached are wellbore diagrams for the S-28 well, Platform Gilda.

We would like to change our previously approved abandonment procedure to the following.

1) Set blanking plug in "XN" nipple at 8115.69' TVD in the 2-3/8" tubing string.
2) Set blanking plug in "XN" nipple at 8430.97' TVD in the 2-7/8" tubing string.
3) Install riser, BPV and BOPE. Test BOPE to MMS requirements.
4) Chemically cut 2-3/8" tubing 5' above RDH packer at 8101'. POH and laydown 2-3/8" tubing.
5) Chemically cut 2-7/8" tubing 5' above RDH packer. Mix and pump 100 lineal foot cement plug above RDH packer. Tag top of cement plug. POH laying down 2-7/8" tubing.
6) Continue with original MMS approved well procedure.

If you have any questions, please contact me.

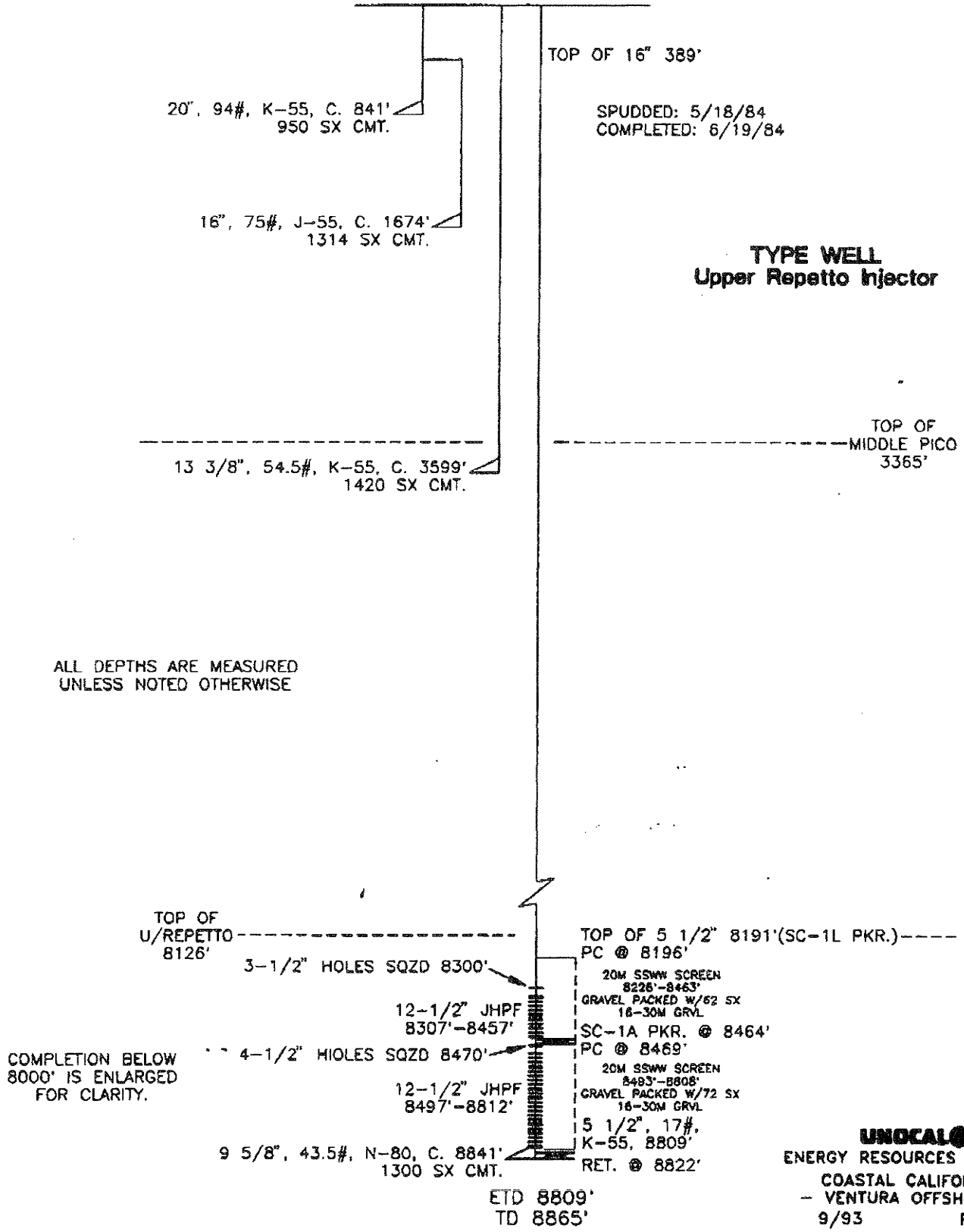
Thanks for your help.

Gary

RECEIVED
DEC - 2 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

SANTA CLARA FIELD
Platform Gilda
Well #S-28

RT: 107' **Slot #58**

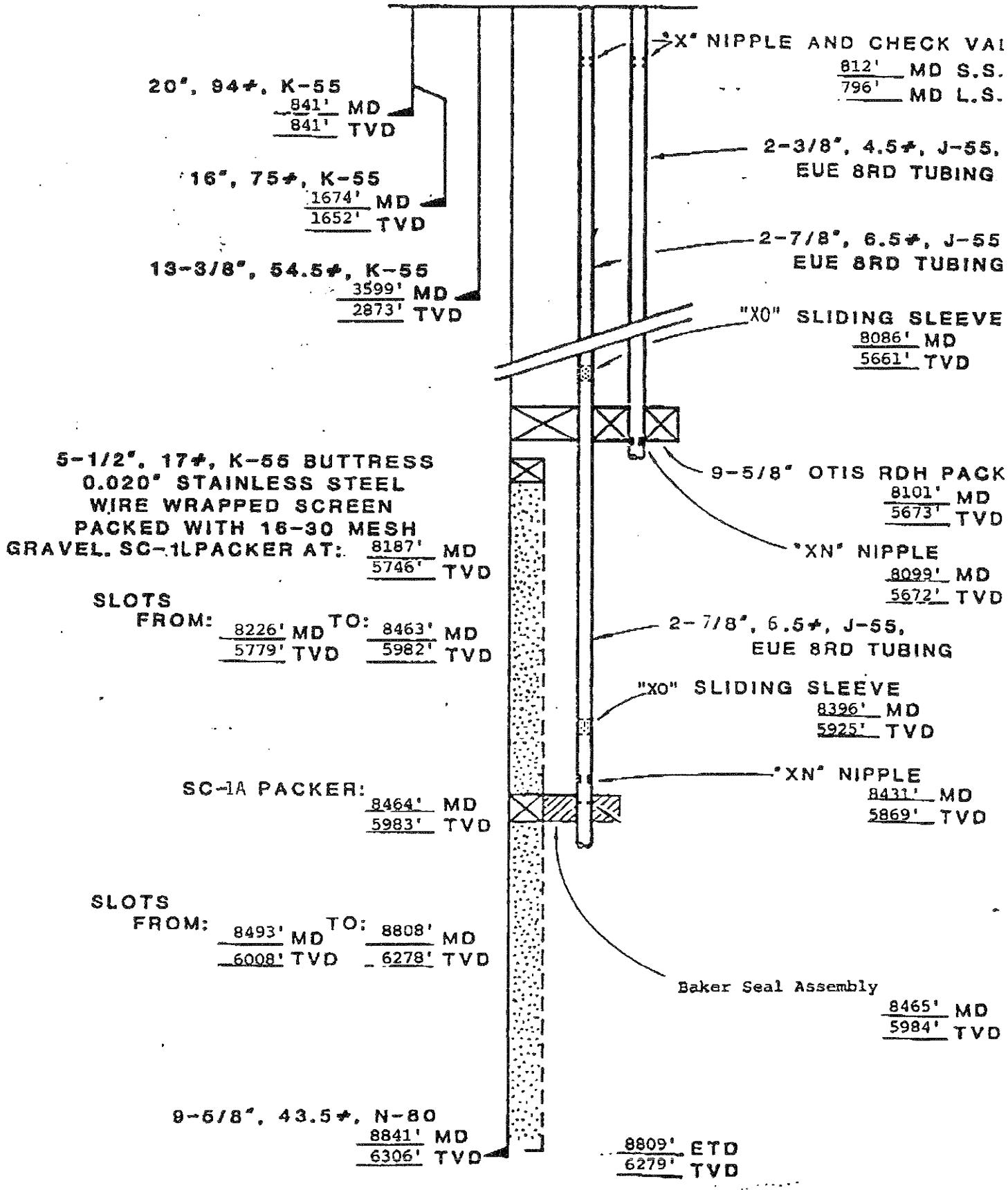


UNOCAL
ENERGY RESOURCES DIVISION
COASTAL CALIFORNIA
- VENTURA OFFSHORE -
9/93 RJDIII

PLATFORM GILDA

COMPLETION DESIGN

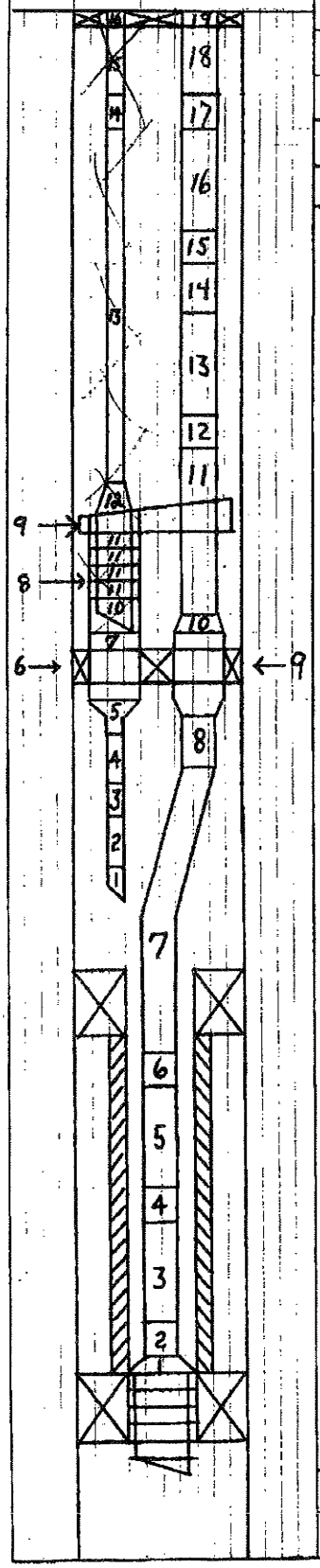
WELL S-28 (Slot 58)



OTIS COMPLETION GUIDE

OTIS ENGINEERING CORPORATION
A HALLIBURTON Company

OEC-217-E



PREPARED FOR	COMPANY	TELEPHONE	DATE
Steve Heiter	Union O.I Co.		6-18-84

FIELD NAME	WELL NAME	COUNTY	STATE	
Platform Gilda	S-28		CA.	☒NEW ☐COMPLETION ☐WORKOVER

	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	9 5/8"	47#			
LINER					

TUBING SIZE: UT 2 7/8" MT LT THREAD

DESCRIPTION	I.D.	O.D.	LENGTH	ESTIMATE OR DEPTH
Long String				
1. Baker Seal Assy. - overall	3.063	4.69	16.70	8464.96
A. Locator above SC-1 Packer			.87	8464.09
2. Catcher Sub 2 7/8" EU			.37	8463.72
3. Joint Tubing 2 7/8" EU			31.48	8432.24
4. XN Landing Nipple 2 7/8" EU	2.205		1.27	8430.97
5. Joint Tubing			31.44	8399.53
6. XO Sliding Sleeve 2 7/8" EU	2.313	3.70	3.21	8396.32
7. Tubing - Nine Joints			283.67	8112.65
8. Pup Joint 2 7/8" EU			4.10	8108.55
9. BDH Dual Packer 9 5/8" 40-47#			7.47	8101.08
10. Swedge 3 1/2" x 2 7/8" EU			.85	8100.23
11. Pup Joints - Three 2 7/8" EU			11.27	8088.96
4.10 + 3.08 + 4.09 = 11.27				
12. XO Sliding Sleeve 2 7/8" EU	2.313	3.70	3.21	8085.75
13. Joint Tubing			31.54	8054.21
14. Wireline Release Travel Joint	2.380	4.00	8.51	8045.70
15. Pup Joint 2 7/8" EU			4.07	8041.63
16. 230 Joints Tubing			7744.00	297.63
17. X Landing Nipple 2 7/8" EU	2.313	3.23	1.23	296.40
18. Tubing to surface - 23 Joints			224.81	71.59
10' pup, 8' pup, and Fatigue Nip.			18.49	53.10
19. Hanger			1.10	52.00
20. KB			52.00	0
			TOTAL ESTIMATE	

Filed with MSO# 454934
454935

PREPARED BY	OFFICE	TELEPHONE
Michael Haave	Ventura	648-3393

OTIS COMPLETION GUIDE

OTIS ENGINEERING CORPORATION
A HALLIBURTON Company

OEC-217-E

PREPARED FOR	COMPANY	TELEPHONE	DATE
Steve Heiter	Union Oil Co		6-18-84

FIELD NAME	WELL NAME	COUNTY	STATE	☒ NEW ☐ COMPLETION ☐ WORKOVER
Platform Gilda	5-28		CA.	

	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	9 5/8"	47#			
LINER					

TUBING SIZE: UT 2 3/8 | MT | LT | THREAD

See Schematic on Long String

DESCRIPTION	I.D.	O.D.	LENGTH	ESTIMATE OR DEPTH
Short String				
1. Guide Shoe 2 3/8" EU			.40	8122.97
2. Pup Joint 2 3/8" EU			6.02	8116.95
3. XN Landing Nipple 2 3/8" EU			1.26	8115.69
4. Pup Joint 2 3/8" EU			6.02	8109.67
5. Swedge 2 3/8" x 3 1/2" EU			1.12	8108.55
6. RDH Dual Packer 9 5/8" 40-47#			7.53	8101.02
7. X-over Packer to Seal Bore			.46	8100.56
8. Seal Bore Extension			7.49	8093.07
9. Scoop Head Guide - No Tally				
10. Seal Guide			.45	8111.46
11. Seal Assembly			11.09	8111.01
Two Seals - 2.32'				
Spacer - 2.67'				
Six Seals - 6.10				
12. No-Go Locator			1.11	8099.90
In Packer - .71'				8099.21
Above Packer - .40'				8098.81
13. 232 Joints Tubing		72	85.14	813.67
14. X Landing Nipple 2 3/8" EU			1.20	812.47
15. 24 Joints Tubing 2 3/8" EU		7	55.67	56.80
Pup Joint			3.70	53.10
16. Hanger			1.10	52.00
17. KB			52.00	0
Filed with MSO # 454934				
454935				
TOTAL ESTIMATE				

PREPARED BY	OFFICE	TELEPHONE
Michael Haave	Ventura	648-3393

TORCH OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

October 23, 1997

Mr. Rishi Tyagi
U.S. Department of Interior
Mineral Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RECEIVED
OCT 24 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

RE: Platform Gilda Well #S-28
Initial Sundry Notice for Approval

Mr. Tyagi:

Enclosed you will find the above referenced package for your approval, with copies as per your requirements. The following information is included in this package:

1. Initial Sundry Notice
2. Location of well with platform
3. Proximity summary sheet
4. Drilling and completion procedures
5. Casing design
6. Cement program
7. Proposed logging program
8. Well control procedure
9. Graph of anticipated pore pressures, mud weights and fracture gradients
10. Proposed mud program
11. Directional survey
12. Wellbore diagram

Feel free to call me at 805-934-8224 with any questions or comments.

Thank you,

Sabrina J. Miller

Sabrina J. Miller
Environmental Specialist

pgr. 894-5349

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28 WB01	NUEVO ENERGY COMPANY 1200 Discovery Dr., Ste 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01546

COPY TO REGION

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___	ESP Conversion	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x=1041779 7821' FEL Y=748021 3451' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Nuevo 6080	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached information for details

RECEIVED
NOV 14 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Richard F. Garcia	As Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE Richard F. Garcia	31. DATE 11/11/02

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 11/14/02

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28 WB01	NUEVO ENERGY COMPANY 1200 Discovery Dr., Ste 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01546

COPY TO REGION

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___	ESP Conversion	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x=1041779 7821' FEL Y=748021 3451' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Nuevo 6080	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached information for details

RECEIVED
MAR 12 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Sabrina J. Miller	As Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
for Sabrina J. Miller	3/8/02

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for District Supervisor

DATE 3/12/02

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

NUEVO ENERGY COMPANY
Santa Clara Field, Offshore California
OCS-P-0216
Platform Gilda
Well # S-28

LP-M & N WORKOVER PROCEDURE TO CONVERT F/FLOWING TO ESP

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft	Hole Vol (bbl) w/o tbg	Hole Vol (bbl) w/ tbg
Cond. Csg	20	Surface - 841	94.0	19.124	18.936	0.3552	---	---
Surf. Csg	16	382- 1,674	75.0	15.124	14.936	0.2222	---	---
Int. Csg.	13-3/8	Surf - 2,531	54.5	12.615	12.459	0.1545	---	---
Int. Csg.	13-3/8	2531 - 3,599	68.0	12.415	12.259	0.1457	---	---
Prod.Csg. t/TOL	9-5/8	Surf- 6,928*	43.5	8.755	8.599	0.0744	515 *	460
Prod. Lnr #1	7"	6,392-12,860'	26.0	6.276	6.151	0.0382	247	196
Prod. Lnr.	5"	12,860-14,608	15.0	4.408	4.283	0.0188	33 *	23- 2 3/8
Extension/Blk	2-3/8	13,805- 13,888	4.7	1.995	1.901	0.00387	0.5 *	
GP Assembly	2-3/8	13,888- 13,973	4.7	1.995	1.901	0.00387	0.5 *	
* Actual H.Vol. without 2-7/8" tbg in hole (Window cut in 9-5/8")							796 * bbl	
Production Tbg.	2-7/8	Surf- 13,806	6.5	2.441	2.347	0.00579		80 bbl
Circulating hole volume with 2-7/8" Tubing in hole								760 bbl

Seal Sub w/perf. hole believed to be 2' below SC-1 pkr.@ 13808' MD(according to rpt of 03/15/98)
Existing LP-M Perfs 13,896'-13,956' MD (8118'-8164' TVD)
2-3/8 x 12 Gg Screen 13,889'-13969' MD (8113'-8173' TVD)
Existing LP-N Perfs 14,349'-14,409' MD (8465'-8513' TVD)
2-3/8 x 12 Gg Screen 14,343'-14,424' MD (8461'-8524' TVD)
Last W/O Fluid: 8.65 ppg KCl (6%) Circ thru Circ.Ports (PU 2' –after snap out pkr) on 3/15/98

Bottom Hole Press./Temp. History: Last Pruett Pressure Reading in Feb. 2002 analyzed the reservoir pressure at the top of the LP "M" to be 2516 psi @ a datum level of 8118' TVD or 0.310 psi per foot. The average reservoir pressure is equal to 6.0 ppg pore pressure. The current 6% KCL completion fluid in the wellbore should provide more than enough hydrostatic to overbalance formation pressure. The bottom hole temperature is in the neighborhood of 200° F.

Intended Pump Setting Depth for the ESP = 12,280' MD
Size of production string to be run is 2-7/8", 6.5#, L-80, EUE 8rd down to the ESP setting depth
Anticipated Production Rate = ± 450 BFPD, ±400 BOPD, Gas Rate between 300-700 mcf/d

PROCEDURE

1. Skid rig to the Well #S-28 slot (slot #58, Well Room #3). ND tree. NU BOP and test according to MMS regulations.

2. Pull the hanger up approximately two feet to lift the un-loader sub above the bore of the production packer to expose the circulating port. Reverse out the wellbore with 6% KCl fluid to kill the well. The well is to be circulated until clean KCl fluid is seen at the surface.

3. POOH with the 2-7/8" tubing and the production seal assembly.

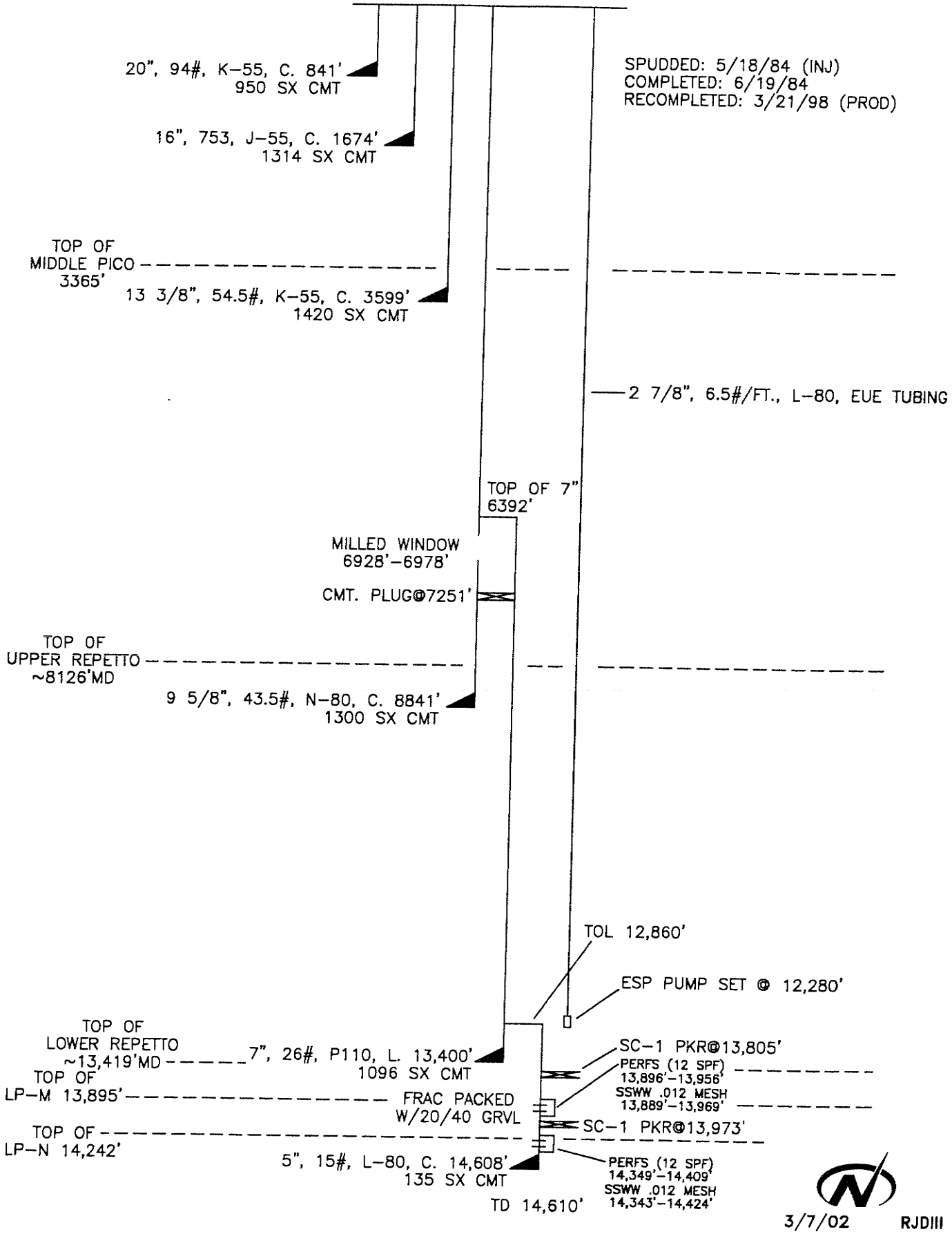
4. RIH with casing scrapers & scrape the existing 7" liner and the 9-5/8 intermediate production casing. POOH with 2-7/8" tubing string and LD same.

5. Pick up the inspected and new tubing string and RIH with ESP equipment to set at ± 12280 ft. inside the 7" production liner.

6. Space out the tubing string and land the tubing hanger. Install BPV and ND BOPE. Install tree. Remove BPV. Install the blanking plug and test the tree. Remove the blanking plug.

7. Return well to production. Verify pump operation. Set packer within 48 hours.

SANTA CLARA FIELD
Platform Gilda
Well S-28



3/7/02 RJDIII

NUEVO ENERGY COMPANY
1200 Discovery Dr., Suite 500
Bakersfield, CA 93309

(661) 395-5265
Fax: (661) 395-5298

CONFIDENTIAL

March 11, 2002

Mr. Rishi Tyagi
Minerals Management Service - District
770 Paseo Camarillo - MS 7210
Camarillo, CA 93010-6064

RECEIVED
MAR 1 7 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO

RE: Sundry Notice for Workover on Gilda S-28

Mr. Tyagi:

Enclosed for your review and approval is the above referenced project. As discussed in the project meeting between your office and Nuevo, we will handle the distribution for your office (see below) to hopefully receive approval as soon as possible.

If you have any question or comment, please feel free to contact the assigned Engineer – Brent Martin at (661) 395-5201 or myself at (661) 395-5265.

Sincerely,

Wilma Vaughn

Wilma Vaughn
Regulatory Assistant
Nuevo Energy Company

Cc: Mr. Tom Laurendine
Minerals Management Service
1201 Elmwood Back Blvd.
New Orleans, LA 70123-2394

Mr. Thomas Dunaway
Mineral Management Service - Regional
770 Paseo Camarillo MS 7200
Camarillo, CA 93010-6064

TRANSMISSION VERIFICATION REPOR

TIME : 03/12/2002 21:36

DATE,TIME	03/12 21:36
FAX NO./NAME	816613955298
DURATION	00:00:31
PAGE(S)	01
RESULT	OK
MODE	STANDARD ECM

SJS 5/19/98

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

DISTRICT
Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28 WBD1	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546 SJS

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL	ACIDIZE	FRACTURE X	PLUG BACK X	WORKOVER	COM/POW
	ALTER CASING	INITIAL COMPLETION X	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		
	CHANGE ZONE	PERFORATE X	SIDETRACK X		
SUBSEQUENT REPORT X	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3451'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached Well Summary, history and schematic for detailed final package.

CONFIDENTIAL

RECEIVED
APR 25 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980422

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE Actg District Supervisor

DATE 6/4/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

WEEKLY ACTIVITY REPORT
Period: 03/16/98 to 03/22/98

Week No. 15

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: **03/21/98**

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: n/a
15. Last BOP Test Date: 3/17/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

RD surface equip. Install BPV and ND BOPE stack & riser. NU xmas tree, tested void to 5000 psi for 1/2 hour, set stinger plug in tree, tested tree to 5000 psi for 1/2 hour. RU Dowell tbg. **Test BOPE 250# low and 5000# high on 3/17/98**. RIH w/1 1/4" coiled tbg, jet @ 150 scf to 500'. Cont. RIH to 1000'. Jet well, rec. total of 6.6 bbls (oil-gas/water). Jet well @ 1500', 1800' & 2000'. Well started to flow at 0100 hrs. Flow well back until 0400 hrs. Attempt to keep rate @ 100 bpd. Jet and flow 58 bbls back in 9 hours (avg. 6.4 bph, 155 bpd). POOH w/coiled tbg. Monitor well. All seems o.k. **Release rig from S-28 @ 2400 hrs on 3/21/98.**

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 03/09/98 to 03/15/98

Week No. 14

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/05/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD:	14,610		
14. Mud Weight:	14.1		
15. Last BOP Test Date:	3/1/98	Test Pressure (psi):	250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA):	COM		

17 Summary of Operations:

RIH w/GP assembly. Run all of 2 3/8" tbg and 20 stds of 3 1/2" tbg. Rabbit tbg in hole to 13971'. Drop ball and set pkr @ 13805'. Pressure test all - o.k. Pump Dowell's Stim-Pac for the "M" interval. Monitor tbg & csg press. Underbalance between tbg & csg. Well appears to be static. Rev. circ. and shut pump down. POOH w/tbg & csg. PU and run production string - 31 jts of 2 3/8" 4.7# N-80 EUE tbg, 12288.68" Halliburton 2 7/8" LX A flapper SSSV serial #171-LL-5, 20.01'. Test valve to 5000 psi for 1/2 hour - o.k. Displace 13 ppg Bromide w/6% KCL water on annulus down to 12281'. Left 30 bbls Bromide in annulus. Cont. to displace 6% KCL water w/13# Bromide on backside. Landed hanger, backed out landing jts. PU new w/pup jts. Snapped out of SC-1 pkr. Displace 13# Bromide w/6% KCL water + inhibitor & oxygen scavenger on backside to 12281'. Left 30 bbls on backside. Landed hanger in well head. Tested stinger seals and tbg to 1000 psi - o.k.
Received verbal approval for variance on BOPE test until 1200 hrs on 3/15/98 provided that Xmas tree has not been installed by Mr. Dave Gebaur w/MMS. Variance granted @ 3/14/98 2030 hrs. Received verbal approval for BOPE extension till bromide displacement w/KCL water has been completed, tbg hanger landed, ND, & tree installed f/Rishi Tyagi w/MMS @ 2300 hrs on 3/14/98.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT Week #13
Period: 03/02/98 to 03/08/98

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 3/1/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Pump 40 bbls Hi VIS pill and follow w/13.3# caustic bromide water. Pumped 441 bbls, open annular and cont. to displace seawater w/13.3# cal. bro. water @ 4.4 bpm (750#). Circ. out gel pill and check NTU's on bro. water. Had 200+ after 66 additional bbls. Pump NTU 15, and remained 15 to 16. Cont. to circ. RIH and test **BOPE per MMS regs on 3/1/98.** POOH. Prep and RIH w/Schlumberger logging tools. RIH w/ATC & CCL to 11500' - tool failed. POOH. RIH w/Gamma Ray and CCL loggers f/14370'-14000'. Tied in RA tag w/Gamma Ray and made a 6' correction to 14424'. Re-run log to verify depth. POOH. MU Howco 3 3/8" perf gun w/12 spf. RIH w/perf gun and to 14424'. Tag sump pkr. Space out w/**btm shot @ 14409' and top shot @ 14349'.** Champ pkr and set @ 12805'. Guns fired. POOH. Lay out Baker 20/40 gravel pack screen, SC-1 pckr and MU assembly. RIH w/GP assembly to 12800' and prep for frac job. Pump frac pack, displaced w/70 bbls flush, got sand out & pressure up. Bleed down and circ. Flush clean. POOH w/5 stds. Took 22 bbls to fill hole. Monitor well and POOH. PU Howco perf gun assembly and TIH. Set pkr plug in Baker SC-1 pkr @ 13973'. Set 7" pkr @ 12733'. Pressure up and **fire guns f/13896' to 13956' w/12 spf.** Monitor well and POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	
3/3/98	Gamma Ray/CCL	14370'-14000'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/23/98 to 03/01/98

Week No. 12

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0215 Platform Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-28WB01	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-20582-01/S01	10. Spud Date:	**12/19/97**
5. Water Depth:	205'	11. Plug date:	**12/15/97**
6. RKB:	107'	12. TD Date:	**02/05/98**
		13. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD:	14,610		
14. Mud Weight:	14.1		
15. Last BOP Test Date:	1/28/98	Test Pressure (psi):	250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA):	COM		

17 Summary of Operations:

RIH w/4.250" bit to top of liner @ 12846' and cont. in hole to 14525'. Circ. mud out of 5" liner. Pump 22 bbls Gel Sweep until fluid clean. POOH. RIH w/5", 7" & 9.625" csg scrapers & brushing tools to 14518'. M/P and pump 50 bbls caustic pill - circ. POOH. TIH and test tbg @ 7500 psi. **Note: Received verbal approval from Ralph Vasqez @ 0830 hrs. on 2/28/98 to extend BOP test until coming out of hole after changing over fluid.** Break circ. and wash to btm @ 14525' no fill. Start circ. w/FSW following with 75 bbls HI VIS Gel pill, 5 gpb Safe VIS E, 100 bbls of caustic pill mixed w/2 ppb caustic, follow w/75 bbls of FSW, follow w/100 bbls caustic pill mixed w/2 ppb of caustic and 3 drums of rinse aid, follow w/ 75 bbls of FSW, follow s/200 bbl caustic pill mixed w/2 ppb of caustic. Circ. until clean NTU's 36.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/16/98 to 02/22/98

Week No. 11

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Pressure test casing @ 2000 psi - o.k. Pressure test down tbg. to test 7" & 5" liner LAP @ 2000 psi - would blead down to 1800 psi in 10 min. Unseat pkr and POOH. CO pack off insert f/12875' to 13105'. Wash & rotate f/13105' to 14525'. Circ. hole clean & pump pill. POOH. RIH w/5.161" flutted mill and tag @ 12857'. Polish tie back sleeve & CBU. POOH. RIH w/tie back pkr. Break circ. & set tie back in place. PT seals @ 1000 psi. Set pkr TOP @ 12846'. Close rams & PT tie back to 2000 psi for 30 min. CBU & pump pill. POOH. Run Schlumberger USIT-CBT-GR-CCL from 14520' to 13400'. POOH. **Note: Notified MMS at 1130 hrs. that we would be disposing of 14.2# mud. Rishi Tyagi gave approval.** Pump 44 bbls of HI VIS Gel Sweep and circ. until clean. POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	
2/21/98	USIT-CBT-GR-CCL	14520' - 12846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/09/98 to 02/15/98

Week No. 10

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): COM

17 Summary of Operations:

Logged Platform Express f/14580' to 13397' on 2/10/98. POOH. W&R f/13397' to 14610'. Circ. for casing. **Began completion on 02/11/98**. Prepare to run 5" liner. Received verbal approval from MMS to hold off on BOPE test until 5" liner has been run and cemented. Run 5" 15# L-80 521 new liner w/135 sks Class "G" + 1% CD-32, 1.2% FL-1.2 + 2% SR-30 & 15.8 ppg - CIP 1010 hrs. on 2/12/98. POOH and pump pill. MU RR bit #9 and RIH w/ 3.5" DP. RIH to TOL @ 12860'. Attempt to PT liner lap - no good. 300 psi loss in 20 min. Pump pill. MU and run test plug. PT all rams, safety valves, C&K valves & choke manifold 250 low to 4700 high. Pull test plug and MU test string. PT lower pipe rams same. PT annular 250 low and 3500 high. All tests good. MU 7", 26# RTTS and RIH. RU and set packer @ 6492'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks
5"	14608'	4000	15.8 ppg	135 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	
2/10/98	Platform Express	14580' - 13397'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 02/02/98 to 02/08/98

Week No. 09

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **02/05/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 14,610
14. Mud Weight: 14.1
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Received verbal approval from Rishi Tyagi at MMS for new TD on 02/05/98.
Drill f/13400' to 13405' and circulate. Perform P.I.T. w/13.5 ppg & TVD of csg shoe @ 7732 & 825 psi = 15.6 ppg EMW. Cont. drilling f/13405' to 14003'. Circ.and wait on weather (high winds). Cont. drilling f/14003' to TD @ 14610'. Circ. and POOH to shoe @ 13397'. Prepare to log. TIH w/logging tools to 13321' and ran T.P. Log f/13338' to 14580'. Logging going in hole. Logging out of hole f/14580' w/T.P. Logs.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550	15.6 ppg	1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
2/8/98	Tool Pusher's Log (T.P. Log)	13338' - 14580'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/26/98 to 02/01/98

Week No. 08

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 12.2
15. Last BOP Test Date: 1/28/98 Test Pressure (psi): 250L/4700H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

PU and set cast iron bridge plug @ 7082'. POOH to 6364'. Test lines to 3000 psi - 625.5 bpm. POOH. RIH w/ 9.625 cement retainer and set @ 6360'. Test casing above retainer to 2500 psi. Pump 25 sks Class "G" w/20 ghs CD-31L + 50 ghs FL-33L + 2 ghs R-21L + 2 ghs FP-6L to top of liner. Total cement in liner lap 12.5 bbls. Final pressure @ 1020 psi. **Estimated top of cement @ 6346'. CIP @ 0555 hrs on 1/27/98.** Pump slug & POOH. NU 13 5/8" 3000X 13 5/8" W.H. w/5000 HUB. Pressure test seals to 3000 psi. NU riser & BOP's. Install diverter. Test BOPE as per MMS regulations - 250 low & 4700 high on 1/28/98. Pressure test 5" & 3.5" annular f/250 low & 3000 high. CO cement and retainer f/6263' to top of liner @ 6393'. Circ. RIH w/BHA and tag @ 6260'. Wash to 6292'. CO cement f/6392' to 7080' (bull plug). Mill BP and chase f/7395' to 12679'. CO cement f/12679' to 12848' & mill on BP. Pump pill. CO cement f/12850 to 12905' - gas detected. Drill cement f/12905' to13371'. Test casing & liner lap @ 2500 psi for 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/19/98 to 01/25/98

Week No. 07

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Finish underreaming. Prep to run 7" 26# P110 Hyd. new csg. Mix and wt up Ultra Flush II and pump M/P 940 sks lead cmt Class "G" 12.5 wt w/2% sodium metasilicate + .8% FL-62; + .5% CD-32 + 2 ghs FP-12L, followed w/158 sks Class "G" mixed @ 15.8 w/20 ghs CD-31L; 45 ghs FL-33L; 2 ghs FP-12L. Displaced cmt w/11.9 mud to landing collar @ 13305'. Bumped plug w/2550/600 over displacement pressure. Bled to 0 psi. CIP @ 1120 hrs. on 01/22/98. RIH and tag cmt @ 3405'. Circ. Hole clean. RIH to 5442' and circ. Same. Drill cmt f/6382' to TOL @ 6392'. Circ. RU BJ and test lines to 3000 psi. MU and set test plug. Test 3.5 DP on variable rams. Test 3.5 TIW & IBOP to 3000h/250l. Test hydrill same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	13400'	2550		1098 sks

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/12/98 to 01/18/98

Week No. 06

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **01/14/98**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 13400'
14. Mud Weight: 11.9
15. Last BOP Test Date: 1/16/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Bit stacking up and unable to slide @ 12280'. Add .6% by volume S.O. lube, slide drill & rotate to 12543'. Pull to 9843'. Tight hole f/12543'-10920'. Add nut plug to enhance sliding. Pulsar on MWD failed @ 12566'. POOH to change out MWD. Move heavy wall to top of string, RIH and drill ahead to 12882'. WB indicating possible over balance. Reduce mud wt. To 11.88 ppg. Wiper trip @ 13183'. Pulled tight and had to pump stands out to 12560'. Safety ream back to bottom. Drill to 13210' and short trip to 10050' (hole much improved). **Continued drilling to 13400' (TD)**. Circ. Btms up. LD directional drilling tools & RIH w/9 7/8" underreamer. Underream to 8724'. POOH & **test BOPE per MMS specs. On 1/16/98.** Cont. RIH, washed last 90' to bottom. Underream to 8912'. Pull to shoe @ 6928'. Continue to Underream to 10519' at report time.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/05/98 to 01/11/98

Week No. 05

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 12300'
14. Mud Weight: 12
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue to survey and drill from 10260' to 12300'. Wash & ream the same.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/29/97 to 01/04/98

Week No. 04

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 10260'
14. Mud Weight: 10.8
15. Last BOP Test Date: 1/2/98 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue drilling f/7088' to 9996'. Pressure test BOPE per MMS specifications on 1/2/98. RIH w/114 jts 5" 19.5 G-105 D.P. to 4797' and continue to shoe @ 6903'. RIH to 9881' and W&R to 9996'. (Calibrated Baker depth sensor) Drill f/9996' to 10260.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/22/97 to 12/28/97

Week No. 03

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 7088'
14. Mud Weight: 9.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Continue milling window f/6966' to 6978'. Under-reamed open hole to 15" f/6928' to 6978'. RIH w/mule shoe on btm of 15 jts 2 7/8" tbg and 5" D.P. to 6984'. Circulate & pretreat mud. RU cementers (for kick off plug) and equalized 103 ft3 (106 sks) of 17.2 ppg, Class "G" slurry w/32 gph D-316, 7 gph R-21L and 3 gph FP-6L f/6984' to 6833' CIP @ 1450 hrs. 12/22/97. POOH and wait on cement. Tag cement stringers f/6571' to 6660', clean out f/6660' to 6978' (no kick off plug). RIH w/2 7/8" tbg and DP to 6950' - tbg plugged - attempt to unplug was no good. POOH. Tbg plugged w/metal shavings. LD & CO tbg. RU BJ and pressure test lines to 2500 psi. BJ M&P 106 sks (103 ft^3) Class "G" w/30 ghs CD-31L, 7 ghs R-21L, 2 ghs defoamer. CIP @ 1815 hrs (for kick off plug). RIH w/bit & tag hard cement @ 6800'. CO cmt f/6800' to 6928' & circ. **NOTE: Torch obtained verbal approval 12/26/97 from Ralph Vasquez w/MMS to continue operations w/3000 psi W.H. until 7" csg PT**. RIH and tag TOC @ 6928'. CO cmt f/6928' to 6930'. Slide f/6930' to 6988'. Perform LOT - 9.6 ppg/1720 psi. Drill f/6988' to 7088'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/15/97 to 12/21/97

Week No. 02

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: **12/19/97**
11. Plug date: **12/15/97**
12. TD Date: **N/A**
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 6966'
14. Mud Weight: 10.6
15. Last BOP Test Date: 12/19/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

Recovered total of 77 jts. of tbg while fishing (top of fish @ 7473'). RIH w/bit & scraper. Tag top of fish @ 7473' and pull bit to 7470'. Circulate and condition mud. MU 9 5/8" x 47# mechanical set drillable bridge plug on 15 jts of 2 7/8" tbg. **Set BP @ 7470' and test @ 1500 psi for 5 minutes - o.k. RU and test cement line - o.k. Mixed 90 ft^3 (78 sks) of Class "G" w/20 ghs CP-311, 4 ghs R-211 and 2 ghs FP-6 f/7470' to 7251'. CIP @ 2129 hrs 12/15/97.** POOH laying down 2 7/8" tbg tail. Prep to mill window. Set test plug (12") and test BOPE - 250L/3000H on 12/19/97. RIH w/section mill on 5" D.P. tag top of cement @ 7139'. **Mill window in 9 5/8" csg. F/6928' to 6934' on 12/19/97 @ 2400 hrs.** Continued milling to 6966', pumping Hi-Vis Sweep every 30 minutes.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/08/97 to 12/14/97

Week No. 01

GENERAL INFORMATION

1. Lease (BHL) OCS P-0215 Platform Gilda
2. Well No.: S-28WB01
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20582-01/S01
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. Plug date: N/A
12. TD Date: N/A
13. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: N/A
14. Mud Weight: 10.1
15. Last BOP Test Date: 12/8/97 Test Pressure (psi): 250L/3000H
16. Well Status (Dlg, Com, WO, TA, PA): Dlg-ST

17 Summary of Operations:

MIRU on 12/8/97. Full test of BOPE on 12/8/97. Displace wellbore with kill mud. Pull short string tbg, dump riser to backout hanger screws, & attempt to pull long string tbg. Tbg parted at 1488'. MU fishing tools. Unable to run dialog due to scale inside tbg. Cont. fishing operations recovering 158 joints to date.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

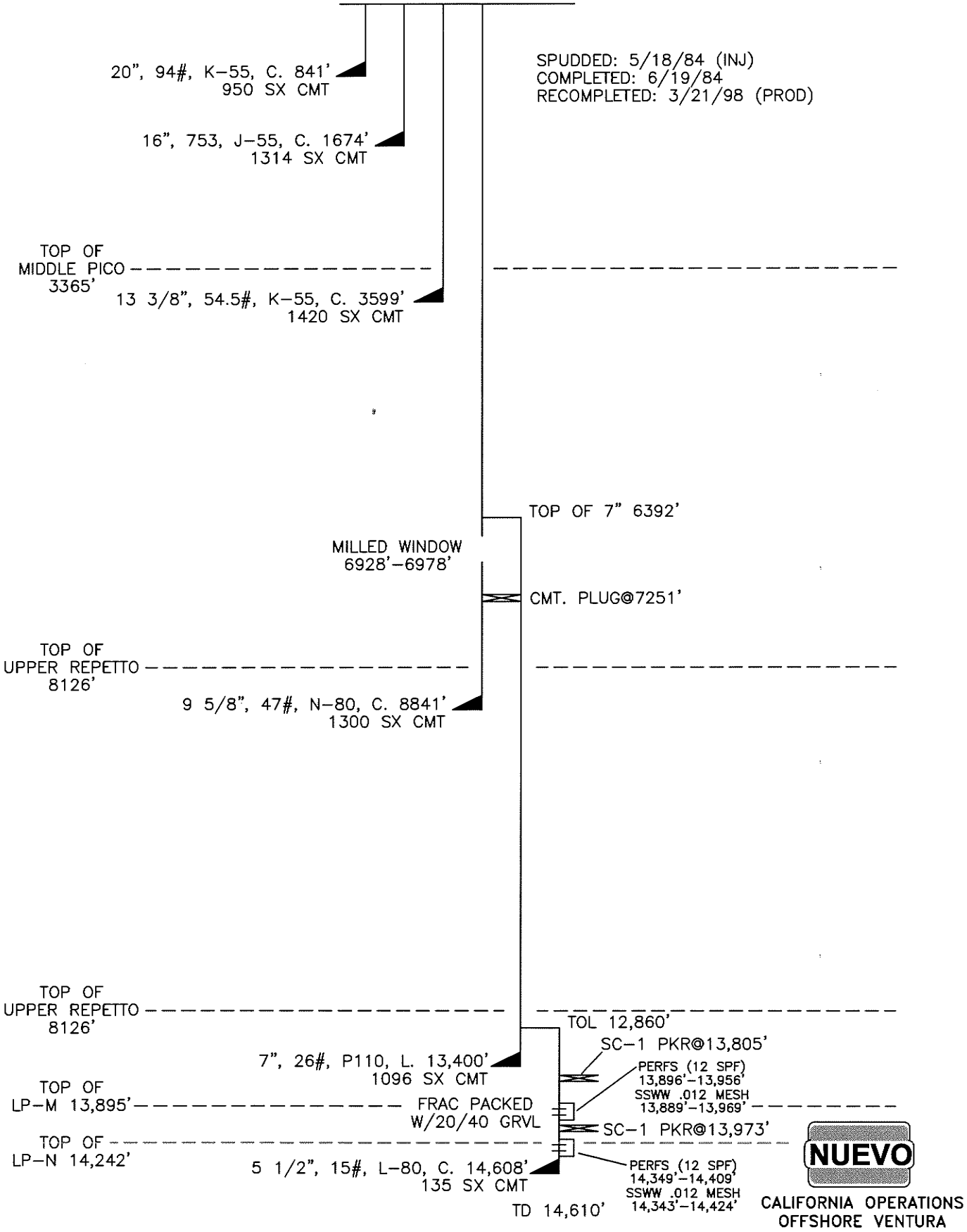
19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

SANTA CLARA FIELD
Platform Gilda
Well S-28



SJS 3/3/98

COPY TO REGION DISTRICT

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___					DRL
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___					
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___						
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X						
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___						

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3451'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch proposes to drill another 100 feet deeper in order to penetrate the entire zone and provide additional rathole for the liner. Thus, the new total depth will be approximately 14, 610 feet MD.
Torch received verbal approval from Mr. Rishi Tyagi, District Supervisor of MMS at 4:30a.m. February 5, 1998.

RECEIVED
FEB 10 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980205

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/4/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

SJS 3/3/98

COPY TO REGION

DISTRICT

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	891012369A	01546	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___					
APPROVAL X	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___					DRL
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___						
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X						
SUBSEQUENT REPORT	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___						

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3451'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch request's approval to postpone the next scheduled BOPE test on February 11, 1998 to a later date of February 13, 1998. This stems from deteriorating hole conditions that resulted in sticking the drill pipe and logging tools. Torch will resume BOPE testing after the 5 inch liner has been run and cemented.

RECEIVED
FEB 11 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980210

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 2/10/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

SJS 2/10/98

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045

Expiration Date:

1 ORIGINAL / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
ORIGINAL ____ CORRECTION X	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ____	FRACTURE X	PLUG BACK X	WORKOVER ____			DRL
	ALTER CASING ____	INITIAL COMPLETION X	PULL CASING ____	OTHER ____			
SUBSEQUENT REPORT ____	ARTIFICIAL LIFT ____	MULTICOMPLETION ____	RECOMPLETION ____				
	CHANGE ZONE ____	PERFORATE X	SIDETRACK X				
	DEEPEN ____	PERM ABANDONMT ____	TEMPORARY ABANDONMENT ____				

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3444'FSL SJS	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ____	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch request's approval to postpone the next scheduled BOPE test on February 11, 1998 to a later date of February 13, 1998. This stems from deteriorating hole conditions that resulted in sticking the drill pipe and logging tools. Torch will resume BOPE testing after the 5 inch liner has been run and cemented.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	980210

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 2/10/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

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331 and MMS-332 which will not be used

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FEB 10 1998

MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

Post-it® Fax Note 7671	Date 2/10/98	# of pages ▶ 1
To Sabrina Miller	From Shannon Shaw	
Co./Dept. NUEVO	Co. MMS	
Phone # (805) 934-8224	Phone # (805) 389-7775	
Fax # (11) 937-8709	Fax # (11) 389-7784	

TORCH
OPERATING COMPANY

FAX COVER SHEET

Date:	February 10, 1998	**Time:**	1:24 PM
To:	**Shannon Shaw**	**Phone:**	(805) 389-7780
Company:	MMS	**Fax:**	(805) 389-7784
From:	Sabrina J. Miller	**Phone:**	(805) 934-8224
Department:	ES&RC	**Fax:**	(805) 937-8709

Number of pages including cover sheet: 2

Message:
I spoke with Gary Hertfelder today regarding this Sundry Correction and it is my understanding that you are expecting this fax.

Shannon, can you give me a call when you are going to fax this back with approval? I would appreciate it. Sometimes it never quite makes it back to me.

Feel free to call with any question or comment.

Thanks



COPY TO REGION

SJS 2/3/98

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with DISTRICT
one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___	~~COMA/WW~~ DRL SJS
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 S03541E07821	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch proposes to convert the existing 3,000 psi wellhead assembly to a 5,000 psi wellhead assembly by installing a barrier seal in the upper bowl of the 3,000 psi wellhead and then placing a 13-5/8"-3,000 psi by 13-5/8"- 5,000 psi tubing spool on top of the 3,000 psi unitized wellhead assembly. The attached drawing shows the wellhead conversion components. After installation, Torch will test the BOPE equipment to 5,000 psi. The wellhead conversion will be performed after the 7" casing has been cemented in place and prior to drilling out the shoe of the 7" casing.

CONFIDENTIAL

RECEIVED
JAN 23 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980121

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 2/4/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

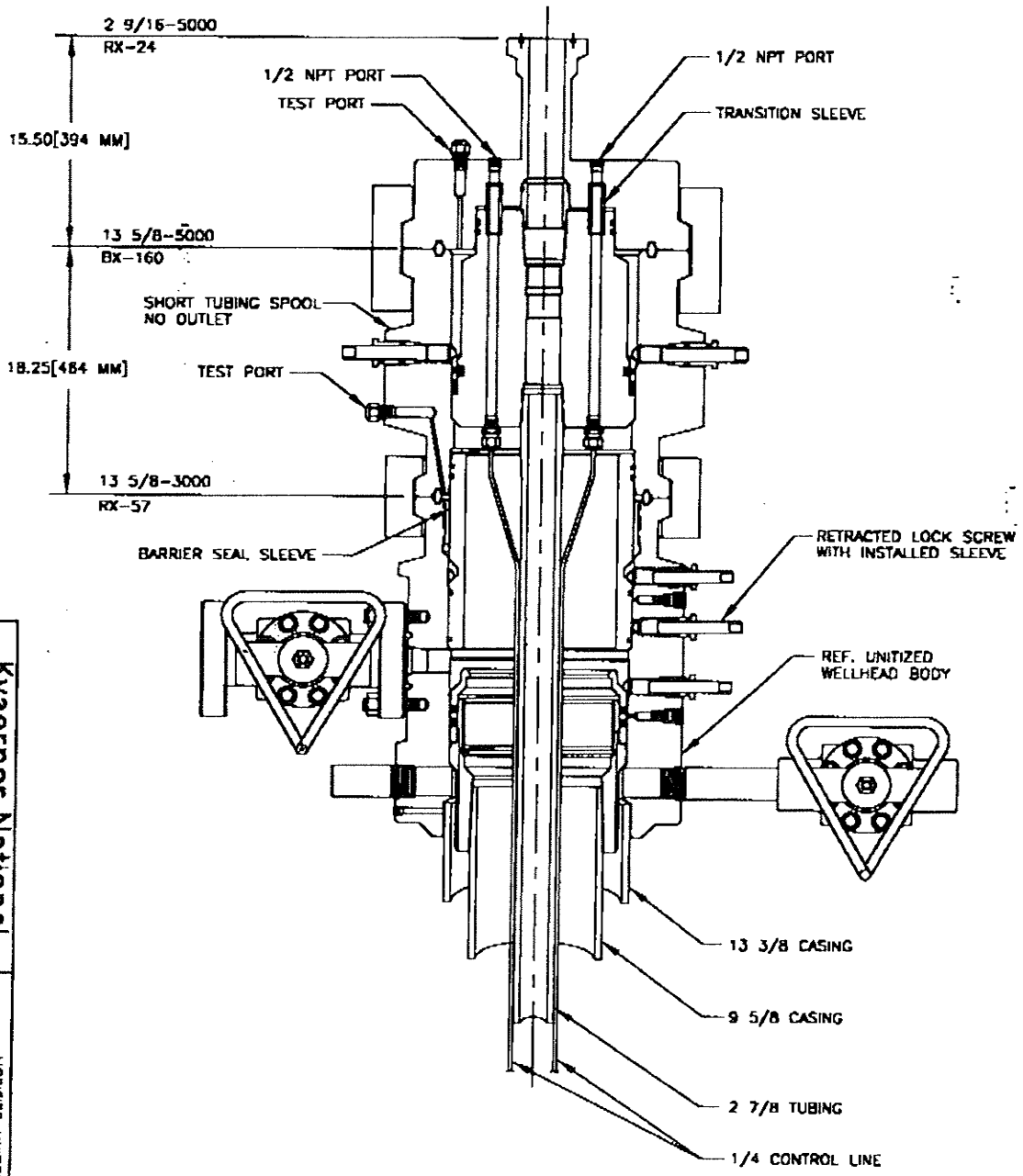
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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

ATTN: GREG HERTFELDER

805-937-0237

FINAL DRAWING PARTS SHOULD BE COMPLETED 1/16/98 DPM



Kvaerner National

HOUSTON, TEXAS U.S.A.
HOUSTON ENGINEERING

MODIFIED UNITIZED WELLHEAD SYSTEM
13 5/8-5M W/ BARRIER SEAL F/5000 WP X
13 5/8-5M X 2 9/16-5M CUP HUB

SJS 2/3/98

DISTRICT COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

CONFIDENTIAL one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER		~~COMA/IW~~ DRL SJS
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER		
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION				
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X			
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT				

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3541'FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

After installation of the 5M BOPE and in preparation for testing, Torch personnel discovered that the National Unihead wellhead system is only rated for 3,000 psi. Thus, the BOPE was tested to 3,000 psi. on Dec. 19, 1997. Ralph Vasquez, MMS, was notified on Friday December 26, 1997 of this variance. The original application submitted to the MMS indicated that Torch would test the BOPE to 4,800 psi. or 80% 0f the casing burst pressure. Torch now proposes to continue to drill and conduct 3,000 psi BOPE testing until equipment is ready to convert the wellhead to 5,000 psi. rating. Torch does not anticipate any saftey concerns because offset Lower Repetto wells shut-in tubing pressures are 2,000 psi.

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111

RECEIVED
JAN 13 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy

30. AUTHORIZING SIGNATURE	31. DATE
	980112

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/4/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

COPY TO REGION SJS 2/3/98

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MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
ORIGINAL ___ / CORRECTION X	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___					~~COM/W/W~~ DRL SJS
APPROVAL X	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___					
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___						
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X						
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___						

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 7821'FEL 3541'FSL	P-0216	6B	4861	6B

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NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Squeeze Liner Lap: The 7" liner lap test was unsuccessful. After pumping 13.7 barrels drilling fluid, the final injection rate was 1 BPM at 2100 psi. Torch now proposes the following corrective actions to repair the leaking lap. 1) Set a bridge plug in the 7" casing at 7078 ft. 2) Retest liner lap and establish injection rate. 3) Set cement retainer in 9-5/8" casing at 6362 ft. and squeeze 75 sacks of Class "G" cement through retainer. 4) Drill out cement retainer and retest lap to 2500 psi. 5) If liner lap test unsuccessful, Torch proposes to set a liner top isolation packer and retest liner lap to 2500 psi. 6) Drill out bridge plug in 7" casing and continue with original procedure.

RECEIVED
JAN 27 1998
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	980126

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DATE 1/26/98

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SJS 1/26/98

MINERALS MANAGEMENT SERVICE **CONFIDENTIAL** OMB No. 1010-0045
SUNDRY NOTICES AND REPORTS ON WELL Submit original plus three copies with one copy marked "Public Information" Expiration Date:

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	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	891012369A	01546	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___			~~COMAWIW~~ DRL
APPROVAL X	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___			
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___				
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X				
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___				

WELL AT SURFACE

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Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980126

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DATE 1/26/98

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FAX

Date 1/26/98

Number of pages including cover sheet 2

TO: Shannon Shaw
MMS

Phone
Fax Phone 389-7184

FROM: Sabrina Miller
NUEVO/Torch Operating
201 S. Broadway
Orcutt, CA 93455

Phone 805-934-8324
Fax Phone 805-937-8709

RE: Dlt Gilda S-28

REMARKS: ☐ Urgent ☐ For your review ☐ Reply ASAP ☐ Please Comment

SJS 1/13/98

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

CONFIDENTIAL
one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

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	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	891012369A	01546	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL x	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION		
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X	
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT		DRLG.

WELL AT SURFACE

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26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980112

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 1/14/98

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH
OPERATING COMPANY

RECEIVED
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MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

FAX COVER SHEET

Date:	December 30, 1997	**Time:**	5:30 PM
To:	**Khaleeq Siddiqui**	**Phone:**	805-389-7775
Company:	MMS	**Fax:**	805-389-7784
From:	Gary P. Hertfelder	**Phone:**	805-934-8208
Department:	Drilling	**Fax:**	805-937-0237

Number of pages including cover sheet: 1

SITP ≐ 2000 psi after 20+ days.

Subject: Well S-28, Platform Gilda, Santa Clara Field

After installation of 5M BOPE and in preparation for testing, Torch personnel discovered that the National Unihead wellhead system is only rated for 3,000 psi. Thus, the BOPE was satisfactorily tested to 3,000 psi. on December 19, 1997. The original program submitted to MMS indicated that the BOPE should be tested to 4,800 psi (80% of 9-5/8", 47#, N-80 casing burst pressure). Ralph Vasquez, MMS, was notified on Friday December 26, 1997, of this variance. Ralph had indicated that we must contact you to determine if a Sundry Notice is required for the variance in the BOPE test.

Further research determined that the S-28 well was completed as an Upper Repetto injector and like other Upper Repetto and Middle Repetto producing wells had been equipped with 3,000 psi National Unihead wellhead systems. The previously drilled Lower Repetto wells have utilized a 5,000 psi. National Unihead wellhead system. Since this S-28 Sidetrack well is to be completed in the Lower Repetto, Torch is planning on converting the wellhead to 5,000 psi rating after the 7" casing is cemented at the of top of the Lower Repetto zone at approximately 13416 ft. MD/ 7750 ft. TVD and prior to drilling out the shoe of the 7" casing. National will supply Torch with several alternatives for converting the 3,000 psi Unihead system to a 5,000 psi system. After the wellhead is properly installed and tested, Torch will test the BOPE to 4800 psi. as indicated in the original program submitted to the MMS.

A Sundry Notice will be submitted to the MMS as soon as the most appropriate method is determined to convert the wellhead.

If you have any questions, please contact me.

Gary

TORCH
OPERATING COMPANY

FAX COVER SHEET

Date:	January 12, 1998	**Time:**	2:19 PM
To:	**Shannon Shaw**	**Phone:**	(805) 389-7780
Company:	MMS	**Fax:**	(805) 389-7784
From:	Sabrina J. Miller	**Phone:**	(805) 934-8224
Department:	ES&RC	**Fax:**	(805) 937-8709

Number of pages including cover sheet: 2

Message:
Please accept the attached Corrected Sundry Notice submitted for your approval. This is per your conversations with Gary Hertfelder on Plat. Gilda, Well #S-28WB01. Hard copies will follow by Federal Express to you.

Feel free to call with any question or comment.

Sabrina Miller

SJS 12/23/97

COPY TO REGION

DISTRICT

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL / CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28WB01	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER		COM/WIW
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER	
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION			
	CHANGE ZONE		PERFORATE	X	SIDETRACK	X		
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT			

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 S03541E07821	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Torch was unsuccessful in the recovery of complete 2 7/8" tubing and RDH packer. Top of tubing fish at 7473'. Thus, Torch proposes the following changes to the procedure:

1. Set permanent bridge plug at 7470'.
2. Equalize a 100 lineal ft. (35 sack) Class 'G' cement plug from 7470' to 7370'.
3. RIH and tag top of cement plug.
4. Continue with original procedure

Received verbal approval from Mr. Dale Roberts - MMS at 0725 hrs. 12/15/97.

RECEIVED
DEC 16 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	9712015

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE Acting District Supervisor

DATE 12/23/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-28 (slot #58)
December 11, 1997

Proposed TD: 8592' TVD / 14500' MD

Surface Location: Slot No. 58
X= 1041778.5 Y= 748020.5

Subsurface Location: 7385 ft. FNL and 662 ft. FWL of OCS-P0215 at 8592' TVD.
X= 1050315 Y=753324

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	MD (ft)	TVD (ft)	SS (ft)	Est Pressure (psi)
LP-1	7092	4927	4820	1200-1500
LP-A	9732	6037	5930	3100-3200
LP-B	10214	6232	6125	3100-3200
LP-E	12291	7072	6965	3100-3200
LP-K	13416	7749	7642	5000-5500
LP-L	13747	8007	7900	5000-5500
LP-M	13876	8107	8000	5000-5500
LP-N	14242	8392	8285	5000-5500
LP-N	14500	8592	8485	5000-5500

Existing Casing Program:

Casing	Setting Depth (ft. MD)
20", 94#, J-55, Vetco RL-4S	0'-841'
16", 75#, J-55, Buttress	389'- 1674'
13-3/8', 54.5#, K-55, Buttress	0'- 3599'
9-5/8", 47#, N-80, Buttress	0'- 8841'

Proposed Casing Program:

Casing	Setting Depth (ft. MD)
7', 26#, S-95, Hydril 521	6500'- 13416'
5", 15#, S-95, Hydril 521	13000'- 14499'
2-7/8" SSWR screen liner, packed w/ 20-40 sd.	13300'- 14499'

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 and TESCO portable top drive over slot #58.

2. RU Wireline unit. Remove "PXN" plug at 8115.69' MD from 2-3/8" short string.

3. RU on 2-7/8" long string. Fill casing annulus. Circulate well with 12 ppg mud down 2-7/8" tubing taking returns up through 2-3/8" short string.

4. With both the 2-3/8" tubing, 2-7/8" tubing and the casing annulus open, shut down and observe well for thirty minutes. If well is completely dead proceed to next step.

5. RU wireline unit and install "PXN" blanking plugs in the 2-3/8" tubing at 8115.69' MD and 2-7/8" tubing at 8430.97' MD. Test each string to 1,000 psig. RD wireline unit.

6. Install BPV and ND production tree. Install riser, 13-5/8", 5000 psi single gate and double gate blowout preventers, 13-5/8", 5000 psi annular blowout preventer, diverter, bell nipple, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Test the blind rams and casing to 250 psi and 1000 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

7. RU wireline unit and pull blanking plugs from each of the tubing strings. RD and release wireline unit.

8. POH with 2-3/8" short string and LD. PU 20,000 lbs over string weight on 2-7/8" long string and unset Otis RDH packer set at 8101' MD. POH with 2-7/8" long string and packer.

Note:
If packer does not pull free. Re-land tubing. MU and RIH with chemical cutter and cut 2-7/8" tubing 90' below packer. POH with wireline. PU on 2-7/8" tubing and recover packer. If packer is not free, RIH with chemical cutter and cut 2-7/8" tubing pup joint 5' above packer. POH with wireline. MU and RIH with fishing assembly. Jar packer free and POH. LD 2-7/8" tubing.

Table 1: Fishing BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Overshot, 150	2	2	4.125	4.125		6.5		2 ½ EUE
Bumper Sub	12	14		6.25	2.25	6.25	4 ½ IF Pin	4 ½ IF Box
Fishing Jars	12.2	26.2		6.25	2.25	6.25	4 ½ IF Pin	4 ½ IF Box
DC	120	146.2		6.5	2.25	6.5	4 ½ IF Pin	4 ½ IF Box
Accelerator	13.5	159.7		6.25	2.25	6.25	4 ½ IF Pin	4 ½ IF Box
Tubing	7942	8101.7		2.875	2.441	3.5	2 ½ EUE	2 ½ EUE

9. MU and RIH with 8-1/2" bit and 9-5/8" casing scraper on 5" DP to 7470' MD.

10. MU and RIH with 9-5/8" Baker permanet bridge plug on DP. Set bridge plug at 7470' MD. Close rams and pressure test brige plug to 1,000 psig. for 30 minutes.

11. Release from bridge. Equalize 35 sack Class "G" cement plug on top of bridge plug. PU 5 stands and reverse DP clean. Circ and build mud volume for milling. POH. WOC 4 hours. RIH and tag TOC. MMS to witness tagiing TOC. POH.

Table 2: Abandonment Cement

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	35	15.8	1.17

12. MU and RIH with 7-1/2" Section Mill, 6-1/2" shock absorber, 8 6-1/2" DC's, HWDP and 5" DP. Mill section from 6940' MD to 6990' MD. Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program and table below for fluid properties for milling section.

Table 3: Section Milling BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Section Mill	6	6		7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 4: Milling Fluid

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
Gel/Seawater	8.5- 10	28-50	N/A	0-15	0-15	0-6	<6

13. MU and RIH with underreamer. Open hole to 15" from 6940' to 6990'. POH.

Table 5: Underreaming BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	15	7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

14. MU and RIH with OE 2-7/8" tubing tail on 5" drill pipe to 6990' MD. Equalize a 106 sacks Class "G" cement plug. Precede cement with 20 bbls sea water. Displace cement with mud. POH.

Table 6: KOP Cement

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	106	17.2	.97

15. MU and RIH with 8-1/2" bit, 8 6-1/2" DC's and 5" DP. Dress off cement plug to 6942' MD. POH.

16. MU and RIH with 8-1/2" bit and steerable directional assembly. Directional drill from KOP of 6942'MD/4840' TVD to 6962' MD/4850' TVD as per BHI directional program. Conduct formation leak of test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. RU Petrolog mudloggers, John Williams. Change hole over to Glycol Enhanced Mud system. Continue to directionally drill to 7042' MD. Circ hole clean and POH to pick up RWD (Reaming While Drilling Tool).

Table 7: Directional Drilling BHA for 8-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection Bottom	Connection Top
Bit	1	1	8.5					4 ½ R Pin
Motor	26	27	8.375	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	32	8.375	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
CSNM DP	10	42		4.5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2	44		6.75	2.875		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	40	84		6.75			4 ½ IF Box	4 ½ IF Box
NMCS DP	31	115		5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	385		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	420		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1650		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9217		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4199	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

Table 8: Drilling Fluid GEM

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
GEM (glycol)	9.6-12.5	40-50	4-7	15-20	10-30	9-15	<6

17. MU and RIH with SRWD and steerable directional drilling assembly. Turn well to N47.25E and build angle at 4 deg/100 ft. until 66.14 degrees inclination. Hold angle at 66.14 degrees until reraching drop point at 12375' MD/7105' TVD. Drop and turn well as per BHI directional plan until reaching 13416' MD/7749' TVD (top of LP-K interval). Circulate and condition mud and hole for running casing.

Table 9 : SRWD BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection Bottom	Connection Top
Bit SRWD	1	1	8.5					4 ½ R Pin
Motor M1XL	26	27	8.375	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	32	8.375	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
CSNM DP	10	42		4.5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2	44		6.75	2.875		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	40	84		6.75			4 ½ IF Box	4 ½ IF Box
Nortrack Stab	5	115	8.375	6.75	2.875		4 ½ IF Pin	4 ½ IF Box
NMCS DP	31	146		5	2.875	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	416		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	451		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1681		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9248		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4168	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

NOTE: If bottom turn and drop is not achievable with SRWD tool, POH and RIH with 8-1/2" tri-cone drill bit to finish drop and turn. Then pick up underreamer as per BHA in Table 10 below and open hole to 9-1/2" r\prior to running casing.

Table 10: Underreaming BHA for 9-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	9.5					4 ½ R Pin
Roller reamer	5	11	8.25	6.75			4 ½ R Box	4 ½ IF Box
HWDP	270	281		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	316		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1546		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9113		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4303	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

18. Rig up the Wiggins casing crew. MU and RIH with approximately 7000 ft. of 7 ", 26#, S95, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 9-5/8" X 7" hydraulic liner hanger and tie back receptacle to 13416' MD/ 7749' TVD'.

    a) Use a auto fill float shoe and float collar 2 joints above the shoe.

    b) Place a slip-on rigid centralizer 10' above the shoe and then on every collar to the 9-5/8" casing. Use rigid centalizers in 9-5/8" x 7" liner lap.

Table 11: Casing Program for 7"

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe, "FS"	2.10	2.10			7		Hyd 521 Box
1 Jt. 7" casing	40	42.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	7	3	7	Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	40	84.3	7		7.303	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1				Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	6840	6926.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	6931.1				Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	6934.1					
Tie Back	6.25	6940.35					
Jars, Dailey	35	6975.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	8475.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	4941	13416.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 12: 7" Casing Properties

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
7	26	S-95	HYD 521	8600	5890	717,000	568,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum (ft-lb)	Conn. Yield Torque (ft-lb)
5,200	6,000	51,000

19. Rig up cementers and cement the 7" casing as follows:

20. Pump 20 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg. Mix and pump 580 sacks of lead cement (12.5 ppg) followed by 91 sacks of tail cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Table 13: Cement for 7" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	581	12.5	2.09
"G" + additives	91	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

21. MU and RIH with 8 1/2" bit, 3 6-1/2" DC's and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test liner top to 2500 psig for 30 minutes. POH.

22. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig.

23. Increase mud weight to 13.5ppg before drilling out casing shoe. Drill out float shoe and 10 ft of new formation. Perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

Table 14: Drilling Fluid for 6-1/8" Hole Section

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq. ft.)	Solids (%by vol)
GEM (glycol)	13.5-14.5	40-50	4-7	10-20	10-30	9-15	4-6

24. MU and RIH with directional assembly. Directionally drill from 7" casing shoe at 13416' MD/ 7749' TVD to total depth of 14499' MD/ 8592' TVD as per BHI directional program. Circulate and condition mud and hole for logging.

Table 15: Directional Drilling BHA for 6-1/8" Hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.5					3 ½ R Pin
Motor, M1C	19	20	6.25	4.75			3 ½ R Box	3 ½ IF Box
Stabilizer	4.5	24.5	6.25	4.75	2.25		3 ½ IF Pin	3 ½ IF Box
NM DC	15	39.5		4.75	2.687	4.75	3 ½ IF Pin	3 ½ IF Box
NMCS DP	30	69.5		4.75	2.75		3 ½ IF Pin	3 ½ IF Pin
Hangoff Sub	4	73.5		4.75	2.75	4.75	3 ½ IF Box	3 ½ IF Box
HWDP	270	343.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	378.5		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	1008.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8458.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8461.5		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6038	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

25. Rig up Schlumberger loggers and log well. RD loggers.

26. MU and RIH with underreamer and open 6-1/8" hole to 8" from 7" casing shoe at 13416' MD to TD of 14499' MD. Circulate and condition mud for running casing.

Table 16: Underreaming BHA for 8" hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	5	5	8	4.75				3 ½ R Pin
Roller reamer	5	10	8	4.75			3 ½ R Box	3 ½ IF Box
HWDP	270	280		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	315		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	945		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	6900	7845		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	7848		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6651	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

27. Rig up the Wiggins casing crew. MU and RIH with approximately 1500 ft. of 5 ", 18#, S95, flush joint casing with float shoe, landing collar/float collar placed 1 joint from bottom, 7" X 5" hydraulic liner hanger and tie back receptacle to 14499' MD/ 8592' TVD.

Table 17: Casing Program for 5" Liner

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe, "FS"	2.10	2.10			5		Hyd 521 Box
1 Jt. 5" casing	40	42.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	40	84.3	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	1282	1368.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	1373.1	6.18	5.25		Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	1376.1	5.82	5.0			
Tie Back	6.25	1382.35	5.75	5.0			
Jars, Dailey	35	1417.35	4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	900	2317.35	3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G-105	6182	8499.35	3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8502.35	5	4.276	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G-105	5997	14499.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 18: Casing Properties for 5"

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
5	18	S-95	HYD 521	12,040	11,880	501,000	433,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum(ft-lb)	Conn. Yield Torque (ft-lb)
6,100	7,000	23,500

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every joint of the 7" casing. Use rigid centalizers in 7" x 5" liner lap.

28. Rig up cementers and cement the 5" casing as follows:

A) Pump 10 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 317 sacks of Class "G" cement (15.8 ppg). Actual volume should be based on the open hole caliper log.

Table 19: Cement for 5" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	138	15.8	1.15

Note:
1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

29. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, HWDP 3-1/2" and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test 5" liner lap to 2500 psig. POH.

Table 20: Liner Lap Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.125					2 3/8 R Pin
Bit Sub	2.5	3.5		4.75	2.5		2 3/8 R Box	3 ½ IF Box
DC	90	93.5		4.75			3 ½ IF Pin	3 ½ IF Box
HWDP	900	993.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8443.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8446.5		5	2.5	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6053	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

30. MU and RIH with 4-1/8" bit, 3 3-1/8" DC's, 2-7/8" DP, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. POH LD drill pipe.

Table 21: Liner Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	4.125					2 3/8 R Pin
Bit Sub	2.5	3.5		3.5	1.5		2 3/8 R Box	NC26 Box
DC	90	93.5		3.5	1.5		NC26 Pin	NC26 Box
DP, 6.65#, G	1500	1593.5		2.375	2.0625	3.125	NC26 Pin	NC26 Box
Crossover	2.5	1596		3.5			NC26 Pin	3 ½ IF Box
DP, 15.50#, G	6900	8496		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8499		5		5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6000	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

32. Release rig to production department for completion.

TCHs28.WPD

TORCH
OPERATING COMPANY

201 S. Broadway
Orcutt, CA 93455

(805) 739-9111
Fax: (805) 937-8709

December 15, 1997

Mr. Shannon Shaw
U.S. Department of Interior MMS
770 Paseo Camarillo
Camarillo, CA 93010

RE: Correction Sundry Notice (#2) for
Platform Gilda Well #S-28

Mr. Shaw:

Please accept the enclosed information as referenced above. There are 4 copies (1 is 'Public Information' copy) as per your requirements. A verbal approval was given by Mr. Dale Roberts per our Drilling Engineer.

If you have any comment or question, please feel free to contact me at (805) 934-8224.

Thank You,

Sabrina J. Miller
Environmental Specialist

SJS 12/4/97

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL / CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
~~P-0215~~	6B	~~4860~~	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE	FRACTURE X	PLUG BACK X	WORKOVER	COM/WIW
	ALTER CASING	INITIAL COMPLETION X	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		
	CHANGE ZONE	PERFORATE X	SIDETRACK X		
SUBSEQUENT REPORT	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 S03541E07821	P-~~0216~~	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached procedure with revision to plugging procedure. ~~Received verbal approval from Shannon Shaw with the MMS, on 12/02/97.~~

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	971204

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 12/4/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-28 (slot #58)
November 3, 1997

Proposed TD: 8592' TVD / 14500' MD

Surface Location: Slot No. 58
X= 1041778.5 Y= 748020.5

Subsurface Location: 7385 ft. FNL and 662 ft. FWL of OCS-P0215 at 8592' TVD.
X= 1050315 Y=753324

Elevation: 205' WD, 107' Above MLLW, 312' KB

Zone	MD (ft)	TVD (ft)	TVDSS	Est. Pressure
LP-I	7497	5002	4895	1200-1500
LP-A	10640	6077	5970	3100-3200
LP-B	11518	6417	6310	3100-3200
LP-E	12745	7156	7050	3100-3200
LP-K	13568	7777	7670	5000-5500
LP-L	13864	8007	7900	5000-5500
LP-M	13993	8107	8000	5000-5500
LP-N	14539	8592	8285	5000-5500

Existing Casing Program:

Casing	Setting Depth (MD)
20", 94#, J-55, Vetco RL-4S	0'-841'
16", 75#, J-55, Buttress	389'- 1674'
13-3/8', 54.5#, K-55, Buttress	0'- 3599'
9-5/8", 47#, N-80, Buttress	0'- 8841'

Proposed Casing Program:

Casing	Setting Depth (MD)
7', 26#, S-95, Hydril 521	6500'- 13416'
5", 15#, S-95, Hydril 521	13000'- 14499'
2-7/8" SSWR screen liner, packed w/ 20-40 sd.	13300'- 14499'

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 and TESCO portable top drive over slot #58.

2. RU Wireline unit. Pull "XBR" injection valve at 796' MD from 2-7/8" long string. RIH and close "XO" Sliding sleeve at 8396.32'.

3. Run and set "XPN" blanking plug in "XN" nipple at 8115.69' TVD in 2-7/8" long string.

4. RU pump and pressure test 2-7/8" tubing to 1,000 psig for 30 minutes. RU on 2-3/8" tubing and pressure test to 1,000 psig for 30 minutes.

5. Install BPV and ND production tree. Install riser, 13-5/8", 5000 psi single gate and double gate blowout preventers, 13-5/8", 5000 psi annular blowout preventer, diverter, bell nipple, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Install test plug and pressure test the blind rams and pipe rams to 250 psi and 4700 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

6. MU and RIH with chemical cutter and cut 2-3/8" short string 5' above RDH packer. POH with wireline. POH laying down 2-3/8" tubing.

7. MU and RIH with chemical cutter and cut 2-7/8" long string 5' above RDH packer. POH with wireline. RD wireline unit.

8. Fill casing annulus with seawater. Close rams and pressure test 9-5/8" casing to 1,000 psig for 30 minutes.

9. PU 2-7/8" tubing 5 feet. RU BJ cementers and equalize 35 sack Class "G" cement plug on top of RDH packer. PU 5 stands and reverse tubing clean. WOC 4 hours. RIH and tag cement top. MMS to witness tagging of cement top. POH laying down 2-7/8" tubing.

Table 1

Cement Type	Volume, sacks	Density, ppg	Yield, ft³/sack
"G" + additives	35	15.8	1.17

10. MU and RIH with 7-1/2" Section Mill, 6-1/2" shock absorber, 8 6-1/2" DC's, HWDP and 5" DP. Mill section from 6940' MD to 6990' MD. Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program and table below for fluid properties for milling section.

Table 2: Section Milling BHA

Section Mill	6	6		7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 3: Milling Fluid

Gel/Seawater	8.5- 10	28-50	N/A	0-15	0-15	0-6	<6

11. MU and RIH with underreamer. Open hole to 15". POH.

Table 4: Underreaming BHA

Underreamer	6	6	15	7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

12. MU and RIH with OE 2-7/8" tubing tail on 5" drill pipe to 6960' MD. Equalize a 106 sacks Class "G" cement plug. Precede cement with 20 bbls sea water. Displace cement with mud. POH.

Table 5: KOP Cement

"G" + additives	106	17.2	.97

13. MU and RIH with 8-1/2" bit, 8 6-1/2" DC's and 5" DP. Dress off cement plug to 6942' MD. POH.

14. MU and RIH with 8-1/2" bit and steerable directional assembly. Directional drill from KOP of 6942'MD/4840' TVD to 6962' MD/4850' TVD as per BHI directional program. Conduct formation leak of test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. RU Petrolog mudloggers, John Williams. Change hole over to Glycol Enhanced Mud system. Continue to directionally drill to 13416

MD/7749' TVD (20' above of LP-K interval 13469' TMD/ 7777' TVD. Do not drill into top of "K" interval. Neuevo Geologist, David White, to pick casing point. Circ hole clean and POH.

Table 6: Directional Drilling BHA for 8-1/2" Hole

Bit	1	1	9.5					4 ½ R Pin
Motor	21.5	22.5	8.25	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	27.5	8.25	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
NMCS DP	10	37.5		5	2.687	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2.5	40		6.25	2.75		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	45	85		6.75			4 ½ IF Box	4 ½ IF Box
NMCS DP	30	115		6	2.75	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	385		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	420		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1650		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9217		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4199	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

Table 7: Drilling Fluid GEM

GEM (glycol)	9.6-12.5	40-50	4-7	15-20	10-30	9-15	<6

15. MU and RIH with underreamer and open hole to 9.5" from KOP to top 13416'MD/7749' TVD. Circulate and condition mud for running casing.

Table 8: Underreaming BHA for 9-1/2" Hole

Underreamer	6	6	9.5					4 ½ R Pin
Roller reamer	5	11	8.25	6.75			4 ½ R Box	4 ½ IF Box
HWDP	270	281		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	316		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1546		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9113		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4303	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

16. Rig up the Wiggins casing crew. MU and RIH with approximately 7000 ft. of 7 ", 26#, S95, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 9-5/8" X 7" hydraulic liner hanger and tie back receptacle to 13416' MD/ 7749' TVD'.

a) Use a auto fill float shoe and float collar 2 joints above the shoe.

b) Place a slip-on rigid centralizer 10' above the shoe and then on every collar to the 9-5/8" casing. Use rigid centalizers in 9-5/8" x 7" liner lap.

Table 9: Casing Program for 7"

Float Shoe, "FS"	2.10	2.10			7		Hyd 521 Box
1 Jt. 7" casing	40	42.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	7	3	7	Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	40	84.3	7		7.303	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1				Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	6840	6926.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	6931.1				Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	6934.1					
Tie Back	6.25	6940.35					
Jars, Dailey	35	6975.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	8475.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	4941	13416.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 10: 7" Casing Properties

7	26	S-95	HYD 521	8600	5890	717,000	568,000

5,200	6,000	5L,000

17. Rig up cementers and cement the 7" casing as follows:

18. Pump 20 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg. Mix and pump 580 sacks of lead cement (12.5 ppg) followed by 91 sacks of tail cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Table 11: Cement for 7" Casing

"G" + additives	581	12.5	2.09
"G" + additives	91	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

19. MU and RIH with 8 1/2" bit, 3 6-1/2" DC's and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test liner top to 2500 psig for 30 minutes. POH.

20. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig.

21. Increase mud weight to 13.5ppg before drilling out casing shoe. Drill out float shoe and 10 ft of new formation. Perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

Table 12: Drilling Fluid for 6-1/8" Hole Section

GEM (glycol)	13.5-14.5	40-50	4-7	10-20	10-30	9-15	4-6

22. MU and RIH with directional assembly. Directionally drill from 7" casing shoe at 13416' MD/ 7749' TVD to total depth of 14499' MD/ 8592' TVD as per BHI directional program. Circulate and condition mud and hole for logging.

Table 13: Directional Drilling BHA for 6-1/8" Hole Section

Bit	1	1	6.5					3 ½ R Pin
Motor, M1C	19	20	6.25	4.75			3 ½ R Box	3 ½ IF Box
Stabilizer	4.5	24.5	6.25	4.75	2.25		3 ½ IF Pin	3 ½ IF Box
NM DC	15	39.5		4.75	2.687	4.75	3 ½ IF Pin	3 ½ IF Box
NMCS DP	30	69.5		4.75	2.75		3 ½ IF Pin	3 ½ IF Pin
Hangoff Sub	4	73.5		4.75	2.75	4.75	3 ½ IF Box	3 ½ IF Box
HWDP	270	343.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	378.5		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	1008.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8458.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8461.5		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6038	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

23. Rig up Schlumberger loggers and log well. RD loggers.

24. MU and RIH with underreamer and open 6-1/8" hole to 8" from 7" casing shoe at 13416' MD to TD of 14499' MD. Circulate and condition mud for running casing.

Table 14: Underreaming BHA for 8" hole Section

Underreamer	5	5	8	4.75				3 ½ R Pin
Roller reamer	5	10	8	4.75			3 ½ R Box	3 ½ IF Box
HWDP	270	280		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	315		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	945		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	6900	7845		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	7848		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6651	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

25. Rig up the Wiggins casing crew. MU and RIH with approximately 1500 ft. of 5 ", 18#, S95, flush joint casing with float shoe, landing collar/float collar placed 1 joint from bottom, 7" X 5" hydraulic liner hanger and tie back receptacle to 14499' MD/ 8592' TVD.

Table 15: Casing Program for 5" Liner

Float Shoe, "FS"	2.10	2.10			5		Hyd 521 Box
1 Jt. 5" casing	40	42.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	40	84.3	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	1282	1368.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	1373.1	6.18	5.25		Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	1376.1					
Tie Back	6.25	1382.35					
Jars, Dailey	35	1417.35	4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	900	2317.35	3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G-105	6182	8499.35	3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8502.35	5	4.276	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G-105	5997	14499.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 16: Casing Properties for 5"

Size (in)	Weight (ppf)	Grade	Connection	Burst (psi)	Collapse (psi)	Tensile Yield Strength (lbs)	Compression Yield (lbs)
5	18	S-95	HYD 521	12,040	11,880	501,000	433,000

Connection Torque, Minimum (ft-lbs)	Connection Torque, Optimum (ft-lbs)	Connection Yield Torque (ft-lbs)
6,100	7,000	23,500

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every joint of the 7" casing. Use rigid centalizers in 7" x 5" liner lap.

26. Rig up cementers and cement the 5" casing as follows:

A) Pump 10 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 317 sacks of Class "G" cement (15.8 ppg). Actual volume should be based on the open hole caliper log.

Table 17: Cement for 5" Casing

"G" + additives	138	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

27. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, HWDP 3-1/2" and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test 5" liner lap to 2500 psig. POH.

Table 18: Liner Lap Cleanout BHA

Bit	1	1	6.125					2 3/8 R Pin
Bit Sub	2.5	3.5		4.75	2.5		2 3/8 R Box	3 ½ IF Box
DC	90	93.5		4.75			3 ½ IF Pin	3 ½ IF Box
HWDP	900	993.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8443.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8446.5		5	2.5	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6053	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

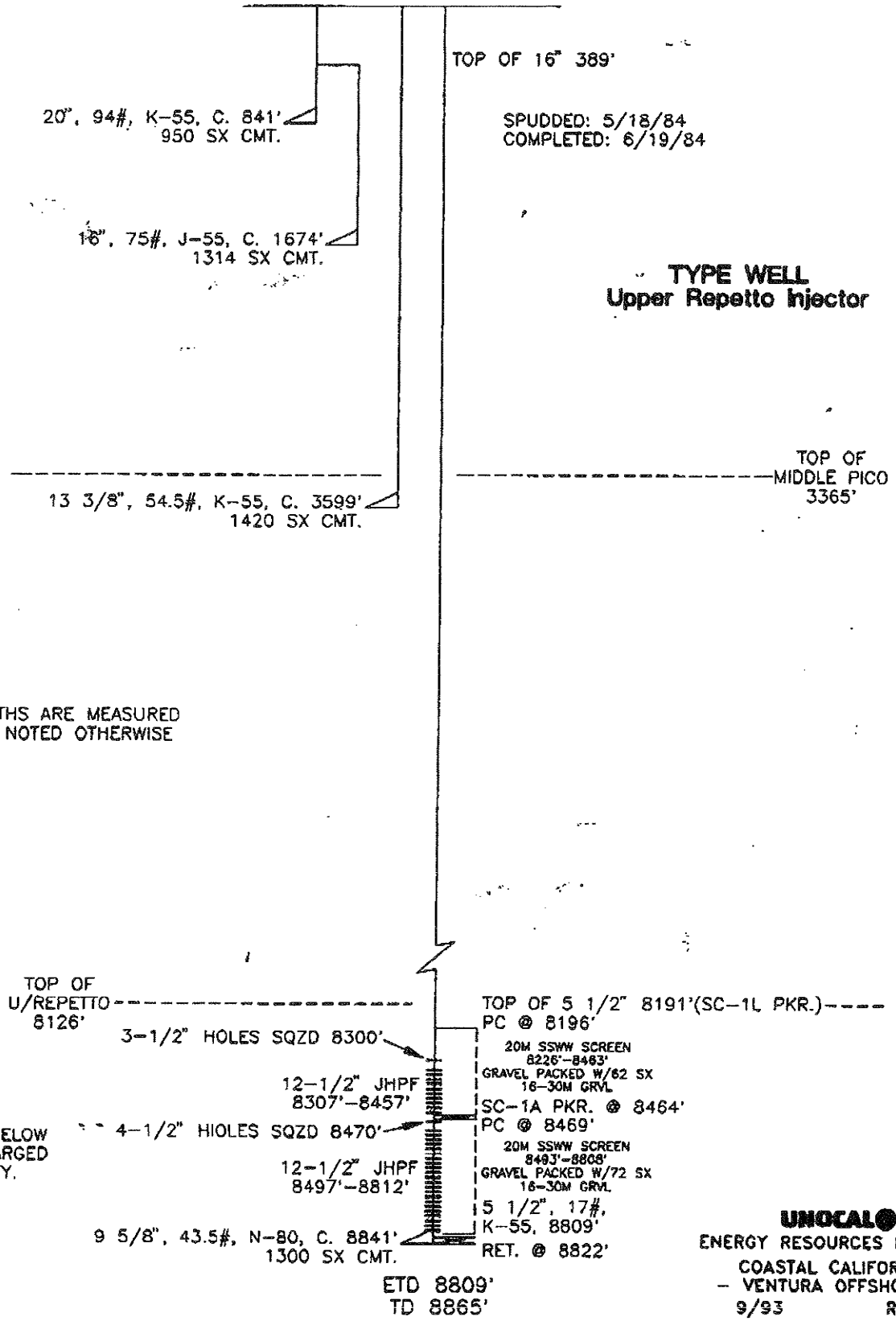
28. MU and RIH with 4-1/8" bit, 3 3-1/8" DC's, 2-7/8" DP, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. POH LD drill pipe. Release the drilling rig to the production department for completion.

Table 19: Liner Cleanout BHA

Bit	1	1	4.125					2 3/8 R Pin
Bit Sub	2.5	3.5		3.5	1.5		2 3/8 R Box	NC26 Box
DC	90	93.5		3.5	1.5		NC26 Pin	NC26 Box
DP, 6.65#, G	1500	1593.5		2.375	2.0625	3.125	NC26 Pin	NC26 Box
Crossover	2.5	1596		3.5			NC26 Pin	3 ½ IF Box
DP, 15.50#, G	6900	8496		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8499		5		5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6000	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

SANTA CLARA FIELD
Platform Gilda
Well #S-28

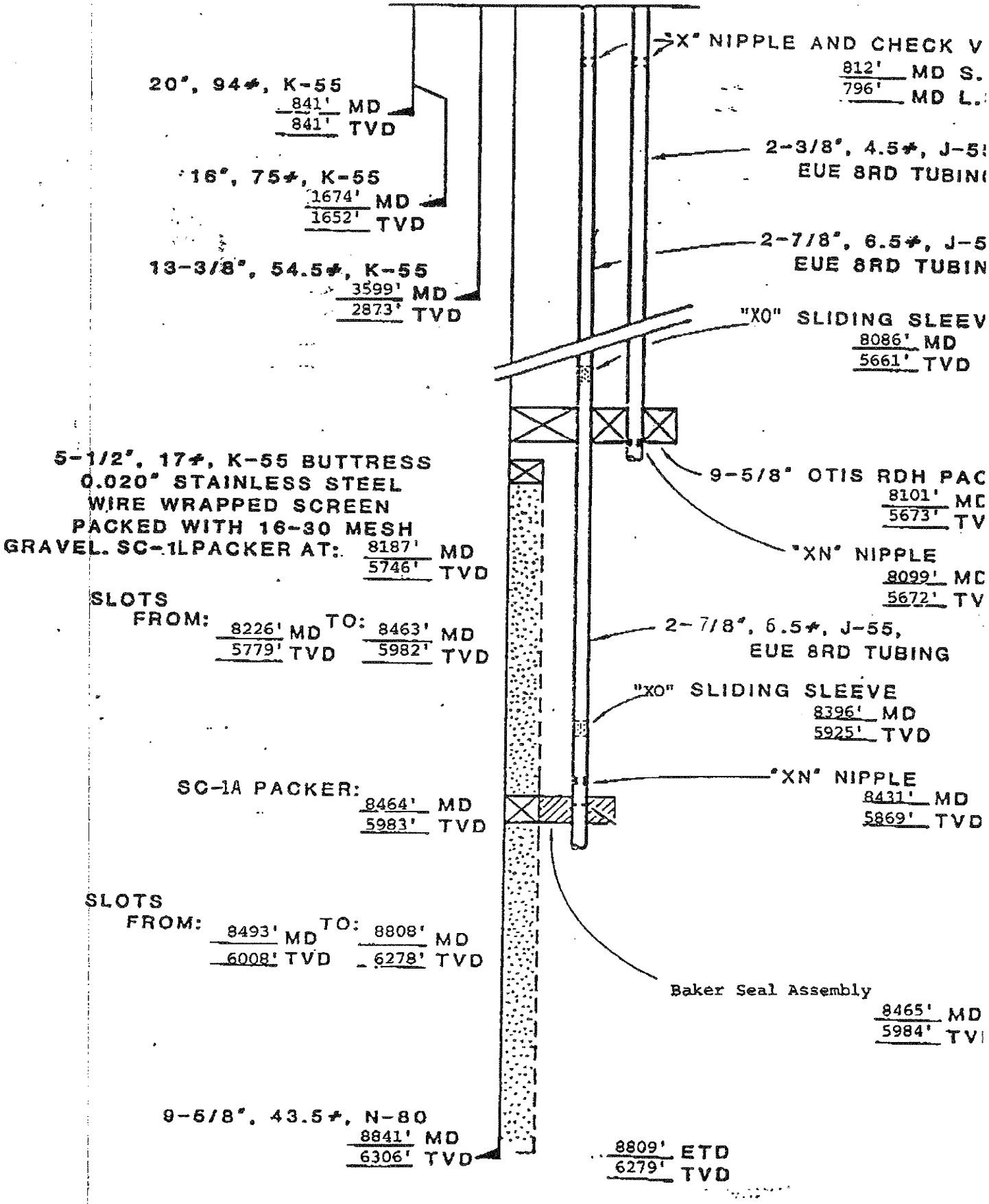
RT: 107' **Slot #58**



UNOCAL
ENERGY RESOURCES DIVISION
COASTAL CALIFORNIA
- VENTURA OFFSHORE -
9/93 RJDIII

COMPLETION DE. GN

WELL S-28 (Slot 58)



TORCH
OPERATING COMPANY

FAX COVER SHEET

Date:	December 4, 1997	**Time:**	1:56 PM
To:	**Shannon Shaw**	**Phone:**	(805) 389-7780
Company:	MMS	**Fax:**	(805) 389-7784
From:	Sabrina J. Miller	**Phone:**	(805) 934-8224
Department:	ES&RC	**Fax:**	(805) 937-8709

Number of pages including cover sheet: 12

Message:
Here is the corrected Sundry for Plat. Gilda well #S-28 as we discussed this morning. Please fax approved copy to us at the fax number listed above at you earliest convenience.

Feel free to call me with any questions.

Thank you,

Sabrina

SJS 12/9/97

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

DISTRICT
Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0215	6B	4860	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK X	WORKOVER ___					COM/WIW
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___					
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___						
	CHANGE ZONE ___	PERFORATE X	SIDETRACK X						
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___						

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041779 Y=748021 S03541E07821	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached procedure with revision to plugging procedure.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	971204

THIS SPACE FOR MMS USE ONLY

APPROVED BY David R. Flint TITLE for District Supervisor

DATE 12/4/97

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-28 (slot #58)
November 3, 1997

Proposed TD: 8592' TVD / 14500' MD

Surface Location: Slot No. 58
X= 1041778.5 Y= 748020.5

Subsurface Location: 7385 ft. FNL and 662 ft. FWL of OCS-P0215 at 8592' TVD.
X= 1050315 Y=753324

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	MD (ft)	TVD (ft)	SS (ft)	Est Pressure (psi)
LP-1	7497	5002	4895	1200-1500
LP-A	10640	6077	5970	3100-3200
LP-B	11518	6417	6310	3100-3200
LP-E	12745	7156	7050	3100-3200
LP-K	13568	7777	7670	5000-5500
LP-L	13864	8007	7900	5000-5500
LP-M	13993	8107	8000	5000-5500
LP-N	14539	8592	8285	5000-5500

Existing Casing Program:

Casing	Setting Depth (ft. MD)
20", 94#, J-55, Vetco RL-4S	0'-841'
16", 75#, J-55, Buttress	389'- 1674'
13-3/8', 54.5#, K-55, Buttress	0'- 3599'
9-5/8", 47#, N-80, Buttress	0'- 8841'

Proposed Casing Program:

Casing	Setting Depth (ft. MD)
7', 26#, S-95, Hydril 521	6500'- 13416'
5", 15#, S-95, Hydril 521	13000'- 14499'
2-7/8" SSWR screen liner, packed w/ 20-40 sd.	13300'- 14499'

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 and TESCO portable top drive over slot #58.

2. RU Wireline unit. Pull "XBR" injection valve at 796' MD from 2-7/8" long string. RIH and close "XO" Sliding sleeve at 8396.32'.

3. Run and set "XPN" blanking plug in "XN" nipple at 8115.69' TVD in 2-7/8" long string.

4. RU pump and pressure test 2-7/8" tubing to 1,000 psig for 30 minutes. RU on 2-3/8" tubing and pressure test to 1,000 psig for 30 minutes.

5. Install BPV and ND production tree. Install riser, 13-5/8", 5000 psi single gate and double gate blowout preventers, 13-5/8", 5000 psi annular blowout preventer, diverter, bell nipple, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Install test plug and pressure test the blind rams and pipe rams to 250 psi and 4700 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

6. MU and RIH with chemical cutter and cut 2-3/8" short string 5' above RDH packer. POH with wireline. POH laying down 2-3/8" tubing.

7. MU and RIH with chemical cutter and cut 2-7/8" long string 5' above RDH packer. POH with wireline. RD wireline unit.

8. Fill casing annulus with seawater. Close rams and pressure test 9-5/8" casing to 1,000 psig for 30 minutes.

9. PU 2-7/8" tubing 5 feet. RU BJ cementers and equalize 35 sack Class "G" cement plug on top of RDH packer. PU 5 stands and reverse tubing clean. WOC 4 hours. RIH and tag cement top. MMS to witness tagging of cement top. POH laying down 2-7/8" tubing.

Table 1

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	35	15.8	1.17

10. MU and RIH with 7-1/2" Section Mill, 6-1/2" shock absorber, 8 6-1/2" DC's, HWDP and 5" DP. Mill section from 6940' MD to 6990' MD. Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program and table below for fluid properties for milling section.

Table 2: Section Milling BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Section Mill	6	6		7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 3: Milling Fluid

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
Gel/Seawater	8.5- 10	28-50	N/A	0-15	0-15	0-6	<6

11. MU and RIH with underreamer. Open hole to 15". POH.

Table 4: Underreaming BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	15	7.5		6.5		4 ½ R Pin
Shock Absorber	12	18		6.5	2.25	6.5	4 ½ R Box	4 ½ IF Box
DC	240	258		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	1758		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	5234	6992		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

12. MU and RIH with OE 2-7/8" tubing tail on 5" drill pipe to 6960' MD. Equalize a 106 sacks Class "G" cement plug. Precede cement with 20 bbls sea water. Displace cement with mud. POH.

Table 5: KOP Cement

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	106	17.2	.97

13. MU and RIH with 8-1/2" bit, 8 6-1/2" DC's and 5" DP. Dress off cement plug to 6942' MD. POH.

14. MU and RIH with 8-1/2" bit and steerable directional assembly. Directional drill from KOP of 6942'MD/4840' TVD to 6962' MD/4850' TVD as per BHI directional program. Conduct formation leak of test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. RU Petrolog mudloggers, John Williams. Change hole over to Glycol Enhanced Mud system. Continue to directionally drill to 13416

MD/7749' TVD (20' above of LP-K interval 13469' TMD/ 7777' TVD. Do not drill into top of "K" interval. Neuevo Geologist, David White, to pick casing point. Circ hole clean and POH.

Table 6: Directional Drilling BHA for 8-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	9.5					4 ½ R Pin
Motor	21.5	22.5	8.25	6.75			4 ½ R Box	4 ½ IF Box
Nortrak, Stab	5	27.5	8.25	6.75	2.25		4 ½ IF Pin	4 ½ IF Box
NMCS DP	10	37.5		5	2.687	6.75	4 ½ IF Pin	4 ½ IF Box
NMXO	2.5	40		6.25	2.75		4 ½ IF Pin	4 ½ IF Pin
MPR-LWD	45	85		6.75			4 ½ IF Box	4 ½ IF Box
NMCS DP	30	115		6	2.75	6.75	4 ½ IF Pin	4 ½ IF Box
HWDP	270	385		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	420		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1650		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9217		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4199	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

Table 7: Drilling Fluid GEM

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cps)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq.ft.)	Solids (%by vol)
GEM (glycol)	9.6-12.5	40-50	4-7	15-20	10-30	9-15	<6

15. MU and RIH with underreamer and open hole to 9.5" from KOP to top 13416'MD/7749' TVD. Circulate and condition mud for running casing.

Table 8: Underreaming BHA for 9-1/2" Hole

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	6	6	9.5					4 ½ R Pin
Roller reamer	5	11	8.25	6.75			4 ½ R Box	4 ½ IF Box
HWDP	270	281		6.5	3	6.5	4 ½ IF Pin	4 ½ IF Box
Jars, Dailey	35	316		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1230	1546		5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	7567	9113		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 25.60#, G	4303	13416		5	4.00	6.625	4 ½ IF Pin	4 ½ IF Box

16. Rig up the Wiggins casing crew. MU and RIH with approximately 7000 ft. of 7 ", 26#, S95, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 9-5/8" X 7" hydraulic liner hanger and tie back receptacle to 13416' MD/ 7749' TVD'.

    a) Use a auto fill float shoe and float collar 2 joints above the shoe.

b) Place a slip-on rigid centralizer 10' above the shoe and then on every collar to the 9-5/8" casing. Use rigid centalizers in 9-5/8" x 7" liner lap.

Table 9: Casing Program for 7"

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe, "FS"	2.10	2.10			7		Hyd 521 Box
1 Jt. 7" casing	40	42.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	7	3	7	Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	40	84.3	7		7.303	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1				Hyd 521 Pin	Hyd 521 Box
1 Jt. 7" casing	6840	6926.1	7		7.303	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	6931.1				Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	6934.1					
Tie Back	6.25	6940.35					
Jars, Dailey	35	6975.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
HWDP	1500	8475.35	5	3	6.5	4 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	4941	13416.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 10: 7" Casing Properties

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
7	26	S-95	HYD 521	8600	5890	717,000	568,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum (ft-lb)	Conn. Yield Torque (ft-lb)
5,200	6,000	51,000

17. Rig up cementers and cement the 7" casing as follows:

18. Pump 20 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg. Mix and pump 580 sacks of lead cement (12.5 ppg) followed by 91 sacks of tail cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Table 11: Cement for 7" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	581	12.5	2.09
"G" + additives	91	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

19. MU and RIH with 8 1/2" bit, 3 6-1/2" DC's and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test liner top to 2500 psig for 30 minutes. POH.

20. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig.

21. Increase mud weight to 13.5ppg before drilling out casing shoe. Drill out float shoe and 10 ft of new formation. Perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

Table 12: Drilling Fluid for 6-1/8" Hole Section

Mud Type	Weight (ppg)	Visc. (sec/qt)	Fluid Loss (cc/30 min)	PV (cp)	YP (lb/100 sq. ft.)	LSR-YP (lb/100 sq. ft.)	Solids (%by vol)
GEM (glycol)	13.5-14.5	40-50	4-7	10-20	10-30	5-15	4-6

22. MU and RIH with directional assembly. Directionally drill from 7" casing shoe at 13416' MD/ 7749' TVD to total depth of 14499' MD/ 8592' TVD as per BHI directional program. Circulate and condition mud and hole for logging.

Table 13: Directional Drilling BHA for 6-1/8" Hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.5					3 ½ R Pin
Motor, M1C	19	20	6.25	4.75			3 ½ R Box	3 ½ IF Box
Stabilizer	4.5	24.5	6.25	4.75	2.25		3 ½ IF Pin	3 ½ IF Box
NM DC	15	39.5		4.75	2.687	4.75	3 ½ IF Pin	3 ½ IF Box
NMCS DP	30	69.5		4.75	2.75		3 ½ IF Pin	3 ½ IF Pin
Hangoff Sub	4	73.5		4.75	2.75	4.75	3 ½ IF Box	3 ½ IF Box
HWDP	270	343.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	378.5		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	1008.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8458.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8461.5		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6038	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

23. Rig up Schlumberger loggers and log well. RD loggers.

24. MU and RIH with underreamer and open 6-1/8" hole to 8" from 7" casing shoe at 13416' MD to TD of 14499' MD. Circulate and condition mud for running casing.

Table 14: Underreaming BHA for 8" hole Section

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Underreamer	5	5	8	4.75				3 ½ R Pin
Roller reamer	5	10	8	4.75			3 ½ R Box	3 ½ IF Box
HWDP	270	280		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
Jars, Dailey	35	315		4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	630	945		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	6900	7845		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	7848		5	4.276	6.5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6651	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

25. Rig up the Wiggins casing crew. MU and RIH with approximately 1500 ft. of 5 ", 18#, S95, flush joint casing with float shoe, landing collar/float collar placed 1 joint from bottom, 7" X 5" hydraulic liner hanger and tie back receptacle to 14499' MD/ 8592' TVD.

Table 15: Casing Program for 5" Liner

Item	Length (ft)	Cum Length (ft)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Float Shoe, "FS"	2.10	2.10			5		Hyd 521 Box
1 Jt. 5" casing	40	42.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Float Collar, "FC"	2.2	44.3	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	40	84.3	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Landing Collar, "LC"	1.8	86.1	5		5	Hyd 521 Pin	Hyd 521 Box
1 Jt. 5" casing	1282	1368.1	5	4.276	5.359	Hyd 521 Pin	Hyd 521 Box
Hanger, "H.C.S.C."	5.0	1373.1	6.18	5.25		Hyd 521 Pin	Hyd 521 Box
Setting Adapter,	3.0	1376.1					
Tie Back	6.25	1382.35					
Jars, Dailey	35	1417.35	4.75	2.5	4.75	3 ½ IF Pin	3 ½ IF Box
HWDP	900	2317.35	3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G-105	6182	8499.35	3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8502.35	5	4.276	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G-105	5997	14499.35	5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

Table 16: Casing Properties for 5"

Size (in)	Weight (ppf)	Grade	Conn.	Burst (psi)	Collapse (psi)	Tensile Pipe Yield (lb)	Conn Tensile Yield (lb)
5	18	S-95	HYD 521	12,040	11,880	501,000	433,000

Conn. MU Torque Minimum (ft-lb)	Conn. MU Torque Optimum(ft-lb)	Conn. Yield Torque (ft-lb)
6,100	7,000	23,500

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every joint of the 7" casing. Use rigid centalizers in 7" x 5" liner lap.

26. Rig up cementers and cement the 5" casing as follows:

A) Pump 10 bbls of UltraFlush II spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 317 sacks of Class "G" cement (15.8 ppg). Actual volume should be based on the open hole caliper log.

Table 17: Cement for 5" Casing

Cement Type	Volume (sacks)	Density (ppg)	Yield (cf/sack)
"G" + additives	138	15.8	1.15

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

27. MU and RIH with 6-1/8" bit, 3 4-3/4" DC's, HWDP 3-1/2" and 5" DP. RIH and drill out cement to top of liner. Circulate hole clean. Close pipe rams and pressure test 5" liner lap to 2500 psig. POH.

Table 18: Liner Lap Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	6.125					2 3/8 R Pin
Bit Sub	2.5	3.5		4.75	2.5		2 3/8 R Box	3 ½ IF Box
DC	90	93.5		4.75			3 ½ IF Pin	3 ½ IF Box
HWDP	900	993.5		3.5	2.0625	4.75	3 ½ IF Pin	3 ½ IF Box
DP, 15.50#, G	7450	8443.5		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8446.5		5	2.5	5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6053	14499.5		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

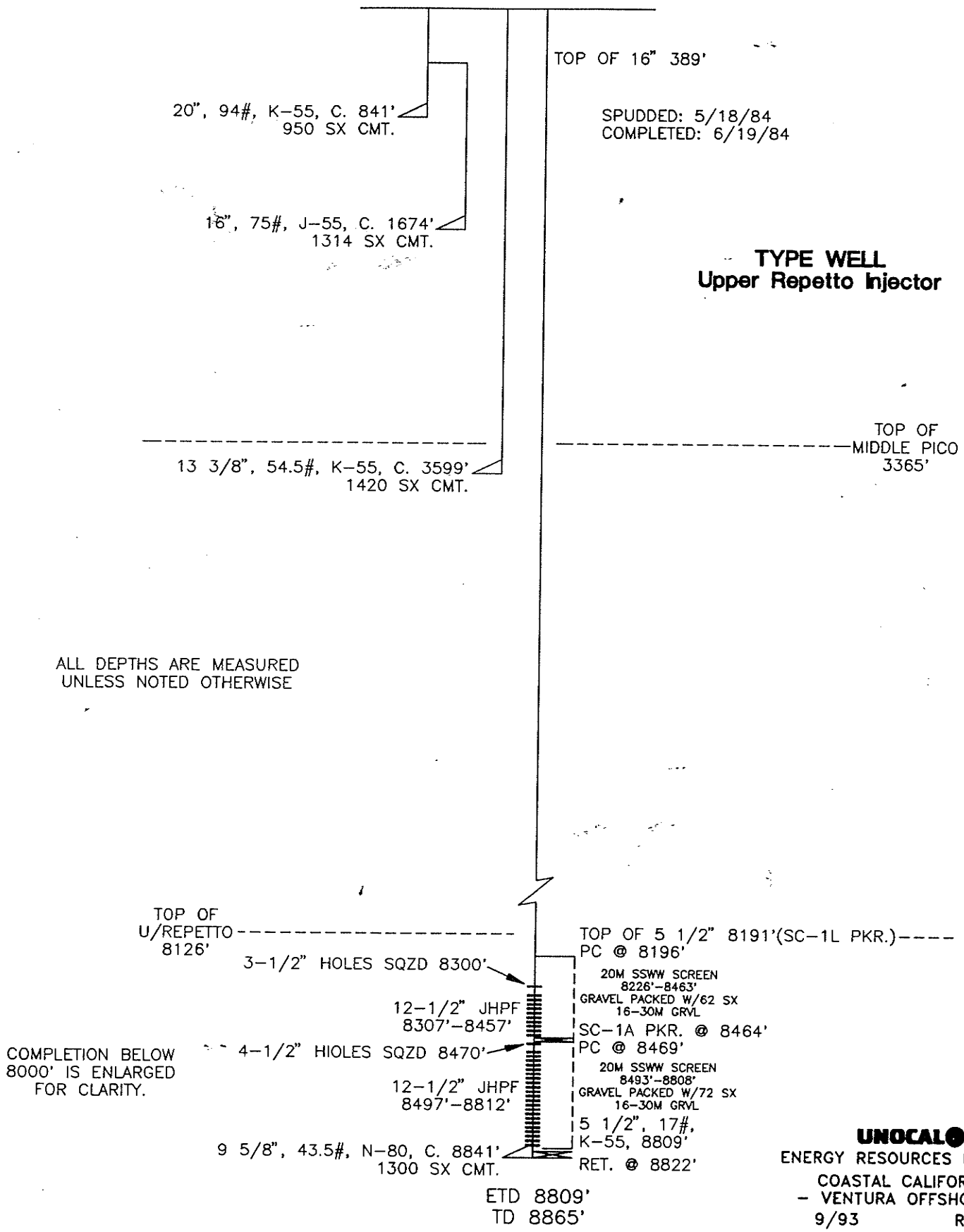
28. MU and RIH with 4-1/8" bit, 3 3-1/8" DC's, 2-7/8" DP, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. POH LD drill pipe. Release the drilling rig to the production department for completion.

Table 19: Liner Cleanout BHA

Item	Length (ft)	Cum Length (ft)	Gauge OD (in)	Body OD (in)	Body ID (in)	Tool Joint OD (in)	Connection	
Bit	1	1	4.125					2 3/8 R Pin
Bit Sub	2.5	3.5		3.5	1.5		2 3/8 R Box	NC26 Box
DC	90	93.5		3.5	1.5		NC26 Pin	NC26 Box
DP, 6.65#, G	1500	1593.5		2.375	2.0625	3.125	NC26 Pin	NC26 Box
Crossover	2.5	1596		3.5			NC26 Pin	3 ½ IF Box
DP, 15.50#, G	6900	8496		3.5	2.602	5	3 ½ IF Pin	3 ½ IF Box
Crossover	3	8499		5		5	3 ½ IF Pin	4 ½ IF Box
DP, 19.50#, G	6000	14499		5	4.276	6.5	4 ½ IF Pin	4 ½ IF Box

SANTA CLARA FIELD
Platform Gilda
Well #S-28

RT: 107' **Slot #58**

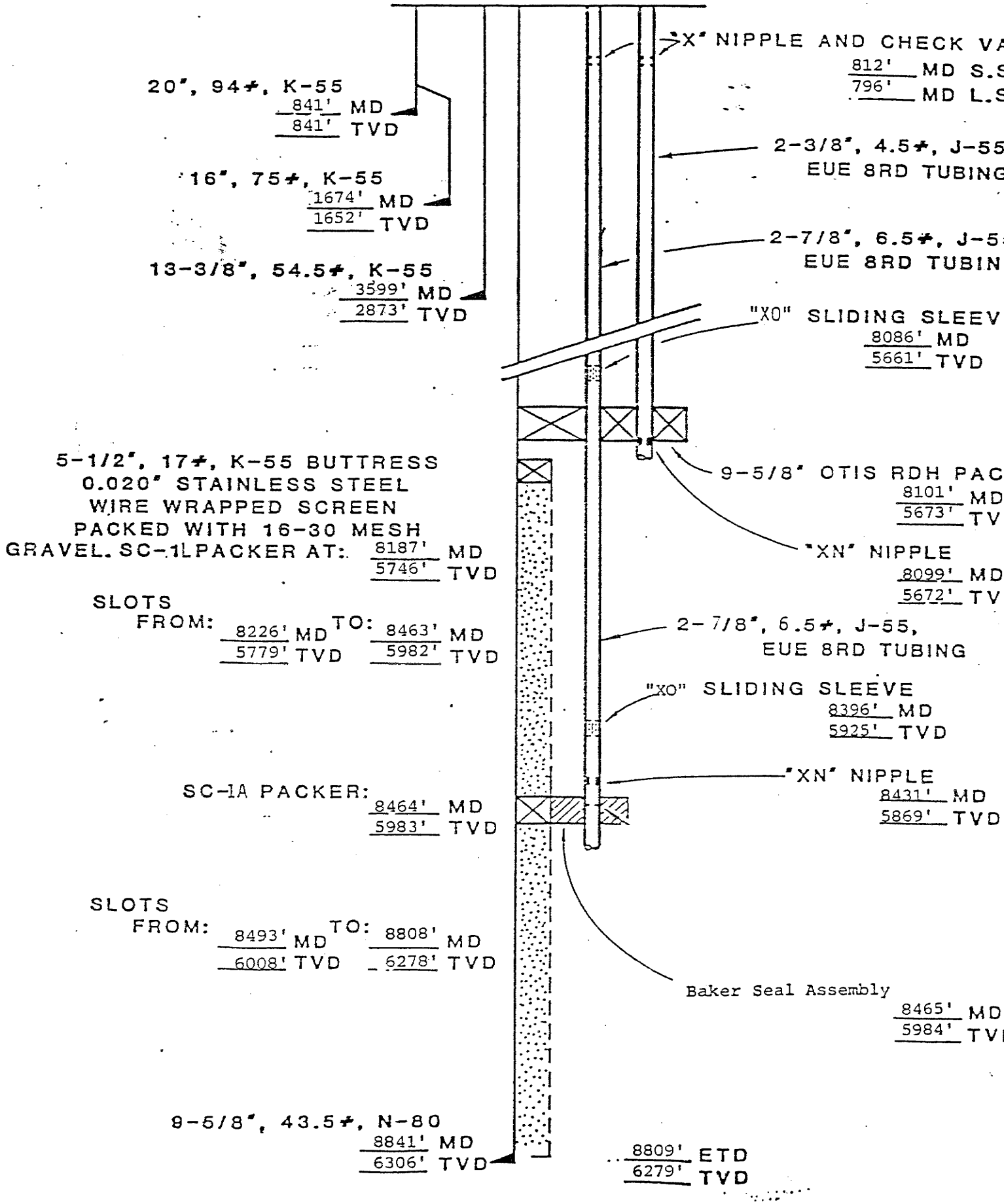


UNOCAL
ENERGY RESOURCES DIVISION
COASTAL CALIFORNIA
- VENTURA OFFSHORE -
9/93 RJDIII

PLATFORM GRLA

COMPLETION DESIGN

WELL S-28 (Slot 58)



SJS 11/10/97

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with DISTRICT one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20582-01/S01	S-28	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK (SJS)						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE		FRACTURE	X	PLUG BACK	X	WORKOVER
	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER
	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION		COM/WIW
	CHANGE ZONE		PERFORATE	X	SIDETRACK*	X	
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X = 1041779, Y = 748021 S03541E07821 (SJS)	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached package

RECEIVED
OCT 24 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Gary Hertfelder	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	971022

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

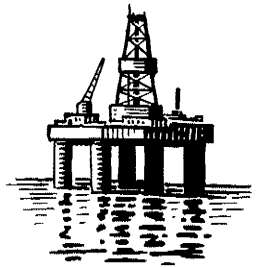
DATE 11/14/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.
Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

*All revisions are as per telecon w/S. Miller on 11/14/97. SJS

COPY TO REGION



Spud
5-18-84
LA 6862

API# 0431120582*
Los Angeles Block 6862 & 6863
Well# S028 & S028 WB01- Lease# P00216 & 15
DCOR, L.L.C.

— Directional Survey
* Estimated Date

ST @ 6988'
12-19-97

#S028 P00216
8865' MD
6327.1' TVD
6-1-84
'00'
ST00BP00
LA 6862

#S028 WB01 P00215
14610' MD
8672.18' TVD
2-05-98
'01'
ST01BP00
LA 6863

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: September 30, 2002

1. 1ST COMP. RECOMPLETION X ABANDONMENT CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-20582-01/S01	S-28 WB01	Nuevo Energy 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01546

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1050326 Y=753372	P-0215	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=1058832 Y=758270	P-0215 SB 6/27/13 S	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	3/21/1998	3/22/98	12/19/97

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
	2/5/98	MD 14610' TVD 8672.18'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
13896	13,956'	8118'	8164'
13,889'	13,969'	8113'	8173'
14,349'	14,409'	8465'	8513'
14,343'	14,242' N, 8 2Y MS 6/27/13	8461'	8524'

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	LP-M, LP-N

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
26"	20"	94#	K-55	841'	C + additives	950 SXS
22"	16"	75#	J-55	1674'	C + additives	1314 SXS
20"	13 /8"	54.5#	K-55	3599'	C + additives	1420 SXS
12 1/4"	9 5/8"	43.5#	N-80	8841'	C + additives	1300 SXS

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
6 1/8"	2 3/8"	4.7#	L-80	13,971'	
6 1/8"	2 7/8"	6.5#	L-80	13,805'	12,840

RECEIVED
NOV 14 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

FORM MMS -125 (September 1999) (Replaces all previous editions of Form MMS-125, which will not be used)

WELL SUMMARY REPORT (continued)

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
9 7/8"	7"	26#	P-110	6392'	13400'	C + additives	1096 SXS
6 1/8"	5"	6.5#	L-80	12860'	14608'	C + additives	135 SXS

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
7251'	7470'	BP set @ 7470' W/Class G	78 SXS
14349'	14409'	Frac Pack W/20/40 gravel	64,000 LBS
13896'	13956'	Frac Pack W/20/40 gravel	83,000 LBS

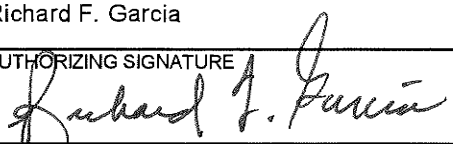
77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

TP log F/13338' T/14580', Platform Express F/14580' T/13397', USIT/CBT/GR/CCL F/14520' T/12846', GR/CCL F/14370' T/14000' Directional Survey F/14610' T/0, Mud logs.

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
LP-K1	13575'	7867'	13732'	7990'	Sandstone, siltstone, oil, gas, water
LP-L	13732'	7990'	13895'	8117'	Sandstone, siltstone, oil, gas, water
LP-M	13895'	8117'	14242'	8381'	Sandstone, siltstone, oil, gas, water
LP-N	14242'	8381'	14454'	8548'	Sandstone, siltstone, oil, gas, water

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
LP-B	10402'	6289'	LP-K	13410'	7741'
LP-D	11942'	6923'	LP-L	13732'	7990'
LP-F	12788'	7302'	LP-M	13895'	8117'
LP-G	12932'	7391'	LP-N	14242'	8381'

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Richard F. Garcia	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE 	31. DATE 11/11/2002

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

FORM MMS -125 (September 1999) (Replaces all previous editions of Form MMS-125, which will not be used)

Rework Summary
Platform Gilda OCS P-0216
Well # S-28

3/27/02	Move equipment onto drill deck. Prepare derrick for removal. Remove derrick and truck. Skid rig South. Tear down sub-base.
3/28/02	Tear down sub-base. RU sub-base & rig. Skid rig for NU. Bull head tbg with 80 Bbls of filtered seawater.
3/29/02	Bleed down well & install BPV. NU/ND tree. Nipple BOPE. Skid rig over well S-28. Tighten earthquake clamps and raise derrick. Install guide wires. Spot equipment. Install V-door. Tighten all BOP connectors. MU 2 7/8" test assy. RU test manifold on koomey. Test BOPE & repair leaks.
3/30/02	Test BOPE as per MMS regulations F/250L T/3000H. Finish testing BOPE. Mix 6% KCL. Remove BPV. PU on tbg 2 feet. Equalize tbg. Pump KCL down tbg taking returns to production. Mix 350 Bbls of 6% KCL. Change well over to production. Pull hanger. POOH W/production string.
3/31/02	POOH W/production string and LD 31 joints of 2 3/8" tbg & seal assy. MU 9 5/8" scraper. Mix 180 Bbls of KCL. RIH to top of 7" liner @ 6392'. Reverse circulate 1 ½" tbg volumes to active pits. POOH and LD 2 7/8" tbg and scraper.
4/1/02	RIH W/mule shoe T/6300'. POOH & LD 2 7/8" production string. MU 7" scraper. Back load work boat with 2 7/8" tbg. Mix 350 Bbls of 6% KCL for reversing. RIH W/7" scraper. PU 2 7/8" L-80 rabbit tbg. RIH, PU & rabbit 2 7/8" L-80 tbg.
4/2/02	RIH W/7" scraper T/12,525. PU 2 7/8" L-80 tbg. Reverse circulate 200 Bbls of 6% KCL. POOH. LD scraper & bumper sub. PU Reda pump. RU sheaves for cable, Pruett & chemical line. Plug in cable. Band flat guards. Finish picking up pump. Band flat guards. RU cannon clamp tools. RU hydro test. RIH W/production string. Test tbg T/5000 PSI. Drift same.
4/3/02	RIH W/pump. Test tbg T/5000 PSI. Drift same. Splice cable reel to reel. MU SSSV & packer. Strip electric cable through packer.
4/4/02	Splice cable at packer. RIH W/production string. Test tbg T/5000 PSI. Drift same. Make up EFT connector. Install chemical, Pruett, control line to hanger. Land hanger. Run in studs with BPV in place. Prep rig to skid. Skid rig for ND. NU BOPE. Found seal retaining up ¼ on one side of hanger. Attempt to work ring down to run studs in (would not go). NU BOPE. Skid rig over hole. RU guide wires, koomey, choke manifold and set stairs.
4/5/02	Function test BOPE. Install landing joint. Break test BOP F/250L T/3000H.

	Back out studs. Pull hanger to floor. Redress hanger. Land hanger. Run in studs. ND BOP. Install bonnett, tree and test to 2000 PSI. Test tree to 3000 PSI. Prep rig for move. Fluid to surface @ 22:50 hours. RDMO.
4/7/02	RIH with cross plug & set. Test packer with 3500 PSI for 10 minutes. RD wireline.

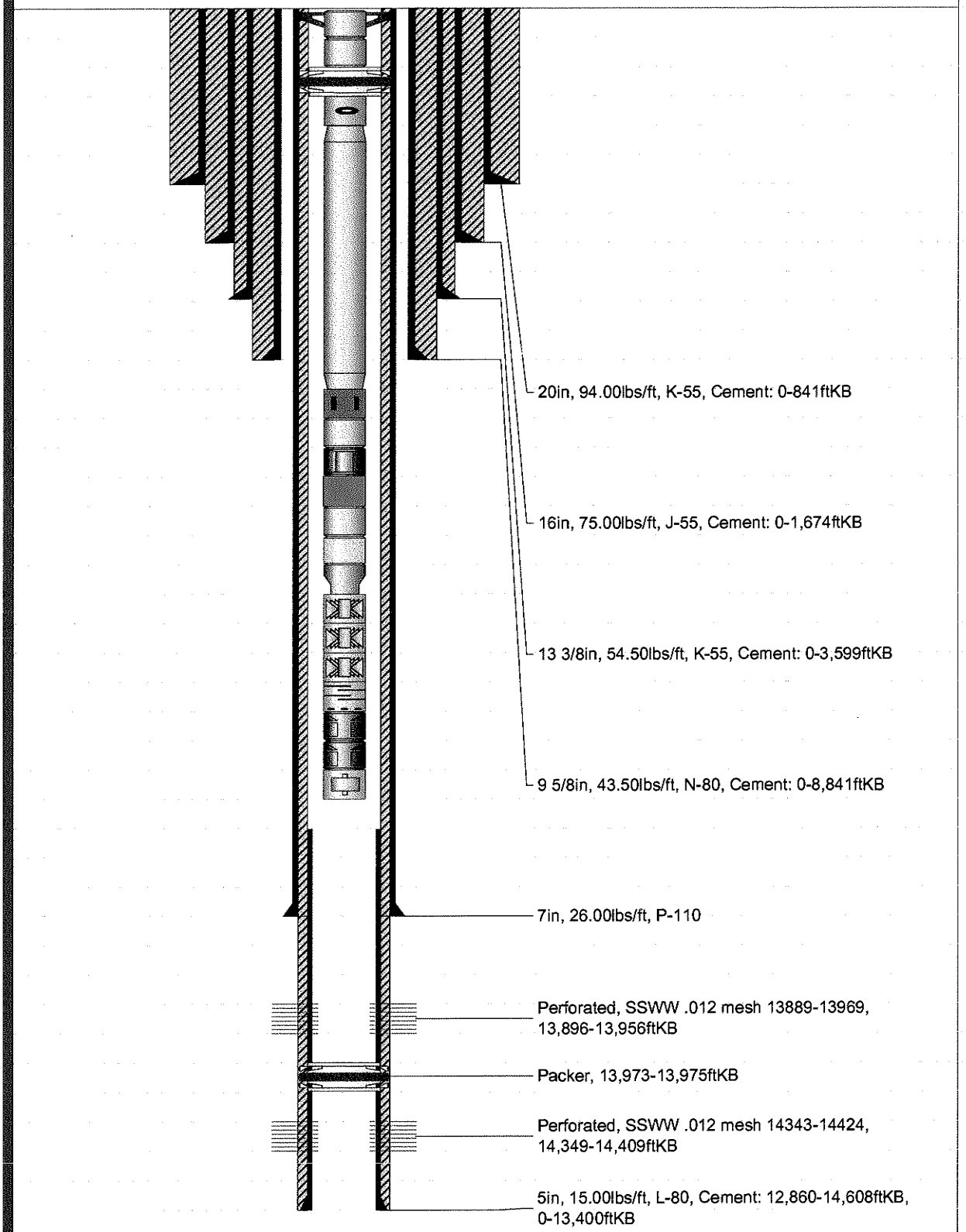
Gilda S-28

Current Schematic

API/UWI	Field Name	Operator	State/Province	Lease
0431120582-01/S01	Santa Clara	Nuevo Energy	California	OCS p-0216

Comment: Recompleted 3/21/98

Main Hole: 4/4/02



SJS 5/19/98

MINERALS MANAGEMENT SERVICE DISTRICT
WELL SUMMARY REPORT Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date:

1. 1ST COMP. x RECOMPLETION ABANDONMENT CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-20582-01/S01	3. WELL NO. S-28WB01	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) NUEVO ENERGY 201 S. BROADWAY SANTA MARIA, CA 93455
8. FIELD NAME Santa Clara	9. UNIT NUMBER 891012369A	10. MMS OPERATOR NUMBER 01546	

COPY TO REGION

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1050322.97 Y=753371.72 723'FWL 6948'FNL	P-0215	6B	4860	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=1050311 Y=753213 711'FWL 7107'FNL	P-0215	6B	4860	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	980321	980322	971219

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
971219	980205	MD 14610' TVD 8672.18'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
14349'	14409'	8465'	8512'
13896'	13956'	8118'	8163'

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	LP-M, LP-N

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
26"	20"	94#	K-55	841'	Class "G"	950 sks
22"	16"	75#	J-55	1674'	Class "G"	1314 sks
20"	13 3/8"	54.5#	K-55	3599'	Class "G"	1420 sks
12 1/4"	9 5/8"	47#	N-80	8841'	Class "G"	1300 sks

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
6 1/8"	2 7/8"	6.5#	L-80	13805'	N/A
6 1/8"	2 3/8"	4.7#	L-80 EUE	13971'	13805'

FORM MMS -125 (August 1993) (Replaces Form MMS-330 which will not be used)

CONFIDENTIAL

WELL SUMMARY REPORT

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
9 7/8"	7"	26#	P110 Hyd.	6392'	13400'	Class "G"	1096 sks
6 1/8"	5"	15#	L-80 Hyd.	12860'	14608'	Class "G"	135 sks
5"	2 3/8"	4.7#	N-80	13889'	13969'	N/A	N/A
5"	2 3/8"	4.7#	N-80	14343'	14424'	N/A	N/A

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
7251'	7470'	BP set @ 7470' w/Class G	78 sks
14349'	14409'	Frac pack w/ 20/40 gravel	64,000 lbs
13896'	13956'	Frac pack w/ 20/40 gravel	83,000 lbs

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

TP Log f/13338' to 14580'; Platform Express f/14580' to 13397'; USIT/CBT/GR/CCL f/14520' to 12846'; GR/CCL f/14370' to 14000' Directional Survey f/14610' to 0'; Mud Logs

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
LP-K1	13575'	7867'	13732'	7990'	Sandstone, siltstone, oil, gas, water
LP-L	13732'	7990'	13895'	8117'	Sandstone, siltstone, oil, gas, water
LP-M	13895'	8117'	14242'	8381'	Sandstone, siltstone, oil, gas, water
LP-N	14242'	8381'	14454'	8548'	Sandstone, siltstone, oil, gas, water

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
LP-B	10402'	6289'	LP-K	13410'	7741'
LP-D	11942'	6923'	LP-L	13732'	7990'
LP-F	12788'	7302'	LP-M	13895'	8117'
LP-G	12932'	7391'	LP-N	14242'	8381'

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	980422

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain geologic, well test, and well-completion equipment data. This information will be used by MMS District Supervisors to ensure that they have accurate data and information on the wells under their jurisdiction and to ensure compliance with approved plans. It is also used to evaluate remedial action in the event of well-equipment failure or well-control loss. Response to this request is mandatory (43 U.S.C. 1334). Properietary data are covered under 30 CFR 250.18.

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OCS-P0216
PLATFORM GILDA
WELL S-28
LOCATION OF WELL

AT SURFACE:	
Lambert Cal 6 Coordinates	X = 1041778.5 Y = 748020.5
KICKOFF POINT:	4573' TVD / 6942' MD
Lambert Cal 6 Coordinates	X = 1046014 Y = 748848
TARGET NO. 1: LP-M SAND	8107' TVD / 13416' MD 07385 FNL & 00662 FWL of OCS-P0215
Lambert Cal 6 Coordinates	X = 1050262 Y = 752935
BOTTOM HOLE LOCATION:	8592' TVD / 14499' MD 06996 FNL & 00715 FWL of OCS-P0215
Lambert Cal 6 Coordinates	X = 1050315 Y = 753324

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-28
Redrill
September 17, 1997

Proposed TD: 8592' TVD / 14500' MD

Surface Location: Slot No. 58
X= 1041778.5 Y= 748020.5

Subsurface Location: 06996 ft. FNL & 00715 ft. FWL of OCS-P0215 at 8592' TVD.
X= 1050315 Y=753324

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	MD	TVD	SS	Est. Press.(psi)
LP-1	7497'	5002'	4895'	1200-1500
LP-A	10640'	6077'	5970'	3100-3200
LP-B	11518'	6417'	6310'	3100-3200
LP-E	12745'	7156'	7050'	3100-3200
LP-K	13469'	7777'	7670'	5000-5500
LP-L	13864'	8007'	7900'	5000-5500
LP-M	13993'	8107'	8000'	5000-5500
LP-N	14499'	8592'	8285'	5000-5500

Existing Casing Program:

20", 94#, J-55, Vetco RL4S		0-~~750~~841' TMD
16", 75#, J-55, Butt.	389'	0-~~1750~~1674' TMD
9 5/8", 47#, N-80, Butt.	3599'	0-8841'

54.5#, K-55, 13 3/8"

Proposed Casing Program:

7-5/8", 33.7#, N80, HYD 511	6500' - 13542'
5-1/2", 20#, N80, HYD 511	13000' - 14449'

Proposed Liner Program:

3-1/2" SSWW Screen gravel packed with 20-40 gravel

TORCH OPERATING COMPANY
PLATFORM GILDA

S66 (Rev. A6)
slot #58
OFFSHORE SANTA BARBARA
CALIFORNIA

S U M M A R Y C L E A R A N C E R E P O R T

by
Baker Hughes INTEQ

Your ref : S66 (Rev. A6)
Our ref : prop3116
License :

Date printed : 14-Oct-97
Date created : 13-Oct-97
Last revised : 14-Oct-97

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.763,w119 25 6.300
Slot Grid coordinates are N 748020.835, E 1041778.491
Slot local coordinates are 33.20 N 44.50 E

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Should reference Grid North.

Object wellpath	Closest approach with 3-D Minimum Distance method			
	Last revised	Distance	M.D.	Diverging from M.D.
S-64 ST,south block,S-64,PLATFORM GILDA	26-Aug-97	1891.2	6942.8	6942.8
S-56,south block,S56,PLATFORM GILDA	5-Aug-97	1891.2	6942.8	6942.8
0,south block,,PLATFORM GILDA	5-Sep-97	2577.4	7300.0	7300.0
S-54,south block,S-11 (S-54),PLATFORM GILDA	23-Jul-97	1951.1	6942.8	6942.8
S11,south block,S11,PLATFORM GILDA	23-Jul-97	1951.1	6942.8	6942.8
S-18,south block,S18,PLATFORM GILDA	23-Jul-97	1118.2	6942.8	6942.8
S-22ST,south block,S22,PLATFORM GILDA	23-Jul-97	1605.1	6942.8	6942.8
S-22ST2,south block,S22,PLATFORM GILDA	23-Jul-97	1605.1	6942.8	6942.8
DMWD SIDETRACK,south block,S-60 SIDETRACK,PLAT	23-Jul-97	1470.5	8070.0	8070.0
S-22,south block,S22,PLATFORM GILDA	23-Jul-97	1605.1	6942.8	6942.8
DMWD,south block,S-60,PLATFORM GILDA	23-Jul-97	1432.8	7932.0	7932.0
s38,south block,S38,PLATFORM GILDA	23-Jul-97	1041.7	6942.8	6942.8
TEST,south block,EASTERN WELL,PLATFORM GILDA	24-Oct-96	4715.6	6942.8	6942.8
S63,south block,S63,PLATFORM GILDA	23-Jul-97	5683.9	6942.8	13596.0
S-61,south block,S61,PLATFORM GILDA	23-Jul-97	4167.4	6942.8	13587.0
S-65,south block,S65,PLATFORM GILDA	23-Jul-97	4522.0	6942.8	6942.8
S-53 OH,south block,S53,PLATFORM GILDA	23-Jul-97	5728.9	6942.8	13644.0
S-89,south block,S53,PLATFORM GILDA	23-Jul-97	5728.9	6942.8	13644.0
S-91 MWD,south block,S-91,PLATFORM GILDA	19-May-97	4652.2	6942.8	13704.0
S67,south block,S67,PLATFORM GILDA	19-May-97	4652.2	6942.8	13704.0
S-83 (S-67RD),south block,S67,PLATFORM GILDA	7-Apr-97	4652.2	6942.8	13704.0
S-91 ST1 MWD,south block,S-91 ST1,PLATFORM GIL	19-May-97	4652.2	6942.8	13704.0
S-44ST,south block,S44,PLATFORM GILDA	6-Aug-96	2897.7	6942.8	14000.0
S-44,south block,S44,PLATFORM GILDA	6-Aug-96	2897.7	6942.8	6942.8
SIDETRACK,south block,S-85 ST,PLATFORM GILDA	23-Jul-97	4593.8	6942.8	13689.0
SIDETRACK 2,south block,S-85 ST2,PLATFORM GILD	23-Jul-97	4593.8	6942.8	13689.0
S49,south block,S49,PLATFORM GILDA	23-Jul-97	4452.2	6942.8	10479.0
S-85 MWD,south block,S-85,PLATFORM GILDA	23-Jul-97	4593.8	6942.8	13689.0

S59ST1,south block,S59,PLATFORM GILDA	23-Jul-97	5519.2	6942.8	13872.0
S59,south block,S59,PLATFORM GILDA	23-Jul-97	5519.2	6942.8	13872.0
S-37,south block,S-37,PLATFORM GILDA	23-Jul-97	5693.8	6942.8	13524.0
MULTISHOT GYRO S-37,south block,S-37,PLATFORM	23-Jul-97	5991.1	6942.8	6942.8
S-77,south block,S-37,PLATFORM GILDA	23-Jul-97	5687.3	6942.8	13779.0
DMWD,south block,S-77 RD,PLATFORM GILDA	23-Jul-97	5687.3	6942.8	13779.0
S-79 ST2,south block,S-79 ST2,PLATFORM GILDA	23-Jul-97	5711.7	6942.8	13800.0
S-79 MWD,south block,S-79,PLATFORM GILDA	23-Jul-97	5711.7	6942.8	13800.0
S41,south block,S41,PLATFORM GILDA	23-Jul-97	5711.7	6942.8	13800.0
S-79 ST 1,south block,S-79 ST 1,PLATFORM GILDA	23-Jul-97	5711.7	6942.8	13800.0
S-69,south block,S-69,PLATFORM GILDA	23-Jul-97	5695.7	6942.8	6942.8
S-42,south block,S42,PLATFORM GILDA	23-Jul-97	971.1	14499.9	14499.9
S-3 ST3,south block,S3,PLATFORM GILDA	23-Jul-97	2294.4	6942.8	6942.8
S-3 ST2,south block,S3,PLATFORM GILDA	23-Jul-97	2294.4	6942.8	6942.8
S-3 ST1,south block,S3,PLATFORM GILDA	23-Jul-97	2296.8	6942.8	6942.8
S-3 OH,south block,S3,PLATFORM GILDA	23-Jul-97	2475.9	6942.8	6942.8
S-71,south block,S71,PLATFORM GILDA	23-Jul-97	5662.8	6942.8	13752.0
S-71G,south block,S71,PLATFORM GILDA	30-Oct-96	5707.7	6942.8	13755.0
S-14,south block,S14,PLATFORM GILDA	23-Jul-97	815.9	6942.8	6942.8
S-14ST,south block,S14,PLATFORM GILDA	23-Jul-97	815.9	6942.8	6942.8
S27F,south block,S27,PLATFORM GILDA	23-Jul-97	5629.1	6942.8	13788.0
S-27,south block,S27,PLATFORM GILDA	23-Jul-97	5627.7	6942.8	13785.0
S-23ST,south block,S23,PLATFORM GILDA	23-Jul-97	5547.6	6942.8	6942.8
S-23,south block,S23,PLATFORM GILDA	23-Jul-97	5547.6	6942.8	6942.8
S8,south block,S8,PLATFORM GILDA	23-Jul-97	2326.8	6942.8	6942.8
S-46,south block,S46,PLATFORM GILDA	23-Jul-97	3604.4	6942.8	6942.8
S-4,south block,S4,PLATFORM GILDA	23-Jul-97	4118.5	6942.8	6942.8
S-33RD,south block,S33 RD,PLATFORM GILDA	23-Jul-97	5633.6	6942.8	13638.0
S-33,south block,S33,PLATFORM GILDA	23-Jul-97	5633.6	6942.8	13638.0
S-21,south block,S21,PLATFORM GILDA	23-Jul-97	5250.0	6942.8	6942.8
S13,south block,S13,PLATFORM GILDA	23-Jul-97	4996.7	6942.8	10449.0
S45,south block,S45,PLATFORM GILDA	23-Jul-97	5348.5	6942.8	10749.0
S31,south block,S31,PLATFORM GILDA	23-Jul-97	5505.5	6942.8	6942.8
S17,south block,S17,PLATFORM GILDA	23-Jul-97	5579.4	6942.8	13629.0
S-43,south block,S43,PLATFORM GILDA	23-Jul-97	5528.0	6942.8	13551.0
S15,south block,S15,PLATFORM GILDA	23-Jul-97	5482.3	6942.8	6942.8
S-25,south block,S25,PLATFORM GILDA	23-Jul-97	5631.1	6942.8	13848.0
S-47,south block,S47,PLATFORM GILDA	23-Jul-97	5747.2	6942.8	6942.8
S-51,south block,S51,PLATFORM GILDA	23-Jul-97	5683.4	6942.8	13674.0
S7,south block,S7,PLATFORM GILDA	23-Jul-97	3451.6	6942.8	6942.8
S12,south block,S12,PLATFORM GILDA	23-Jul-97	1681.3	6942.8	6942.8
S6,south block,S6,PLATFORM GILDA	23-Jul-97	2951.7	6942.8	6942.8
S26,south block,S26,PLATFORM GILDA	23-Jul-97	3239.7	6942.8	6942.8
S30,south block,S30,PLATFORM GILDA	23-Jul-97	4410.4	6942.8	6942.8
S24,south block,S24,PLATFORM GILDA	23-Jul-97	869.1	6942.8	6942.8
S-29,south block,S29,PLATFORM GILDA	23-Jul-97	5694.8	6942.8	13842.0
S39,south block,S39,PLATFORM GILDA	23-Jul-97	5307.0	6942.8	6942.8
S57,south block,S57,PLATFORM GILDA	23-Jul-97	5207.1	6942.8	6942.8
S-32,south block,S32,PLATFORM GILDA	23-Jul-97	3465.8	6942.8	6942.8
S35,south block,S35,PLATFORM GILDA	23-Jul-97	5557.8	6942.8	13515.0
S-10,south block,S10,PLATFORM GILDA	23-Jul-97	1788.5	6942.8	6942.8
S-50,south block,S-10 (S-50),PLATFORM GILDA	23-Jul-97	1788.5	6942.8	6942.8
S16,south block,S16,PLATFORM GILDA	23-Jul-97	5379.1	6942.8	6942.8
S-75,south block,S75,PLATFORM GILDA	23-Jul-97	5600.6	6942.8	6942.8
S2,south block,S2,PLATFORM GILDA	23-Jul-97	3254.2	6942.8	6942.8
S-5,south block,S5,PLATFORM GILDA	23-Jul-97	4139.7	6942.8	6942.8
S-9,south block,S9,PLATFORM GILDA	23-Jul-97	1469.5	6942.8	6942.8
S-1,south block,S1,PLATFORM GILDA	23-Jul-97	4417.4	6942.8	6942.8
S-19,south block,S19,PLATFORM GILDA	23-Jul-97	4649.0	6942.8	6942.8
S-55,south block,S55,PLATFORM GILDA	23-Jul-97	4564.7	6942.8	6942.8
S-48,south block,S-40&ST (S48),PLATFORM GILDA	23-Jul-97	2237.1	6942.8	6942.8
S-40,south block,S40,PLATFORM GILDA	6-Aug-96	2237.1	6942.8	13512.0
S-40ST,south block,S40,PLATFORM GILDA	30-Oct-96	2237.1	6942.8	14200.0
S-36ST,south block,S36,PLATFORM GILDA	6-Aug-97	721.7	8085.0	8085.0
S-36,south block,S36,PLATFORM GILDA	23-Jul-97	595.7	6942.8	7653.0
S20,south block,S20,PLATFORM GILDA	23-Jul-97	2170.6	6942.8	6942.8
S-34,south block,S34,PLATFORM GILDA	23-Jul-97	408.7	6942.8	6942.8
S-62 OH,south block,S-62,PLATFORM GILDA	23-Jul-97	3447.1	6942.8	6942.8
S-52 (S-62),south block,S-52 (S-62 RD),PLATFOR	25-Apr-97	3420.7	6942.8	14499.9
S-62 RD2,south block,S-62 RD2,PLATFORM GILDA	6-Aug-97	3451.6	6942.8	13869.0
S-28,south block,S28,PLATFORM GILDA	23-Jul-97	0.0	6942.8	6942.8

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 over slot #86. Kill well with sea water.

2. Install BPV and ND production tree. Install 13 5/8", 5000 psi single gate and double gate, 13 5/8", 5000 psi annular blowout preventer, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Test the blind rams and casing to 250 psi and 1000 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

3. POH with 2-3/8" short string and LD. PU 20,000 lbs over string weight on 2-7/8" long string and unset Otis RDH packer set at 8101' MD. POH with 2-7/8" long string and packer.

Note:

If packer does not pull free. Re-land tubing. MU and RIH with chemical cutter and cut 2-7/8" tubing 90' below packer. POH with wireline. PU on 2-7/8" tubing and recover packer. If packer is not free, RIH with chemical cutter and cut 2-7/8" tubing pup joint 5' above packer. POH with wireline. MU and RIH with overshot, bumper sub, jars, 4 6-1/2" DC's on 2-7/8" tubing. Jar packer free and POH. LD 2-7/8" tubing.

4. MU and RIH with 9-5/8" casing scraper on 2-7/8" tubing to 8190'.

5. MU and RIH with 9-5/8" permanent bridge plug. Set bridge plug at 8157'.

6. RIH with OE 2-7/8" tubing to top of bridge plug. Equalize 35 sack Class "G" cement plug on top of bridge plug. PU 5 stands and reverse tubing clean. Circ and build mud volume for milling. POH LD 2-7/8" tubing.

7. MU and RIH with 7-1/2" Section Mill, 6-1/2" shock absorber, 8 6-1/2" DC's and 5" DP. Mill section from 6920' to 6970'. Circulate a minimum volume of 2 bottoms up. POH. Refer to Drilling Fluids Program for fluid properties for milling section.

8. MU and RIH with underreamer. Open hole to 15". POH.

9. MU and RIH with OE 2-7/8" tubing tail on 5" drill pipe to 6960'. Equalize a 93 sacks Class "G" cement plug. Precede cement with 10 bbls sea water. Displace cement with mud. POH.

10. MU and RIH with 8-1/2" bit, 8 6-1/2" DC's and 5" DP. Dress off cement plug to 6920'. POH.

11. MU and RIH with 8-1/2" bit and steerable directional assembly. Directional drill from KOP of 6942'MD/4840' TVD to 6962' MD/4850' TVD. Conduct formation leak of test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. Change hole over to Petrofree mud system. Continue to directionally drill to 13416 MD/7749' TVD (20' above of LP-K interval 13469' TMD/ 7777' TVD. Do not drill into top of "K" interval. Circ hole clean and POH.

12. MU and RIH with underreamer and open hole to 10" from KOP to top 13416'MD/7749' TVD. Circ and condition mud for running casing.

13. Rig up the casing crew. MU and RIH with approximately 7500 ft. of 7 5/8", 33.7#, N-80, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 9-5/8" X 7-5/8" hydraulic liner hanger and tie back receptacle to 13416' MD/ 7749' TVD'.

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every third collar to the 9-5/8" casing. Use rigid centalizers in 9-5/8" x 7-5/8" liner lap.

14. Rig up cementers and cement the 7 5/8" casing as follows:

A) Pump 20 bbls of reactive mud spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 975 sacks of lead cement (12.5 ppg) followed by 167 sacks of tail cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

15. MU and RIH with 8 ½" bit, 8 6-1/2" DC's and 5" DP. RIH and drill out cement to top of liner. POH.

16. MU and RIH with 6-1/2" bit, 12 4-3/4" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. Drill out landing collar and cement to 10 Ft above shoe. Pressure test casing and liner lap to 2500 psig.

17. Drill out float shoe and 10 ft of new formation. Perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

18. MU and RIH with directional assembly. Directionally drill from 7-5/8" casing shoe at 13416' MD/ 7749' TVD to total depth of 14499' MD/ 8592' TVD. Circ and condition mud and hole for logs.

19. Rig up loggers and log well. RD loggers.

20. MU and RIH with underreamer and open 6-1/2" hole to 8" from 7-5/8" casing shoe to TD. Circ and condition mud for running casing.

21. Rig up the casing crew. MU and RIH with approximately 1800 ft. of 5 1/2", 20#, N-80, flush joint casing with float shoe, landing collar/float collar placed 2 joints from bottom, 7-5/8" X 5-1/2" hydraulic liner hanger and tie back receptacle to 14499' MD/ 8592' TVD.

A) Use a auto fill float shoe and float collar 2 joints above the shoe.
B) Place a latch on centralizer 10' above the shoe and every collar for next 10 joints and then on every third collar to the 7-5/8" casing. Use rigid centalizers in 7-5/8" x 5-1/2" liner lap.

22. Rig up cementers and cement the 5 1/2" casing as follows:

A) Pump 20 bbls of reactive mud spacer weighted to the final mud weight plus .5 ppg.
B) Mix and pump 317 sacks of Class "G" cement (15.8 ppg). Preliminary volumes base on 50% excess cement in the open hole.

Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

23. MU and RIH with 6 ½" bit, 8 4-3/4" DC's, 3-1/2" and 5" DP. RIH and drill out cement to top of liner. POH.

24. MU and RIH with 4-3/4" bit, 12 3-1/8" DC's, 3-1/2" DP and 5" DP. CO cement to landing collar. Pressure test liner lap to 2500 psig. POH LD drill pipe. Release the drilling rig to the production department for completion. A detailed completion procedure will follow.

Torch Operating Company

Completion Procedure
S-28 Sidetrack
Santa Clara Field
OCS P-0216
Offshore California
October 23, 1997

Prepared by: Bob Davis

Objective: Complete as a flowing, gravel pack screened, LPL-N oil producer.

Estimated time to complete: 3 weeks

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft
Cond. Csg	20"	Surf- 841	94.0	19.124	18.936	0.3552
Surf. Csg	16"	389- 1674	75.0	15.124	14.936	0.2222
Int. Csg.	13-3/8"	Surf- 3599	68.0	12.415	12.259	0.1457
Prod. Csg. 9-5/8"	Surf- 6000 *	47.0	8.681	8.525	0.0732	
Int. Lnr.	7-5/8" *	6000- 13542	33.7	6.765	6.640	0.0444
Prod. Lnr.	5-1/2" **	13000-14618				

* Estimated top of window
** Estimated

1. NU 5000# BOEs with variable rams. Change lower pipe rams to close against production tubing. Pressure test BOEs to MMS specifications.
2. Pick up as much of the 2-7/8" or 3-1/2", N-80 production string as possible, and stand back. Pick up 4-1/2", IF drillpipe to use for work string.
3. Pick up and RIH with 4-3/4" bit, ~1700' of rented 2-7/8", IF drill pipe, ~7000' of 3-1/2" IF drill pipe and 4-1/2" drill pipe to 5-1/2"liner top. Drill through liner hanger.
4. RIH with WSO tool and negative test 7-5/8"x5-1/2" liner lap.

Note: This test will allow the flexibility to set a production packer at the base of the 7-5/8" casing, should it become necessary.

5. RIH with 4-3/4" bit on tapered work string. Circulate out drill in fluid to ED with sea water. On bottom, continue to circulate with filtered sea water and gel sweeps as required, until returns run clear.

Notes:

1. Lengths to depend on actual liner lengths and spacing.

2. Any remaining fill will reduce accuracy of TCP correlation.

6. POOH with tapered work string and bit.

7. Rig up and run a CBL-VDL-GR Neutron log across the productive interval, tagging and correlating from ED. Squeeze as required for adequate zone isolation between the intervals to be fracture stimulated. Re-correlate to ED after cleaning out from squeeze, if required.

8. RIH with 5-1/2" casing scrapers and brush. Scrape/brush casing and liner from surface to ED. Reverse circulate from ED, with filtered sea water until returns run clear.

9. Fill active pit, reserve pit, and one steam cleaned Baker tank with 13.3 ppg. CaBr2 water. Displace sea water from tubing and casing. Rig up DE filter press and filter entire system to 30 NTU or less. Consult with duty engineer if turbidity appears to be from dissolved material (i.e. rust). POOH with scrapers and brush.

10. RU WLU. Make gauge ring run to ED.

11. Pick up and run in hole with 3-1/8" tubing conveyed perforating assembly with guns loaded to perforate the LPN interval (~250/200 G/N), equipped with Halliburton Omni valve (well test position), Baker Retrievamatic packer and vent valve. Fill with filtered sea water water while RIH. Tag ED with bull plug on TCP assembly and pick up to desired depth. Set service packer.

12. Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Test Halliburton surface flow equipment to 4700 psi. Pressure up tubing to 250 psi. Drop bar to perforate well with **XX** JSPF.

Note: If actual hole angles of over 65° result, consider annular pressure fired guns. Setting pressures should be lower than Omni valve actuation pressures to minimize the chance of prematurely shifting the Omni valve. Alternatively, Omni valve position could be preset so that a single shift will not change the valve operating mode.

13. Allow well to stabilize long enough to record a stable shut in tubing pressure, and then flow the well for 2 hours, per direction of company representative. Monitor well with bubble bucket. Cycle Omni valve to circulating position (perforations isolated) and reverse out tubing with 13.3 ppg. CaBr2 water.

Note: Insure that a pressure gauge is available in the line between the tubing head and the Halliburton manifold to measure true flowing tubing pressure.

14. Cycle Omni valve to well test position and check for flow. If necessary, cycle Omni valve back to circulating position and weigh up with sack material to kill well.

15. Once well is dead, POOH with TCP assembly. Procedures to mix and pump any required fluid loss pills will follow.

16. Pick up and run in the hole slowly with gravel pack assembly including seal/locator assembly, **XX** gauge wire wrapped screen, SC-1 tool assembly, and washpipe. Minimize the use of pipe dope.

17. Snap into and out of Baker Model D sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight.

Note: Space out workstring to a safe working height prior to snapping into sump packer.

18. Rig up the pumping equipment and test surface lines to 5,000 psi. (In order to achieve the best control of pump rates and pressures while setting the Baker SC-1 Packer, it is advised that the BJ cement pump unit on the platform be used during this operation.)

19. Establish circulation down workstring. Circulate 5 to 10 bbls to clean ball seat in setting tool. Drop back-up packer setting ball and allow it to gravitate to the setting tool. With ball on seat, set gravel-pack packer as per established procedures.

20. Test the Baker SC-1 packer by picking up and setting down 10,000 lbs. Locate neutral weight on packer and pressure test annulus to minimum 1,500 psi.

Note: Annular pressure will also actuate hydraulic release on the service tools.

21. While holding 500 psi on the annulus, slowly pick up crossover tool until pressure indication is noted. This is the reverse position. Mark tubing at surface.

Note: If crossover tool is not released from the packer, rotate 15 turns to the right to actuate back-up release.

22. Reverse circulate to recover packer setting ball.

23. Shift tool to reverse position. Pump 1500 gal. 15% HCl tubing pickle acid mixture to within 2 joints of the packer and reverse out at maximum rate. Isolate acid returns and pump down S-54 annulus.

24. Lower crossover tool to set down desired weight on packer. This is the **Squeeze Position**. Pick up crossover tool ±1 ft and locate the **Circulating Position.** Mark the tubing at the surface for these positions. Lower crossover tool to the squeeze position.

DATAFRAC PUMPING:

Notes:

Torch Operating Company

Completion Procedure
S-28 Sidetrack
Santa Clara Field
OCS P-0216
Offshore California
October 23, 1997

* **Have Victory Seahorse tied up to supply water as required during stimulation operations.**
* **S/D to supply enough headsets for driller, toolman, and two TOC representatives**

25. Shift tool to reverse position. Circulate the following DataFRAC fluids to the GP packer in the reverse position. **Expect the same shut in tubing pressure as that seen directly after perforating.**
26. Inject the DataFRAC as per design to be finalized after the analysis of openhole logs. Once the DataFRAC has been performed, a fracture treatment will be optimized as the data directs.

DataFRAC Fluid requirements:

5,000 gals	120 bbls	YF130LG **(XLK 30# Gel)** Calibration Test fluid (X-linked)_
4,300 gals	92 bbls	WF130 (Linear 30# Gel) Step Rate Test Fluid
3,095 gals	73.7 bbls	2% KCl (w/0.2% ASP820) Displacement fluid

The volumes of fluids may be altered slightly if this would benefit operations of tools and/or pumping, or for a significantly different perforated interval.

Calibration Test - 119 bbls YF130LG at 15 bpm (7.9 min)

Rate Test (2 minutes per stage):

1 bpm 2 bbls

2 bpm	4 bbls
3 bpm	6 bbls
4 bpm	8 bbls
6 bpm	12 bbls
8 bpm	16 bbls
10 bpm	20 bbls
12 bpm	24 bbls
Total:	92 bbls

27. Shut down - monitor pressure fall off. Do not alter the pressure on the casing or work string

NOTES:

Add another Calibration test or step rate test as necessary

The above schedule is only recommended volumes and can be altered as necessary to suit the formation response.

StimPAC PUMPING:

Torch Operating Company

Completion Procedure
S-28 Sidetrack
Santa Clara Field
OCS P-0216
Offshore California
October 23, 1997

Section 1: Expected Propped Fracture Schedule

Job Description						
Stage Name	**Pump Rate** (bbl/min)	**Fluid Name**	**Stage Fluid Volume** (gal)	**Gel Conc.** (lb/mgal)	**Prop. Type and Mesh**	**Prop. Conc.** (PPA)
PAD	15.0	YF130LG	1000	30		0.0
1.0 PPA	15.0	YF130LG	1000	30	Econo Prop 20/40	1.0
3.0 PPA	15.0	YF130LG	410	30	Econo Prop 20/40	3.0
4.0 PPA	15.0	YF130LG	390	30	Econo Prop 20/40	4.0
5.0 PPA	15.0	YF130LG	381	30	Econo Prop 20/40	5.0
6.0 PPA	15.0	YF130LG	370	30	Econo Prop 20/40	6.0
7.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	7.0
8.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	8.0
9.0 PPA	15.0	YF130LG	360	30	Econo Prop 20/40	9.0
10.0 PPA	15.0	YF130LG	350	30	Econo Prop 20/40	10.0
11.0 PPA	15.0	YF130LG	340	30	Econo Prop 20/40	11.0
12.0 PPA	15.0	YF130LG	1350	30	Econo Prop 20/40	12.0
FLUSH	8.0	2% KCL w/ Fr	3394	0		0.0

Fluid Totals		
6671 gal	of	YF130LG
3394 gal	of	2% KCL w/ Fr

Proppant Totals		
40,000 lb	of	Econo Prop 20/40

Notes:

- Maintain casing pressure (to be confirmed with TOC representative) at 2000 psi or more during pumping of the StimPAC.
- Sand Silo to be loaded with enough excess proppant (+/- 5,000 lbs excess) so that total proppant amount designed can be pumped at design rates.
- Rate will be ramped down during flush. Actual rates will be determined after the dataFRAC.

Pressure limits while reversing must be discussed before pumping starts. Use the following as a reference to hydrostatic pressure which may be encountered.

14.00 ppa slurry has a density of 13.73 ppg

12.00 ppa slurry has a density of 13.34 ppg

11.00 ppa slurry has a density of 12.95 ppg

10.00 ppa slurry has a density of 12.67 ppg

8.00 ppa slurry has a density of 12.06 ppg

6.00 ppa slurry has a density of 11.35 ppg

MINIMIZE TIME after shut down to start reverse circulation. No more than 10 minutes.

Do NOT over displace.

If the bleed off after a screen out is fast (possible indication of limited blank fill), do not move to the reverse position until trying to squeeze slurry into the blank section at least once. This must be agreed upon by Dowell tool supervisor, pumping supervisor and the TOC engineer. Maximum re-stress pressure must be calculated before start of frac.

28. Once a screen out has been achieved, bleed off work string and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with 13.3 ppg. CaBr2 water. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of CaBr2 water.

29. If a circulation pack is required to fill screen, use the BJ pump truck and the completion fluid.

30. When screen is packed, pull uphole until end of washpipe is 10 ft below Knock-Out Isolation Valve. Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize. Slowly pull uphole in one continuous movement until the end of the washpipe is 10 ft above flapper valve.

Note: Do not slack off, as any downward movement while the end of the washpipe moves through the valve can damage the flapper and seat.

31. Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

NOTE: If KOIV does not appear to be holding, attempt to apply ± 200 psi to assist seal. If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer.

32. L/D GP packer service tool.

33. Pull out of the hole with workstring and Baker SC-1 Crossover Tool and washpipe.

34. Pick up and run in hole with 3-1/8" tubing conveyed perforating assembly with guns loaded to perforate the LPN interval (~250/200 G/N), equipped with Halliburton Omni valve (well test position), Baker Retrievamatic packer and vent valve. Fill with filtered sea water water while RIH. Tag ED with bull plug on TCP assembly and pick up to desired depth. Set service packer.

35. Make up Halliburton surface flow equipment to flow well either to belly tank or straight to production system. Test Halliburton surface flow equipment to 4700 psi. Pressure up tubing to 250 psi. Drop bar to perforate well with **XX** JSPF.

Note: If actual hole angles of over 65° result, consider annular pressure fired guns. Setting pressures should be lower than Omni valve actuation pressures to minimize the chance of prematurely shifting the Omni valve. Alternatively, Omni valve position could be preset so that a single shift will not change the valve operating mode.

36. Allow well to stabilize long enough to record a stable shut in tubing pressure, and then flow the well for 2 hours, per direction of company representative. Monitor well with bubble bucket. Cycle Omni valve to circulating position (perforations isolated) and reverse out tubing with 13.3 ppg. CaBr2 water.

37. Cycle Omni valve to well test position and check for flow. If necessary, cycle Omni valve back to circulating position and weigh up with sack CaBr2 to kill well.

38. Once well is dead, POOH with TCP assembly. Procedures to mix and pump any required fluid loss pills will follow.

39. Run in with Baker Retrieving Head on workstring. Tag Baker SB Plug. Reverse out any perforating debris, latch into SB plug and retrieve. Pull out of the hole.

40. Pick up and run in the hole slowly with gravel pack assembly including snap latch/seal/locator assembly, **XX** gauge wire wrapped screen, SC-1 tool assembly and washpipe. Minimize the use of pipe dope.

41. Snap into and out of Baker SC-1 sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight.

Note: Space out workstring to a safe working height prior to snapping into SC-1 packer.

42. Repeat Stim-Pac procedures for the second "M" interval. Isolate below a second packer, as described above.

43. If deemed prospective, perforate third "L" interval as described above. Repeat preceding step for the subject interval.

44. RIH with snap latch seals, 4-1/2" Pruett chamber (tubing sensing), 1 joint of 2-7/8" or 3-1/2" tubing,, 2-7/8" or 3-1/2" tubing (carrying 1/8" capillary tubing line) to ~500' from surface, tubing retrievable SCSSV, and 2-7/8" or 3-1/2" tubing to surface. Tag top SC packer and POOH to directly on top of packer. Displace tubing with filtered 6% KCl water (send completion fluid returns to shore storage) and sting into snap latch seal assembly. Schematic to be supplied.

Note: Observe pump pressure when fluid turns the corner during displacement. Choke returns to maintain this pressure until fluid is fully displaced.

45. Open SCSSV and flow well per engineering direction, with low initial drawdown. Keep well on platform hotsheet until relieved.

OCS-P0216
PLATFORM GILDA
WELL S-28
CASING DESIGN

7 5/8" CASING

Effective Setting Depth is 13416' MD / 7749' TVD

Casing: 7 5/8", 33.7#, N-80, HYD 511.

Estimated top of cement is 6440' MD

Collapse

Mud weight for the 7 5/8" casing interval is 12.5 ppg.

Pressure Rating with a 1.25 Safety Factor

7260 psi / 1.25 = 5808 psi

P_C = (7680') (12.5 ppg) (.052) = 4992 psi

S_{FC} = 5808 psi / 4992 psi = 1.16

Burst

Anticipated BHP of 5500 psi with a maximum anticipated WHP with .1 psi / ft gas is 4597 psi.

S_{FB} = 7900 psi / 4597 psi = 1.71

Tensile

Buoy Weight = (33.7) (6850') (.806) = 186061#

7 5/8", 33.7#, N-80, HYD 511 — Joint = 614000#, Body = 778000#

S_{FJT} = 614000# / 186061# = 3.29

S_{FB} = 778000# / 186061# = 4.18

Maximum Overpull w/ Safety Factor

Jt.= 614000# / 2 - 186061# = 120939#

5-1/2" LINER

Effective setting depth is 14618' MD / 8592' TVD

Casing: 5-1/2", 20#, N80, HYD 511

Estimated top of cement is at bottom of 7-5/8" casing

Collapse

Mud weight for the 5-1/2" casing interval is 14.5 ppg.

P_C = (8592') (14.5 ppg) (.052) = 6195 psi

S_F = 8830 psi / 6195 psi = 1.43

Burst

Maximum anticipated WHP with gas to surface is 4650 psi assuming a .1 psi / ft gas gradient at the 5-1/2" casing shoe.

S_F = 8990 psi / 4650 psi = 1.93

Tensile

Buoy Weight = (20) (1750') (.776) = 27160#

W/ 14.5 ppg drilling mud

5-1/2", 20#, N80, Butt.	Joint = 367000#
	Body = 466000#

S_{FJT} = 367000# / 27160# = 13.51

S_{FB} = 466000# / 27160# = 17.15

Maximum Overpull w/ Safety Factor

Jt. = 367000# / 2 - 27160# = 156340#

OCS-P0216
PLATFORM GILDA
WELL S-28
CEMENT PROGRAM

ABANDONMENT PLUG

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
1	41	/	1.17	=	35 sacks Class G Cement + 20 gals/100 sack CD-31L + 4 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 44.7 % Water.

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.17
Amount of Mix Water (gps)	4.92
Amount of Mix Fluid (gps)	5.18

Plug Geometry

	Plug Top		Plug Bottom	
1	8057 ft	to	8157 ft	with 8.681 inch ID Casing

OCS-P0216
PLATFORM GILDA
WELL S-28
CEMENT PROGRAM

KICK OFF PLUG

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
1	91	/	.97	=	93 sacks Class G Cement + 30 gals/100 sack CD-31L + 4 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 29.6 % Water.

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	17.20
Slurry Yield (cf/sack)	0.97
Amount of Mix Water (gps)	3.33
Amount of Mix Fluid (gps)	3.69

Plug Geometry

	Plug Top		Plug Bottom	
1	6820 ft	to	6920 ft	with 8.681 inch ID Casing
	6920 ft	to	6960 ft	with 15 inch Open Hole

OCS-P0216
PLATFORM GILDA
WELL S-28
CEMENT PROGRAM

7-5/8" CASING

FLUID SPECIFICATIONS

Weighted Spacer — **20.0 bbls UltraFlush II @ 11 ppg**

Fluid	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
Lead Slurry	2039	/	2.09	=	975 sacks Class G Cement + 20 gals/100 sack CD-31L + 40 gals/100 sack BA-10L + 30 gals/100 sack Liquid Sodium Silicate + 2 gals/100 sack FP-6L + 98.8 % Water.
Tail Slurry	192		1.15	=	167 sacks Class G Cement + 20 gals/100 sack CD-31L + 30 gals/100 sack BA-10L + 4 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 39.5 % Water

Displacement — **356.8 bbls MUD @ 9.4 ppg**

Cement Properties

	Slurry No. 1	Slurry No. 2
Slurry Weight (ppg)	12.50	15.80
Slurry Yield (cf/sack)	2.09	1.15
Amount of Mix Water (gps)	11.13	4.46
Amount of Mix Fluid (gps)	12.05	5.02

OCS-P0216
PLATFORM GILDA
WELL S-28
CEMENT PROGRAM

5-1/2" LINER

FLUID SPECIFICATIONS

Weighted Spacer **20.0 bbls UltraFlush II @ 11 ppg**

Fluid	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
Cement Slurry	366	/	1.15	=	317 sacks Class G Cement + 30 gals/100 sack CD-31L + 30 gals/100 sack BA-10L + 6 gals/100 sack R-21L + 2 gals/100 sack FP-6L + 38.7 % Water

Displacement **111.9 bbls MUD @ 10 ppg**

Cement Properties

	Slurry No. 1
Slurry Weight (ppg)	15.8
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.36
Amount of Mix Fluid (gps)	5.04

OCS-P0216
PLATFORM GILDA
WELL S-28
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
7000' - 13416'	MWD/DPR/GR
13416' - 14500'	DIL/GR/FDC/CNL
13416' - 14500'	DIPOLE SONIC

Mud Logs

Interval (MD)	
7000' - 14500'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

OCS-P0216
PLATFORM GILDA
WELL S-28
BOP PROGRAM

9 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 4800 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi
7 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 4800 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which is prior to drilling out the 20" casing and at 7 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-28
WELL CONTROL PROCEDURE

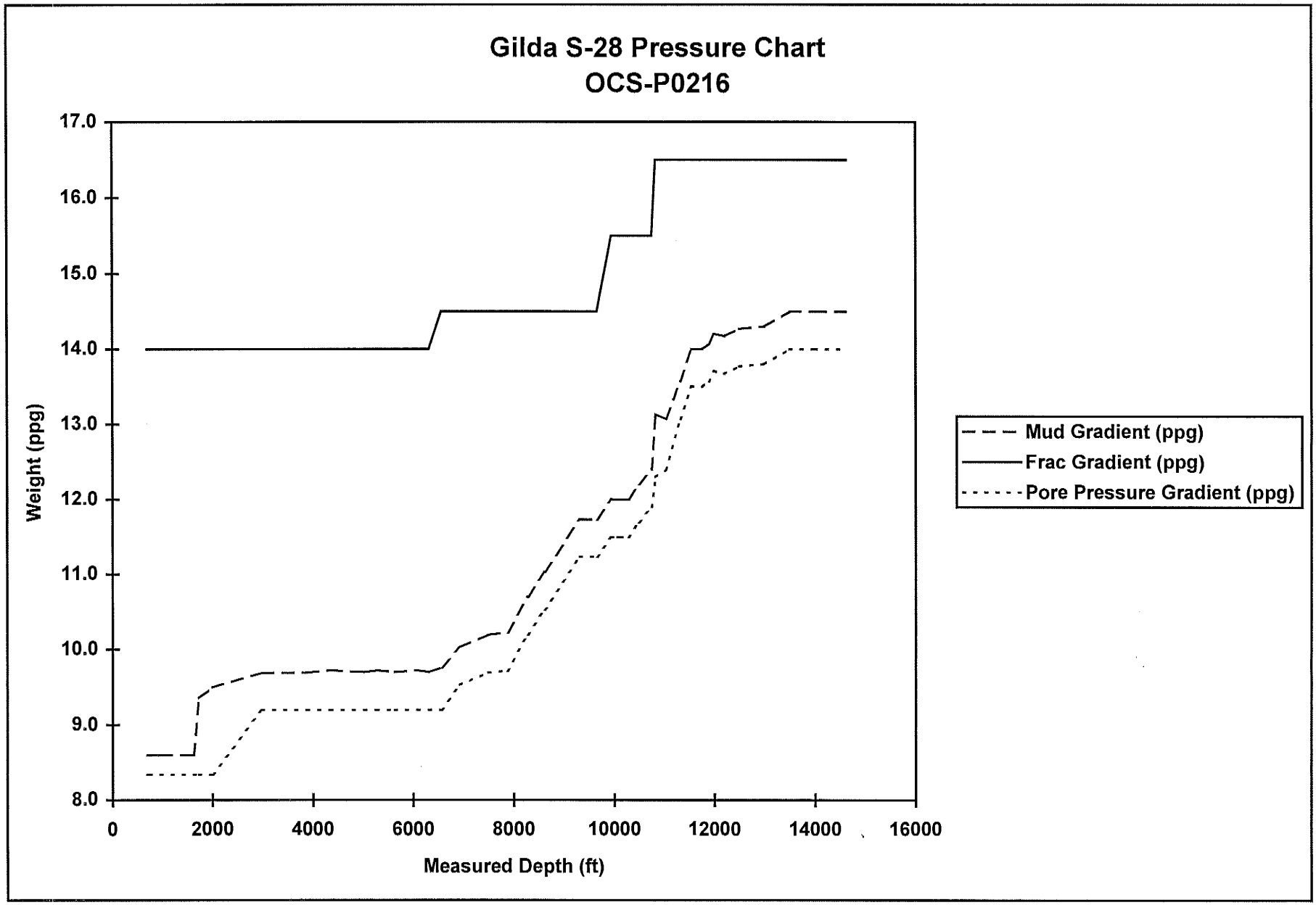
The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position tool joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 1750 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.


Gilda S-28 Pressure Chart
OCS-P0216
17.0
16.0
15.0
14.0
13.0
12.0
11.0
10.0
9.0
8.0
Weight (ppg)
0
2000
4000
6000
8000
10000
12000
14000
16000
Measured Depth (ft)
Mud Gradient (ppg)
Frac Gradient (ppg)
Pore Pressure Gradient (ppg)

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	FLUID LOSS (cc 30 min)	MUD COMPONENTS
6475' - 6515'	10.5	60 - 80	N/C	Seawater Durogel Soda Ash
Mill Window in 9-5/8" Casing				
6475' - 13,542"	10.5 - 12.0	45-55	6 - 7 cc	Seawater Gelite Soda Ash SP-101 Barite Soltex Tannathin XCD Lube 100
Run 7-5/8" Casing				
13,542' - 14, 618'	14.0 - 14.6	40 - 50	6 - 7 cc	Seawater Gelite SP-101 Soda Ash Barite Soltex XCD Tannathin Lube 100
Run 5-1/2" Liner				

DISCUSSION BY INTERVAL

INTERVAL:	Milling	9-5/8" Casing	6475' - 6515

FLUID TYPE: Milling Fluid

COMPONENTS WITH TYPICAL USAGE LEVELS:

M-I Gel	25 ppb
Soda Ash	.5 ppb
Sawdust	as needed
Barite	as needed for weight
XCD	.5 - 1 ppb

RECOMMENDED MUD SPECIFICATIONS:

Density	10.5
Viscosity	60-80 sec/qt.
Yield Point	30+
Fluid Loss	no control
3 rpm reading	20+

POSSIBLE PROBLEMS / SOLUTIONS:

1. Hole Cleaning
   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

DISCUSSION:

Mix M-I Gel with fresh water to achieve the above specified properties for good hole cleaning. Add XCD Polymer to supplement the M-I Gel in transporting and suspending the metal cuttings. A weighted M-I Gel/XCD system will convert to a drilling fluid easier and more efficiently than a weighted Durogel milling fluid. Add Barite to reach 10.5 ppg and initiate milling. Intermittent sawdust sweeps will help remove metal cuttings. After milling the window, set a cement kick off plug and add Sodium Bicarb.

DISCUSSION BY INTERVAL

INTERVAL: 6475' - 13,542' 8-1/2" Hole Opened to 10"

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	18-22 ppb
Soda Ash ($NaCO_3$)	2-4 ppb
SP-101	1.5-2.0 ppb
Soltex	3.0 ppb
Barite (Barium Sulfate)	as needed
Dril Kleen	as needed
Tannathin	as needed
XCD	as needed
Lube 100	2% as needed

RECOMMENDED MUD SPECIFICATIONS:

Density	10.5 - 12.0 ppg
Viscosity	45-55 sec/qt
YP	12-18
3 RPM	8 - 12
Fluid Loss	6 - 7
pH	9.0 - 9.5
T.H. as Ca++	200 ppm or less
MBT	18-25

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate out a small intrusion
    b) Raise mud weight if necessary

2. Kick
    a) Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking
    a) Maintain a low fluid loss.
    b) Maintain 3 - 6 ppb of Soltex in the system.

4. Tight hole
    a) Wipe the hole.
    b) Reduce the fluid loss if necessary
    c) Raise the mud weight
    d) Add 2% Lube 100

5. Solids build up
    a) Run all applicable solids control equipment
    b) Dilute

6. Foaming
    a) Use Defoam X
    b) Add fresh Gelite

7. Stuck Pipe
    a) Spot Pipe Lax ENV

DISCUSSION:

While polishing off plug, add Sodium Bicarb, Tannathin, and seawater. Break the mud over with 2 ppb SP-101 and then add 3 ppb Soltex and pre-hydrated Gelite. Begin drilling and monitor the well for gas.

Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. SP-101 should be added to control the API fluid loss in the 6-7 cc range. Soltex will also assist with the HTHP. Add XCD to maintain a 3 RPM reading of 9 or above to prevent cuttings beds from forming in the 40° - 70° section of the hole. Soda Ash should be added to keep the Calcium level below 200 Mg/L. This will help the effectiveness of the SP-101 and other chemicals. Barite should be used to maintain the proper mud density. Slug the drill pipe with Dril-Kleen to help keep the BHA clean.

Keep 40 to 60 barrels of a spotting fluid on the dock for differential stuck pipe. We recommend Pipelax ENV.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 175 mesh screen on the mud cleaner. Dilute to control the buildup of fine drilled solids.

Open hole to 10" following the same mud specifications. Add 2% Tekmud or Lube 100 before running casing.

DISCUSSION BY INTERVAL

INTERVAL: 13,542' - 14,610' 6-1/2" Hole opened to 8" for 5-1/2" Liner

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	18-22 ppb
Soda Ash ($NaCO_3$)	2-4 ppb
SP-101	1.5 - 2.0 ppb
Soltex	3-5 ppb
Barite (Barium Sulfate)	as needed to maintain proper mud wt.
Tannathin	as needed
Dril Kleen	as needed
XCD	as needed
Lube 100	2% as needed

RECOMMENDED MUD SPECIFICATIONS:

Density	14.0 - 14.5
Viscosity	45 - 55 sec/qt
YP	8 - 12
3 RPM Reading	7-10
Fluid Loss	6 - 7 cc
HTHP	Below 35
pH	9.0 - 9.5
T.H. as Ca^{++}	200 ppm or less
MBT	18 - 22

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate out a small intrusion
    b) Raise mud weight if necessary

2. Kick
    a) Maintain good drilling practices. Keep the hole full - don't swab on trips. Run the proper density.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking
    a) Maintain a low fluid loss.
    b) Maintain 4 - 6 ppb of Soltex in the system.

4. Tight hole
    a) Wipe the hole.
    b) Reduce the fluid loss if necessary
    c) Raise mud weight
    d) Add 2% Lube 100

5. Solids build up
    a) Run all applicable solids control equipment - small as screens as possible.
    b) Dilute

6. Foaming
    a) Use Defoam X
    b) Add fresh Gelite

7. Stuck Pipe
    a) Spot Pipelax ENV

DISCUSSION:

Clean out cement to the shoe, condition the mud, and weight the system up to 14.0 ppg. Drill out the shoe and perform a leak off test. Drill ahead, maintaining 3 ppb of Soltex in the system. Add Barite for the required mud weight. Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. SP-101 should be added to control the API fluid loss in the 6-7 cc range. Add XCD to maintain a 3 RPM reading of 7 or above to prevent cuttings beds from forming in the 40° - 70° section of the hole. Soda Ash should be added to keep the Calcium level below 200 Mg/L. Slug the drill pipe with Dril-Kleen to help keep the BHA clean.

Keep 40 to 60 barrels of a spotting fluid on the dock for differential stuck pipe. We recommend Pipelax ENV.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 175 mesh screen on the mud cleaner. Dilute to control the buildup of fine drilled solids.

Open hole to 8" following the same mud specifications. Add 2% Tekmud or Lube 100 before running liner.

TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : ~~S66~~ S-28 (Rev. A6)

Field : OFFSHORE SANTA BARBARA Location : CALIFORNIA

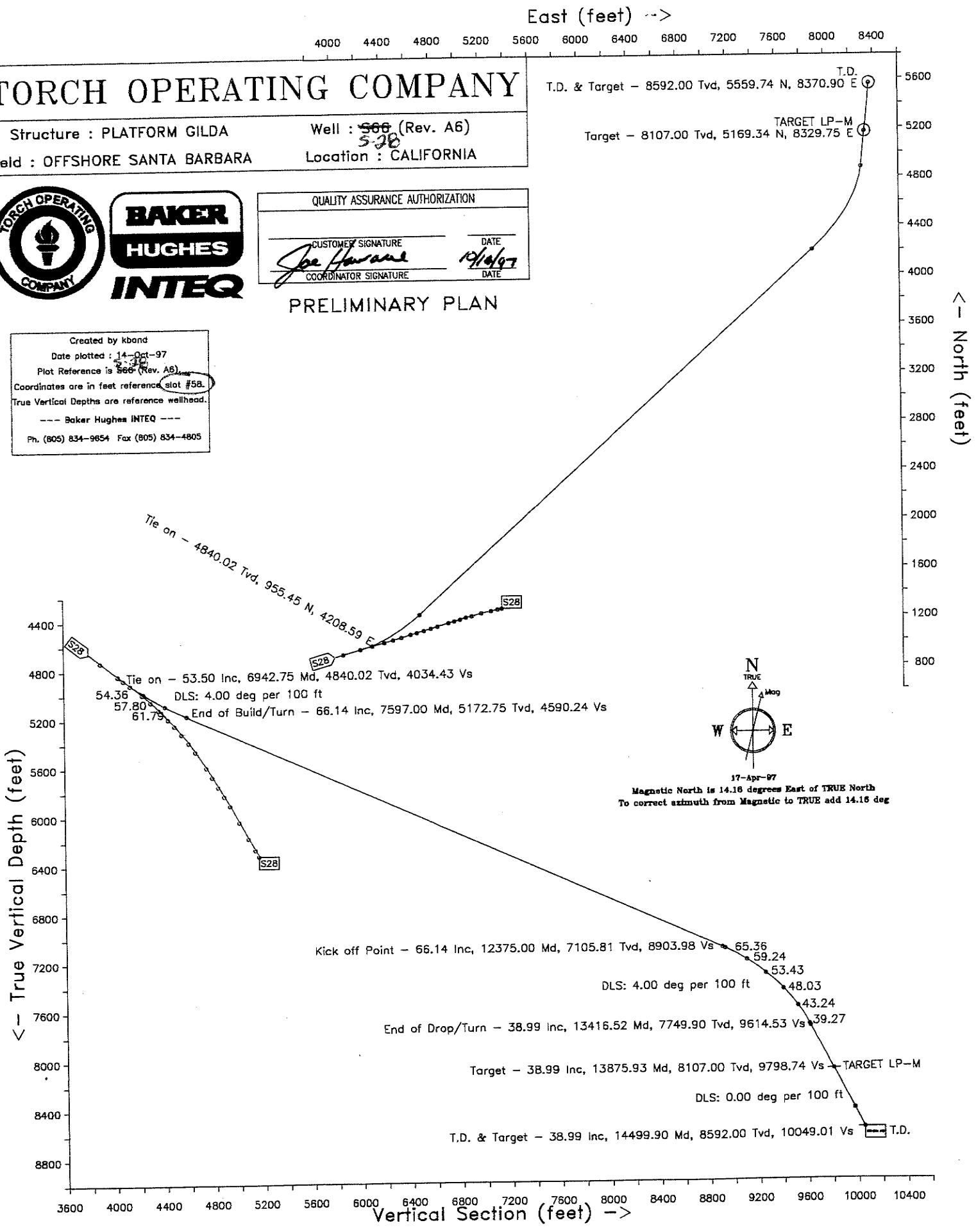
QUALITY ASSURANCE AUTHORIZATION

CUSTOMER SIGNATURE DATE

COORDINATOR SIGNATURE DATE 10/16/97

PRELIMINARY PLAN

Created by kbond
Date plotted : 14-Oct-97
Plot Reference is ~~S66~~ S-28 (Rev. A6).
Coordinates are in feet reference slot #58.
True Vertical Depths are reference wellhead.
--- Baker Hughes INTEQ ---
Ph. (805) 834-9654 Fax (805) 834-4805



Azimuth 56.41 with reference 0.00 N, 0.00 E from slot #58

TORCH OPERATING COMPANY
PLATFORM GILDA
S-28
~~S66~~ (Rev. A6)
slot #58
OFFSHORE SANTA BARBARA
CALIFORNIA

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

S28
Your ref : ~~S66~~ (Rev. A6)
Our ref : prop3116
License :

Date printed : 14-Oct-97
Date created : 13-Oct-97
Last revised : 14-Oct-97

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.763,w119 25 6.300
Slot Grid coordinates are N 748020.835, E 1041778.491
Slot local coordinates are 33.20 N 44.50 E

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Should have referenced Grid North.
Directional survey should be corrected
to Grid North.

TORCH OPERATING COMPANY S28
PLATFORM GILDAsouth block, ~~S66~~ (Rev. A6)
OFFSHORE SANTA BARBARA,CALIFORNIA

PROPOSAL LISTING Page 1
Your ref : ~~S66~~ (Rev. A6) S28
Last revised : 14-Oct-97

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
6942.75	53.50	73.91	4840.02	955.45N	4208.59E	0.00	4034.43	1046014.44	748848.02
7000.00	54.36	71.29	4873.73	969.29N	4252.74E	4.00	4078.87	1046058.99	748860.52
7042.00	55.03	69.40	4898.00	980.83N	4285.01E	4.00	4112.13	1046091.60	748871.06
7100.00	56.00	66.85	4930.84	998.64N	4329.37E	4.00	4158.94	1046136.49	748887.53
7142.00	56.74	65.03	4954.10	1012.90N	4361.30E	4.00	4193.43	1046168.84	748900.81
7200.00	57.80	62.58	4985.46	1034.44N	4405.07E	4.00	4241.81	1046213.24	748921.01
7242.00	58.59	60.84	5007.60	1051.36N	4436.50E	4.00	4277.35	1046245.17	748936.96
7300.00	59.73	58.49	5037.33	1076.51N	4479.48E	4.00	4327.06	1046288.89	748960.80
7342.00	60.58	56.82	5058.23	1096.01N	4510.25E	4.00	4363.48	1046320.25	748979.35
7400.00	61.79	54.56	5086.19	1124.65N	4552.21E	4.00	4414.29	1046363.07	749006.71
7442.00	62.68	52.95	5105.76	1146.63N	4582.18E	4.00	4451.41	1046393.69	749027.77
7500.00	63.95	50.78	5131.81	1178.63N	4622.94E	4.00	4503.06	1046435.40	749058.52
7542.00	64.88	49.23	5149.95	1202.98N	4651.96E	4.00	4540.70	1046465.15	749081.98
7597.00	66.14	47.25	5172.75	1236.31N	4689.28E	4.00	4590.24	1046503.48	749114.16
7642.00	66.14	47.25	5190.95	1264.25N	4719.50E	0.00	4630.87	1046534.53	749141.17
7742.00	66.14	47.25	5231.41	1326.33N	4786.65E	0.00	4721.15	1046603.54	749201.19
7842.00	66.14	47.25	5271.87	1388.41N	4853.80E	0.00	4811.44	1046672.55	749261.20
7942.00	66.14	47.25	5312.33	1450.49N	4920.95E	0.00	4901.72	1046741.56	749321.22
8000.00	66.14	47.25	5335.79	1486.50N	4959.90E	0.00	4954.08	1046781.58	749356.03
8042.00	66.14	47.25	5352.78	1512.58N	4988.10E	0.00	4992.00	1046810.57	749381.24
8142.00	66.14	47.25	5393.24	1574.66N	5055.25E	0.00	5082.29	1046879.58	749441.25
8242.00	66.14	47.25	5433.70	1636.74N	5122.40E	0.00	5172.57	1046948.59	749501.27
8342.00	66.14	47.25	5474.16	1698.82N	5189.55E	0.00	5262.85	1047017.60	749561.29
8442.00	66.14	47.25	5514.61	1760.90N	5256.70E	0.00	5353.14	1047086.61	749621.30
8500.00	66.14	47.25	5538.08	1796.91N	5295.65E	0.00	5405.50	1047126.63	749656.11
8542.00	66.14	47.25	5555.07	1822.98N	5323.85E	0.00	5443.42	1047155.62	749681.32
8642.00	66.14	47.25	5595.53	1885.06N	5391.00E	0.00	5533.70	1047224.63	749741.33
8742.00	66.14	47.25	5635.99	1947.14N	5458.15E	0.00	5623.99	1047293.64	749801.35
8842.00	66.14	47.25	5676.44	2009.23N	5525.30E	0.00	5714.27	1047362.64	749861.37
8942.00	66.14	47.25	5716.90	2071.31N	5592.45E	0.00	5804.55	1047431.65	749921.38
9000.00	66.14	47.25	5740.37	2107.31N	5631.40E	0.00	5856.92	1047471.68	749956.19
9042.00	66.14	47.25	5757.36	2133.39N	5659.60E	0.00	5894.84	1047500.66	749981.40
9142.00	66.14	47.25	5797.82	2195.47N	5726.75E	0.00	5985.12	1047569.67	750041.41
9242.00	66.14	47.25	5838.27	2257.55N	5793.90E	0.00	6075.40	1047638.68	750101.43
9342.00	66.14	47.25	5878.73	2319.63N	5861.05E	0.00	6165.69	1047707.69	750161.45
9442.00	66.14	47.25	5919.19	2381.71N	5928.20E	0.00	6255.97	1047776.70	750221.46
9500.00	66.14	47.25	5942.65	2417.72N	5967.15E	0.00	6308.33	1047816.73	750256.27
9542.00	66.14	47.25	5959.65	2443.80N	5995.35E	0.00	6346.25	1047845.71	750281.48
9642.00	66.14	47.25	6000.10	2505.88N	6062.50E	0.00	6436.54	1047914.72	750341.50
9742.00	66.14	47.25	6040.56	2567.96N	6129.65E	0.00	6526.82	1047983.73	750401.51
9842.00	66.14	47.25	6081.02	2630.04N	6196.80E	0.00	6617.10	1048052.74	750461.53
9942.00	66.14	47.25	6121.48	2692.12N	6263.95E	0.00	6707.39	1048121.75	750521.54
10000.00	66.14	47.25	6144.94	2728.13N	6302.89E	0.00	6759.75	1048161.77	750556.35
10042.00	66.14	47.25	6161.93	2754.20N	6331.10E	0.00	6797.67	1048190.76	750581.56
10142.00	66.14	47.25	6202.39	2816.28N	6398.25E	0.00	6887.95	1048259.77	750641.58
10242.00	66.14	47.25	6242.85	2878.37N	6465.40E	0.00	6978.24	1048328.78	750701.59
10342.00	66.14	47.25	6283.31	2940.45N	6532.55E	0.00	7068.52	1048397.79	750761.61
10442.00	66.14	47.25	6323.76	3002.53N	6599.70E	0.00	7158.80	1048466.80	750821.62
10500.00	66.14	47.25	6347.23	3038.53N	6638.64E	0.00	7211.17	1048506.82	750856.43
10542.00	66.14	47.25	6364.22	3064.61N	6666.85E	0.00	7249.09	1048535.81	750881.64

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10049.01 on azimuth 56.41 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
10642.00	66.14	47.25	6404.68	3126.69N	6734.00E	0.00	7339.37	1048604.82	750941.66
10742.00	66.14	47.25	6445.14	3188.77N	6801.15E	0.00	7429.65	1048673.83	751001.67
10842.00	66.14	47.25	6485.59	3250.85N	6868.30E	0.00	7519.93	1048742.83	751061.69
10942.00	66.14	47.25	6526.05	3312.93N	6935.45E	0.00	7610.22	1048811.84	751121.71
11000.00	66.14	47.25	6549.52	3348.94N	6974.39E	0.00	7662.58	1048851.87	751156.51
11042.00	66.14	47.25	6566.51	3375.02N	7002.60E	0.00	7700.50	1048880.85	751181.72
11142.00	66.14	47.25	6606.97	3437.10N	7069.75E	0.00	7790.78	1048949.86	751241.74
11242.00	66.14	47.25	6647.42	3499.18N	7136.90E	0.00	7881.07	1049018.87	751301.75
11342.00	66.14	47.25	6687.88	3561.26N	7204.04E	0.00	7971.35	1049087.88	751361.77
11442.00	66.14	47.25	6728.34	3623.34N	7271.19E	0.00	8061.63	1049156.89	751421.79
11500.00	66.14	47.25	6751.80	3659.35N	7310.14E	0.00	8114.00	1049196.92	751456.60
11542.00	66.14	47.25	6768.80	3685.42N	7338.34E	0.00	8151.92	1049225.90	751481.80
11642.00	66.14	47.25	6809.25	3747.50N	7405.49E	0.00	8242.20	1049294.91	751541.82
11742.00	66.14	47.25	6849.71	3809.59N	7472.64E	0.00	8332.48	1049363.92	751601.83
11842.00	66.14	47.25	6890.17	3871.67N	7539.79E	0.00	8422.77	1049432.93	751661.85
11942.00	66.14	47.25	6930.63	3933.75N	7606.94E	0.00	8513.05	1049501.94	751721.87
12000.00	66.14	47.25	6954.09	3969.76N	7645.89E	0.00	8565.41	1049541.97	751756.68
12042.00	66.14	47.25	6971.08	3995.83N	7674.09E	0.00	8603.33	1049570.95	751781.88
12142.00	66.14	47.25	7011.54	4057.91N	7741.24E	0.00	8693.62	1049639.96	751841.90
12242.00	66.14	47.25	7052.00	4119.99N	7808.39E	0.00	8783.90	1049708.97	751901.92
12342.00	66.14	47.25	7092.46	4182.07N	7875.54E	0.00	8874.18	1049777.98	751961.93
12375.00	66.14	47.25	7105.81	4202.56N	7897.70E	0.00	8903.98	1049800.75	751981.74
12400.00	65.36	46.56	7116.08	4218.13N	7914.35E	4.00	8926.46	1049817.86	751996.80
12442.00	64.05	45.39	7134.02	4244.52N	7941.65E	4.00	8963.80	1049845.96	752022.35
12500.00	62.27	43.72	7160.21	4281.39N	7977.96E	4.00	9014.45	1049883.37	752058.10
12542.00	60.99	42.49	7180.17	4308.37N	8003.21E	4.00	9050.41	1049909.43	752084.30
12600.00	59.24	40.72	7209.07	4345.96N	8036.61E	4.00	9099.02	1049943.96	752120.86
12642.00	57.99	39.41	7230.94	4373.40N	8059.69E	4.00	9133.43	1049967.86	752147.59
12700.00	56.29	37.53	7262.41	4411.54N	8090.00E	4.00	9179.78	1049999.32	752184.79
12742.00	55.08	36.13	7286.08	4439.30N	8110.79E	4.00	9212.46	1050020.95	752211.91
12800.00	53.43	34.12	7319.97	4477.79N	8137.88E	4.00	9256.32	1050049.20	752249.56
12842.00	52.25	32.61	7345.34	4505.75N	8156.29E	4.00	9287.12	1050068.45	752276.95
12900.00	50.67	30.44	7381.48	4544.41N	8180.01E	4.00	9328.27	1050093.34	752314.87
12942.00	49.55	28.81	7408.41	4572.42N	8195.95E	4.00	9357.04	1050110.11	752342.38
13000.00	48.03	26.47	7446.63	4611.06N	8216.20E	4.00	9395.29	1050131.53	752380.39
13042.00	46.97	24.71	7475.00	4638.98N	8229.58E	4.00	9421.88	1050145.75	752407.90
13100.00	45.55	22.17	7515.11	4677.42N	8246.25E	4.00	9457.04	1050163.59	752445.81
13142.00	44.55	20.26	7544.78	4705.12N	8257.01E	4.00	9481.33	1050175.19	752473.18
13200.00	43.24	17.50	7586.58	4743.16N	8270.03E	4.00	9513.22	1050189.36	752510.81
13242.00	42.33	15.43	7617.40	4770.51N	8278.12E	4.00	9535.09	1050198.28	752537.90
13300.00	41.13	12.44	7660.69	4807.97N	8287.42E	4.00	9563.56	1050208.71	752575.06
13342.00	40.32	10.18	7692.52	4834.83N	8292.80E	4.00	9582.91	1050214.91	752601.75
13400.00	39.27	6.95	7737.09	4871.53N	8298.34E	4.00	9607.82	1050221.56	752638.27
13416.52	38.99	6.00	7749.90	4881.89N	8299.52E	4.00	9614.53	1050223.05	752648.58
13442.00	38.99	6.00	7769.71	4897.83N	8301.19E	0.00	9624.75	1050225.21	752664.47
13500.00	38.99	6.00	7814.79	4934.12N	8305.01E	0.00	9648.01	1050230.13	752700.63
13542.00	38.99	6.00	7847.44	4960.40N	8307.77E	0.00	9664.85	1050233.69	752726.81
13642.00	38.99	6.00	7925.17	5022.97N	8314.35E	0.00	9704.94	1050242.17	752789.16
13742.00	38.99	6.00	8002.90	5085.54N	8320.93E	0.00	9745.04	1050250.64	752851.50
13842.00	38.99	6.00	8080.63	5148.11N	8327.51E	0.00	9785.14	1050259.12	752913.85

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10049.01 on azimuth 56.41 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	Northing
13875.93	38.99	6.00	8107.00	5169.34N	8329.75E	0.00	9798.74	1050262.00	752935.00
13900.00	38.99	6.00	8125.71	5184.40N	8331.33E	0.00	9808.39	1050264.04	752950.01
13942.00	38.99	6.01	8158.36	5210.68N	8334.10E	0.00	9825.24	1050267.60	752976.19
14000.00	38.99	6.01	8203.44	5246.97N	8337.91E	0.00	9848.50	1050272.52	753012.35
14042.00	38.99	6.01	8236.09	5273.25N	8340.68E	0.00	9865.34	1050276.09	753038.54
14100.00	38.99	6.01	8281.17	5309.54N	8344.50E	0.00	9888.60	1050281.01	753074.70
14142.00	38.99	6.02	8313.81	5335.81N	8347.27E	0.00	9905.44	1050284.58	753100.88
14200.00	38.99	6.02	8358.90	5372.10N	8351.10E	0.00	9928.71	1050289.50	753137.04
14242.00	38.99	6.02	8391.54	5398.38N	8353.87E	0.00	9945.55	1050293.07	753163.22
14300.00	38.99	6.02	8436.62	5434.67N	8357.69E	0.00	9968.82	1050298.00	753199.38
14342.00	38.99	6.02	8469.27	5460.95N	8360.47E	0.00	9985.67	1050301.57	753225.56
14400.00	38.99	6.03	8514.35	5497.24N	8364.30E	0.00	10008.94	1050306.50	753261.72
14442.00	38.99	6.03	8547.00	5523.52N	8367.07E	0.00	10025.79	1050310.07	753287.91
14499.90	38.99	6.03	8592.00	5559.74N	8370.90E	0.00	10049.01	1050315.00	753324.00

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #58 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 10049.01 on azimuth 56.41 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.41 degrees.
Grid is lambert - California VI (0406).
Lambert coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

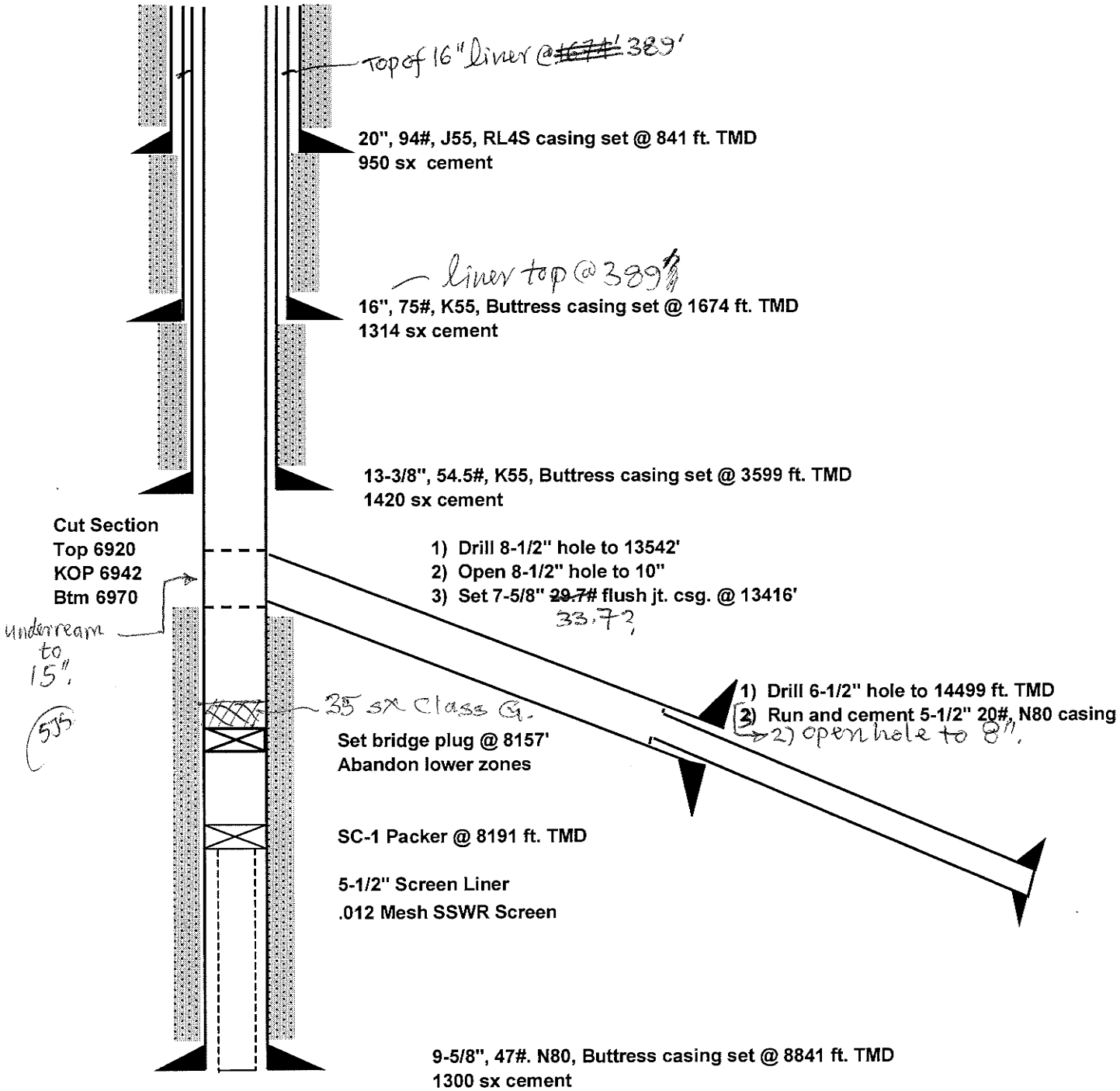
Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
13875.93	8107.00	5169.34N	8329.75E	TARGET LP-M
14499.90	8592.00	5559.74N	8370.90E	T.D.

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
TARGET LP-M	1050262.000,752935.000,999.00	8107.00	5169.34N	8329.75E	13-Oct-97
T.D.	1050315.000,753324.000,999.00	8592.00	5559.74N	8370.90E	13-Oct-97

Torch Operating Company
Platform Gilda, S-28 (slot #58)
OCS P-0216
Santa Clara Field
Santa Barbara County, Ca.



GPH S66diag DIAG
10/22/97 10:32 AM

PROPRIETARY DATA

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20062-00/S02	C-1	Arguello, Inc. 17100 Calle Mariposa Reina Goleta, CA 93117

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	756497001	02372

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P0450	SM	5584	6A

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GL/GI
APPROVAL ___	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___	Clean out &	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___	convert to gas	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	injection	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710995.44' Y=3819240.18' 5118' FNL 671' FEL	OCS-P0450	SM	5584	6A

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430	133'	Pool 411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached history w/schematic for final project details.

MINERALS MANAGEMENT SERVICE
MAY 10 2000
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SANTA MARIA DISTRICT

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26. CONTACT NAME	27. TELEPHONE NUMBER
	(805) 562-3701
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Thomas M. Gladney	as Agent for Arguello, Inc.
30. AUTHORIZING SIGNATURE	31. DATE
Thomas M. Gladney	5-4-00

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell for Phillip R. Schroeder — TITLE District Supervisor — DATE 5/16/00

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

PLATFORM HIDAGO OCS-P0450
CONVERT TO GAS INJECTION HISTORY OF #C-1

DATE	WORK HISTORY
03/18/00	RU wireline & test lubricator at 1100 psi. Run 2.80" gauge ring to 9120' w/no restrictions. MU kickover tool & RIH. Pull valve from side pocket mandrel at 8665'. MU Baker locking tool & RIH. Lock into SCSSSV at 799'. Unable to move flow tube up to the locking position. Pull locking tool & redress. RIH & set tool. Unable to get flow tube into locked position. POOH & RD wireline.
03/19/00	Circ. well to production at 1 bpm. Total change over = 617 bbls. Bleed pressure off tubing and casing. RU to circulate well through rig choke adding 2# per barrel sul-x. Con't circ. well. Install tubing hanger backpressure valve. ND tree.
03/20/00	Con't circ. well adding 2# per barrel of sul-x to the system. Circ. 650 bbls. - well dead. Install FMC type backpressure valve. ND production tree. Note: bolts in flange were rusted and torqued all the way off. NU riser and 13-5/8" BOPE. Remove rotary table, install bell nipple and reinstall rotary table. Install kill and choke lines, RU flowline. Install 3-1/2" landing joint in tubing hanger. Test BOPE at 300 psi low and 3000 psi high.
03/21/00	MU running tool, landing joint and safety valve in tubing hanger. Back out tubing hanger anchor screws. Unland and attempt to back-out tubing hanger – no good. Packer was not set. Pull tubing string up hole 22' - stuck. Unable to move tubing up or down. According to detail - packer should be at 8974'. Back landing joint out of tubing hanger. Remove backpressure valve with dry rods. Screw back into tubing hanger with landing joint. Work pipe from 70k up to 185k with no movement. RU Baker wireline & RIH w/chemical cutter and collar locator. Locate and fire chemical cutter 2' above pup joint & Baker HB packer. POOH w/wireline, work tubing at 200k – no good. RIH w/free point tool. Readings show packer free and tubing 40' below packer stuck.
03/22/00	RIH w/chemical cutter. Located and fired cutter 2' above pup jt on packer at 8981' wireline measurement. PU above cut and worked tubing at 200k - no movement. MU Baker-Atlas freepoint tools & RIH. Free point shows tubing free, down to 40' below packer and stuck there. MU chemical cutter & RIH. Located and fired cutter 10' below bottom of pup jt. below packer. Work tubing at 200k - pipe still stuck. POOH w/cutter - misfire. MU third chemical cutter w/more centralization. Pump tools down hole (more centralizers) to 7580' - collar locator stopped working. POOH & found the tool string had unscrewed. Recover rope socket and top centralizer. RIH w/stem and blind box to 9174' – didn't touch anything. Tool string fell out the bottom of tubing into 7" casing. 26' of wireline tools left inside the 7" casing.
03/23/00	M/U chemical cutter & RIH. Tools stopped at 8900'. Pump tools down tubing to 8965' – no further. Shoot 3-1/2" tubing at 8950' wireline measurement with 150K pull on tubing string. Tubing parted at 8950' - lost 65K-string weight. RD Baker & LD landing joints and tubing hanger. RU Weatherford tubing tongs. POOH & LD 3-1/2", L-80, Hydril 501 tubing and control line. LD SSSV.

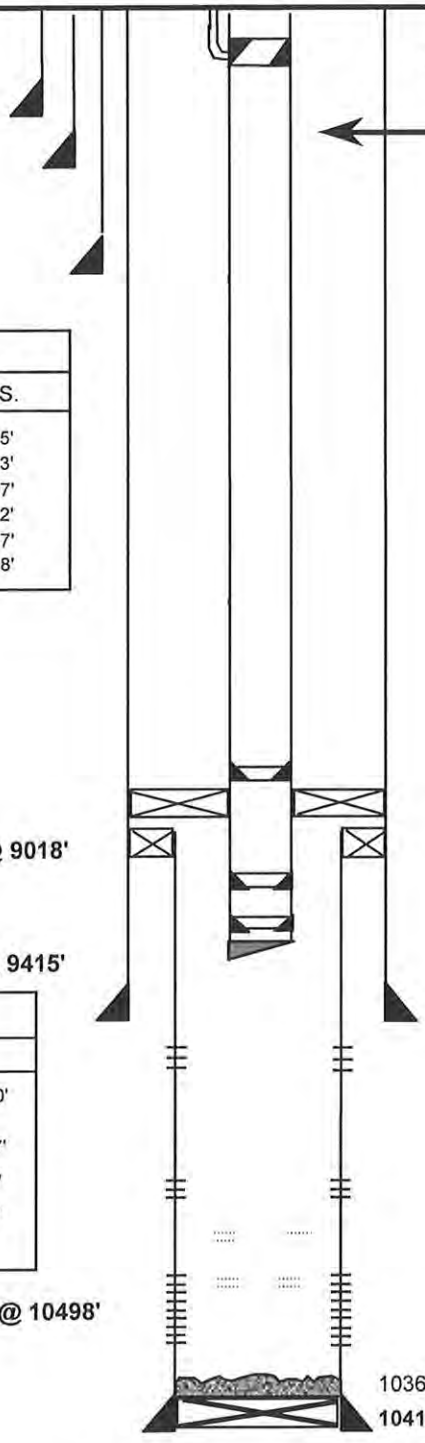
DATE	WORK HISTORY
03/24/00	Cont. POOH w/3-1/2" Hydril tubing. RU 4-1/2" drill pipe equipment. Drain stack and riser. MU test plug & land. Tighten lock down screws. RU test pump and test blind rams to 300 / 3000 psi per MMS regulations. Back out locking screws and pull test plug. Set Kelly bushings. PU rat hole w/Kelly. PU Kelly & LD rat hole to modify setting depth. Secure hot work permit. MU bushings on Kelly & close blind rams. Prepare for hot work on rat hole. Firewatch for welder. Weld stop on rat hole. MU Kelly spinner, swivel and hose.
03/25/00	PU & RIH w/six 4-3/4" DC's. PU Kelly and tighten connections. Install spinner motors. Set Kelly back in rat hole. MU test plug, RIH w/lock down screws, fill stack and disable check valve. Test Class IV BOPE to 300 / 3000 psi.
03/26/00	Complete testing Class IV BOPE. Perform accumulator test & set back Kelly. Back out lock screws and pull test plug. POOH & stand back 4-3/4" DC's. MU fishing tool assembly. RIH w/fishing tool assembly & PU 4-1/2" drill pipe. Engage fish w/overshot at 8994'. Jar fish free. Packer is sitting at 7" liner top at 9018'. Set Kelly back. POOH w/fish, pulling tight at casing collars.
03/27/00	POOH w/fish slowly, dragging tight through casing collars. Recover cut off joint, 1 joint, pup jt., Baker "HB" 9-5/8" packer, pup jt., and cut off joint = 65.29' overall measurement recovered. Fish in hole 5 joints of 3-1/2", Hydril 501 tubing with Baker "BX", "BXN" nipple and Re-Entry Guide. MU fishing tool assembly. Measure, drift and pick up 28 joints of 3-1/2", 13.30# drill pipe. RIH on 4-1/2" drill pipe to top of 7" liner at 9018'. PU Kelly and circulate into 7" liner top. RIH slowly & tag top of fish at 9555'. PU Kelly and mill over top of fish - engage fish & set back Kelly. POOH w/fish. Replace electric switch for foot throttle actuator. POOH wet w/fish.
03/28/00	Recover 4 full joints of 3-1/2", Hydril 501 tubing, 1 cut off joint, Baker "XN" and "BXN" nipples, pup joint and wireline entry guide = 159.87' of recovered fish. MU fishing tool assembly and RIH with 94 stands of 4-1/2" drill pipe. Work into 7" liner top & over wireline tools at 9684'. POOH wet w/fish. Recovered 100% of Baker chemical cutter assembly. LD fishing tool assembly.
03/29/00	Drain stack. MU wear bushing and landing joints. Install wear bushing. LD landing joints. MU milling assembly and RIH. Tag Baker Model "D" packer at 9710'. Mill over Model "D" packer and push packer down to 9844'. Started loosing fluid to formation – approx. 150 bbls per hour. POOH w/milling assembly. POOH - recovered Model "D" packer, 3-1/2" pup joint, Otis "XN" nipple and wireline entry guide, Camco wireline gauge tools, and Baker chemical cutter with centralizer.
03/30/00	MU milling assembly and RIH to top of Baker "FB-1" retainer. Mill over retainer and chase it down to 10,196'. POOH. MU 5-7/8" close catch overshot fishing assembly. RIH w/fishing assembly to 7" liner top at 9018'.

DATE	WORK HISTORY
03/31/00	RIH w/fishing tools and engaged fish at 10,196'. POOH wet w/fish. Change out pipe spinners. Recovered Baker "FB-1" retainer and perforated tail = 38.47' measurement. LD fish and fishing tools. Slip and cut off 138' of drilling line. Unhang blocks and set Crown-o-matic. MU 8-1/2" bit, 9-5/8" casing scraper and BHA. Replace dies in 4-1/2" slips. RIH w/9-5/8" scraper assembly. Make several passes from 8557' to 9018'. POOH w/9-5/8" casing scraper assembly.
04/01/00	POOH & LD 9-5/8" casing scraper. MU 6-1/8" bit & 7" casing scraper assembly & RIH. LD five joints of 4-1/2" drill pipe. RIH & tag fill at 10226'. Clean out fill from 10226' to 10398'. Circulate bottoms up. Pull pipe to 9400'. Bullhead away 200 bbls seawater @ 5 bpm - 840 psi. to clean perforations. RIH & tag fill at 10363'. POOH & LD 4-1/2" drill pipe. POOH & stand back 79 stands of 4-1/2" drill pipe. LD 77 joints of 4-1/2" drill pipe.
04/02/00	LD 48 joints of 3-1/2" drill pipe, stand back 4-3/4" DC's, pull wear bushing and MU test plug. RU BOP test pump. Unable to get test. Back out tubing hanger anchor screws. Unable to pull test plug – stuck. Work landing joint from 50k to 100k – no good. Discovered that the Camron test plug had been run instead of the FMC test plug. Back landing joint out of test plug. MU hydraulic jars, 4-3/4" drill collar and intensifier. Screw into test plug and jar free. Recovered all of test plug, LD jars, drill collar and intensifier. MU correct test plug and land. Test all 3-1/2" BOPE at 300 psi low and 3000 psi high. Remove test plug and install tubing hanger. Test between seals on tubing hanger at 2000 psi. Remove tubing hanger.
04/03/00	Install pup joint on top of the wireline entry guide. MU tubing tail assembly below Baker packer. Con't RIH, PU 3-1/2" tubing.
04/04/00	PU Baker T-5 SCSSSV & tie in hydraulic control line - test. Con't PU & RIH w/24 jts. of 3-1/2" Hydril 501 tubing. MU tubing hanger and land tubing hanger. Run in lock-down screws. RU wireline lubricator and test at 1000 psi. Make gauge run to "BX" nipple at 8979'. Set and shear off "X" plug in nipple at 8979'. POOH & RD wireline equipment. RU test pump and test tubing at 3000 psi. Pressure bleed back to 2800 psi in 15 mins. Fill casing with seawater (85 bbls) & MU lubricator. RIH w/retrieving tool.
04/05/00	Redress tubing hanger and hang 1' above landing in wellhead. RU wireline lubricator and RU for change over. Start changing well over with packer fluid - 563 bbls. RIH w/wireline plug and set in BXN nipple at 9079'. Fill tubing and set packer with 3000 psi at 8996'. Bleed off pressure & POOH w/wireline plug. RD wireline. Fill backside, test packer and backside at 1000 psi for 15 mins. - good. Drain BOP and riser, land tubing hanger and RIH w/anchor screws. Test tubing hanger seals at 5000 psi. Back out landing joint and install back pressure valve in tubing hanger. Pull rotary table and ND BOP. Reset rotary table and PU landing joint. Screw into tubing hanger. Unland tubing hanger and orient. Reland hanger and test at 5000 psi. Install production tree and test bonnet at 5000 psi. Installed blind flanges on tree and remove back pressure valve.
04/06/00	RDMO - Release rig and crew from well C-1 at 06:00 hrs.

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE FMC
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL **C-1 Light Pool**
COMPLETION DATE 1/13/88
WORKOVER 2/26/94; 9/16/95, 4/15/97, 4/6/00

CURRENT
Gas Injector



829' Baker T-5 SCSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

ZONES (updated 10/98)		
FORMATION	M.D.	V.S.S.
PA17A-Top	9186'	-7175'
PA18-Top	9267'	-7233'
PA19-Top	9358'	-7297'
PA19A-Top	9490'	-7392'
PA20-Top	9620'	-7487'
PA20A-Top	9688'	-7538'

8981' Baker BX" Nipple (2.75" ID)

8996' (7172' TVD) Baker 9-5/8" 'HB' Packer

T.O.L. @ 9018'

9069' Baker BX" Nipple (2.703" ID)
9080' Baker "BXN" Nipple (2.703"/2.635" ID)
9117' W/L Re-Entry Guide

9-5/8" 43.5# @ 9415'

PERFORATIONS		
FORM.	M.D.	V.S.S.
PA19A	9510' - 9570'	-7407'- -7450'
Perfs. are .50" dia. @ 4 SPF		
PA20, 20A	9620' - 9700'	-7487'- -7547'
PA20A	9730' - 9830'	-7570'- -7645'
PA21	9876' - 9996'	-7680'- -7769'
Perfs. are .42" dia. @ 6 SPF		

7" 26# @ 10498'

10363' Top of Fill
10412' Cement Plug

DIRECTIONAL DATA
VERTICAL TO 1690'
MAX ANGLE 52° @ 10,433' AND 52° @ TD

PBTD 10412' (8100' TVD, -7968' VSS)
TD 10498' (8235' TVD, -8102 VSS)

DATE 4/5/00
BY DSH
Revised by TBG

CONFIDENTIAL

PROPRIETARY DATA

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with
One copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20062	C-1	Arguello Inc. 17100 Calle Mariposa Reina Goleta, CA 93117

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	756497001 ~~OCS-P-0316~~	02372

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	55N – 84W	California Map No. 6A

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GL/GI
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	Clean out and convert to	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	gas injection	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,995.44m Y=3,819,240.18m UTMZone 10 N 05118 E 00671	OCS-P-0450	Pt. Arguello	**464**	California Map No. 6A

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	00133'	Hidalgo – Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)
Convert to gas injection well.
Pull gas lift string. Clean out sand and remove 7" packer and 7" retainer. Run 3-1/2" tbg and set up for gas injection.

SEE ATTACHED WORK PROGRAM.

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
FEB 2 3 2000
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
T. B. GOERES	805-562-3704
28. AUTHORIZING OFFICIAL (Type Name) **Thomas Gladney**	29. TITLE Project Manager
30. AUTHORIZING SIGNATURE	31. DATE 2-15-00

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell FOR Phillip R. Schroeder

TITLE District Supervisor

DATE 2/24/00

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

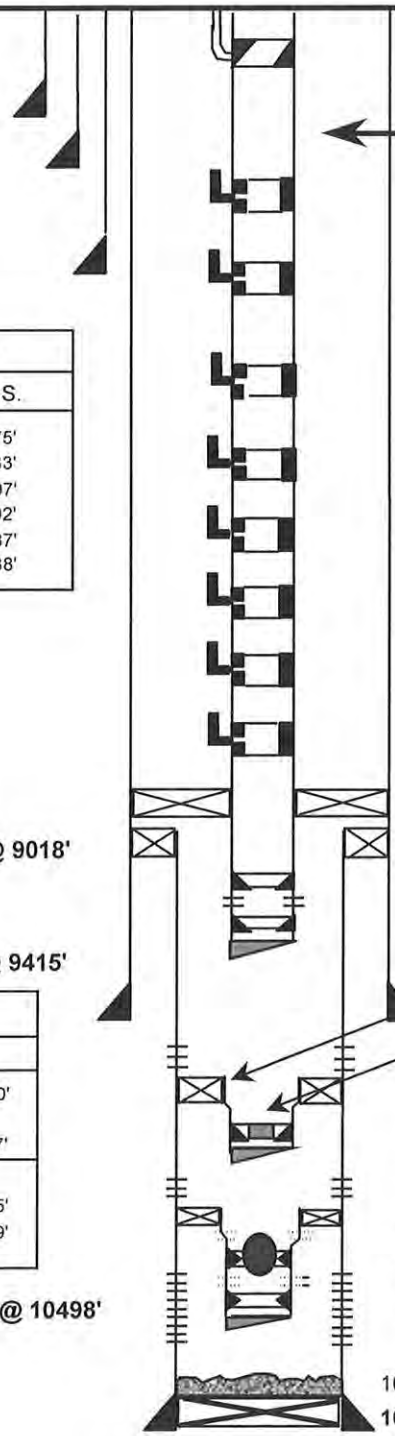
Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE FMC
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL **C-1 Light Pool**
COMPLETION DATE 1/13/88
WORKOVER 2/26/94; 9/16/95, 4/15/97

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

799' Baker T-5 SCSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT as of 1/20/98

Mc Murry MANDRELS 3-1/2" FO-1.5		McMurry Valves 1-1/2" VRMT	
M.D.	T.V.D.	P.S.I. (scp)	PORTS
2160'	2151'	1114	1/4"
3889'	3530'	1065	1/4"
5250'	4538'	1047	1/4"
6233'	5229'	1028	1/4"
6906'	5730'	1006	5/16"
7485'	6137'	Broken Dummy	
8059'	6525'	Dummy	
8665'	6935'	Dummy	

ZONES (updated 10/98)

FORMATION	M.D.	V.S.S.
PA17A-Top	9186'	-7175'
PA18-Top	9267'	-7233'
PA19-Top	9358'	-7297'
PA19A-Top	9490'	-7392'
PA20-Top	9620'	-7487'
PA20A-Top	9688'	-7538'

8996' (7172' TVD) Baker 9-5/8" 'HB' Packer

T.O.L. @ 9018'

9132' Otis "X" Nipple (2.75" ID)
9133'-9142' Perforated Pup
9143' Otis "X" Nipple (2.75" ID)
9174' W/L Re-Entry Guide

9-5/8" 43.5# @ 9415'

Catcher sub parts still here

21% NH4CL water above plug

Baker Model 'D' Packer @ 9710'
3 1/2" pup joint (6 foot)
9720' Otis "XN" nipple (2.635" ID) (***XN plug set 10/9/97***)
Muleshoe @ +/- 9722'

PERFORATIONS

FORM.	M.D.	V.S.S.
PA19A	9510' - 9570'	-7407'- -7450'
Perfs. are .50" dia. @ 4 SPF		
PA20, 20A	9620' - 9700'	-7487'- -7547'
Isolated Perfs		
PA20A	9730' - 9830'	-7570'- -7645'
PA21	9876' - 9996'	-7680'- -7769'
Perfs. are .42" dia. @ 6 SPF		

9850' Baker 'FB-1' Retainer (4" ID)
9866' Baker 'R' Nipple w/ NoGo (2.697" ID) w/ stand valve set 2/4/92
9867' Perf'd Pups (2-10' Pups)
9886' Baker "R" Nipple w/NoGo (2.442" ID)
9888' W/L Re-Entry Guide

7" 26# @ 10498'

10384' Top of Fill
10412' Cement Plug

DIRECTIONAL DATA
VERTICAL TO 1690'
MAX ANGLE 52° @ 10,433' AND
52° @ TD

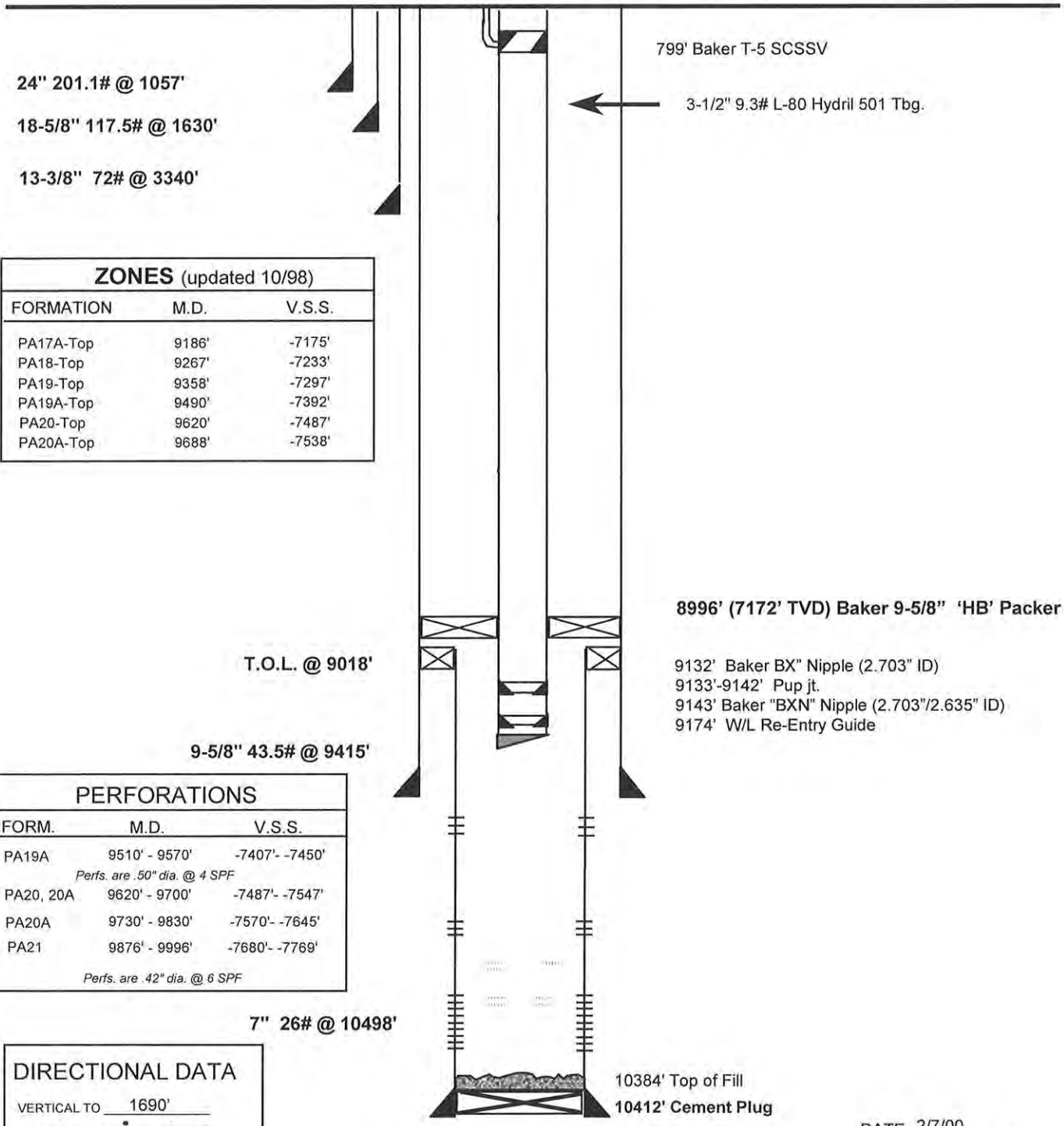
PBTD 9722' (7697' TVD, -7564' VSS)
TD 10498' (8235' TVD, -8102 VSS)

DATE 11/11/98
BY RMQ/DML
Revised by DSH

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE FMC
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL **C-1 Light Pool**
COMPLETION DATE 1/13/88
WORKOVER 2/26/94; 9/16/95, 4/15/97

PROPOSED
Gas Injector



ZONES (updated 10/98)

FORMATION	M.D.	V.S.S.
PA17A-Top	9186'	-7175'
PA18-Top	9267'	-7233'
PA19-Top	9358'	-7297'
PA19A-Top	9490'	-7392'
PA20-Top	9620'	-7487'
PA20A-Top	9688'	-7538'

PERFORATIONS

FORM.	M.D.	V.S.S.
PA19A	9510' - 9570'	-7407'- -7450'
Perfs. are .50" dia. @ 4 SPF		
PA20, 20A	9620' - 9700'	-7487'- -7547'
PA20A	9730' - 9830'	-7570'- -7645'
PA21	9876' - 9996'	-7680'- -7769'
Perfs. are .42" dia. @ 6 SPF		

DIRECTIONAL DATA
VERTICAL TO 1690'
MAX ANGLE 52° @ 10,433' AND
52° @ TD

PBTD 9722' (7697' TVD, -7564' VSS)
TD 10498' (8235' TVD, -8102 VSS)

DATE 2/7/00
BY DSH
Revised by TBG

ARGUELLO

Workover Procedure
Hidalgo C-1
OCS-P-0450
Point Arguello Field

OBJECTIVE:
Clean out & convert to gas injection well.

ELEVATIONS:

Water Depth:	430 ft.
Derrick Floor to MLLW:	133 ft.
Derrick Floor to Ocean Floor:	466 ft.
Derrick Floor to Tubing Head:	59.2 ft.

BLOWOUT PREVENTION EQUIPMENT:

13-5/8" 5000 psi Class IV BOPE (RSRRA) shall be utilized. Test BOPE's to 300 psig low pressure and 3000 psig. High pressure and record on chart.

HYDROGEN SULFIDE CONSIDERATIONS:

The Monterey has strong potential for H2S gas. Hydrogen sulfide concentrations from producing wells can exceed 15,000 ppm. Assume all gas circulated to the surface to have H2S potential. All operations shall be performed in accordance with current MMS approved H2S Contingency Plan for Platform Hidalgo. H2S monitors will be located on the rig floor, flow nipple and shale shaker.

COMPLETION FLUID:

The fluids used to kill the and workover this well will consist of filtered seawater with the additions of KCL for weight as needed. An 8.5 ppg seawater (.44 psi/ft) will provide a 450 psi overbalance assuming a Monterey reservoir pressure of 2800 psi at 7400 ft. TVD reference datum (.38 psi/ft gradient or 7.3 ppg EMW). Adequate concentrations of Sulf X H2S scavenger will be kept on location at all times. The pH will be that of seawater/KCL and not controlled. COS will be added to prevent scale formation. While milling out downhole packers and cleaning out sand, lost circulation material may be added. After well is cleaned out, all fluids shall be filtered to a minimum of 2 microns.

WELL CONTROL CONSIDERATIONS:

Review of past workovers on Point Argeullo wells indicates that fluid losses can approach 150 bbls per hour. Thus, it is critical to keep the hole full. Utilize trip tank with centrifugal pump to monitor fluid losses and keep the hole full. Prior to cleaning out the sand the well may stand full but will begin taking fluid during the clean out.

Workover Procedure
Hidalgo C-1
OCS-P-0450
Point Arguello Field

1. Obtain proper permits and well information.

2. Fill out required JSA.

3. R/U lubricator and tape off area. Test Lubricator and riser with gas lift injection to 1200 psi for 10 minutes. STAY CLEAR! Have platform operator bleed pressure to 0 psi from well bay. Close wireline rams. Open well. Assure pressure above rams stays at 0 psi for 10 minutes. Equalize wireline valve across rams and open.

4. R/U 1 7/8" wedge rope socket, 5' x 1 7/8" stem, 1 7/8" knuckle joint, 3' x 1 7/8" stem, 1 ¾" oil jars, 1 7/8" spang jars-30" stroke, and 2.867" gauge ring.

5. Lock open SCSSV and run 2.867" gauge ring to 2.75" X nipple at 9,132' MD.

6. Verify that tubing and casing are equalized.

7. Run 3 ½" OM-5 kickover tool with 1 5/8" JDS pulling tool to gas lift mandrel at 8,665' MD. Locate dummy and pull.

8. Kill well with filtered seawater down tubing and circulating returns up through casing tubing annulus. Take returns through production facilities. Observe well for 30 minutes to insure well is dead.

9. Close SSSV and install type "H" BPV in tubing hanger.

10. Nipple down tree. Install riser, spools and 13-5/8"Class IV BOPE. Screw tubing hanger running tool (check condition of "O" ring) with tubing joints onto tubing hanger (approximately 8 turns to left). Test BOPE, choke and kill lines to 300 psig. Low and 3000 psi high. MMS to witness testing of BOPE. Record same on chart.

11. Remove running tools and tubing joints and change BPV to TWC with dry rods. Test BOPE blind rams to 300 psig. Low and 3000 psi high. MMS to witness testing of BOPE. Record same on chart.

12. Remove the TWC. Screw running tool and tubing joints onto the tubing hanger, back out tubing head lockscrews and release Baker "Hydra-Pak" hydraulic packer and pull hanger to rig floor. Mark the landing joints at the rig floor and measure while coming out with the hanger. Measure to bottom landing shoulder of the tubing hanger and record measurement for later use in the completion phase.

13. Continue to pull out of hole with the 3-1/2" tubing. Lay down scssv, gas lift mandrels, nipples, and packer. Be sure to keep hole full of filtered seawater at all times. Send Tubing Retrievable subsurface safety valve in for service and redress.

14. Mill 5-7/8" OD Sawtooth Rotary Shoe with 12' of 2-1/4" OD Stinger on 3-1/2" IF Drill Pipe. RIH and clean out sand to top of Model 'D' Packer at 9710'. Clean out ID of Packer to 9722'. Circulate clean, add lost circulation material as needed to get circulation, POOH.

15. Make up CJ Milling tool, (2) 5-1/4" OD Junk Subs, Bit Sub, Hydraulic Jar on (6) 4-3/4" OD Drill Collars, RIH to 9700', break circulation and sting into Model 'D' Packer at 9710'. Mill over Model 'D' Packer (approx. 38") until packer releases, POOH. Milling time 4 hours.

16. Make up 5-7/8" OD Rotary Shoe, (2) 5-1/4" OD Junk Subs, Bit sub, Hydraulic Jar on (6) 4-3/4" OD Drill Collars, RIH to 9850' and mill over FB Retainer until retainer moves down hole, circulate clean, POOH. Milling time 2 hours.

17. Make up 5-7/8" OD Close Catch Overshot, 4-3/4" OD Bumper Sub, 4-3/4" Hydraulic Jar on (6) 4-3/4" OD Drill Collars, RIH Engage FB Retainer, POOH lay down tools. Engage fish 1 hour.

18. MU and RIH w/6-1/8" bit and casing scraper. Clean out to 10,384' md. POH and lay down 3-1/2" tubing. Send tubing to shorebase.

19. MU Baker 9-5/8" "HB" packer, nipples, SCSSV. Run in hole with tubing as per tubing string design.

    NOTE:
    A. Drift tubing with 3.818" drift.
    B. Prior to picking up SSSV be sure to function test and pressure test.
    C. Band SCSSV control line to tubing, above and below each connection and one in the center of each joint.
    D. Pressure test tubing to 3000 psig while running in well.

20. MU tubing hanger onto tubing string. Attach all control lines into appropriate ports. Be sure to install pipe plugs into any ports that are not being utilized.

21. MU tubing hanger running tools and landing joints to the tubing hanger. Land hanger and engage lock screws. Set packer per Baker Oil Tools procedure. Remove landing joints.

22. Install BPV and nipple down BOPE.

23. Clean the tubing hanger neck and install two 6-1/4" and one 5-1/2" "S" seals and the metal seal ring. Remove the pipe plugs from the control line ports being used and install seal subs.

24. Lubricate the neck of the hanger with light oil and fill void area above the tubing hanger. Install a new "RX" ring gasket.

25. Install production tree and test hanger, API ring and all lock screw packing to 3000 psig.

26. Remove BPV and replace with TWC and perform body test of tree.

27. Secure well and skid rig to next well C-2 Redrill.

28. Leave well set up for Gas Injection.

February 2, 2000
Thomas B. Goeres
Operations Engineer

Thomas B. Goeres

PROPRIETARY DATA

Confidential Copy
MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies ... one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20062	C-1	Chevron U.S.A. Production Co. 646 County Square Drive Ventura, CA 93003

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello		00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,995.44 Y=3,819,240.18	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Work done on 1/11/97

SUMMARY: Pumped 4 bbls a minute at 2800 psi, 54 bbls pre flush of 3% KCL, 47 bbls of Xylene, 100 bbls of 3% KCL, 476 bbls of 15% HCL Acid, 220 bbls displacement of 3% KCL, and 150 bbls displacement of Seawater. Shut in pressure was 1500 psi. Did not show any breakdown during pumping.

CONFIDENTIAL

SEE ATTACHED WORK PROCEDURE

MINERALS MANAGEMENT SERVICE
JAN 23 1998
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
T.A. Ray	**805-658-4378**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
V. SANKUR	**Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE
R. M. Hoshmand for V. Sankur	**January 21, 1998**

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder TITLE District Supervisor

DATE 1/27/98

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 which may not be used)

C-1 STIMULATION

SERVICE COMPANY: BJ
CHEVRON: Terry Ray
PLATFORM HIDALGO
DATE: 1-8-98

SUMMARY: Pumped 4 bbls a minute at 2800 psi, 54 bbls pre flush of 3% KCL, 47 bbls of Xylene, 100 bbls of 3% KCL, 476 bbls of 15% HCL Acid, 220 bbls displacement of 3% KCL, and 150 bbls displacement of Seawater. Shut in pressure was 1500 psi. Did not show any breakdown during pumping.

1-8-98 Thursday
13:00 Held rig up safety meeting on the main deck for rigging up.
13:20 Rigging up BJ, witnessed emergency shut down on both BJ diesel engines.
15:00 Held safety meeting with operations in the control room on mixing acid in the poly tanks.
15:30 Started Mixing acid into four poly tanks, 119 bbls in each poly.
19:30 Done mixing 15% HCL acid in the poly tanks. Secured for the night.
1-9-98 Friday
06:30 Held safety meeting with operations in the control room on pumping acid.
08:05 Pressure tested lines to 4200 psi. and held for 10 min.
09:10 Opened master valve, pumped 30 bbls of 3% KCL at 2 bpm.
09:30 Platform had major shut down, had to go to safe briefing, secured area.
11:40 Started pumping KCL again, see table for pumping program.

Start Time	Type Fluid	Fluid bbls pumped	Total Pumped	Tubing PSI	Casing PSI	BBLS PER MIN
09:10	3% KCL	30	30	1000	600	2
11:40	3% KCL	40	40	1800	600	2
11:47	3% KCL	54	54	2150	600	2
11:47	Xylene	-	54	2,700	600	3
11:52	Xylene	15	69	2,700	600	3
12:00	Xylene	30	84	2400	2,400	2
12:10	Xylene	47	101	2,400	2,400	2
13:00	3% KCL	100	201	2,400	2,400	2

Had communication with 9 5/8" casing, finished the Xylene and displaced with 100 bbls of KCL.
Rigged down BJ, rigging up slickline to pull the working valves and replace them with dummies.

1-11-98 Sunday
13:05 Held safety meeting with operations in the control room on pumping acid.
13:50 Pressure tested lines to 4,700 psi, held for 10 minutes.
NOTE: When pumping rate is established, will put 1,100 gas lift pressure on the 9 5/8".

14:05	3% KCL	-	201	2,530	1,100	3
14:12	3% KCL	21	222	2,808	1,100	3
14:18	15 % HCL	15	237	2,808	1,100	3
14:38	15 % HCL	60	282	2,830	1,100	3

14:55	15 % HCL	120	342	2,835	1,100	4
15:10	15 % HCL	180	402	2,840	1,100	4
15:25	15 % HCL	240	462	2,845	1,100	4
15:55	15% HCL	360	582	2,835	1,100	4
16:30	15% HCL	476	698	2768	1,100	3.5

16:40 Tried to supply BJ with produced water from the platform. Wasn't successful, going to use up the 3% KCL and then seawater for displacement.

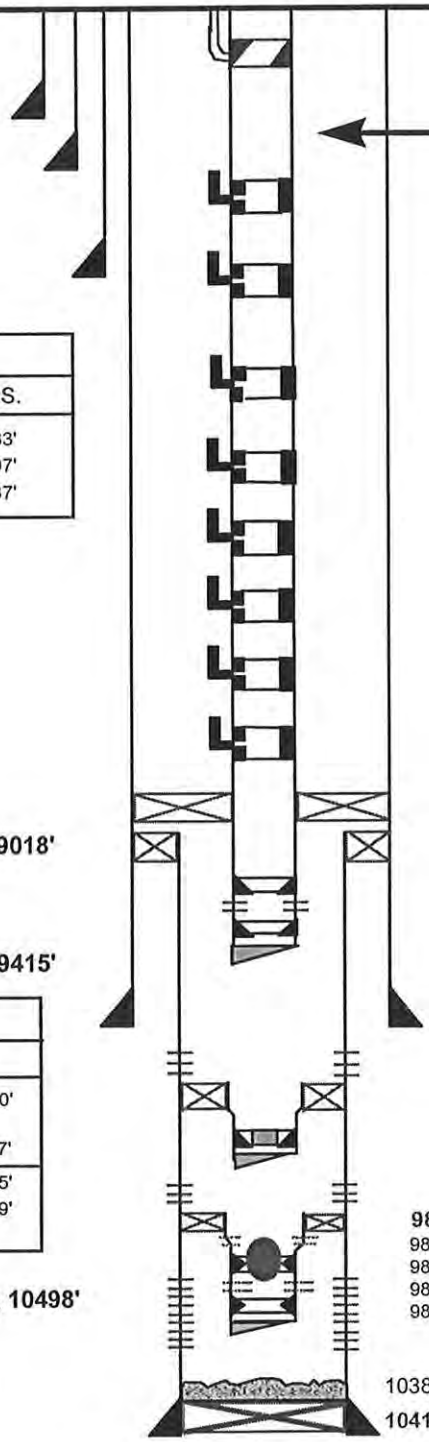
18:00	3% KCL	100	798	2,840	1,100	4
18:25	3% KCL	220	918	2,870	1,100	4
19:08	Seawater	100	1,018	2,880	1,100	4
19:25	Seawater	150	1,068	2,875	1,100	4

19:25 Stopped Pumping, shut in pressure 1,500 psi.
20:00 Rigged down BJ and prepared for backload.

END OF REPORT

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH		WELL	**C-1**
TREE	FMC	COMPLETION DATE	1/13/88
5000 PSI W.P.		WORKOVER	2/26/94; 9/16/95, 4/15/97

CURRENT



799' Baker T-5 SCSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

GAS LIFT			
Mc Murry MANDRELS 3-1/2" FO-1.5		McMurry Valves 1-1/2" VRMT	
M.D.	T.V.D.	P.S.I. (scp)	PORTS
2160'	2151'	1115	1/4"
3889'	3530'	1066	1/4"
5250'	4538'	VR ORIFICE	5/16"
6233'	5229'	Dummy	
6906'	5730'	Dummy	
7485'	6137'	Dummy	
8059'	6525'	Dummy	
8665'	6935'	Dummy	

ZONES		
FORMATION	M.D.	V.S.S.
PA18-Top	9267'	-7233'
PA19-Top	9358'	-7297'
PA20-Top	9620'	-7487'

8996' (7172' TVD) Baker 9-5/8" 'HB' Packer

T.O.L. @ 9018'

9132' Otis "X" Nipple (2.75" ID)
9133'-9142' Perforated Pup
9143' Otis "X" Nipple (2.75" ID)
1 Joint tubing
9174' W/L Re-Entry Guide

9-5/8" 43.5# @ 9415'

PERFORATIONS		
FORM.	M.D.	V.S.S.
PA19A	9510' - 9570'	-7407'- -7450'
Perfs. are .50" dia. @ 4 SPF		
PA20, 20A	9620' - 9700'	-7487'- -7547'
PA20A	9730' - 9830'	-7570'- -7645'
PA21	9876' - 9996'	-7680'- -7769'
Perfs. are .42" dia. @ 6 SPF		

Baker Model 'D' Packer @ 9710'
3 1/2" pup joint (6 foot)
9722' Otis "XN" nipple (2.635" ID) ***(XN plug set 10/9/97)***
Muleshoe @ +/- 9724'

9850' Baker 'FB-1' Retainer (4" ID)
9866' Baker 'R' Nipple w/ NoGo (2.697" ID) w/ stand valve set 2/4/92
9867' Perf'd Pups (2-10' Pups)
9886' Baker "R" Nipple w/NoGo (2.442" ID)
9888' W/L Re-Entry Guide

7" 26# @ 10498'

10384' Top of Fill
10412' Cement Plug

DIRECTIONAL DATA
VERTICAL TO 1690 '
MAX ANGLE 52 @ 10433 ' AND
52 @ TD '

PBTD 9722' (7697' TVD, -7564' VSS)
TD 10498' (8235' TVD, -8102 VSS)

DATE 11/25/97
BY RMQ/DML
Revised by DSH

Confidential Copy PROPRIETARY DATA Submit original plus three copies one copy marked "Public Informa ." OMB No. 1010-0045
MINERALS MANAGEMENT SERVI Expiration Date: September 30, 1999
SUNDRY NOTICES AND REPORTS ON WELL

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20062	C-1	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive, Ventura, CA 93003
Pt. Arguello		00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

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X=710,995.44 Y=3,819,240.18	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED WORK PROCEDURE

RECEIVED VERBAL APPROVAL FROM MIKE MITCHELL, MMS ON NOV 20, 1997. RMQ

MINERALS MANAGEMENT SERVICE
Dev NOV - 4 1997
RECEIVED
SANTA MARIA DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R. M. QUILTER	**805-658-4400**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
V. SANKUR	**Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE R. M. Hoshman	31. DATE 11/20/97

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder TITLE District Supervisor

Phillip R. Schroeder DATE 11/20/97

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 which may not be used)

MMS 124 Out Pt.A-P 4+1 cc
Orig: Vta Well File-Corresp.
VDE-hold for MMS approval
MMS Santa Maria (3 + 1 PI)

PLATFORM HIDALGO STIMULATION PROGRAM
WELL : C-1
DATE : November 14, 1997
PROPOSED JOB DATE : Late November 1997

FLUID VOLUMES REQUIRED

The KCL and xylene will be premixed by BJ Services. The acid will be brought out in concentrated form and blended in poly tanks on the platform. Displacement water and liquid caustic are available on the platform.

KCL PREFLUSH (40 BBLS)

1680 gallons 3% KCl fluid
5 gals/1000 gals Deemulsifier / Surfactant

XYLENE SYSTEM (48 BBLS)

2000 gallons Xylene
5 gallons/1000 gallons Deemulsifier / Surfactant

ACID SYSTEM (476 BBLS)

20,000 gallons 15% HCl Acid

18,000 gallons 15% HCl acid
2,000 gallons Mutual Solvent
10 gallons/1000 gallons Corrosion Inhibitor
10 gallons/1000 gallons NTA Iron Control Agent
15 pounds/1000 gallons Erythorbic Acid
5 gallons/1000 gallons Deemulsifier / Surfactant

DISPLACEMENT FLUID (443 BBLS)

18,600 gallons (Total Displacement Volume)

18,600 gallons produced water

PRIOR TO STIMULATION PROGRAM

Prior to the acid stimulation, the tubing will be pressure tested to ensure no leaks are present.

1. Fill up tubing/casing annulus with sea water. Theoretical volume of casing to third gas lift mandrel is 329 barrels.
2. Apply gas lift gas pressure down the tubing and monitor casing pressure for any signs of tubing/casing communication.
3. RIH with a dump bailer filled with 21% NH_4Cl fluid to the top of the XN plug at 9722' MD. Dump a total of 24 gallons of the ammonium chloride fluid. This volume will fill the sump packer and 10 feet of the 7" liner above the sump packer. This fluid cushion will prevent acid from contacting the XN plug during the acid job.

STIMULATION PROGRAM

Hold a safety meeting with all personnel involved to discuss the following:

- Job plan (Pressures and rates expected, types of fluids and gases involved, communication devices(radios, platform intercom))
- Testing procedures (Pressure testing of lines and platform announcement of such, emergency shutoff valves on equipment)
- Safety procedures (Locations of safe briefing areas, eye washes / showers, protective clothing, wellbay watch, tape off area of work, location of high pressure lines)
- H_2S hazards (Emergency shutdown procedures, timing of any scheduled H_2S drills)
- General procedures (Platform alarms)

1. Inspect entire well area (BOP deck, well bay, and lower well bay) for possible pathways of well fluids. Take precautions to eliminate these potential spill paths. Ensure safety equipment is operating satisfactorily.

2. Rig up pump equipment. Acid hoses with a working pressures of 5000 psi are to be used downstream of triplex pumps. Tie down and secure all acid hoses.

3. Using seawater, pressure test lines against swab valve to 4500 psi for eight minutes. Check the operation of all pressure and data recorders. Lock out SSV and SSSV. Apply 1100 psi of gas lift gas pressure on backside.

4. Open well C-1 and begin recording pressures. Establish pump rate of 1 barrels per minute with 40 barrels of KCl preflush. Do not exceed 4500 psi surface treating pressure. Pump 2000 gallons of xylene mixture. Do not exceed 4500 psi treating pressure. Pump 20000 gallons of 15% HCl acid mixture. Do not exceed 4500 psi treating pressure.

5. Overdisplace acid to perforations by pumping 443 barrels of seawater. (350 barrels overdisplacement) Do not exceed 4500 psi treating pressure.

6. Rig down acid equipment. Leave well shut-in for 24-48 hours.

7. Hook up gas lift chart to well C-1 after acid equipment is rigged down. This will enable us to record initial tubing and casing pressures during the well unloading period. Obtain a copy of this chart to be included in job file.

Unloading Program

1. After shut-in time, produce well C-1 on a reduced choke into V-71 and V-72. Check well fluids for pH. Liquid caustic is available to neutralize any low pH returns. When well C-1 is clean enough to be brought back into the production system, route well C-1 into V-3 so the return fluids won't upset the fluids in V-1 and V-2. If necessary, apply gas lift to help unload the well. Record C-1's initial tubing and casing pressures during the well unloading period. Print out a copy of this chart to be included in the job file. Exercise caution when unloading the casing fluid to avoid fluid cutting the valves. While monitoring casing pressure, start gas lift gas to casing. Increase casing pressure 50 psi each ten minutes until 400 psi is observed (80 minutes). Increase casing pressure 100 psi each ten minutes until system pressure is reached or top valve is unloaded. Do not exceed 600 MCFD gas injected for the first day. Once tubing pressures become steady, slowly open choke until 100% open.

2. Optimize gas-lift as needed. Test and report C-1 gauges daily for four days, weekly thereafter. Monitor surface pressures and oil, water and gas rates.

RMQ:
C:\C1ACID2

PROPRIETARY DATA

Confidential Copy
MINERALS MANAGEMENT SERV. E
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Inform n."

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20062	C-1	Chevron U.S.A. Production Co. 646 County Square Drive Ventura, CA 93003

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello		00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

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REQUEST APPROVAL ___	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
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35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Work done on 7/19/97

Held safety meeting, pumped 23 bbls Xylene and than 284 bbls of 15% HCL acid. Displaced with 135 bbls of seawater. Shut in pressure 1,900 psi at end of the job.

SEE ATTACHED WORK PROCEDURE

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
JUL 31 1997
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
T.A. Ray	**805-658-4378**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
V. SANKUR	**Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE
V. Sankur	7/25/97

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell for Phillip R. Schroeder

TITLE District Supervisor

DATE 8/4/97

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 which may not be used)

MMS 124 Out Pt.A-P 4+1 cc
R. M. Hoshman
VDE-hold for MMS approval
MMS Santa Maria (3 + 1 PI)

C-1 STIMULATIC.I

SERVICE COMPANY: BJ
CHEVRON: Terry Ray
PLATFORM HIDALGO
DATE: 7-19-97

7-19-97 Saturday

08:45 Held rig up safety meeting on the main deck.
12:33 Witnessed emergency shut down on both BJ diesel engines.
16:00 Mixed acid into both poly tanks, 142 bbls in each poly.
16:45 Held safety meeting with operations in the control room.
17:00 Pressure tested lines to swab to 4,200 psi and held pressure for 10 minutes.
17:10 Opened valve and pumped sea water down 9 5/8 casing to fill up back side.
17:20 Pumped 14 bbls, a total of 329 bbls of seawater was pumped in the 9 5/8 casing.
17:30 Opened master valve, pumped 15 bbls of sea water at 2 bpm.
17:40 Put 1,180 psi on 9 5/8 with the gas lift system.
See table for pumping program.

Start	Type	Fluid bbls	Total	Tubing	
Time	Fluid	Volume	Volume	PSI	BPM
17:30	Seawater	15	15	2,600	2
15:45	Xylene	23	38	2,700	2
18:15	15 % HCL	0	38	2,800	3.5
18:30	15 % HCL	53	91	2,800	3.5
18:45	15 % HCL	91	129	2,700	3.5
19:10	15 % HCL	142	180	2,700	3
19:20	15 % HCL	192	230	3,000	5
19:30	15 % HCL	242	280	3,000	5
19:55	15 % HCL	284	323	2,700	2
20:00	Seawater	0	323	2,800	3
20:30	Seawater	90	413	2,800	3
20:45	Seawater	135	458	2,800	3

20:45 Stopped Pumping, shut in pressure 1,900 psi.
21:00 Rigged down BJ.

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OMB No. 1010-0045
Expiration Date: September 30, 1999

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20062	C-1	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive Ventura, CA 93003
Pt. Arguello		00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,995.44 Y=3,819,240.18	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Work scheduled for 7/18/97

SEE ATTACHED WORK PROCEDURE

VERBAL APPROVAL RECEIVED FROM DAN KNOWLSON, MMS ON 7/15/97 AT 2:28 PM RMQ 7/15/97

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE PACIFIC OCS REGION JUL 21 1997 RECEIVED SANTA MARIA DISTRICT

JUL 2 2 1997

26. CONTACT NAME	27. TELEPHONE NUMBER
R.M. QUILTER	**805-658-4400**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
V. SANKUR	**Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE
V. Sankur	7/15/97

MMS 124 Out Pt.A-P 4+1 cc
R. M. Hoshman
VDE-hold for MMS approval
MMS Santa Maria (3 + 1 PI)

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APPROVED BY David R Knowlson & Phillip R. Schroeder TITLE District Supervisor

DATE 7/15/97

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 which may not be used)

PLATFORM HIDALGO STIMULATION PROGRAM
WELL : C-1
DATE : July 15, 1997
PROPOSED JOB DATE : Late July 1997

FLUID VOLUMES REQUIRED

The xylene will be premixed by BJ Services. The acid will be brought out in concentrated form and blended in poly tanks on the platform. Displacement water is available on the platform.

XYLENE SYSTEM

1000 gallons Xylene

ACID SYSTEM

12,000 gallons 15% HCl Acid

12,000 gallons 15% HCl acid
15 gallons/1000 gallons Corrosion Inhibitor
17 gallons/1000 gallons NTA Iron Control Agent
25 pounds/1000 gallons Erythorbic Acid
5 gallons/1000 gallons Deemulsifier / Surfactant

DISPLACEMENT FLUID

4,620 gallons (Total Displacement Volume)

4,620 gallons Sea water
5 gallon/1000 gallons Deemulsifier/Surfactant

PRIOR TO STIMULATION PROGRAM

Prior to the acid stimulation, the tubing will be pressure tested to ensure no leaks are present.

1. Fill up tubing/casing annulus with sea water. Theoretical volume of casing to third gas lift mandrel is 329 barrels.
2. Apply gas lift gas pressure down the tubing and monitor casing pressure for any signs of tubing/casing communication.

STIMULATION PROGRAM

Hold a safety meeting with all personnel involved to discuss the following:

- Job plan (Pressures and rates expected, types of fluids and gases involved, communication devices(radios, platform intercom))
- Testing procedures (Pressure testing of lines and platform announcement of such, emergency shutoff valves on equipment)
- Safety procedures (Locations of safe briefing areas, eye washes / showers, protective clothing, wellbay watch, tape off area of work, location of high pressure lines)
- H_2S hazards (Emergency shutdown procedures, timing of any scheduled H_2S drills)
- General procedures (Platform alarms)

1. Inspect entire well area (BOP deck, well bay, and lower well bay) for possible pathways of well fluids. Take precautions to eliminate these potential spill paths. Ensure safety equipment is operating satisfactorily.

2. Rig up pump equipment. Acid hoses with a working pressures of 5000 psi are to be used downstream of triplex pumps. Tie down and secure all acid hoses.

3. Using seawater, pressure test lines against swab valve to 4500 psi for eight minutes. Check the operation of all pressure and data recorders. Lock out SSV and SSSV. Apply 1100 psi of gas lift gas pressure on backside.

4. Open well C-1 and begin recording pressures. Establish pump rate of 1 barrels per minute with 630 gallons of seawater mixture. Do not exceed 4500 psi surface treating pressure. Pump 1000 gallons of xylene mixture. Do not exceed 4500 psi treating pressure. Pump 12000 gallons of 15% HCl acid mixture. Do not exceed 4500 psi treating pressure.

5. Overdisplace acid to perforations by pumping 110 barrels of seawater. (17 barrels overdisplacement) Do not exceed 4500 psi treating pressure.

6. Rig down acid equipment. Leave well shut-in for 12-36 hours.

7. Hook up gas lift chart to well C-1 after acid equipment is rigged down. This will enable us to record initial tubing and casing pressures during the well unloading period. Obtain a copy of this chart to be included in job file.

8. After shut-in time, produce well back to V-71 and V-72 vessels. If necessary, apply gas lift to help unload the well. Gauge C-1 daily for four days, weekly thereafter. Monitor production rates (oil / water / gas), surface tubing and casing pressures, and choke size.

Confidential Copy PROPRIETARY DATA

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: September 30, 1999

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20062	C-1	Chevron U.S.A. Production Co. 646 County Square Drive Ventura, CA 93003

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello		00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	X CHEMICAL	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,995.44 Y=3,819,240.18	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Work done 6/25/97
Pumped enzyme breaker down well

SEE ATTACHED WORK PROCEDURE

MINERALS MANAGEMENT SERVICE
JUL 14 1997
RECEIVED
SANTA MARIA DISTRICT

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26. CONTACT NAME	27. TELEPHONE NUMBER
T.A. Ray	**805-658-4378**
28. AUTHORIZING OFFICIAL (Type Name) **V. SANKUR**	29. TITLE **Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE 7/9/97

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell
Phillip R. Schroeder

TITLE District Supervisor

DATE 7/14/97

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 which may not be used)

C-1 STIMULATION

SERVICE COMPANY: BJ
CHEVRON: Terry Ray
PLATFORM HIDALGO
DATE: 6-25-97

6-25-97 Wednesday

08:45 Held a 15 minute safety meeting in the control room.
10:33 Witnessed emergency shut down on both BJ diesel engines.
10:50 Opened valve and pumped sea water down casing to fill up back side.
11:45 Pressure tested lines to swab to 4,800 psi and held pressure for 10 minutes.
11:58 Mixed enzyme and tested pH.
20:15 Opened master valve, pumped 10 bbls of sea water at 1 bpm.
See table for pumping program.

Start Time	Type Fluid	Fluid Volume	Total Volume	Nitrified Yes / No	PSI	BPM
11:27	Seawater	30	30	No	2,340	1
12:05	Seawater	5	35	Yes	2,700	1
12:10	**Enzyme**	5	40	Yes	2,970	1
	Enzyme	10	45	Yes	3,100	1
	Enzyme	15	50	Yes	3,155	1
	Enzyme	20	55	Yes	3,310	1
12:33	**Seawater**	5	60	**Yes**	3,344	1
	Seawater	10	65	Yes	3,548	1
	Seawater	15	70	Yes	3,580	1
12:48	**Seawater**	20	75	**No**	3,480	1
	Seawater	30	85	No	3,418	1
	Seawater	40	95	No	3,302	1
	Seawater	50	105	No	3,200	1
	Seawater	60	115	No	3,160	1
	Seawater	70	125	No	3,000	1
	Seawater	80	135	No	2,965	1
	Seawater	93	148	No	2,880	1

14:05 Stopped Pumping, rigged down BJ.

PROPRIETARY DATA

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MINERALS MANAGEMENT SERVICE

SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20062	C-1	Chevron U.S.A. Production Co. 646 County Square Drive Ventura, CA 93003

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello		00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	X CHEMICAL	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,995.44 Y=3,819,240.18	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Attach prognosis or summary of completed work, as appropriate)

Work scheduled for 6/23/97
Pump enzyme breaker down well

SEE ATTACHED WORK PROCEDURE

MINERALS MANAGEMENT SERVICE
JUN 23 1997
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SANTA MARIA DISTRICT

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
JUN 27 1997
FIELD OPERATIONS
CAMARILLO

CONFIDENTIAL

MMS 124 Out Pt.A-P 4+1 cc
R. M. Hoshman
VDE-hold for MMS approval
MMS Santa Maria (3 + 1 PI)

26. CONTACT NAME	27. TELEPHONE NUMBER
R.M. QUILTER	**805-658-4400**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
V. SANKUR	**Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE
	June 18, 1997

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APPROVED BY Phillip R. Schroeder TITLE District Supervisor

Phillip R. Schroeder

DATE 6/19/97

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 which may not be used)

PLATFORM HIDALGO STIMULATION PROGRAM
WELL : C-1
DATE : June 18, 1997
PROPOSED JOB DATE : Late June 1997

FLUID VOLUMES REQUIRED

The enzyme breaker will be brought out in concentrated form and will be mixed with fresh water and KCl in a batch mixer on the platform by BJ Services. Displacement water is available on the platform. The enzyme mixture will be carefully sampled and tested by the service company and engineering representative prior to pumping.

ENZYME BREAKER SYSTEM

840 gallons (Total Enzyme Breaker Volume)

1.3 gallons Enzyme G Breaker (concentrated)
827 gallons Freshwater
133 pounds Potassium Chloride
16.7 pounds Iron Control
1.3 gallons Acetic Acid (if needed as determined by testing)
5 gallons Surfactant

NITROGEN SYSTEM

1350 scf/bbl 60% quality nitrogen
5 gallons liquid foaming agent

DISPLACEMENT FLUID

3,906 gallons (Total Displacement Volume)

3,906 gallons Sea water
5 gallon/1000 gallons Deemulsifier/Surfactant

PRIOR TO STIMULATION PROGRAM

Prior to the enzyme stimulation, the tubing will be pressure tested to ensure no leaks are present.

1. Fill up tubing/casing annulus with sea water. Theoretical volume of casing to third gas lift mandrel is 329 barrels.
2. Temporarily install plug in Otis X nipple @ 9,132' MD and pressure test tubing with gas lift gas. Remove plug.

STIMULATION PROGRAM

Hold a safety meeting with all personnel involved to discuss the following:

- Job plan (Pressures and rates expected, types of fluids and gases involved, communication devices(radios, platform intercom))
- Testing procedures (Pressure testing of lines and platform announcement of such, emergency shutoff valves on equipment)
- Safety procedures (Locations of safe briefing areas, eye washes / showers, protective clothing, wellbay watch, tape off area of work, location of high pressure lines)
- H_2S hazards (Emergency shutdown procedures, timing of any scheduled H_2S drills)
- General procedures (Platform alarms)

1. Inspect entire well area (BOP deck, well bay, and lower well bay) for possible pathways of well fluids. Take precautions to eliminate these potential spill paths. Ensure safety equipment is operating satisfactorily.

2. Rig up pump and nitrogen equipment. Acid hoses with a working pressures of 5000 psi are to be used downstream of triplex pumps. Nitrogen line with a working pressure of 5000 psi is to be used. Tie down and secure all acid hoses.

3. Using seawater, pressure test lines against swab valve to 4500 psi for eight minutes. Using nitrogen, pressure test nitrogen line to 5000 psi for eight minutes. Check the operation of all pressure and data recorders. Lock out SSV and SSSV. Apply 300 psi of gas lift gas pressure on backside.

4. Open well C-1 and begin recording pressures. Establish pump rate of 1 barrels per minute with 210 gallons of seawater mixture. Nitrify this fluid with 1350 scf/bbl of nitrogen. Do not exceed 4500 psi surface treating pressure. Holding pump rate constant at 1 barrel per minute, pump 840 gallons of enzyme breaker mixture. Nitrify this acid with 1350 scf/bbl of nitrogen. Do not exceed 4500 psi treating pressure.

5. Displace acid to perforations by pumping 93 barrels of seawater at 1 barrel per minute. Nitrify one-half of this fluid with 1350 scf/bbl of nitrogen. Shut-off nitrogen for last half of this volume.

6. Rig down acid equipment. Leave well shut-in for 72 hours.

7. Hook up gas lift chart to well C-1 after acid equipment is rigged down. This will enable us to record initial tubing and casing pressures during the well unloading period. Obtain a copy of this chart to be included in job file.

8. After 72 hours of shut-in time, produce well back to V-71 and V-72 vessels. If necessary, apply gas lift to help unload the well. Gauge C-1 daily for four days, weekly thereafter. Monitor production rates (oil / water / gas), surface tubing and casing pressures, and choke size.

PROPRIETARY DATA

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Informatic

OMB No. 1010-0045
Expiration Date: September 30, 1999

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	56-045-20062	C-1	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive Ventura, CA 93003
Pt. Arguello	OCS-P-0450	00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ___	___	
			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed) X=710,995.44m Y=3,819,240.18m UTM Zone 10	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
N 05118 E 00671	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133' (orig.)	HIDALGO - Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Completed operations: Removed ESP completion. Temporarily isolated all but top 10' of perfs and performed hydraulic fracture treatment. Cleaned out and re-exposed lower perfs. Completed with 3-1/2" tubing.

Attached: Operations Summary 3/22/97 - 4/15/97 (3 pp.)
C-1 Frac Summary 4/5 - 4/6/97 (2 pp.)
Current Schematic

MINERALS MANAGEMENT SERVICE
MAY 19 1997
RECEIVED
SANTA MARIA DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
R. A. PICCIOTTI for G. R. STEINBACH	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE R. A. Picciotti	31. DATE May 14, 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell For Phillip R. Schroeder TITLE District Supervisor

DATE 5/22/97

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MMS-124-OUT-HID-D
Orig: L.L. Phillips,Vta Well File
MMS Santa Maria (3 + 1P.I.)

OPERATIONS SUMMARY REPORT

Field: **Point Arguello** Well: **OCS-P-0450 C-1 Frac Job** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20062** Category: **Workover**

03-22-97 **DAY 1: 6-HR. SUMMARY: KILL WELL, N/D TREE, N/U BOPE.**
Open SSSV, bleed down well. Install BPV & R/D prod tree. Test tree t/2750 psi w/no leaks. Plug SSSV lines.

03-23-97 **DAY 2: 24-HR. SUMMARY: TEST BOPE.**
Install & test Class IV BOPE 250 psi low/3000 psi high.

03-24-97 **DAY 3: 24-HR. SUMMARY: ATTEMPT TO PULL TBG.**
M/U landing jt & screw into doughnut. Pull tbg t/150K-NG. Free pkr @175K. Tbg hanger hung up in pitcher nipple. Wait for equip. Pump down tbg @4 bbl/min with heavy oil returns. Pump oil to prod. Pump down annulus @2bbls/min w/no returns.
** ***Mr. Roy Bobbitt with the MMS inspected drilling operations.***

03-25-97 **DAY 4: 24-HR. SUMMARY: MODIFY PITCHER NIPPLE.**
Pull & modify pitcher nipple with full bore ID, install same. Pump tbg volume down tbg @3.5 BPM. POOH w/tbg, ESP cable to SSSV. R/U & circ thru SSSV @4 BPM prior to L/D same.

03-26-97 **DAY 5: 24-HR. SUMMARY: PULL TUBING.**
POOH, w/ SSSV. POOH, L/D prod tbg, cntrl line, ESP cable. Note: holes in cntrl line, cracks in ESP cable coating.
** ***MMS on board for inspection.***

03-27-97 **DAY 6: 24-HR. SUMMARY: TEST BOPE.**
Finish L/D 3-1/2" tbg, jewelry, pump & motor. Test BOPE 250 psi low/3000 psi high for 5 min w/4-1/2" tbg. M/U 9-5/8" csg scraper on 3-1/2" tbg. RIH w/4-1/2" tbg.
** ***Bob Mense with MMS on board for inspection.***

03-28-97 **DAY 7: 24-HR. SUMMARY: RIH W/ CASING SCRAPER.**
RIH w/4-1/2" Hydril 501 tbg. Pump down kill line @2 BPM. Circ, wait for add'l tbg.

03-29-97 **DAY 8: 24-HR. SUMMARY: RIH W/ BRIDGE PLUG.**
Continue RIH w/ 4-1/2" tbg, tag TOL @9018'. Pump down tbg, oil in returns, pmp to Prod. POOH, l/d tbg & scraper. M/U bridge plug on 3-1/2", RIH. R/U for 4-1/2".

03-30-97 **DAY 9: 24-HR. SUMMARY: PULL BRIDGE PLUG. TEST BOPE.**
Continue RIH w/4-1/2" tbg to 9100'. Set Baker 7" Loc-set bridge plug @9100'. Fill tbg & hole, fluid level dropping. Re-set bridge plug, still leaking. POOH w/BP. Test BOPE w/ 3-1/2" & 4-1/2" tbg to 250/3000 psi for 5 min.
** ***Bob Hime with MMS on board for inspection.***

03-31-97 **DAY 10: 24-HR. SUMMARY: RIH WITH PACKER, TEST CASING.**
RIH w/Model E-A retrieve-o-matic pkr. Pump down ass'y. & fill hole. Set pkr @9093'; fill hole. Pressure test liner lap t/2450 psi for 30 min-no leak off. Pump tbg & rat hole volume @5 BPM @270 psi. Unseat pkr, POOH & L/D same. R/U Schlumberger & RIH w/Model "D" pkr on wireline.

OPERATIONS SUMMARY REPORT

Field: **Point Arguello** Well: **OCS-P-0450 C-1 Frac Job** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20062** Category: **Workover**

04-01-97 **DAY 11: 24-HR. SUMMARY: SET MODEL "D" PACKER.**
RIH w/wireline & set 7" Baker Model "D" pkr @9710'. POOH & R/D wireline. Slip & cut drill line. RIH w/Model "F" plug on 3-1/2" & 4-1/2" Hydril 501 tbg.

** ***Mr. Bob Hime with MMS visited the platform.***

04-02-97 **DAY 12: 24-HR. SUMMARY: SET 'F' PLUG IN PACKER. SET SAND PLUG.**
RIH w/Baker Model "F" plug. Pull t/9476'. R/U BJ set sand plug (4100 lbs 20/40 sd) and displace. POOH t/9520'. RIH w/wireline & tag fill @9541'. POOH w/wireline. Test hgr t/7700 psi, OK. POOH. M/U 2-7/8" frac pkr ass'y.

04-03-97 **DAY 13: 24-HR. SUMMARY: RUN FRAC STRING. SET "EA" FRAC PKR.**
Test frac ass'y to 6000 psi. RIH w/frac string testing w/Gatorhawk to 6000 psi. Set Baker "EA" pkr @9234' w/51K down wt & land tbg hgr. Test back side t/2500 psi-NG. Unseat pkr, change seals in hgr, reset pkr. Re-test back side t/2500 psi-OK. Install frac head & R/U Golden State wireline.

** ***Mr. Bob Hime on board to witness frac job.***

04-04-97 **DAY 14: 24-HR. SUMMARY: POOH, TEST TUBING.**
RIH w/wireline, set XX plug in X-nipple @ 9249'. POOH. R/U frac lines & test tbg, pump, lines t/6000 psi-NG. POOH testing for leaks in tbg, found loose connections. RIH.

** ***Mr. Bob Hime with MMS on platform.***

04-05-97 **DAY 15: 24-HR. SUMMARY: RE-RUN FRAC STRING.**
RIH, test tbg t/3200 psi-ok. RIH, set frac pkr @ 9234' w/ 50,000 dnwt, land tbg hgr & secure. Test csg t/2500 psi-OK. R/U frac head. Test Dowell surf lines t/7500 psi-ok. Test tbg t/6000 psi-ok. Test pressure rlse valve t/8156 psi-ok. R/U, RIH, pull "XX" plug f/X nipple @ 9249'. Run pressure gauges, set in XN nipple @ 9260'. R/U & test frac lines.

** ***Mr. Bob Hime w/MMS on board to witness data frac.***

04-06-97 **DAY 16: 24-HR. SUMMARY: PERFORM MINI-FRAC AND FRAC.**
R/D frac lines. RIH w/wireline to retrieve bombs. R/D wireline & R/U frac lines. Mix frac fluid & perform mini-frac. Clean mud pmps. Perform frac-well screened out while pumping @6 ppg. Well would not back flow. Prep for coiled tbg clean-out.

** ***Frac job details attached on separate report.***

** ***Mr. Bob Hime w/MMS on board to witness mini-frac. Received variance to delay BOPE test until rig ready to pull pipe.***

04-07-97 **DAY 17: 24-HR. SUMMARY: R/U COILED TBG.**
Clear frac equip. R/U 1-1/2" coiled tbg equipment. R/U discharge line to pump active pits to V-9. Attempt test coiled tbg BOP's-blinds failed.

** ***Mr. Bob Mense w/MMS onboard for rig inspection.***

04-08-97 **DAY 18: 24-HR. SUMMARY: TEST CT BOPE. CLEAN OUT SAND W/ COILED TUBING.**
R/U coiled tbg unit. Test blind rams 250 psi/4500 psi-OK. RIH w/coiled tbg, circ out frac sand in 4-1/2" tbg f/105'-9247'. Circ b/u every 1000'.

** ***Mr. Bob Hime w/MMS on board for inspection.***

OPERATIONS SUMMARY REPORT

Field: **Point Arguello** Well: **OCS-P-0450 C-1 Frac Job** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20062** Category: **Workover**

04-09-97 **DAY 19: 24-HR. SUMMARY: MONITOR WELL. CLEAN-OUT W/ COILED TUBING.**
With coiled tbg @9247', pump hi-vis sweep & circ. Circ while POOH t/3000'. RIH w/CT t/ 6200'. 30 bbl pit gain, well flowing. Shut-in & monitor well pressure. Well flowing approx. 15 bbls/hr, no oil/gas. Start circ coiled tbg & RIH t/9240'. Shut in well to monitor pressure. Monitor well flow-16 bbls in 2 hrs. Flowed back approx. 37 bbls, flow rate to 4 BPH. RIH w/CT t/9247', circ @1.8 BPM. Pump hi-vis sweep & circ, some frac sand in returns. Pump hi-vis sweep & chase w/seawater to displace CT & frac fluid.

04-10-97 **DAY 20: 24-HR. SUMMARY: MONITOR WELL.**

POOH w/CT t/1500'. Monitor well. Flowing back frac fluid @ <3 bbl/hr, no oil/gas. POOH, R/D CT unit. R/U flowlines, open master valve. Had <100 psi on tbg. Open flowline f/tbg to pits—flow <2BPH. Pick up tbg 5' & open dump valve on pkr @9240'. Rev circ 2 tbg volumes, 1 bbl oil, trace gas. R/D master valve & install TIW valve. Pull & L/D tbg hgr. Pull 7 stands of 4-1/2" tbg so pkr 240' above 7" TOL. M/U IBOP on top of tbg. M/U test plug & RIH on tbg. Attempt to test lower pipe rams-no test.

04-11-97 **DAY 21: 24-HR. SUMMARY: TEST BOPE. PULL FRAC STRING & PACKER.**
POOH w/4-1/2" tbg. Test BOPE per MMS & CUSA specs. POOH w/tbg & pkr. RIH w/4-1/2" tbg & retrieving tool t/9000'.

04-12-97 **DAY 22: 24-HR. SUMMARY: CLEAN OUT SAND. PULL F PLUG.**
RIH t/9355', tag sand. Rev circ out sand f/9355'-9720'; tag Model "D" pkr. Latch on to F-plug. Circ down tbg pumping (2) 20-bbl. hi vis sweeps. Change over to clean saltwater.

04-13-97 **DAY 23: 24-HR. SUMMARY: RUN PROD STRING.**
POOH, l/d retrieving tool & F plug. RIH w/prod string, m/u 3-1/2" tbg t/4500 ft/lbs, gatorhawk connec t/5000 psi.

04-14-97 **DAY 24: 24-HR. SUMMARY: RUN PROD STRING.**
Finish running 3-1/2" prod string. Set Baker Model "HB" pkr @ 8996'. Test annulus t/1000 psi for 15 min.

04-15-97 **DAY 25: 24-HR. SUMMARY: INSTALL TREE.**
Pull X test plug f/ X nipple @ 9132'. Close SSSV, install BPV. Remove BOPE. Install prod tree & test t/5000 psi for 15 min. Test tbg hgr t/5000 psi for 15 min. Remove BPV. Release rig @1800 hours. Move to C-11.

HYDRAULIC FRACTURING JOB SUMMARY

Point Arguello Field
Platform Hidalgo C-1
April 5-6, 1997

F.E.T. (Formation Evaluation Testing)
Saturday April 5, 1997

Purpose: Establish injectivity into reservoir and determine closure pressure.

1st Pump-in	Start Time=8:24 PM	Finish Time=8:32 PM
Tubing	Vol=121 BBLS of 2% KCL fluid	
	Max Q= 24.5 BPM	Max P=5158 PSI
Casing	Vol=20 BBLS of seawater	
	Max Q=2.5 BPM	Max P=2462 PSI
2nd Pump-in	Start Time=8:53 PM	Finish Time=8:54 PM
Tubing	Vol=5 BBLS of 2% KCL fluid	
	Max Q= 9.2 BPM	Max P=3080 PSI
Casing	Vol=0 BBLS of seawater	
	Max Q=0 BPM	Max P=2687 PSI
3rd Pump-in	Start Time=9:05 PM	Finish Time=9:08 PM
Tubing	Vol=70 BBLS of 2% KCL fluid	
	Max Q= 24.3 BPM	Max P=5190 PSI
Casing	Vol=0 BBLS of seawater	
	Max Q=0 BPM	Max P=2828 PSI
4th Pump-in	Start Time=9:16 PM	Finish Time=9:22 PM
Tubing	Vol=151 BBLS of 2% KCL fluid	
	Max Q= 28.2 BPM	Max P=5749 PSI
Casing	Vol=15 BBLS of seawater	
	Max Q=2.5 BPM	Max P=2549 PSI

Downhole Pressure Gauges

Tandem Terratek Quartz gauges were landed in the Otis XN profile below a perforated pup joint prior to performing the F.E.T. tests. Upon recovering the gauges, no reliable downhole data was received. One pressure gauge stopped recording data one minute after being set. The other pressure gauge recorded only one of the four pump-ins.

Mini Frac
Sunday April 6, 1997

Purpose: Determine fluid efficiency of cross-linked frac fluid system. Confirm closure pressure.

Mini Frac	Start Time=10:11AM Finish Time=10:22 PM
Tubing	Vol=314 BBLS of Frac fluid
	Max Q= 30.9 BPM Max P=5785 PSI
	Fluid Loss Additives (FLA) Pumped=250 lbs of silica flour
Casing	Vol=0 BBLS of seawater
	Max Q=0 BPM Max P=2728 PSI

Main Frac
Sunday April 6, 1997

Purpose: Place proppant in reservoir to improve well productivity.

Main Frac	Start Time=4:30 PM Finish Time=5:02 PM
Tubing	Vol=904 BBLS of Frac fluid
	Max Q= 31.3 BPM Max P=7754 PSI

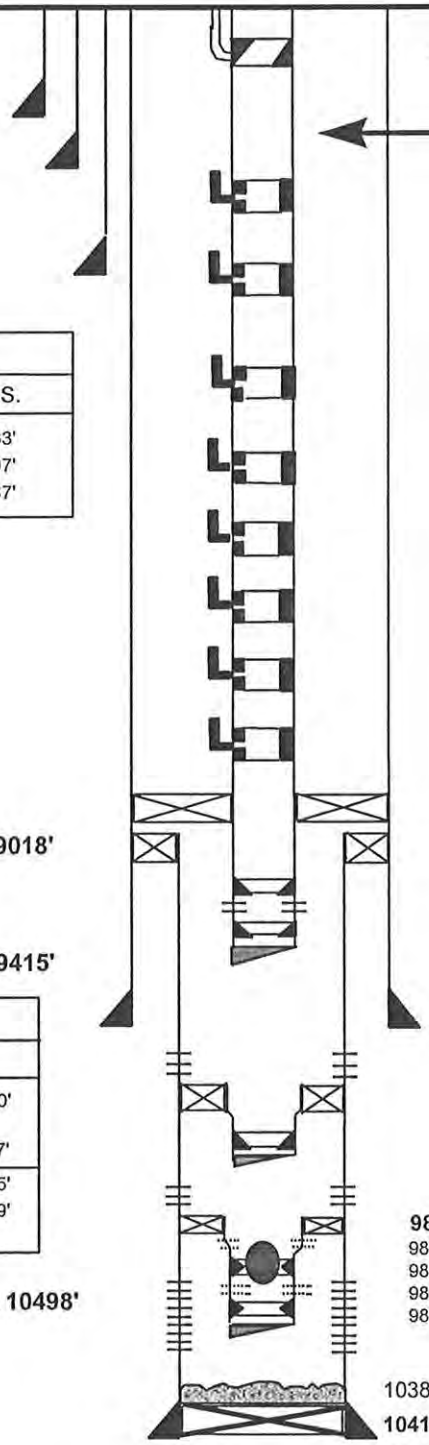
(***Screened out at maximum surface treating pressure while pumping 7 ppg proppant at the surface***)

	FLA Pumped=1000 lbs of silica flour, 2000 lbs of 100 mesh sand
	Proppant Pumped=44838 lbs of 20/40 resin-coated Optiprop (14500 lbs placed in reservoir)
Casing	Vol=0 BBLS of seawater
	Max Q=0 BPM Max P=2778 PSI

Following the screenout, the flowback line was opened in an attempt to flow back the frac fluid. No fluid flowed back from well C-1.

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH		WELL	C-1
TREE	FMC	COMPLETION DATE	1/13/88
5000 PSI W.P.		WORKOVER	2/26/94; 9/16/95, 4/15/97

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

799' Baker T-5 SCSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT			
Mc Murry MANDRELS 3-1/2" FO-1.5		McMurry Valves 1-1/2" VRMT	
M.D.	T.V.D.	P.S.I. (scp)	PORTS
2160'	2151'	1115	1/4"
3889'	3530'	1066	1/4"
5250'	4538'	VR ORIFICE	5/16"
6233'	5229'	Dummy	
6906'	5730'	Dummy	
7485'	6137'	Dummy	
8059'	6525'	Dummy	
8665'	6935'	Dummy	

ZONES		
FORMATION	M.D.	V.S.S.
PA18-Top	9267'	-7233'
PA19-Top	9358'	-7297'
PA20-Top	9620'	-7487'

8996' (7172' TVD) Baker 9-5/8" 'HB' Packer

T.O.L. @ 9018'

9132' Otis "X" Nipple (2.75" ID)
9133'-9142' Perforated Pup
9143' Otis "X" Nipple (2.75" ID)
1 Joint tubing
9174' W/L Re-Entry Guide

9-5/8" 43.5# @ 9415'

PERFORATIONS		
FORM.	M.D.	V.S.S.
PA19A	9510' - 9570'	-7407'- -7450'
Perfs. are .50" dia. @ 4 SPF		
PA20, 20A	9620' - 9700'	-7487'- -7547'
PA20A	9730' - 9830'	-7570'- -7645'
PA21	9876' - 9996'	-7680'- -7769'
Perfs. are .42" dia. @ 6 SPF		

Baker Model 'D' Packer @ 9710'
3 1/2" pup joint (6 foot)
Otis "XN" nipple (2.635" ID)
Muleshoe @ +/- 9724'

9850' Baker 'FB-1' Retainer (4" ID)
9866' Baker 'R' Nipple w/ NoGo (2.697" ID) w/ stand valve set 2/4/92
9867' Perf'd Pups (2-10' Pups)
9886' Baker "R" Nipple w/NoGo (2.442" ID)
9888' W/L Re-Entry Guide

7" 26# @ 10498'

10384' Top of Fill
10412' Cement Plug

DIRECTIONAL DATA
VERTICAL TO 1690 '
MAX ANGLE 52 @ 10433 ' AND
52 @ TD '

PBTD 10384' (8165' TVD, -8032' VSS)
TD 10498' (8235' TVD, -8102 VSS)

DATE 4/22/97
BY RMQ/DML
Revised by DSH

PROPRIETARY DATA

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting office)
	56-045-20062	C-1	Chevron U.S.A. Production Co. 646 County Square Drive Ventura, CA 93003

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ___	___	
			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed) X=710,995.44m Y=3,819,240.18m UTM Zone 10	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
N 05118 E 00671	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	HIDALGO - Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Proposal: Remove ESP completion. Temporarily isolate all but top 10' of perfs and perform hydraulic fracture treatment. Re-expose lower perfs and complete with 3-1/2" tubing.

Attached: Revised Proposal for Well Operations PRO 316-1 dated 2/13/97. (Replaces original program dated 12/16/96).
Current Schematic, Frac String Design schematic, Proposed schematic
Preliminary Frac Equipment Layout.

CONFIDENTIAL

FEB 18

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
R. A. PICCIOTTI for G. R. STEINBACH	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE R. A. Picciotti	31. DATE February 13, 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell for. TITLE District Supervisor
Phillip R. Schroeder

DATE 2/18/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No. Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 20170-4817; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

February 13, 1997

PROPOSAL FOR WELL OPERATIONS
PRO-316-1
REVISED WORKOVER PROGRAM
(Work to be supervised by Drilling)

Field: Point Arguello Platform: Hidalgo Property: OCS-P-0450 Well: C-1

OBJECTIVE:

Remove ESP completion. Temporarily isolate all but the top 10' of existing perforations using a Model 'D' packer and sand. Hydraulically fracture the M-1 zone. Re-expose lower perforations and run 3-1/2" completion tubing.

CURRENT CONDITIONS:

See attached schematic.

SURFACE LOCATION:

Slot 4: X = 710,995.44 m Y = 3,819,240.18 m, UTM Zone 10.

ELEVATIONS:

Water Depth:	430'
Derrick Floor to MLLW:	118', estimated.
Original D.F.:	133'
Derrick Floor to Ocean Floor:	548', estimated.

BLOWOUT PREVENTION EQUIPMENT:

A 13-5/8" 5000 psi Class IV (RSRRA) blowout preventer will be utilized. Test BOPS to 250 psi low pressure and 3000 psi high pressure, and record same on chart.

HYDROGEN SULFIDE CONSIDERATIONS:

The Monterey has strong potential for H2S gas. Hydrogen sulfide concentrations from producing wells can exceed 15,000 PPM. **Assume all gas circulated to the surface to have H2S potential.** All operations shall be performed in accordance with current MMS approved H2S Contingency Plan for Platform Hidalgo. H2S monitors will be located on the rig floor, flow nipple and shale shaker.

COMPLETION FLUID:

The fluids used to kill and workover this well will consist of filtered sea water with additions of NaCL for weight as needed. **For the current perforations 8.5 ppg sea water (.44 psi per ft gradient) will provide a 575 psi overbalance given a Monterey reservoir pressure of 2760 psi at 7546' VD (.3658 psi per ft gradient or 7.0 ppg EMW). Reservoir pressure based on information obtained from a 30 hour pressure build up survey run in C-8 on 4/2/96.** Adequate concentrations of zinc carbonate H2S scavenger will be kept on location at all times. The pH will be that of seawater/NaCL fluid and not controlled. Scaletrol will be added to prevent scale formation - 5 gals per 200 bbls optimum 5 gals per 1000 bbls minimum concentration.

WELL CONTROL CONSIDERATIONS:

It is critical to keep the hole full at all times. Utilize trip tank with centrifugal pump to monitor fluid losses and keep hole full. Review of recent workovers on Platform Hermosa high PI wells in July 1995 reveal fluid losses in excess of 8 BPM. **For wells with high fluid losses and 9-5/8" casing a fill up rate of 5 BPM will ensure no gas migration to the surface.**

PRIOR TO RIG WORK:

Check tubing pressure and all annulus pressures.
Pull valve from lower most gas lift mandrel at 6571' and kill well by circulating sea water down the tubing and up the tubing/casing annulus taking returns to Production vessels.
Remove flowlines from tree.

PROGRAM:

Note: This frac job is scheduled to take place before the C-11 frac job. Mobilization of D.S. frac equipment will take several days.
Also note: Removal of C-1 ESP equipment will require the following specialized equipment. 1) Spooler for ESP cable (Hambros). 2) Spooler for deep set SSSV control line (Hambros or Chevron field services). 3) REDA pump boxes and pump handling equipment.

1. Skid rig to Slot 4, well C-1.
2. Close SSSV and install one way BPV.
3. Arrange for platform electricians to **lock out, tag out and disconnect electrical supply** to the ESP.
4. Check pressure in the tubing hanger X tree adapter void area and test same to 3000 psi. Note: Deep set SSSV line is continuous, shallow SSSV utilizes seal nipple on top of tubing hanger. Remove tree. Plug shallow SSSV control line port in tubing hanger and deep SSSV control line. Cut off ESP leads flush with top of tubing hanger. Nipple up 13-5/8" Class IV 5000 PSI BOPE and test to 250 psi low and 3000 psi high. **Test blind rams after first trip out of hole.**
5. Pump tubing volume and remove BPV. Back-out lock down screws. Unland tubing hanger using FMC Acme X 3-1/2" Hydril 501 crossover on landing joints. Release Halliburton RDH dual hydraulic packer at 6692'(40,000# shear). **Prior to POOH with ESP, ensure ESP cable cutters are on rig floor. In the event of a well control situation, be prepared to cut cable and space out tubing for shut in.** POOH laying down tubing and send in for inspection. Send SSSV, gas lift mandrels and packer to manufacture for redress. Send ESP cable to Sonic. Return REDA pump and motor to REDA. Note: Pressure test Xmas tree and all valves to 5000 psi prior to re-installation, plug extra ports in tubing hanger adapter flange. Re-dress existing tubing hanger, plug extra control line port and electrical ports. **Note: Follow the attached "C-1 ESP Electrical Troubleshooting Procedure" during removal of ESP.**
6. Pressure test blind rams to 250 psi low and 3000 psi high.
7. Make cleanout run with 6-1/8" bit and tandem 7" and 9-5/8" casing scrapers to 9800'. Space out scrapers so as to scrape 9-5/8" casing to near top of 7" liner lap at 9018'.
8. RIH with work string and set a Baker bridge plug in the 7" liner at 9100'. Test the liner lap and casing to 2500 psi for 30 minutes. Locate any leak. If the liner lap fails to test be

prepared to run a Baker tie-back stem with 7" X 9-5/8" liner packer and 10' tie-back extension to isolate the liner lap.

9. Set a Baker Model 'D' permanent packer on wireline in the 7" liner at 9710'. Packer is to be equipped with 3-1/2" x 6' pup joint, Otis 'XN' nipple and wireline re-entry guide. Run correlation log to locate perforated intervals in conjunction with packer setting.
10. RIH with workstring and set a Baker model "F" latching plug in the model "D" packer at 9710' MD. Test packer and plug to 1000 psi.
11. RIH with work string and 3-1/2" tubing tail for liner. Tag Model 'D' packer at 9710'. Spot sand from packer to 9520' leaving 10' of perforations from 9510'-9520' open. Utilize following procedure to spot sand:
    A. Hang open ended tubing near 9500'.
    B. Rig up RCM mixer with sand hopper in conjunction with the cement skid.
    C. Mix and pump calculated volume of 20/40 white and river sand mix to fill from packer to desired sand back depth. Sand concentration not to exceed 2 ppg, pump rate of 1.5 to 3 BPM.
    D. Displace sand to within 15 bbls of end of tubing. Slow rate to ½ to 1 BPM and finish displacing tubing volume. Work tubing during displacement.
    E. PUH 5 stands and wait one hour. RIH and tag sand. If sand is low, mix and pump the appropriate amount of sand and displace as above.
    F. If sand is too high, reverse out excess.
    G. After tagging at correct depth, wait 30 minutes and re-tag to confirm depth. POOH.
12. RIH with frac string as follows: 2-7/8" mule shoe, 2-7/8" 'XN' Nipple, 10' perforated blast joint, 2-7/8" 'X' Nipple, 6' 2-7/8" pup joint, Baker 7" Retrievamatic packer, 3½" IF by 4½" Hydril 501 crossover, 4½" 12.75# L-80 Hydril 501 tubing to surface with Baker 'F' nipple near 1000'. Install 4½" x 13-5/8" tubing hanger and set packer with tail near 9260'. Externally test connections to 6000 psi. The packer will need to be set prior to landing the tubing hanger to allow for sufficient slack-off to apply 40,000 lbs down force on the packer (41 inches of slack-off after setting packer) when the hanger lands. Above the tubing hanger, use 5" 18# L-80 Hydril 563 tubing. Plug test the landing joint(s), tubing hanger and fatigue nipple to 7500 psi. Lock down tubing hanger.
13. Rig up D.S. frac equipment per attached schematic. Rig up and test annulus relief valve, set for 3000 psi.
14. RIH with test plug on slick line and set in 2-7/8" "X" landing nipple below packer. Test frac string to 6000 psi. Retrieve test plug.
15. RIH with quartz pressure gauges on slick line and set in 2-7/8" 'XN' nipple below perforated blast joint.
16. Pressure annulus to 2500 psi. Hold 2500 psi on annulus throughout frac.
17. Perform mini-frac (Estimated time is 3-4 hrs). The mini-frac includes the pumping of up to 30,000 gals of crosslinked fluids without proppant. Pump rates will be 30-40 bpm with 5500-7500 psi surface pressure. **Production Engineer Rick Quilter will supply detailed programs for the mini-frac and frac jobs.**
18. RIH with wireline and retrieve pressure gauges.
19. Bleed off pressure from tubing/casing annulus.
20. Analyze mini-frac data and modify (if needed) final frac design.
21. Re-pressure tubing/casing annulus to 2500 psi and hold 2500 psi on annulus throughout frac job.

22. Perform frac job. The frac job includes the pumping of 50,000 gals of cross-linked fluids with 90,000 lbs of proppant. Pump rates will be 30-40 bpm with 5500-7500 psi surface pressure. Note: In case of premature sand out during frac job, the tubing could become bridged with proppant. Make arrangements to have a coil tubing unit on standby to clean out any sand bridges in tubing.
23. After completion of frac, flow back well to production facilities as directed by Production Engineer Rick Quilter. A maximum of 500 bbls will be flowed back, or until well dies.
24. During flowback, tubing/casing annulus pressure can be bled down as tubing pressure decreases.
25. Kill well (if necessary) by bullheading tubing or by reverse circulation after opening unloader or unsetting packer.
26. POOH with frac string and packer.
27. RIH with overshot, clean out sand, latch and retrieve 'F' latching plug from Baker model "D" packer at 9710' MD. If well is taking too much fluid to circulate or reverse out sand fill, be prepared to use a tubing bailer to clean out fill and retrieve packer plug.
28. Run 3-1/2" production tubing with 9-5/8" hydraulic packer as per "Production Tubing Running Procedure".
29. Install back pressure valve. Nipple down BOPE. Nipple up 3-1/2" tree and pressure test to 5000 psi. Turn well over to Production. Note: Operations to conduct a no flow test of the tubing sub-surface safety valve after production has been established.

COMPLIANCE WITH FEDERAL OR LOCAL REGULATORY AGENCIES
Ensure that a copy of the MMS and the Land approvals are 'in hand' prior to commencement of operations. Permit requirements take precedence over program procedures. All program modifications to be approved by the MMS: Phil Schroeder or Dan Knowlson (805) 922-7958.

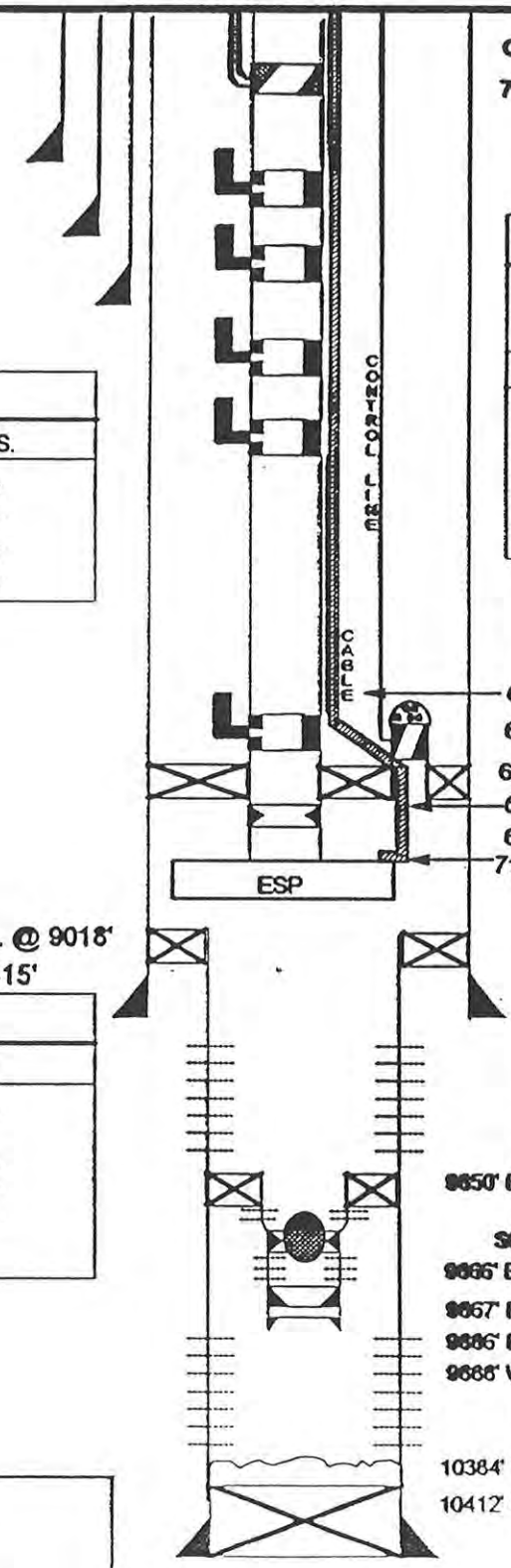
February 13, 1997

R. A. Piccinatti — Drilling Engineer

R. M. Quilter — Production Engineer

D.F. ELEVATION	13'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH		WELL	C-1
REE	FMC	COMPLETION DATE	1/13/88
5000	PSI W.P.	WORKOVER	2/26/94
			9/16/95

CURRENT



4" 201.1# @ 1057'

8-5/8" 117.5# @ 1630'

3-3/8" 72# @ 3340'

QCI Penetrator Connector below Tubing Hanger

760' Halliburton Series 10 Ret. SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT

Mc Murray MANDRELS 3-1/2" FO-1.5		Enterra Valves 1-1/2" VRMT	
M.D.	T.V.D.	P.S.I. (scp)	PORTS
2096'	2089'	1122	1/4"
3151'	3012'	1080	1/4"
4017'	3622'	Orifice	5/16"
4690'	4116'	Dummy	
6571'	5484'	Dummy	

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	9556'	-7296'
M2-Top	9620'	-7487'
M3-Top	9676'	-7680'
M4-Top	10094'	-7840'

T.O.L. @ 9018'

9-5/8" 43.5# TO 9415'

PERFORATIONS

FORM.	M.D.	V.S.S.
M-1	9518'-9570'	-7406'--7450'
Perfs. are .50" dia. @ 4 SPF		
M-2	9620'-9700'	-7487'--7547'
M-2	9730'-9830'	-7570'--7646'
M-3	9876'-9906'	-7680'--7709'
Perfs. are .42" dia. @ 6 SPF		

	OD	LENGTH	DEPTH
Pump	5.38"	20.4	7216
Pump intake	5.40"	1.2	7236
Protector	5.40"	11.4	7238
Motor	5.62"	34.0	7249
PSI Tool	5.62"	5.0	7283
Bottom of ESP			7290

9650' Baker 'FB-1' Retainer (4" ID)

Stand. Valve set in Nipple (2/4/92)

9665' Baker 'R' Nipple w/ NoGo (2.697" ID)

9667' Perf'd Pups (2-10' Pups)

9686' Baker 'R' Nipple w/ NoGo (2.442" ID)

9688' W/L Re-entry Guide

26# @ 10498'

10384' Top of Fill

10412' Cement Plug

DIRECTIONAL DATA

VERTICAL TO 600

MAX ANGLE 52 @ 10498 AND

52 @ TD

PBTD 10412

TD 10498 (-8102 VSS)

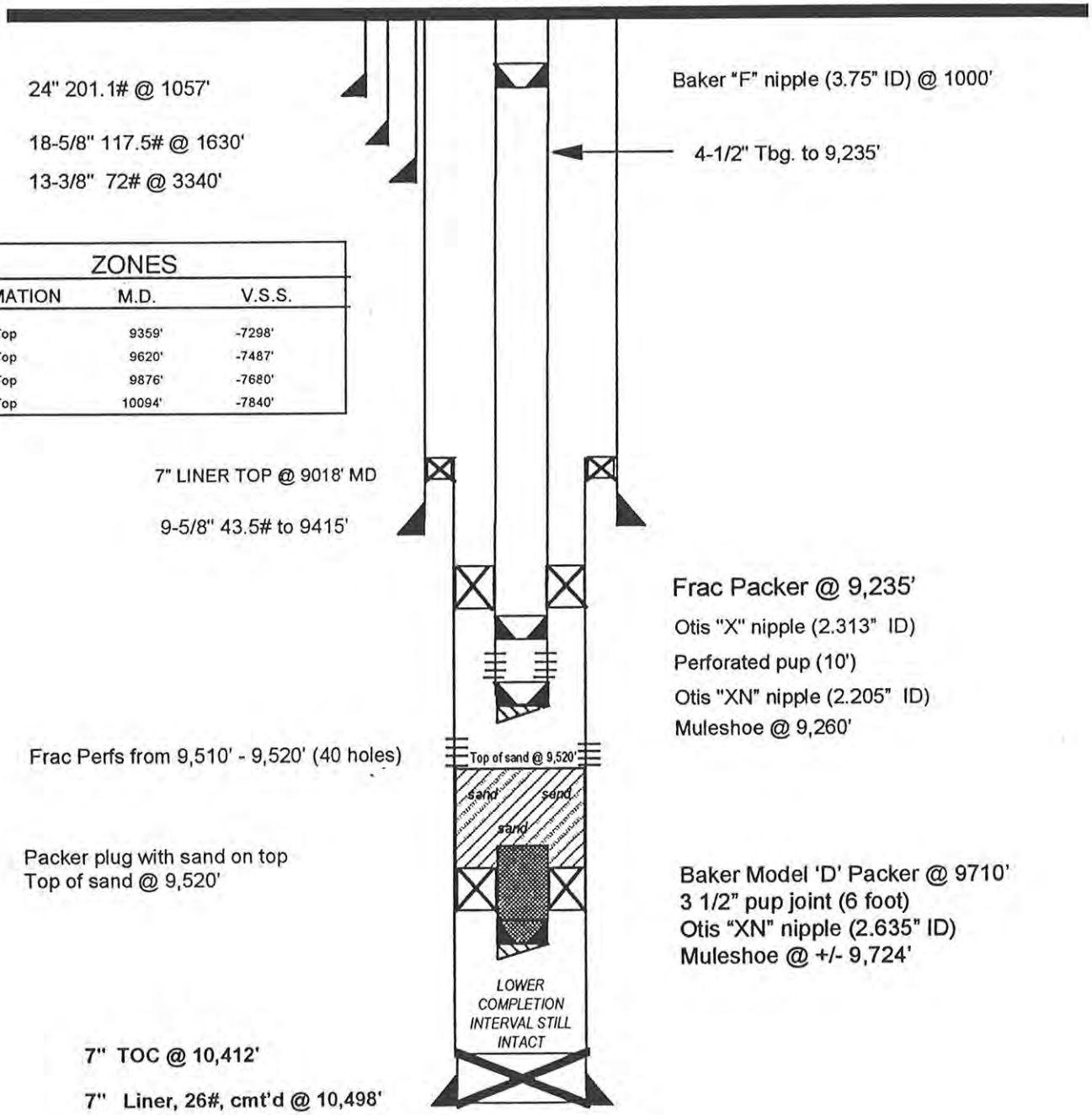
DATE 11-20-95

BY V. D. E

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE McEvoy - Willis
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL C-1
COMPLETION DATE 1/13/88
WORKOVERS 2/26/94; 9/16/95

FRAC STRING DESIGN

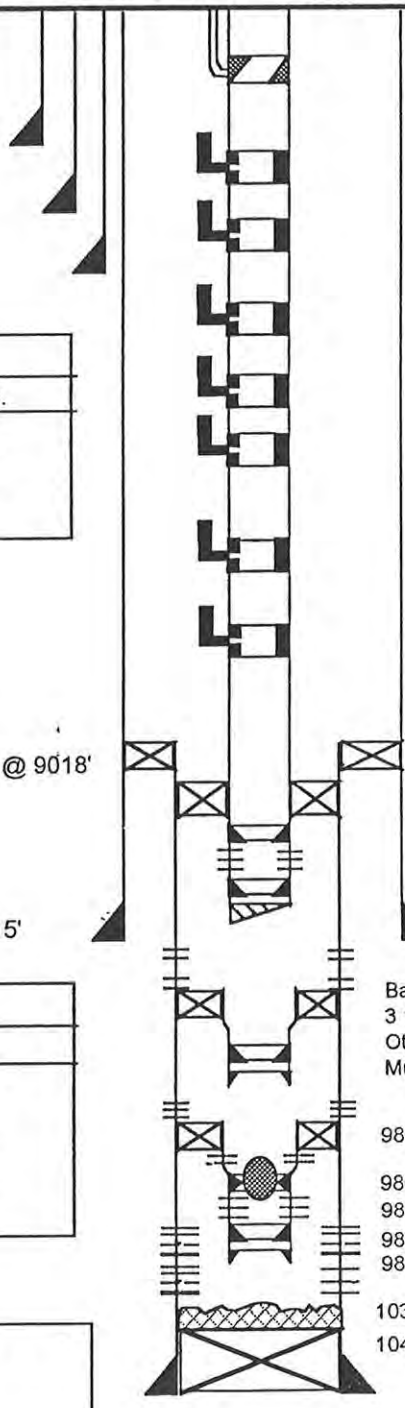


ZONES		
FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

DATE 02-12-97
BY RMQ/DML

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH		WELL	C-1
TREE	FMC	COMPLETION DATE	1/13/88
5000 PSI W.P.		WORKOVER	2/26/94; 9/16/95

POST FRAC COMPLETION - *Proposed*



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

750' Baker FV-6 SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT			
Mc Murry MANDRELS 3-1/2" FO-1.5		McMurry Valves 1-1/2" VRMT	
M.D.	T.V.D.	P.S.I. (scp)	PORTS
		Dummy	
		Dummy	
		Dummy	
		Dummy	
		Dummy	
		Dummy	
		Dummy	

ZONES		
FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

T.O.L. @ 9018'

9200' Baker 'HB' Packer
Five tubing joints
Otis 'X' Nipple (2.75" ID)
Perforated Pup (10')
Otis 'X' Nipple (2.75" ID)
W/L Re-entry Guide @ +/- 9377'

9-5/8" 43.5# TO 9415'

PERFORATIONS		
FORM.	M.D.	V.S.S.
M-1	9510'- 9570'	-7406'- -7450'
Perfs. are .50" dia. @ 4 SPF		
M-2	9620'- 9700'	-7487'- -7547'
M-2	9730'- 9830'	-7570'- -7646'
M-3	9876'- 9996'	-7680'- -7769'
Perfs. are .42" dia. @ 6 SPF		

Baker Model 'D' Packer @ 9710'
3 1/2" pup joint (6 foot)
Otis "XN" nipple (2.635" ID)
Muleshoe @ +/- 9,724'

9850' Baker 'FB-1' Retainer (4" ID)
Stand. Valve set in Nipple (2/4/92)
9866' Baker 'R' Nipple w/ NoGo (2.697" ID)
9867' Perf'd Pups (2-10' Pups)
9886' Baker 'R' Nipple w/ NoGo (2.442" ID)
9888' W/L Re-entry Guide

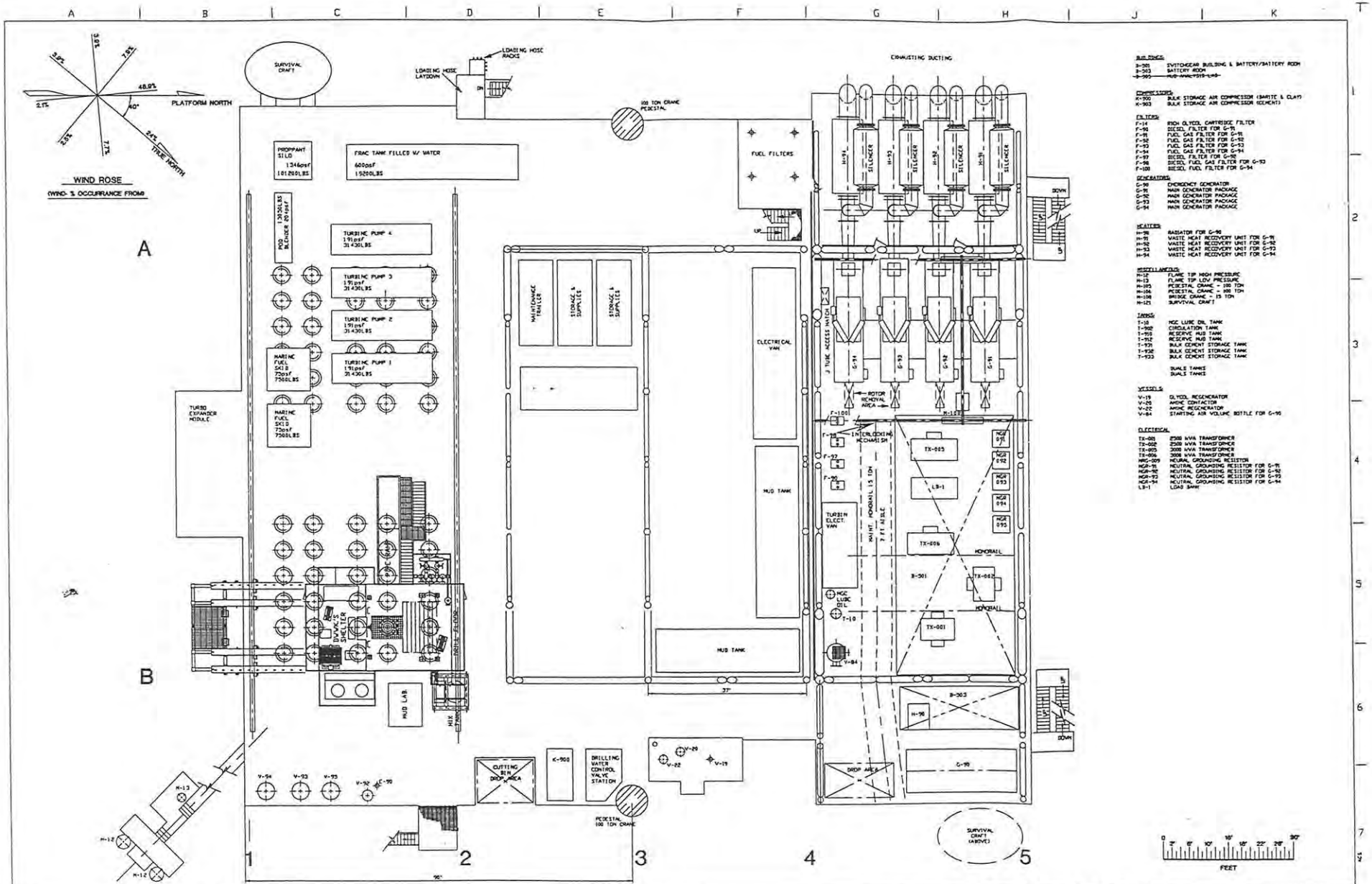
7" 26# @ 10498'

10384' Top of Fill
10412' Cement Plug

DIRECTIONAL DATA
VERTICAL TO 600 '
MAX ANGLE 52 @ 10498 ' AND
52 @ TD '

PBTD 10412 '
TD 10498 (-8102 VSS)

DATE 2-12-97
BY RMQ/DML



BUILDINGS:
B-301 SWITCHGEAR BUILDING & BATTERY/BATTERY ROOM
B-302 BATTERY ROOM
B-303 MUD MAN/SHIP LAB

COMPRESSORS:
K-900 BULK STORAGE AIR COMPRESSOR (BARITE & CLAY)
K-903 BULK STORAGE AIR COMPRESSOR (CEMENT)

FILTERS:
F-14 RICH GLYCOL CARTRIDGE FILTER
F-90 DIESEL FILTER FOR G-91
F-98 FUEL GAS FILTER FOR G-91
F-92 FUEL GAS FILTER FOR G-92
F-93 FUEL GAS FILTER FOR G-93
F-94 FUEL GAS FILTER FOR G-94
F-97 DIESEL FILTER FOR G-90
F-96 DIESEL FUEL GAS FILTER FOR G-93
F-100 DIESEL FUEL FILTER FOR G-94

GENERATORS:
G-90 EMERGENCY GENERATOR
G-91 MAIN GENERATOR PACKAGE
G-92 MAIN GENERATOR PACKAGE
G-93 MAIN GENERATOR PACKAGE
G-94 MAIN GENERATOR PACKAGE

HEATERS:
H-98 RADIATOR FOR G-90
H-91 WASTE HEAT RECOVERY UNIT FOR G-91
H-92 WASTE HEAT RECOVERY UNIT FOR G-92
H-93 WASTE HEAT RECOVERY UNIT FOR G-93
H-94 WASTE HEAT RECOVERY UNIT FOR G-94

MISCELLANEOUS:
H-15 FLARE TIP HIGH PRESSURE
H-16 FLARE TIP LOW PRESSURE
H-104 PEDESTAL CRANE - 100 TON
H-106 PEDESTAL CRANE - 100 TON
H-108 BRIDGE CRANE - 15 TON
H-121 SURVIVAL CRAFT

TANKS:
T-10 MCC LUBE OIL TANK
T-900 CIRCULATION TANK
T-910 RESERVE MUD TANK
T-912 RESERVE MUD TANK
T-931 BULK CEMENT STORAGE TANK
T-932 BULK CEMENT STORAGE TANK
T-933 BULK CEMENT STORAGE TANK
SKALE TANKS
SKALE TANKS

VESSELS:
V-19 GLYCOL REGENERATOR
V-20 AMINE CONTACTOR
V-22 AMINE REGENERATOR
V-84 STARTING AIR VOLUME BOTTLE FOR G-90

ELECTRICAL:
TX-000 2500 kVA TRANSFORMER
TX-002 2500 kVA TRANSFORMER
TX-003 3000 kVA TRANSFORMER
TX-006 3000 kVA TRANSFORMER
NGC-109 NEUTRAL GROUNDING RESISTOR
NGR-91 NEUTRAL GROUNDING RESISTOR FOR G-91
NGR-92 NEUTRAL GROUNDING RESISTOR FOR G-92
NGR-93 NEUTRAL GROUNDING RESISTOR FOR G-93
NGR-94 NEUTRAL GROUNDING RESISTOR FOR G-94
LB-1 LOAD BANK

REFERENCE DRAWINGS

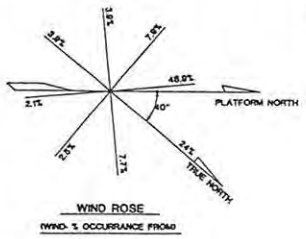
REVISIONS
3 AS-BUILT REMOVED T-84, T-85 P-83, P-84, P-90, & P-91
4 ADDED PROPOSED DRILL RIG

SCALE 1" = 1'-0"
DATE 7-20-93 DR. ACS. CK.
DR. APPR. ENG.
DRWG. DEPT. APPROVED
ENGR. DEPT.

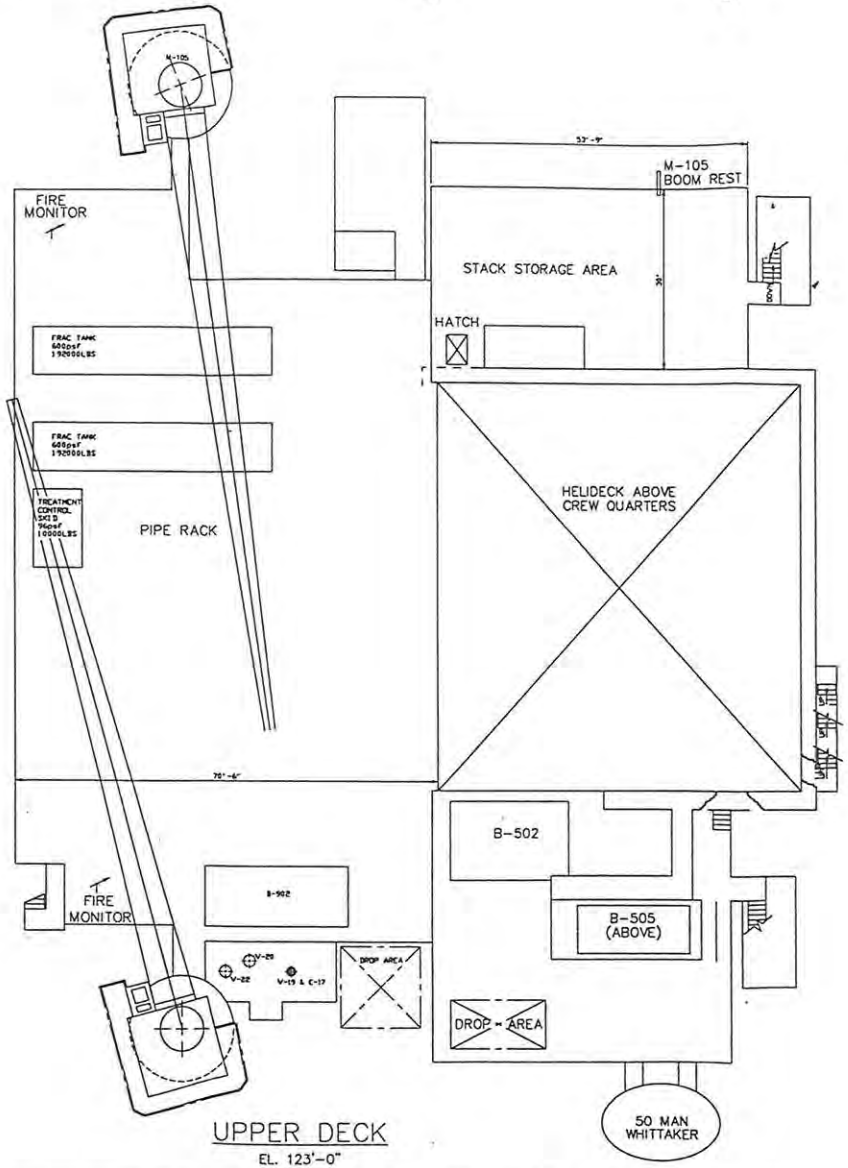
Chevron U.S.A. Inc. Western Production Business Unit
DRAWING FOR INFORMATION ONLY

EQUIPMENT ARRANGEMENT PLAN
MAIN DECK AND POWER EL. 95'-3"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | CC | E-SB-1600 | A
SO



WIND ROSE
(WIND % OCCURRANCE FROM)



UPPER DECK
EL. 123'-0"

BUILDINGS:
B-502 HVAC EQUIPMENT BUILDING
B-505 CREW QUARTERS/HELIPORT
B-506 SHOWER & CHANGE ROOM
B-503 POWER FACTOR BUILDING
B-904 MCC (SEE - EAST BAY)
B-902 CRANE EQUIPMENT STORAGE BLD.

EXCHANGERS:
C-17 GLYCOL REGENERATOR CONDENSER

GENERATORS:
G-901 STAND-BY GENERATOR

MISCELLANEOUS:
M-105 PEDESTAL CRANE 100 TON
M-106 PEDESTAL CRANE - 100 TON
M-129 SURVIVAL CRAFT
M-911 LOGGING UNIT

VESSELS:
V-19 GLYCOL REGENERATOR
V-25 AMINE CONTACTOR
V-22 AMINE REGENERATOR

0 3' 6' 10' 18' 26' 30'
FEET
1/8" = 1'-0"

REFERENCE DRAWINGS

REVISIONS
AS-BUILT - GENERAL
ADDED B-505 POWER FACTOR
ADDED PROPOSED FRAC EQUIPMENT
ISSUED TO MMS FOR APPROVAL

SCALE 1" = 1/8"
DATE 7-20-93 DR. ACE CK.
DR. APPR. ENG.
PROJ. DEPT. APPROVED
ENG'R. DEPT.

Chevron
Chevron U.S.A. Inc.
Western Production Business Unit
Ventura District

EQUIPMENT ARRANGEMENT PLAN
UPPER DECK PIPERACK EL. 123'-0"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | C.C. | E-SB-1500 | A
S.O.

ACE
ER 1534
C 1035-34-GD

PROPRIETARY DATA

MINERALS MANAGEMENT SERV
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies
one copy marked "Public Informat.

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20062	C-1	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	P.O. Box 6917 Ventura, CA 93006
Pt. Arguello	OCS-P-0450	00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER X	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ___	___	
			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
N 05118 E 00671	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	HIDALGO - Dual #45	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Operations: **9/3/95 thru 9/6/95: Rig up Dual #45.**
9/7/95 thru 9/16/95: Workover: pulled production string & installed electrical submersible pump assembly.
9/17/95 thru 9/21/95: Rig down, cold stack Dual #45.

Attached: **Operations Summary Report**
Current Well Schematic

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
D. H. BILLINGS for A. CORNELIUS	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE
	October 13, 1995

THIS SPACE FOR MMS USE ONLY

APPROVED BY for Phillip R. Schroeder TITLE District Supervisor DATE 10/16/95

MINERALS MANAGEMENT SERVICE
OCT 16 1995
RECEIVED
SANTA MARIA DISTRICT

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for revi
and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspec
Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and O
Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will nc

MMS124-OUT-HID-P
Orig: Vta Well Files
Originator LL Phillips
MMS Santa Maria (3+1 P.I.)
10/13/95

OPERATIONS SUMMARY REPORT

Field: **Point Arguello** Well: **OCS-P-0450 C-1 WO** Rig: **Dual #45**
Platform: **Hidalgo** API#: **56-045-20062** Category: **Workover**

09-03-95 thru 9-06-95:

Rig up Dual #45 on Hidalgo. R/U Cooper Super Choke. R/U w/l on C-1, pull dummy GLV @ 8487'. (Unable to latch bottom valve). R/D w/l. Skid rig over C-1. R/U articulating arm, v-door & catwalk. Rig cables & lines. R/U PVT & Flo-Show systems. Rig lines to accumulator. M/U hydraulic lines for power tongs.

09-07-95 **DAY 1: 18 HR SUMMARY: KILL WELL, N/D TREE, N/U BOPE.**

Tie in BJ to wellhead. Begin killing C-1 by pumping filtered sw down tubing @ 2 BPM. No returns. Continue killing well with filtered sw @ 6 to 10 BPM @ max 700 psi. Returns of clean sw after 2000 bbls. Complete kill w/2180 bbls total filtered sw pumped. Install BPV. N/D production tree. N/U BOPE. (Fluid lost to formation: 1500 bbl).

09-08-95 **DAY 2: 24 HR SUMMARY: TEST BOPE; KILL WELL, RLSE PKR.**

Cont N/U 13-5/8" BOPE. R/U to test. Repair leak in test joints. Test BOPE to 300 psi lo/3000 psi hi. Pump 40 bbls sw down tbg, on vacuum. Pull BPV. Circ, kill well. M/U bell nipple & flowline. Pump 680 bbls fsw @ 7 BPM @ 900 psi. Had returns of 108 bbls. Pull tubing hanger. Work packer free w/180,000#. Well taking 4 BPM. (Fluid lost to formation: 572 bbl).

** ***Roy Bobbitt w/MMS on board. Drilling rec'd INC for under-pressured escape air packs (2). Deficiencies corrected.***

09-09-95 **DAY 3: 24 HR SUMMARY: PULL COMPLETION STRING, SCRAPE 9-5/8".**

POOH w/production tubing assembly, L/D GLM's. L/D packer, nipples, & pup joint. M/U rig pump to annulus, rig BJ to choke manifold. RIH w/test assembly & test blind rams to 300 psi lo/3000 psi hi for 5 minutes per test. Pull & L/D test assembly. M/U 9-5/8" casing scraper, RIH to 8900'. POOH w/csg scraper. (Fluid lost to formation: 5760 bbl).

09-10-95 **DAY 4: 24 HR SUMMARY: SET RETRIEVABLE BRIDGE PLUG.**

POOH w/9-5/8" csg scraper, L/D scraper. M/U 9-5/8" Baker retrievable bridge plug, RIH, set @ 8795'. Rev circ 40 bbls filtered seawater. Close well in, test bridge plug to 1000 psi. L/D tubing. Pull blind rams & install shear rams. N/D BOP stack for installation of 13-5/8" 5000# recompletion spool. (Fluid lost to formation: 1800 bbl).

** ***Roy Bobbitt w/MMS on board.***

09-11-95 **DAY 5: 24 HR SUMMARY: INSTALL & TST RECOMPLETION SPOOL & TBG HANGER.**

N/D BOPE. Install FMC 13-5/8" 5M recompletion spool & tbg hanger. N/U riser, BOP stack. Remove hydril & add single gate blind ram. Replace hydril. P/U & M/U cup test assembly. Install & N/U flowline. Run cup test assembly, test annular to 300 psi lo/3000 psi hi. Hold each test for 5 min. Pull cup test assembly. Run & set test plug. Test blind rams to 300 psi lo/3000 psi hi. Hold each test for 5 min. Pull test plug. P/U 3-1/2" tbg, start RIH. Note: Halliburton packer sent in for repair.

09-12-95 **DAY 6: 24 HR SUMMARY: RIH W/3-1/2" TBG.**

RIH w/3-1/2" tbg. Gatorhawk each connection to 5000 psi. RIH t/8734', 61' above bridge plug. Hold ESP orientation mtg. Wait on Halliburton packer repair.

OPERATIONS SUMMARY REPORT

Field: **Point Arguello** Well: **OCS-P-0450 C-1 WO** Rig: **Dual #45**
Platform: **Hidalgo** API#: **56-045-20062** Category: **Workover**

09-13-95 **DAY 7: 24 HR SUMMARY: PULL BRIDGE PLUG, START RIH W/ESP ASSEMBLY.**
RIH t/8795', unseat &POOH w/Baker A-3 retrievable bridge plug. POOH, l/d 48 jts tbg. Stand back new completion string in derrick, l/d bridge plug. P/U & M/U REDA 562 series downhole motor (ESP). Fill motor w/oil, test electrical connections. RIH w/ESP assembly. P/U & M/U Haliburton dual packer. RIH w/ESP assembly. Gatorhawk each stand to 5000 psi. Install bands on each joint. Install control line. Lost continuity on one phase of ESP cable, pull to packer, check & reseal QCI connectors, good continuity. Cont running ESP assembly. (Fluid lost to formation: 3600 bbl).

09-14-95 **DAY 8: 24 HR SUMMARY: CONT RUNNING ESP ASSEMBLY.**
Run ESP assembly to 1560', check electrical cable to pump, low meg reading. Pull ESP assembly to Halliburton packer, problem with QCI packer penetrator. Remove QCI connectors, replace with 2 REDA splices. Run ESP assembly, check electrical cable every 2 stands. NOTE: running Baker cable guards on every connection from ESP to 1500'. Adding 3 S/S bands per joint for securing of cable and control line. Gatorhawking each untested connection to 5000 psi. (Fluid lost to formation: 3750 bbl).

** ***Rec'd approval f/B. Hime w/MMS for an extension of weekly BOPE test until end of completion operations.***

09-15-95 **DAY 9: 24 HR SUMMARY: FINISH RUNNING ESP ASSEMBLY, M/U & LAND TBG HANGER.**
Run ESP assembly & gas lift mandrels. Mandrels @ 6571', 4690', 4018', 3152' & 2097'. P/U & M/U Otis/Halliburton SCSSSV, connect control line & test to 5000 psi. Run ESP assembly. M/U tbg hgr & landing string. Orient tbg head, connect SCSSSV control line & test to 5000 psi. Connect deep set control line & test to 7000 psi. Orient cable to pipe & make QCI splice to tbg hgr. Land hgr in wellhead. Test tbg hanger seals to 5000 psi for 15 minutes. Wait 4 hours for wellbore temp to increase prior to setting packer. R/U w/l. Test lubricator to 3000 psi. RIH & set 'N' test tool in Otis 'XN' nipple @ 6740'.

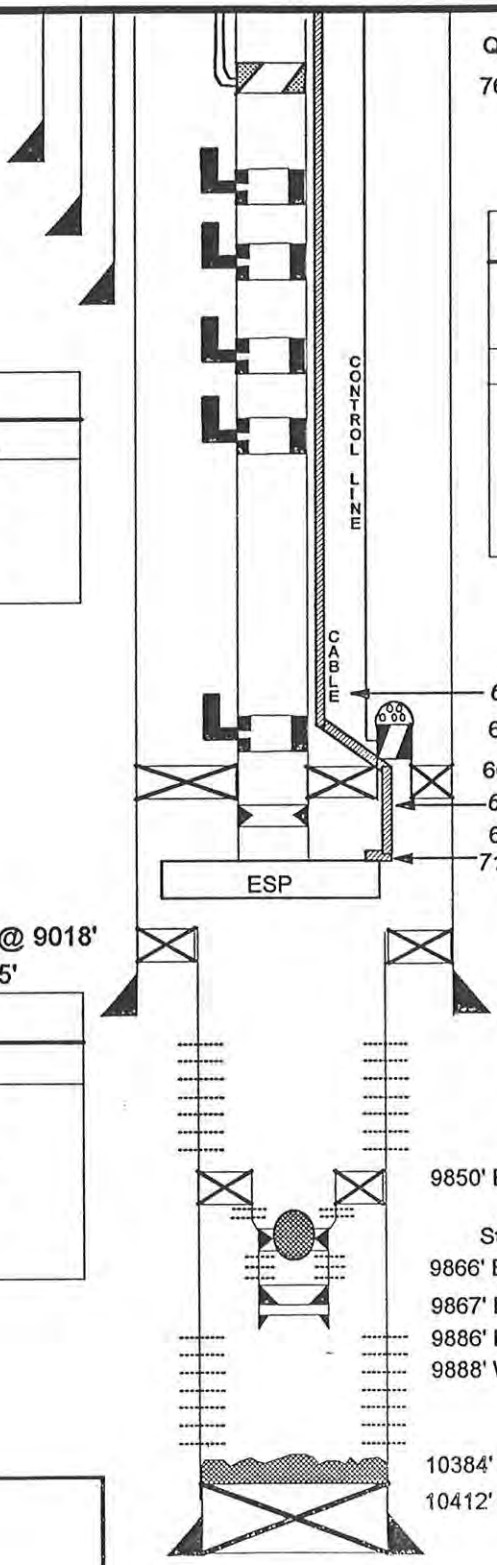
** ***Rec'd approval f/M. Mitchell w/MMS on 9/11 to wait 4 hrs after landing tbg to set pkr.***

09-16-95 **DAY 10: 18 HR SUMMARY: SET PACKER, TST COMPL. N/D BOPE, N/U TREE. RLSE RIG.**
Pressure up on tbg to 500 psi for 15 minutes, ok. Pressure to 1500 psi to set pkr & hold for 5 minutes. Pressure to 3000 psi, hold for 5 minutes. Bleed off and re-pressure to 3000 psi. POOH w/'N' test tool, r/d w/l. L/D landing joints, set FMC BPV in tbg hgr. N/D BOPE components. N/U 13-5/8" 5M x 3-1/8" 5M tree adaptor flange. Test void between flange & hgr to 5000 psi for 15 minutes. Operations decided to use original C-1 tree instead of re-conditioned tree due to valve configuration. Remove tree spacer spool & R/U Gatohawk. Test tree valves to 5000 psi. Install tree on well. Remove BPV and set test plug. Test tree to 5000 psi. Pull test plug. Start loading out equipment for move to Platform Hermosa. Rig released @ 1200 hrs. (Cum fluid lost to formation: 22,609 bbl).

09-17-95 thru 9-21 95:
Rig down and cold stack Dual #45 on Hidalgo. Move selected equipment to Platform Hermosa.

D.F. ELEVATION	3'	FIELD	Point Arguello
D.F. TO TBG. HEAD	59.20'	LEASE	OCS-P-0450
WATER DEPTH		WELL	C-1
TREE	FMC	COMPLETION DATE	1/13/88
5000 PSI W.P.		WORKOVER	2/26/94
			9/16/95

CURRENT



QCI Penetrator Connector below Tubing Hanger

760' Halliburton Series 10 Ret. SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

GAS LIFT

Mc Murray MANDRELS 3-1/2" FO-1.5		Enterra Valves 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (sop)	PORTS
2096'	2089'	Dummy	
3151'	3012'	Dummy	
4017'	3622'	Dummy	
4690'	4116'	Dummy	
6571'	5484'	Dummy	

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

6665' - 68' Cable Splice

6680' 2-3/8" SSSV w/ported bullnose

6692' DUAL PACKER (5575' TVD)

6704' Cable Splice

6740' XN' Profile (2.75" / 2.635 ID)

7193' Flat Cable Splice

T.O.L. @ 9018'

9-5/8" 43.5# TO 9415'

	OD	LENGTH	DEPTH
Pump	5.38"	20.3	7216
Pump intake	5.40"	1.2	7236
Protector	5.40"	11.4	7238
Motor	5.62"	33.9	7248
DMT	5.62"	5.6	7283
Bottom of ESP			7290

PERFORATIONS

FORM.	M.D.	V.S.S.
M-1	9510'- 9570'	-7406'- -7450'
Perfs. are .50" dia. @ 4 SPF		
M-2	9620'- 9700'	-7487'- -7547'
M-2	9730'- 9830'	-7570'- -7646'
M-3	9876'- 9996'	-7680'- -7769'
Perfs. are .42" dia. @ 6 SPF		

9850' Baker 'FB-1' Retainer (4" ID)

Stand. Valve set in Nipple (2/4/92)

9866' Baker 'R' Nipple w/ NoGo (2.697" ID)

9867' Perf'd Pups (2-10' Pups)

9886' Baker 'R' Nipple w/ NoGo (2.442" ID)

9888' W/L Re-entry Guide

7" 26# @ 10498'

10384' Top of Fill

10412' Cement Plug

DIRECTIONAL DATA

VERTICAL TO 600 '

MAX ANGLE 52 @ 10498 ' AND

52 @ TD '

PBTD 10412 '

TD 10498 (-8102 VSS)

DATE 9-20-95

BY TAR

PROPRIETARY DATA

MINERALS MANAGEMENT SERVIC
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Informatio

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20062	C-1	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	P.O. Box 6917 Ventura, CA 93006
Pt. Arguello	OCS-P-0450	00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER X	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
N 05118 E 00671	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	HIDALGO - Dual #45	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Install electrical submersible pump to increase reservoir drawdown thereby increasing production.

Attached: Proposal for Well Operations
Current and Proposed Well Schematics

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
D. H. BILLINGS for A. CORNELIUS	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE
D H Billings	August 24, 1995

MINERALS MANAGEMENT SERVICE
AUG 25 1995
RECEIVED
SANTA MARIA DISTRICT

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder
Phillip R. Schroeder

TITLE District Supervisor

DATE 8/28/95

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

DISTRIBUTED
8/24/95

MMS-124-OUT-HID-D
Orig: L.L. Phillips, Vta Well File
V. Sankur
MMS Santa Maria (3 + 1 P.I.)
Phillips Petrol. (2)
Pt. Arguello, T. RAY
R. HOSHMAN

August 23, 1995

PROPOSAL FOR WELL OPERATIONS
PRO-316-1
WORKOVER PROGRAM
(Work to be supervised by Drilling)

Field: Point Arguello Platform: Hidalgo Property: OCS-P-0450 Well: C-1

OBJECTIVE:

To convert to electric submersible pump and re-complete as a Monterey single producer.

CURRENT CONDITIONS:

See attached schematic.

SURFACE LOCATION:

Slot 4: X = 710,995.44 m Y = 3,819,240.18 m, UTM Zone 10.

ELEVATIONS:

Water Depth:	430'
Derrick Floor to MLLW:	133'
Derrick Floor to Ocean Floor:	563'

BLOWOUT PREVENTION EQUIPMENT:

A 13-5/8" 5000 psi Class IV (RSRRA) blowout preventer will be utilized. Test BOPS to 300 psi low pressure and 3000 psi high pressure, and record same on chart.

HYDROGEN SULFIDE CONSIDERATIONS:

The Monterey has strong potential for H2S gas. Hydrogen sulfide concentrations from producing wells can exceed 15,000 PPM. **Assume all gas circulated to the surface `to have H2S potential.** All operations shall be performed in accordance with current MMS approved H2S Contingency Plan for Platform Hidalgo. H2S monitors will be located on the rig floor, flow nipple and shale shaker.

COMPLETION FLUID:

The fluids used to kill and workover this well will consist of filtered sea water with additions of NaCL for weight as needed. **8.5 ppg sea water (.44 psi per ft gradient) will provide a 477 psi overbalance given a Monterey reservoir pressure of 2950 psi at 7789' VD obtained from an 8 hour build-up survey done in April 1995 (.38 psi per ft gradient or 7.3 ppg EMW).** Adequate concentrations of zinc carbonate H2S scavenger will be kept on location at all times. The pH will be that of seawater/NaCL fluid and not controlled. Scaletrol will be added to prevent scale formation - 5 gals per 200 bbls optimum and 5 gals per 1000 bbls minimum. All fluids will be filtered to a minimum 2 microns absolute.

WELL CONTROL CONSIDERATIONS:

It is critical to keep the hole full at all times. Utilize trip tank with centrifugal pump to monitor fluid losses and keep hole full. Review of recent workovers on Platform Hermosa high PI wells in July 1995 reveal fluid losses in excess of 8 BPM. **For wells with high fluid losses and 9-5/8" casing a fill up rate of 5 BPM will ensure no gas migration to the surface.**

Prior to running electric submersible pump: a) Install and function test blind shear rams. b) Have bolt cutters on rig floor and function test same to ensure rapid cable cutting.

PRIOR TO RIG WORK:

Check tubing pressure and all annulus pressures.

Pull valve from lower most gas lift mandrel at 8919' and kill well by circulating sea water down the tubing and up the tubing/casing annulus taking returns to Production vessels.

Remove flowlines from tree.

PROGRAM:

1. Skid rig to Slot 4, well C-1.
2. Close SSSV and install one way BPV.
3. Remove tree. Nipple up 13-5/8" Class IV 5000 PSI BOPE and test to 300 psi low and 3000 psi high. **Test blind shear rams after first trip out of hole.**
4. Remove BPV. Back-out lock down screws. Unland tubing hanger and release Baker 9-5/8" HB hydraulic packer at 8968'(40,000# shear). POOH laying down tubing and send in for inspection. Send SSSV, gas lift mandrels and packer mandrels to manufacture for redress. Note: Pressure test Xmas tree and all valves to 5000 psi prior to re-installation.
5. Pressure test blind shear rams to 300 psi low and 3000 psi high.
6. Make cleanout run with 8-1/2" bit and 9-5/8" csg scraper to 8900'.
7. Set 9-5/8" storm packer near 8800' and pressure test to 1000 psi.
8. Nipple down BOPS. Install FMC 13-5/8" 5M recompletion spool. Nipple up BOPE. Run test plug and pressure test lower spool connection and reconnected BOP connection to 300 psi low and 3000 psi high.
9. Remove storm packer.
10. Run electric submersible pump and 3-1/2" production tubing as per "Production Tubing Running Procedure".
11. Install back pressure valve. Nipple down BOPE. Nipple up 3-1/2" tree and pressure test to 5000 psi. Turn well over to Production.

August 23, 1995

K. A. Picciotti 8/23/95 Drilling Engineer: Ron Picciotti

R. M. Quilter 8/24/95 Production Engineer

T. H. Billings Drilling Superintendent

D.F. ELEVATION 137' | FIELD Point Arguello

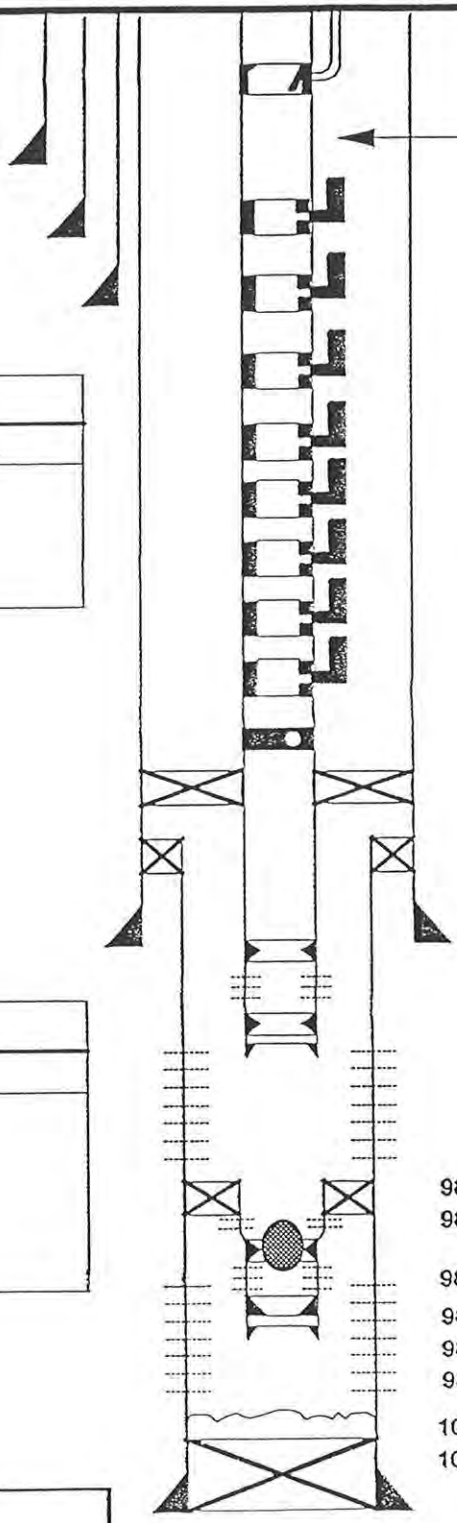
D.F. TO TBG. HEAD 59.20' | LEASE OCS-P-0450

WATER DEPTH 430' | WELL C-1

TREE McEvoy - Willis | COMPLETION DATE 1/13/88

5000 PSI W.P. | WORKOVER 2/26/94

CURRENT



4" 201.1# @ 1057'

3-5/8" 117.5# @ 1630'

3-3/8" 72# @ 3340'

739' Baker FV-6 Tbg. Ret. SSSV with F profile (2.81" ID)

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT

CAMCO MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (sop)	PORTS
2246'	2204'	Valve	1/4
3593'	3322'	Valve	1/4
4515'	3984'	Orifice	5/16
5821'	4976'	Dummy	
6712'	5590'	Dummy	
7780'	6341'	Dummy	
8487'	6813'	Dummy	
8919'	7120'	Dummy	

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

8935' Baker 'L' Sliding Sleeve w/ 'F' Profile (2.81" ID)

8968' Baker 'HB' 9-5/8" Hyd. Packer

O.L. @ 9018'

-5/8" 43.5# TO 9415'

9133' Baker 'F' Nipple (2.75" ID)

9134' Perf'd Pups (2-10' Pups)

9154' Baker 'F' Nipple (2.75" ID)

9184' W/L Re-entry Guide

PERFORATIONS

FORM.	M.D.	V.S.S.
M-1	9510'-9570'	-7406'--7450'
Perfs. are .50" dia. @ 4 SPF		
M-2	9620'-9700'	-7487'--7547'
M-2	9730'-9830'	-7570'--7646'
M-3	9876'-9996'	-7680'--7769'
Perfs. are .42" dia. @ 6 SPF		

9850' Baker 'FB-1' Retainer (4" ID)

9852' Baker Seal Bore Ext. (4" ID)
Stand. Valve set in Nipple (2/4/92)

9866' Baker 'R' Nipple w/ NoGo (2.697" ID)

9867' Perf'd Pups (2-10' Pups)

9886' Baker 'R' Nipple w/ NoGo (2.442" ID)

9888' W/L Re-entry Guide

10384' Top of Fill

10412' Cement Plug

" 26# @ 10498'

DIRECTIONAL DATA

VERTICAL TO 1600'

MAX ANGLE 52 @ 10498' AND

52 @ TD'

PBTD 10412'

TD 10498 (-8102 VSS)

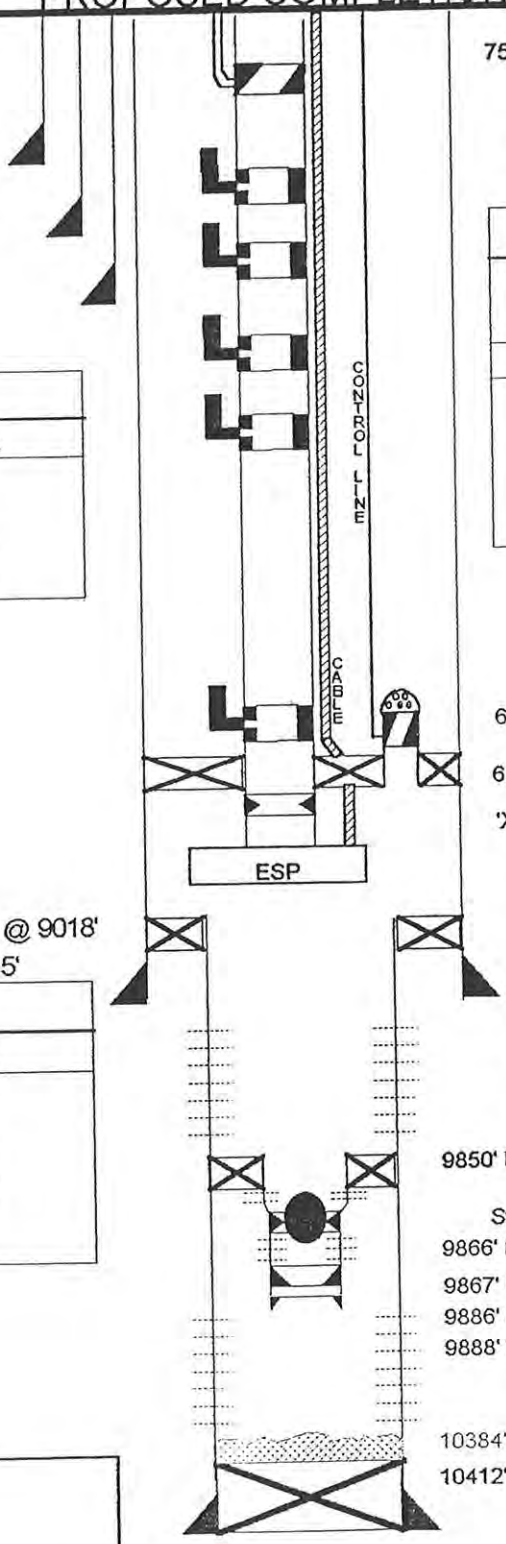
DATE 01/25/95

BY V.D.E.

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH
TREE FMC
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL C-1
COMPLETION DATE 1/13/88
WORKOVER 2/26/94
9/95

PROPOSED COMPLETION



750' Halliburton Series 10 Ret. SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

GAS LIFT

CAMCO MANDRELS 3-1/2" FMHO		Enterra Valves 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (sop)	PORTS
2107'	2100'	Dummy	
3135'	3000'	Dummy	
3987'	3600'	Dummy	
4668'	4100'	Dummy	
6592'	5500'	Dummy	

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

6688' 2-3/8" SSSV w/ported bullnose

6700' DUAL PACKER (5582 TVD)

'XN' Profile (2.75" / 2.635 ID)

	OD	LENGTH	DEPTH
Pump	5.38"	20.3	7200
Pump intake	5.40"	1.2	7220
Protector	5.40"	11.4	7221
Motor	5.62"	33.9	7233
DMT	5.62"	5.6	7267
Bottom of ESP			7272

T.O.L. @ 9018'

9-5/8" 43.5# TO 9415'

PERFORATIONS

FORM.	M.D.	V.S.S.
M-1	9510'-9570'	-7406'--7450'
Perfs. are .50" dia. @4 SPF		
M-2	9620'-9700'	-7487'--7547'
M-2	9730'-9830'	-7570'--7646'
M-3	9876'-9996'	-7680'--7769'
Perfs. are .42" dia. @6 SPF		

9850' Baker 'FB-1' Retainer (4" ID)

Stand. Valve set in Nipple (2/4/92)
9866' Baker 'R' Nipple w/ NoGo (2.697" ID)
9867' Perf'd Pups (2-10' Pups)
9886' Baker 'R' Nipple w/ NoGo (2.442" ID)
9888' W/L Re-entry Guide

7" 26# @ 10498'

10384' Top of Fill
10412' Cement Plug

DIRECTIONAL DATA

VERTICAL TO 600'
MAX ANGLE 52 @ 10498', AND
52 @ TD'

PBTD 10412'
TD 10498 (-8102 VSS)

DATE 8-14-95
BY TAR

Fill Ca 3-28-94 CV

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information.

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56 - 045 - 20062	C - 1	Chevron U.S.A. Production Co. P.O. Box 6917 Ventura, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER X	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ___	___	
			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
N 05118 E 00671	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430	133	HIDALGO	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

2 / 16 / 94 - 2 / 25 / 94

Replaced cork-screwed tubing. Made unsuccessful attempts to recover standing valve and cut tubing below packer.

ATTACHED:

1. **Daily Operations Summary (page 15)**
2. **Current Well Schematic**

* ***CONFIDENTIAL*** *

26. CONTACT NAME	27. TELEPHONE NUMBER
D. H. BILLINGS	805-658-4456
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
A.L. SMITH for A. CORNELIUS	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE
D H Billings	03/23/94

MINERALS MANAGEMENT SERVICE
MAR 25 [illegible]
RECEIVED
SANTA MARIA DISTRICT

THIS SPACE FOR MMS USE ONLY

APPROVED BY for Phillip R. Schroeder TITLE District Supervisor

DATE 3-28-94

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and B Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

MMS-124-OUT-HID-D
Orig: L.L. Phillips, Vta Well Fi
V. Sankur
MMS Santa Maria (3 + 1 P.I.)
Phillips Petrol. (2)
D.E. Patterson
SMD

02-16-94 **DAY 1 SUMMARY: SKID RIG; KILL WELL.**
Skid rig from well C-10. Install lubricator. Pull gas lift valve at 8860'. Kill well w/filtered seawater treated with Scaletrol down tbg & up annulus.

02-17-94 **DAY 2 SUMMARY: N/D TREE; N/U BOPE.**
Kill well with 1320 bbls. filtered seawater with Scaletrol. Well not cleaning up. Install BPV in donut. N/D tree. N/U Class IV BOPE & test 300 psi low/3500 psi high.

02-18-94 **DAY 3 SUMMARY: KILL WELL.**
Increase mud weight in pits to 8.8 ppg. Attempt to kill well down tbg & up annulus. Recover BPV-plugged w/piece of test plug rubber. Rerun landing jts. Kill well at 500 psi, 4 bbl/min. L/D 7 corkscrewed jts of tbg & HB pkr.

02-19-94 **DAY 4 SUMMARY: FISHING.**
R/U wireline. Stabbed into sump packer at 9853'. RIH w/Baker latch-on tool to 9887'. POOH-no recovery. Ran 2" OD IB to 9887', block indicates scale. Made 10 bailer runs from 9887'-9897'.

02-20-94 **DAY 5 SUMMARY: FISHING.**
Jar & work fish. RIH w/retrieving tool, engage wireline w/spear. Latch onto fish, recovered fish, fishing tool string and 20' of wireline.

** ***Mr. Roy Bobbitt with MMS visited the platform and approved operations.***

02-21-94 **DAY 6 SUMMARY: FISHING.**
Fishing. Recovered 82' fishing wire.

02-22-94 **DAY 7 SUMMARY: FISHING.**
Fishing. Recovered 13 jts. tbg, pull tool, s/jars, stems and rope socket to top of SV at 9854'. Circ wash into packer ass'y. t/9854'. Pump hi-vis pill every 30 min.

02-23-94 **DAY 8 SUMMARY: FISHING.**
Attempt RIH w/collar locator-NG.

02-24-94 **DAY 9 SUMMARY: RECOVERED TUBING.**
Recover 9181' of 3-1/2", 501 tubing work string.

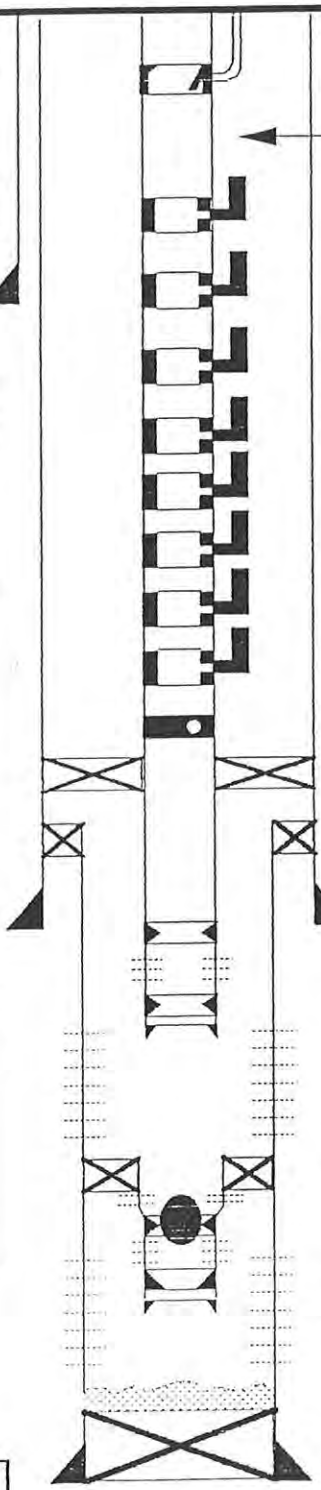
** ***Mr. Dan Knowlson with MMS granted one-day extension on BOPE test in telecon w/G. D. Brown & D. H. Billings.***

02-25-94 **DAY 10 SUMMARY: PERFORATE, RUN TUBING & N/U TREE.**
Shot 25 holes, 6 HPF for 4' from 9854'-9858' in 3-1/2" tubing pup. Test "F" nipple & packer tail t/5000 psi. Test SSSV control line t/5000 psi for 30 min-OK. Run tubing & control line. Circ pkr fluid down tbg & up annulus. Test tbg hanger & control line t/5000 psi . Land tbg hanger in wellhead, test seals t/5000 psi-OK. R/U BJ & pressure up on tubing. Set Baker "HB" pkr at 8968', tail at 9187'. Set SSSV at 739.54'. Test annulus t/2500 psi-OK. Removed plug from "F" nipple. Install BPV. N/D BOPE & installed & tested tree. Release rig at 2400 hrs-skid to Slot 6.

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE McEvoy - Willis
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL C-1
COMPLETION DATE 1/13/88
WORKOVER 2/26/94

CURRENT



739' Baker FV-6 Tbg. Ret. SSSV with F profile (2.81" ID)

3-1/2" 9.3# L-80 Hydril 501 Tbg.

24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

GAS LIFT

CAMCO MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (sop)	PORTS
2246'	2204'	Dummy	
3593'	3322'	Dummy	
4515'	3984'	Dummy	
5821'	4976'	Dummy	
6712'	5590'	Dummy	
7780'	6341'	Dummy	
8487'	6813'	Dummy	
8919'	7120'	Dummy	

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

8935' Baker 'L' Sliding Sleeve w/ 'F' Profile (2.81" ID)
8968' Baker 'HB' 9-5/8" Hyd. Packer

T.O.L. @ 9018'

9-5/8" 43.5# TO 9415'

9133' Baker 'F' Nipple (2.75" ID)
9134' Perf'd Pups (2-10' Pups)
9154' Baker 'F' Nipple (2.75" ID)
9184' W/L Re-entry Guide

PERFORATIONS

FORM.	M.D.	V.S.S.
M-1	9510'-9570'	-7406'--7450'
Perfs are .50" dia. @ 4 SPF		
M-2	9620'-9700'	-7487'--7547'
M-2	9730'-9830'	-7570'--7646'
M-3	9876'-9996'	-7680'--7769'
Perfs are .42" dia. @ 6 SPF		

9850' Baker 'FB-1' Retainer (4" ID)
9852' Baker Seal Bore Ext. (4" ID)
Stand. Valve set in Nipple (2/4/92)
9866' Baker 'R' Nipple w/ NoGo (2.697" ID)
9867' Perf'd Pups (2-10' Pups)
9886' Baker 'R' Nipple w/ NoGo (2.442" ID)
9888' W/L Re-entry Guide

10384' Top of Fill
10412' Cement Plug

7" 26# @ 10498'

DIRECTIONAL DATA

VERTICAL TO 600'
MAX ANGLE 52 @ 10498' AND
52 @ TD'

PBTD 10412'
TD 10498 (-8102 VSS)

DATE 03/23/94
BY V.D.K.

PLEASE SEND THE SIGNED SUNDRY NOTICE BACK TO THE FOLLOWING ADDRESS:

CHEVRON U.S.A. PROD. CO.
ATTN: PAM BOGUTSKIE
P.O. BOX 6917
VENTURA, CA 93006

File CR 11-1-93

MMS U.S. Department of the Interior
Minerals Management Service

CONFIDENTIAL

OBM Approval No. 1010-0045
Expires: October 31, 1994
SUBMIT: Original, two copies, and one public information copy.

SUNDRY NOTICES AND REPORTS ON WELLS

1. FIELD NAME: POINT ARGUELLO			2. MMS LEASE, UNIT OR COMM. NO.(6): OCS - P - 0450		3. MMS OPERATOR NUMBER (6): 00078
4. OPERATOR WELL NUMBER (6): C - 1	5. API NUMBER (10) OR (12) STATE (2) COUNTY (3) WELL CODE (5): API # 56 - 045 - 20062	SIDE TRACK (2)	COMPLETION CODE (3)	6. TYPE WELL (1): O	7. CORRECTED ELEVATION(6): 133' DF
8. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE): Chevron USA Production Co. P.O. Box 6917 Ventura, CA 93006			9. CURRENT WELL DEPTH (5): MD 10,498' (TD) TVD 8235' PBTD: 10,412' M		10. CORRECTED WATER DEPTH (5): 430'
			LEAVE BLANK		

11. CORRECTED LOCATION OF WELL (12) UTM Zone 10 Coordinates; NAD 27

Surface: X = 710,995.44m Y = 3,819,240.18m SLOT 4
671.2' FEL, 5117.8' FNL

Production zone: X = 709,816.9m Y = 3,820,247.5m
4538.0' FEL, 1812.8' FNL

Total depth: X= 709,665.5m Y= 3,820,362.8m; 5034.7' FEL, 1434.5' FNL

12. OPERATING AREA CODE (2): N796 - E144	13. BLOCK NUMBER (6): 464	
14. MAP OR OFFICIAL PROTRACTION DIAGRAM NUMBER (7): Calif. Map NI 10-6		
15. OPERATOR LEASE, UNIT OR COMMUNITIZATION NAME: POINT ARGUELLO	16. RIG/PLATFORM NAME: HIDALGO	17. RIG TYPE (2): PLATFORM
18. WELL STATUS, e.g., shut-in, drilling, etc.: PRODUCING	19. LAST CASING STRING: size, lb/ft. grade, and setting depth (MD): 9-5/8" 43.5# TC-80 & SS-95 @ 9415'	20. APPROXIMATE START DATE (6) YYMMDD: 93 / 12 / 15
21. PRESENT PRODUCTION ZONE, IF ANY, AND PRODUCTIVE CAPABILITY: M1, M2, M3		

22. CHECK APPROPRIATE ACTIVITY:

Data correction	☐	Fracture/acidize	☐	Artificial lift	☐
Change plans	☐	Pull or alter casing	☐	Repair Well	☐
Request approval	☒	Sidetrack	☐	Deepen	☐
Subsequent report	☐	Reenter to complete	☐ *	Multiple complete	☐ *

Other - Replace tbg	☒
Perforate	☐
Plug back	☐
Recomplete	☐ *

*NOTE: Submit a separate Well (Re)Completion Report and a subsequent report of operations on this form for each completion. Alternatively, submit a Well (Re)Completion Report for each completion with a narrative as in item 23 of this form.

23. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Clearly state all pertinent details in this space and on the reverse, and/or on an attachment, and give pertinent dates, including estimated date for starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROPOSED OPERATIONS: Workover well C-1 to replace cork-screwed tubing and recover standing valve.

See attached:

Proposal for Well Operations dated 10/1/93 (3 pp.)
Current and proposed well schematics (2 pp.)

MINERALS MANAGEMENT SERVICE
OCT - 8 1993
RECEIVED
SANTA MARIA DISTRICT

Form MMS-331 (November 1991)
(Supersedes Form MMS-331 (July 1988) which will not be used)

CONTINUED ON REVERSE
COMPLETE REVERSE SIDE, SIGN, AND DATE

CONFIDENTIAL

LLP C1-SUNF.XLS 10/7/93

SMD

CONFIDENTIAL October 1, 1993

PROPOSAL FOR WELL OPERATIONS
PRO-316-1
(Work to be supervised by Drilling)

FIELD: **POINT ARGUELLO** PLATFORM: **HERMOSA** PROPERTY: **OCS-P-0450** WELL: **C-1**

OBJECTIVE:
Workover well C-1 to replace cork-screwed tubing and recover standing valve.

SURFACE LOCATION:
Slot 4

ELEVATIONS:

Water depth:	430'
Derrick floor to MLLW:	133'
Derrick floor to ocean floor:	563'

ESTIMATED WELL CORRELATIONS:

INTERVAL	MD	TVD	VSS	Maximum Fm. Press.	Maximum Mud Wt.
M2	9359'	7431'	7298'	3284 psi	9.3 ppg
M4	10094'	7973'	7840'	3528 psi	9.3 ppg

BLOWOUT PREVENTION EQUIPMENT:
A 13-5/8" 5000 PSI Class IV (RSRRA) BOP will be utilized. Test pressures to be 300 psi/ 3500 psi.

HYDROGEN SULFIDE CONSIDERATIONS:
The Monterey has strong potentials for H_2S gas. Hydrogen sulfide concentrations from producing wells on Platform Hermosa is currently 8-12,000 ppm.

★ Assume all gas circulated to surface to have H_2S potential. ★

All operations to be performed in accordance with the MMS approved H2S Contingency Plan for Platform Hidalgo.

WORKOVER FLUIDS PROGRAM:
The fluids used to kill and workover this well will consist of seawater with additions of KCl for weight as needed. Adequate supplies of Zinc carbonate H2S scavenger will be kept on location at all times. The pH will be that of the seawater/KCL fluids and will not be controlled.

NOTE: ALL FLUIDS USED IN WELL TO BE FILTERED TO 2 MICRON.

EQUIPMENT FOR MEASUREMENT OF H2S:
- H2S monitors will be located on the flow nipple, shale shakers and other areas on the drilling deck.
- Frequent measurements with a Garrett Gas Train will be made to monitor the sulfide concentration.

PROGRAM:

NOTES:
- After initially removing tree check threads in top of hanger and ensure X-O will make up into same.
- Inspect alignment pin.
- Drift tubing on trip out and check for scale.
- Send completion equipment, (except perf tail, XN, reentry guide these will be rerun), to respective original supplier for re-work/redress as needed.
- Pressure Xmas tree body and all valves to 5000 psi prior to re-installation.
- Prior to rig skid check tubing pressures and all annulus pressures and note same.

1. Skid rig to slot #4.

2. Kill well, install BPV, close SSSV. N/D tree, inspect and test same as necessary for reinstallation.

NOTE: ALL FLUIDS USED IN WELL TO BE FILTERED TO 2 MICRON.

3. N/U and test class IV BOPE to 300 psi low pressure and 3500 psi high pressure test.

4. Remove BPV and POH with completion string. Return equipment to vendors for inspection as necessary. Lay down and return for inspection any tubing that is damaged.

5. Recover standing valve from "R" nipple at 9866', below FB-1 packer at 9850'.

6. Rig-up and run completion equipment per attached schematic.

NOTES:
- GAS LIFT MANDRELS WITH DUMMY VALVES TO BE INSTALLED NEAR MEASURED DEPTHS PROVIDED BY PRODUCTION.
- SEALS ON SSSV TO BE KALRAZ OR CHEMREZ.
- POSITION NIPPLE AT 3000' TO BE 4130. OTHER NIPPLES TO BE 9 CR.
- GLM TO BE 4130 SUITABLE FOR SOUR SERVICE.
- ALL TUBING AND COMPLETION EQUIPMENT TO BE HYDRIL 501.
- DRIFT TUBING TO 2.867" AND ALL COMPLETION EQUIPMENT TO SPECIFIED DRIFT.
- GATORHAWK TUBING AND ALL CONNECTONS TO 5000 PSI, COMPLETION EQUIPMENT ASSEMBLIES TO BE PLUG TESTED TO 5000 PSI ON LOCATION (EXCEPT HYDRAULIC PACKER ASSEMBLIES).
- M/U TORQUE ON HYDRIL 501 TUBING IS 3000/3450/4500 FT/LBS (MIN/OPT/MAX)
- LIGHTLY DOPE PIN END ONLY.
- RUN NEW CONTROL LINE.

7. Install SSSV near 700' M.D. Connect new control line and test to 5000 psi. (Use GST 32 control line fluid).

8. Continue to RIH with tubing with 5000 psi pressure on control line placing bands 2 per joint one above each connection and one in the middle of each joint.

9. Install tubing hanger. Connect control line to tubing hanger and re-connect line to test port. Pressure test same to 5000 psi.

10. Displace hole with seawater packer fluid with scale inhibitor and biocide as recommended by Petroleum Engineering.

11. Ensure lock-downs are fully backed out, align and land tubing hanger and pressure test to 5000 psi.
Note: Tree alignment to be as originally installed.

12. Rig-up slickline and run plug to "X" nipple below packer. Pressure up to 2500 psi to set Baker Hydraulic Model HB. Pressure test annulus to 2200 psi.

13. Back-out landing joints and install BPV in tubing hanger.

14. N/D BOPE, N/U re-run tree and test to 5000 psi.

15. Release rig.

D.H. Bill — Drilling Engineer

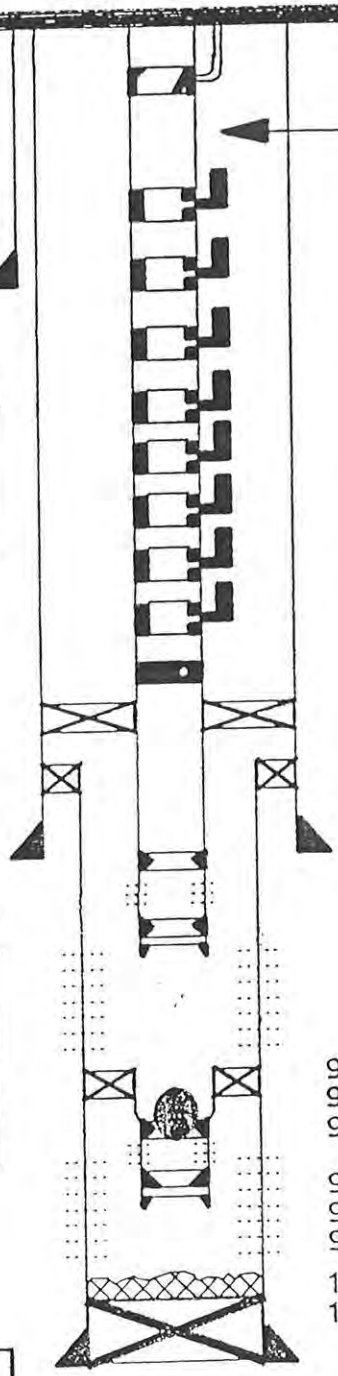
_____ Production Engineer

A.L. Smith — Drilling Superintendent

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE McEvoy – Willis
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS–P–0450
WELL C–1
COMPLETION DATE 1/13/88
WORKOVER 12/29/91

CURRENT



695' Baker FV–6 Tbg. Ret. SSSV with F profile (2.81" ID)

3–1/2" 9.3# L–80 Hydril 501 Tbg.

24" 201.1# @ 1057'

18–5/8" 117.5# @ 1630'

13–3/8" 72# @ 3340'

GAS LIFT			
CAMCO MANDRELS 3–1/2" FMHO		McMURRY VALVES 1–1/2" VRNT	
M.D.	T.V.D.	P.S.I.	PORTS
1889'	1887'	Dummy	
3540'	3285'	Dummy	
4804'	4203'	Dummy	
5843'	4949'	Dummy	
6659'	5550'	Dummy	
7345'	6044'	Dummy	
7969'	6467'	Dummy	
8660'	6935'	Dummy	

ZONES		
FORMATION	M.D.	V.S.S.
M1–Top	9359'	–7298'
M2–Top	9620'	–7487'
M3–Top	9876'	–7680'
M4–Top	10094'	–7840'

8935' Baker 'L' Sliding Sleeve w/ 'F' Profile (2.81" ID)

8947' Baker 'HB' 9–5/8" Hyd. Packer

T.O.L. @ 9018'

9–5/8" 43.5# TO 9415'

9055' Baker 'F' Nipple (2.75" ID)

9088' Perf'd Pups (2–10' Pups)

9108' Baker 'F' Nipple (2.75" ID)

9019' W/L Re–entry Guide

PERFORATIONS		
FORM.	M.D.	V.S.S.
M–1	9510'– 9570'	–7406'– –7450'
Perfs. are .50" dia. @ 4 SPF		
M–2	9620'– 9700'	–7487'– –7547'
M–2	9730'– 9830'	–7570'– –7646'
M–3	9876'– 9996'	–7680'– –7769'
Perfs. are .42" dia. @ 6 SPF		

9850' Baker 'FB–1' Retainer (4" ID)

9852' Baker Seal Bore Ext. (4" ID)

9866' Baker 'R' Nipple w/ NoGo (2.697" ID Stand. Valve set in Nipple (2/4/92)

9867' Perf'd Pups (2–10' Pups)

9886' Baker 'R' Nipple w/ NoGo (2.442" ID

9888' W/L Re–entry Guide

10384' Top of Fill

10412' Cement Plug

7" 26# @ 10498'

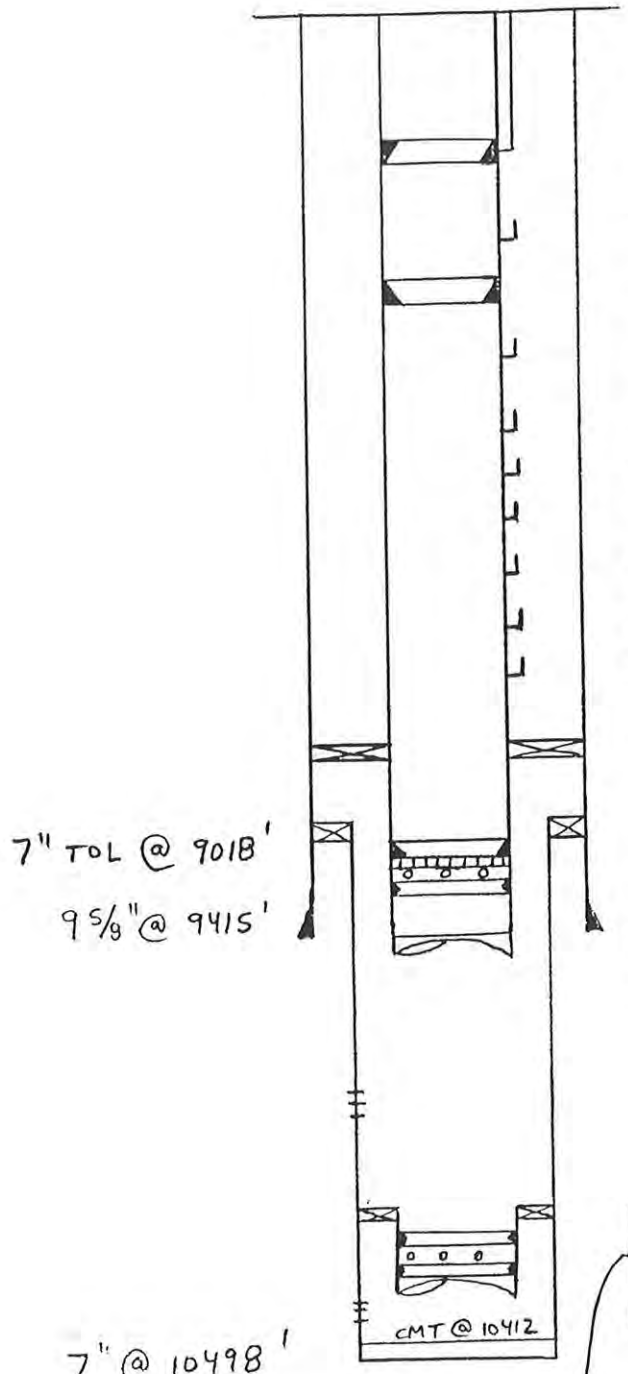
DIRECTIONAL DATA
VERTICAL TO 600 '
MAX ANGLE 52 @ 10498 ' AND
52 @ TD '

PBTD 10412 '
TD 10498 (–8102 VSS)

DATE 02/27/92
BY T.D.B. '

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

C-1
PROPOSED
WELL
SCHEMATIC



SSSV @ 700' +/-

MANDREL @ 2180'

BAKER F NIPPLE @ 3000'

MANDREL @ 4045'

MANDREL @ 5450'

MANDREL @ 6325'

MANDREL @ 6795'

MANDREL @ 7605'

MANDREL @ 8320'

MANDREL @ 8795'

RETRIEVABLE PACKER @ 8950' +/-

5 TUBING JOINTS
BAKER F NIPPLE
SHEAR OUT SUB
20' PERFORATED PUP
BAKER R NIPPLE
TUBING JOINT
WIRELINE RE-ENTRY GUIDE

BAKER FB-1 PACKER @ 9850'
BAKER R NIPPLE
20' PERFORATED PUP
BAKER R NIPPLE
WIRELINE RE-ENTRY GUIDE

EQUIPMENT ALREADY PRESENT AND WILL REMAIN IN PLACE

RMQ 10/1/93

Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

File cr
1-9-92

SUNDRY NOTICES AND REPORTS ON WELLS

CONFIDENTIAL INFORMATION

MINERALS MANAGEMENT SERVICE
JAN - 6 1992
RECEIVED
SANTA MARIA DISTRICT

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form MMS-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Chevron U.S.A. Inc.

3. ADDRESS OF OPERATOR *(Where form is completed)*
P. O. Box 6917, Ventura, CA 93006

4. LOCATION OF WELL *(Report location in accordance with instructions* and Item 16.)*
UTM Zone 10 (x,y)
AT SURFACE: (710995m, 3819240m)
AT TOP PROD. INTERVAL: (709833m, 3820229m)
AT TOTAL DEPTH: (709665m, 3820359m)

5. LEASE NO.
OCS-P-0450
AREA & BLOCK CALIF MAP NI10-6 N796-E144 BLOCK 464

7. WELL NO.
C-1

8. UNIT AGREEMENT
--

9. FIELD
Point Arguello

10. EXPLORATION [ ]
DEVELOPMENT [X]

11. ADJACENT STATE
California

12. API NO.
56-045-20062

13. ELEVATIONS
RKB DF 133'

14. WATER DEPTH
430'

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
ACIDIZE	[X]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
PERFORATE	[ ]	[ ]
PERMANENT ABANDONMENT	[ ]	[ ]
TEMPORARY ABANDONMENT	[ ]	[ ]
ARTIFICIAL LIFT	[ ]	[ ]
(Other) _____		

(NOTE: Report results of multiple completion or zone change on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1) Rig-up acid company. Pressure test lines.
2) Pump : mud-cleaner (non-acid) and HCl with 400 SCF/BBL of nitrogen.
3) Rig-down acid company and return C-1 to production.

Distribution
MMS-3 copies + Pub. Information Copy
Ventura Well Files (Original)
M. P. Monroe: Attn: C.J. Featherstone
Section 724R-Concord
Pt. Arguello Plat. Files(V. Kelley)
R. F. Copy 12/31/91

Subsurface Safety Valve: Manu. and Type 3-1/2" Baker FV-6 Set @ 695 Ft.

17. I hereby certify that the foregoing is true and correct

SIGNED M P Monroe TITLE Dist. Petroleum Engineer DATE 1/2/92

(This space for Federal or State office use)

Phillip R. Schroeder

APPROVED Phillip R. Schroeder TITLE District Supervisor DATE 1-9-92

CONDITIONS OF APPROVAL, IF ANY:

Form MMS-331 (May 1983)
(Supersedes USGS Form 9-331 which will not be used)

*See instructions on reverse

SMD

OBM No. 1010-0045
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

5. LEASE NO.	OCS-P-0450
6. AREA & BLOCK	N-796 E-144 BLK 464
7. WELL NO.	C-1
8. UNIT AGREEMENT	
9. FIELD	Pt. Arguello
10. EXPLORATION	[ ]
DEVELOPMENT	[X]

SUNDRY NOTICES AND REPORTS ON WELLS

CONFIDENTIAL

1. OIL WELL [X] GAS WELL [ ] OTHER

11. ADJACENT STATE: California

2. NAME OF OPERATOR: Chevron U.S.A. Inc.

12. API NO.: 56-045-20062

3. ADDRESS OF OPERATOR: P. O. Box 6917 Ventura, CA 93006
(Where form is completed): 646 County Square Drive Ventura, CA 93003

13. ELEVATIONS
RKB DF 133'

4. LOCATION OF WELL: UTM Zone 10
(Report location in accordance with instructions and Item 16.)*

14. WATER DEPTH: 430'

AT SURFACE: X=710,995 Y=3,819,240
AT TOP PROD. INTERVAL: X=709,816 Y=3,820,245
AT TOTAL DEPTH: X=709,665 Y=3,820,359

MINERALS MANAGEMENT SERVICE
DEC 26 1991
RECEIVED
SANTA MARIA DISTRICT

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
PERFORATE	[X]	[ ]
PERMANENT ABANDONMENT	[ ]	[ ]
TEMPORARY ABANDONMENT	[ ]	[ ]
ARTIFICIAL LIFT	[ ]	[ ]
(Other)		

NOTE: Report results of multiple completion or zone changes on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details,and give pertinent dates, including estimated date of starting *any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)*

Perforate 9510'-9570' and install permanent packer at 9850'.
Work to be combined with workover Program #1.

Subsurface Safety Valve: Manufacturer and Type Baker 3-1/2" FV-6 Set @ 708' Ft.

17. I hereby certify that the foregoing is true and correct.

SIGNED D. H. BILLINGS D. H. Billings **TITLE** Drilling Superintendent **DATE** December 19, 1991

(This space for Federal or State office use)

APPROVED Phillip R. Schroeder **TITLE** District Supervisor **DATE** 12-30-91

CONDITIONS OF APPROVAL, IF ANY:

Form MMS-331 (May 1983). (Supersedes USGS Form 9-331 which may not be used.)

*See instructions on reverse.

Revised 12/19/91 NAJ

SMD

File cal 12-9-91

OBM No. 1010-0045
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

5. LEASE NO.	OCS-P-0450
6. AREA & BLOCK	N-796 E-144 BLK 464
7. WELL NO.	C-1
8. UNIT AGREEMENT	
9. FIELD	Pt. Arguello
10. EXPLORATION	[ ]
DEVELOPMENT	[X]

SUNDRY NOTICES AND REPORTS ON WELLS

CONFIDENTIAL

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Chevron U.S.A. Inc.

3. ADDRESS OF OPERATOR P. O. Box 6917 Ventura, CA 93006
(Where form is completed) 646 County Square Drive Ventura, CA 93003

4. LOCATION OF WELL UTM Zone 10
(Report location in accordance with instructions and Item 16.)*
AT SURFACE: X=710,995 Y=3,819,240
AT TOP PROD. INTERVAL: X=709,816 Y=3,820,245
AT TOTAL DEPTH: X=709,665 Y=3,820,359

11. ADJACENT STATE
California

12. API NO. 56-045-20062

13. ELEVATIONS
RKB DF 133'

14. WATER DEPTH 430'

MINERALS MANAGEMENT SERVICE
DEC - 5 1991
SANTA MARIA DISTRICT

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
ACIDIZE	[ ]
REPAIR WELL	[X]
PULL OR ALTER CASING	[ ]
MULTIPLE COMPLETE	[ ]
CHANGE ZONES	[ ]
PERFORATE	[ ]
PERMANENT ABANDONMENT	[ ]
TEMPORARY ABANDONMENT	[ ]
ARTIFICIAL LIFT	[ ]
(Other)	

NOTE: Report results of multiple completion or zone changes on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details,and give pertinent dates, including estimated date of starting *any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)*

Please see attached program.

Subsurface Safety Valve: Manufacturer and Type Baker 3-1/2" FV-6 Set @ 708' Ft.

17. I hereby certify that the foregoing is true and correct.

SIGNED D.H. Billings **TITLE** Drilling Superintendent **DATE** December 2, 1991

(This space for Federal or State office use)

APPROVED Phillip R. Schroeder **TITLE** District Supervisor **DATE** 12-9-91

CONDITIONS OF APPROVAL, IF ANY:

Form MMS-331 (May 1983). (Supersedes USGS Form 9-331 which may not be used.)

*See instructions on reverse.

Revised 12/02/91 NAJ

SMD

December 3, 1991

OCS-P-0450 WELL: C-1
API NO. 56-045-20063
POINT ARGUELLO FIELD
PLATFORM HIDALGO
WORKOVER PROGRAM NO. 1

PRESENT CONDITIONS

TOTAL DEPTH: 10498' MD / 8239'TVD EFFECTIVE DEPTH: 10412' MD
CASING: 24" CEMENTED AT 1057' TVD
18 5/8" CEMENTED AT 1630' TVD
13 3/8" CEMENTED AT 3340' TVD
9 5/8" CEMENTED AT 9415' MD
LINER: 7" CEMENTED AT 10498' MD / 8239' TVD TOL 9018' MD
TUBING: 3 1/2" 9.3# PF L-80 HYDRIL 501

DIRECTIONAL DATA: KICK OFF POINT 600' MAXIMUM ANGLE 52° AT 10498'
52° AT TD 10498'

COMPLETION: SEE ATTACHED MECHANICAL DETAILS

PURPOSE OF WORKOVER: REPLACE DEFECTIVE PRODUCTION PACKER
SET RETAINER ASSEMBLY RE-RUN PRODUCTION
STRING WITH PACKER SET IN 9 5/8" CASING

FORMMTN	MD	VSS	TVD	ESTIMATED FORMATION PRESSURE	WORKOVER FLUID	FLUID PRESSURE
M1	9380'	-7317'	7450'	3307 psi	8.8 ppg	3408 psi
M2	9620'	-7491'	7624'	3385 psi	8.8 ppg	3487 psi
M3	9880'	-7687'	7820'	3472 psi	8.8 ppg	3577 psi
M4	10126'	-7866'	7999'	3551 psi	8.8 ppg	3659 psi
TD	10498'	-8106'	8239'	3658 psi	8.8 ppg	3769 psi

BOP REQUIREMENT: CLASS IV 5000 PSI
WORKOVER FLUID: 8.8 PPG FRESH WATER WITH 4% NACL AND 4% KCL
MAXIMUM EXPECTED SURFACE PRESSURE: 2328 PSI M-4 WITH GAS ONLY
MAXIMUM EXPECTED H2S: 7000 / 9000 PPM WORK TO BE CONDUCTED UNDER
THE PLATFORM HERMOSA / HIDALGO HYDROGEN
SULFIDE AND SULFUR DIOXIDE CONTINGENCY PLAN
(DRILLING AND PRODUCTION OPERATIONS)
REVISED SEPTEMBER 18, 1990

PROGRAM CONFIDENTIAL

1. Conduct Safety Meeting and record time and date on the IADC Report Book. Skid the rig to well C-1.

2. Kill tubing and annulus with 8.8 ppg completion fluid.

3. Close SSSV and install lubricator then test to 2500 psi and record. Install back pressure valve into tubing hanger.

4. Nipple down production tree and nipple up 13 5/8" 5000 psi BOPE consisting of pipe rams, mud cross, pipe rams, blind rams, annular, and choke manifold with one manual and one remote hydraulic choke. Choke line will be equipped with one HCR and one manual valve. the kill line will be equipped with two manual valves and a check valve. Test all BOP equipment to 250 - 300 psi low and 5000 psi high pressure. Low pressure test must be preformed first. All test must be record on a chart recorder and held at least five minutes. Test annular to 250 - 300 psi low and 3500 psi high. Test Kelly and floor valves 250 - 300 psi low and 5000 psi high. Test kelly hose and mud lines to 3500 psi.

5. Ensure well is dead and POOH with production string.

6. Run casing scraper thru 9 5/8" and 7" casing on 3 1/2" drill pipe to 8491´.

7. RIH with a retainer assembly with an "F" nipple, perforated subs, an "R" nipple and a wireline re-entry guide and set at depth picked by geologist on site.

8. Rerun production equipment as per attached detail. Set Baker "HB" Hydraulic Production Packer in the 9 5/8" casing at 8980 ft. MD with the tubing tail at 9140 ft MD.

10. Install Baker Model "FV-6" SSSV to be landed a minimum of 100´ below ocean floor (approximately 700´ MD RKB).

11. Set production packer and hold pressure on tubing and test for 30 minutes. Record on Chart recorder.

12. Land the hanger and test the annulus between the packer and the hanger to 2000 psi for 15 minutes and record.

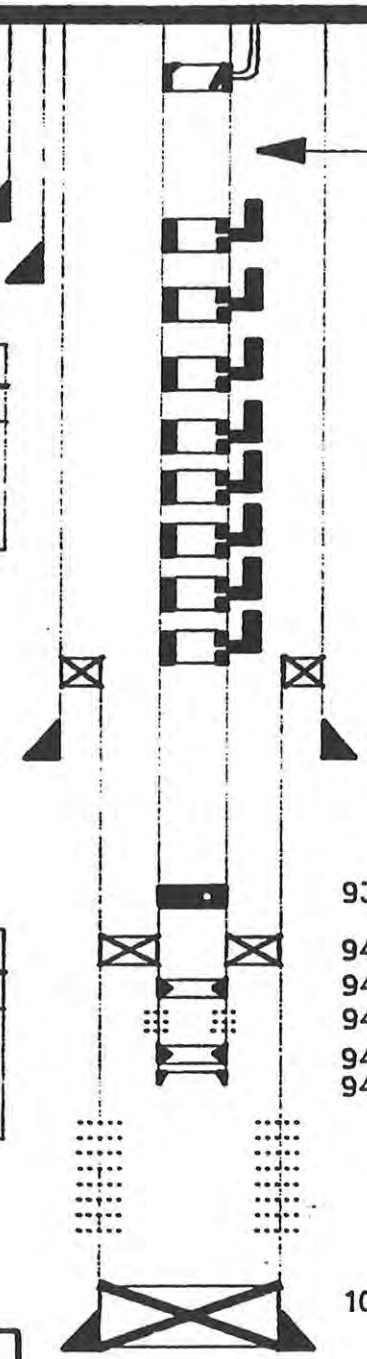
13. Close SSSV and install the back pressure valve in the hanger. Remove BOPE and install bonnet and the tree. Remove the BPV and install a blanking plug and test the tree and bonnet to 5000 psi and record.

14. Move rig off and turn well over to Production Department.

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE McEvoy – Willis
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS–P–0450
WELL C–1
COMPLETION DATE 1/13/88
WORKOVER

CURRENT



24" 201.1# @ 1057'

18–5/8" 117.5# @ 1630'

13–3/8" 72# @ 3340'

708' Baker FV–6 Tbg. Ret. SSSV with F profile (2.81" ID)

3–1/2" 9.3# L–80 Hydril 501 Tbg.

GAS LIFT			
CAMCO MANDRELS 3–1/2" FMHO		McMURRY VALVES 1–1/2" VRNT	
M.D.	T.V.D.	P.S.I.	PORTS
1912'	1909'	1010	1/4"
3554'	3295'	980	1/4"
4813'	4211'	950	1/4"
5856'	4957'	930	1/4"
6673'	5560'	910	1/4"
7364'	6056'	890	1/4"
8019'	6500'	870	1/4"
8673'	6944'	Orifice	1/4" OV

ZONES		
FORMATION	M.D.	V.S.S.
M1–Top	9380'	–7317'
M2–Top	9620'	–7491'
M3–Top	9880'	–7687'
M4–Top	10126'	–7866'

T.O.L. @ 9018'

9–5/8" 43.5# TO 9415'

9393' Baker 'L' Sliding Sleeve w/ 'F' Profile (2.81" ID)
9426' Baker 'Hydra–Pak' 7" Packer
9442' Baker 'F' Nipple (2.75" ID)
9443' Perf'd Pups (2–10' Pups)
9463' Baker 'R' Nipple (2.697" ID)
9496' W/L Re–entry Guide

PERFORATIONS		
FORM.	M.D.	V.S.S.
M–2	9620'– 9700'	–7491'– –7551'
M–2	9730'– 9830'	–7574'– –7649'
M–3	9876'– 9996'	–7684'– –7773'

Perfs. are .42" dia. @ 6 SPF

7" 26# @ 10498'

10412' Cement Plug

DIRECTIONAL DATA		
VERTICAL TO	600	'
MAX ANGLE 52 @	10498	' AND
52 @	TD	'

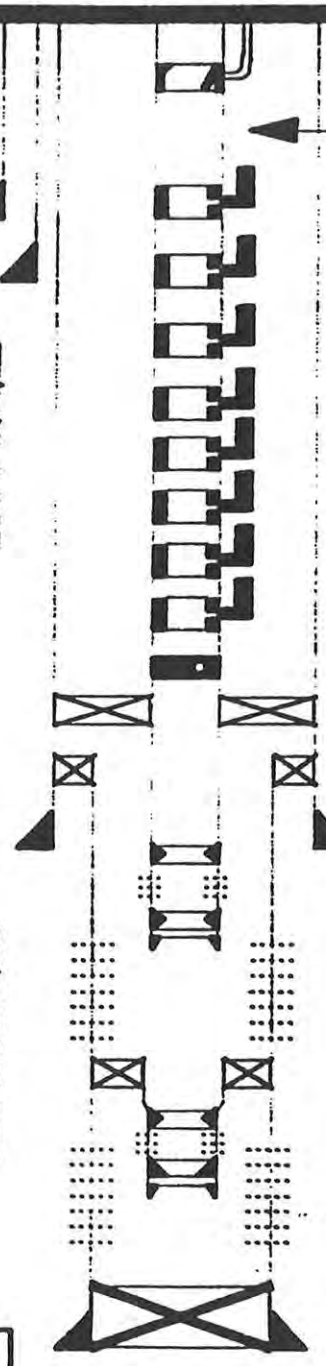
PBTD 10412 '
TD 10498 (–8106 VSS)

DATE 11/04/91 '
BY T.D.B. '

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE McEvoy – Willis
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL C-1
COMPLETION DATE 1/13/88
WORKOVER

PROPOSED



700' Baker FV-6 Tbg. Ret. SSSV with F profile (2.81" ID)

3-1/2" 9.3# L-80 Hydril 501 Tbg.

24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	9380'	-7317'
M2-Top	9620'	-7491'
M3-Top	9880'	-7687'
M4-Top	10126'	-7866'

GAS LIFT

CAMCO MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I.	PORTS
1900'	1900'	Dummy	
3560'	3300'	Dummy	
4800'	4200'	Dummy	
5845'	4950'	Dummy	
6660'	5550'	Dummy	
7355'	6050'	Dummy	
8020'	6500'	Dummy	
8680'	6950'	Dummy	

Baker 'L' Sliding Sleeve w/ 'F' Profile (2.81" ID)

8980' Baker 'HB' 9-5/8" Hyd. Packer

T.O.L. @ 9018'

9-5/8" 43.5# TO 9415'

Baker 'F' Nipple (2.75" ID)
Perf'd Pups (2-10' Pups)
Baker 'F' Nipple (2.75" ID)
W/L Re-entry Guide

PERFORATIONS

FORM.	M.D.	V.S.S.
M-2	9620'- 9700'	-7491'- -7551'
M-2	9730'- 9830'	-7574'- -7649'
M-3	9876'- 9996'	-7684'- -7773'

Perfs. are .42" dia. @ 6 SPF

9850' Baker 'FB-1' Retainer (4" ID)
Baker Seal Bore Ext. (4" ID)
Baker 'F' Nipple (2.75" ID)
Perf'd Pups (2-10' Pups)
Baker 'R' Nipple (2.697" ID)
W/L Re-entry Guide

7" 26# @ 10498'

10412' Cement Plug

DIRECTIONAL DATA

VERTICAL TO 600'
MAX ANGLE 52 @ 10498' AND
52 @ TD'

PBTD 10412'
TD 10498 (-8106 VSS)

DATE 11/27/91
BY T.D.B.

File CR 11-15-91
Surveys

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
SANTA MARIA DISTRICT

VERBAL APPROVAL REQUEST

OPERATOR: Chevron FACILITY: Hidalgo LEASE NO.: P-0450 WELL NO.: C-1
REQUESTED BY: Bob Lukavsky PRESENT OPERATION: Producing O+G

REQUEST APPROVAL TO: Continue producing well C-1 with a SSSV which exceeds the MMS allowable leakage rate. The SSSV will be repaired/replaced during the upcomming workover.

JUSTIFICATION FOR REQUEST: The well was also found to have a leating production packer which requires rig activation and well workover which will be performed in December after rig start up. 11/26 start rigging up start w/o 12/9 to 12/15

REGULATORY REQUIREMENT AFFECTED BY REQUEST: 250.121 E (4)

TIME PERIOD OF REQUEST: 10/30 to 12/15

ADDITIONAL SAFETY PRECAUTIONS INTENDED OR REQUIRED:

☑ APPROVED ☐ DENIED COMMENTS:

BY: Dan Knowlson DATE: 11/14/91 TIME: 11:00 (am) pm

DS CONCURRENCE: Dan R Knowlson acting DS DATE: 11/14/91

SUNDRY NOTICE TO FOLLOW? ☐ YES ☑ NO letter to follow

OMB No. 1010-0045
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form MMS-331-C for such proposals.)

MINERALS MANAGEMENT SERVICE
JUN 26 1991
RECEIVED
SANTA MARIA DISTRICT

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Chevron U. S. A. Inc.

3. ADDRESS OF OPERATOR *(Where form is completed)*
Post Office Box 6917, Ventura, CA 93006

4. LOCATION OF WELL *(Report location in accordance with instructions* and Item 16.)*
UTM Zone 10 (X, Y)
AT SURFACE: (710995', 3819240')
AT TOP PROD. INTERVAL: (709816', 3820245')
AT TOTAL DEPTH: (709665', 3820359')

5. LEASE NO.
OCS-P-0450

6. AREA & BLOCK
Southern California

7. WELL NO.
C-1

8. UNIT AGREEMENT

9. FIELD
Point Arguello

10. EXPLORATION [ ]
DEVELOPMENT [X]

11. ADJACENT STATE
California

12. API NO.
560-4520062

13. ELEVATIONS
RKB DF 133'

14. WATER DEPTH
430'

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
PERFORATE	[ ]		[ ]
PERMANENT ABANDONMENT	[ ]		[ ]
TEMPORARY ABANDONMENT	[ ]		[ ]
ARTIFICIAL LIFT	[ ]		[ ]
(Other) Temporarily lock open SSSV.			

RECEIVED
JUN 24 1991
MINERALS MGMT. SERVICE
CAMARILLO DISTRICT

(NOTE: Report results of multiple completion or zone change on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Hidalgo Well C-1 is currently producing below expected rates. A leak off test on 5/24/91 indicated that the SSSV is fully closing. However, a recent test on 6/7/91 indicates that the SSSV may not be fully opening. Production rates of this well suggest that the tubing is partially blocked. A separation sleeve can be placed in the SSSV which will push the Flapper out of the flow area. Then the well will be flowed for several days to determine if the flapper was partially closed and causing reduced production. The SSSV cannot be closed while the separation sleeve is in place. We intend to leave the separation sleeve in the well for a maximum of 7 days.

1. Rig up wireline lubricator. Pressure test to 2000 psi.
2. Run separation sleeve into SSSV at 708' DF, rig down wireline.
3. Produce and gauge well for maximum of 7 days.
4. Rig up wireline lubricator. Pressure test to 2000 psi.
5. Remove separation sleeve and fuction test SSSV.
6. Rig down wireline.

Subsurface Safety Valve: Manu. and Type Baker 3-1/2" FV-6 Set @ 708 Ft.

17. I hereby certify that the foregoing is true and correct

SIGNED M. P. MONROE V. Saulsen for MPM TITLE Dist. Petroleum Engineer DATE 6/20/91

(This space for Federal or State office use)

APPROVED Phillip R. Schroeder TITLE District Supervisor DATE 6-26-91

CONDITIONS OF APPROVAL, IF ANY:
Verbal approval given
Curt Featherstone
6/18/91.

DISTRIBUTION
MMS - 2 copies plus Public Information Copy
Ventura Well Files (Original)
M. P. Monroe-Vta. Prod., Attn: C. J. Featherstone
Section 724P-Concord
R. F. Copy 6/21/91

Form 9-331 (May 1983)
(Supersedes USGS Form 9-331
which will not be used)

*See instructions on reverse

REGION

OMB No. 1010-0045
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

LEASE NO. OCS-P-0450

6. AREA & BLOCK Calif. Map NI 10-6 N 796 E 144 (Blk. 464)

7. WELL NO. C-1

8. UNIT AGREEMENT N/A

9. FIELD Point Arguello

10. EXPLORATION ☐ DEVELOPMENT ☒

11. ADJACENT STATE California

12. API NO. 56-045-20062

13. ELEVATIONS RKB DF 133 feet MLLW

14. WATER DEPTH 430 feet

SUNDRY NOTICES AND REPORTS ON WELLS

Confidential

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form MMS-331-C for such proposals.)

1. oil well ☒ gas well ☐ other

2. NAME OF OPERATOR
Chevron U.S.A., Inc.

3. ADDRESS OF OPERATOR *(Where form is completed)*
P. O. Box 6917, Ventura, California 93006

4. LOCATION OF WELL *(Report location in accordance with instructions* and Item 16.)*
Slot 4
AT SURFACE: X=710,995.44m Y=3,819,240.18m (671'FEL)(5118'FNL)
AT TOP PROD. INTERVAL: X=709,816.8m Y=3,820,247.65m (4538.05'FEL)
AT TOTAL DEPTH: X=709,665.49m Y=3,820,462.17m (1812.17'FNL)
UTM 10 (5034.47'FEL) (1108.36'FNL)

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	X	SUBSEQUENT REPORT OF:
ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
PERFORATE	☒	☐
PERMANENT ABANDONMENT	☐	☐
TEMPORARY ABANDONMENT	☐	☐
ARTIFICIAL LIFT	☐	☐
(Other) Perforate 7" liner and complete well.		

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
JAN 22 1988
FIELD OPERATIONS
LOS ANGELES

(NOTE: Report results of multiple completion or zone change on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attached completion program.

MINERALS MANAGEMENT SERVICE
RECEIVED
JAN 15 1988
SANTA MARIA DISTRICT

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

17. I hereby certify that the foregoing is true and correct

SIGNED L. R. Richards FOR J. P. Lester TITLE Division Manager DATE 1-14-88

(This space for Federal or State office use)

APPROVED E. P. Danenberger TITLE District Supervisor DATE 1/20/88

CONDITIONS OF APPROVAL, IF ANY:

Distribution: MMS-Santa Maria(Original+2 +Public Info. Copy)
Ventura Well File-Attn: A. Jolicoeur
J.W. Wright-Attn: M.G. Merritt
R.J.B. Young-Ventura,Geology
W.R.Richards-Ventura,Drilling
C.R. Krummrich-Ventura,Drilling

Form MMS-331 (May 1983) Section 724P-Concord
(Supersedes USGS Form 9-331 which will not be used)

*See instructions on reverse

REGION

CONFIDENTIAL

PROGRAM FOR WELL WORK

ENGINEER: Jerry Ray

HOME PHONE: (805) 644-1603

OFFICE PHONE: (805) 658-4495

SUBJECT: Hidalgo C-1 Completion Program (Bomb well without sensor)

CURRENT STATUS:

RESERVOIR DATA:

ESTIMATED TOPS				ANTICIPATED PRESSURE/ PRESS	WORKOVER FLUID		
FORMATION	DEPTH	MEAS -VSS	V.D.	psig	ppg	psig	overbalance
M.	9232'	-7155'	7288'	3220	8.8	3335	115
M4	10173'	-7825'	7958'	3521	8.8	3642	121
T.D.	10559'	-8100'	8233'	3645	8.8	3767	122

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
JAN 22 1988
FIELD OPERATIONS
LOS ANGELES

BOP REQUIREMENT: Class IV 5000 psi.

PROCEDURE:

1. Clean out to programmed effective depth. Run Schlumberger CBL-GR-CCL. Obtain necessary segregations.

2. RIH to effective depth and reverse circulate with seawater. Change-over to 8.8 ppg sea water with 4% KCl and filtered to below 30 NTU. Add the following PROFCO products, PER FIELD PROG. and PER FIELD PROG. to all fluids left in the hole. Use DE filter and 2 micron absolute polishing filters supplied by Pall Well Technology.

3. Perforate well with Schlumberger 3-3/8", 6 SPF, 22 gm charge, 60° phasing guns run on wireline. (40' runs) Correlate to log designated by Geology. Production Engineer to supply collars after running the CBL. Depths to be provided.

4. Run production equipment per attached detail. Baker Hydra-pak hydraulic production packer with 40,000# straight pull shear release (right hand rotation also releases) to be set in 7" casing with tubing tail to be ± 50' above top future perforation.

   Drift all tubing to 2.867" and all completion equipment to specified drift.
   (See attached)

5. Lightly dope pin end only. Make-up of Hydril 3 1/2" L-80 501 thread is 3000/3450/4500 ft-lbs. (Minimum/Optimum/Maximum). Use wiper rubber over flow nipple while running in hole.

6. A total of 8 gas lift mandrels are to be run at the following depths:

TVD	MD
1900	1902
3300	3562
4200	4800
4950	5845
5550	6662
6050	7358
6500	8021
6950	8686

7. Install SSSV (at approx. 700') to be landed a minimum of 100' below ocean floor. D. F. to ocean floor is 563'.

Note: Have service representative present. Connect control line and test to 6000 psi. Use Chevron GST-32 control line fluid. (Baker to test at 150° and 180° for elastomer damage.) Production Foreman will supply.

8. RIH with SSSV and 1/4" seamless monel control line to be supplied by Otis and delivered to Baker for testing. Place 2 bands per joint - 4' above each connection and in the middle of each joint. Bands to be supplied by Baker. Keep 5000 psi on SSSV control line while running tubing.

9. M/U tubing hanger assembly.

Note: Tubing hanger is eccentric. Top and bottom connections of tubing hanger are 3- 1/2" Hydril 501.

10. Connect the SSSV control line to the tubing hanger. Re-connect SSSV control line to hanger test port and pressure test connections to 6000 psi.

11. M/U 3-1/2" Hydril 501 landing joints. Top of tubing hanger is 3-1/2" Hydril 501. Align tubing hanger. SSSV should be open.

12. Check to ensure lockdown studs are backed out. Land tubing hanger and run in studs. Record up and down weights of tubing prior to landing hanger and note on tubing landing detail sheet.

13. Rig-up slickline unit. Assure SSSV is open. Run Baker Model "FB-2" equalizing check valve on Otis "SB" pulling tool and set same in "F" nipple below packer. Pressure tubing to 2500 psi to set production packer. Pressure test annulus to 2000 psi to ensure packer is set. Hold 2500 psi tubing pressure for 30 minutes and record on chart. Pull "FB-2" equalizing check valve. Keep sufficient differential pressure on control line to hold SSSV open while setting packer.

14. Bleed off control line to close SSSV. Back out landing joints and install back-pressure valve in tubing hanger. BPV to be provided by National.

15. Remove BOPE.

16. R/U Xmas tree. Test to 5000 psi.

<u>SHOP</u>: Prior to shipping equipment to platform.

1. Packer assembly to consist of 6' pup on top and 4' pup on bottom.

2. GLM's fitted with 6' pup on top and 4' pup on bottom. Dummy GLV's installed. M/U and pressure test assemblies to 5000 psi.

3. Baker Model "TR" sleeve assembly to be fitted with 6' pup on top and 4' pup on bottom. Function test and pressure test assembly to 5000 psi. Sleeve to be run closed. "TR" sleeve opens with upward pull.

4. The two 10' pups will be perforated by Baker with eight 3/4" HPF. A 45° chamfored wire-line re-entry guide to be supplied by Baker Packers.
SSSV fitted with 6' pup on top and 4' pup on bottom. Pressure test the control line to 6000 psi. Test valve to 6000 psi. Test the valve from below to 5000 psi. Test the body and pups to 5000 psi.

Note: Do not cut control line fluid with diesel. Need written confirmation of tests, including valve serial number from test company.

5. Tubing hanger assembly to consist of a eccentric tubing hanger with a 3-1/2" Hydril 501 threads top and bottom. Fatique nipple to be run on bottom of the hanger. Assembly to be pressure tested to 5000 psi.
Supply charts with all test.

DHB24:jsb

C-1 Completion (Bomb Well Without Sensor)

VENDOR TELEPHONE LIST

EQUIPMENT	COMPANY	REPRESENTATIVE	TELEPHONE
GAS LIFT MANDRELS	BAKER	BRET STEVENSON	644-5541
"TR" SLIDING SLEEVE, "F" NIPPLE	"	BUZZ MCCOY	644-5541
"R" NIPPLE PERFORATED PUPS	"	"	"
"FV-6" SSSV HYDRAULIC BANDS	"	"	"
PACKER WIRELINE RE-ENTRY GUIDE	"	"	"
CONTROL LINE	OTIS	WILL BE DELIVERED TO BAKER FOR TESTING	
TUBING	HYDRIL	DANNY PIERCE	488-3654 643-8546
PERFORATING	SCHLUMBERGER	CURTIS JONES	644-8145
WELLHEAD/BPV	NATIONAL	KENNY JACKSON	654-1633
TREE	MCEVOY		
PACKER FLUIDS	PROFCO	BOB FERRIS	656-1920
FILTERING	PALL	GARY HALL	1-399-1761

GPR8:jsb 1/6/88

..END

D. F. ELEVATION 133 '
D. F. TO TBG HEAD ____ '
WATER DEPTH 430 '
TREE ____
5000 PSI WP

PROPOSED C-1 MECHANICAL

POINT ARGUELLO FIELD
OCS-P-0450 LEASE
C-1 WELL

COMPLETED:

GAS LIFT

McMURRY MANDRELS MD	TVD	McMURRY VALVES PSI	PORTS
1902	1900	DUMMY	
3562	3300	DUMMY	
4800	4200	DUMMY	
5845	4950	"	
6662	5550	"	
7358	6050	"	
8021	6500	"	
8686	6950		

TUBING

SIZE	WEIGHT	GRADE	THREAD	FEET
3-1/2"	9.3#	L-80	Hydril 501	

3-1/2" BAKER TYPE FV-6 SSSV @ +/- 700'
WITH "F" PROFILE (2.81" ID)
TO BE SET MINIMUM OF 100' BOF

24 " - 201.1 # CSG. TO 1056 '

18-5/8 " - 117.5 # CSG. TO 1630 '

13-3/8 " - 68 # CSG. TO 3340 '

9-5/8 " - 43.5 # CSG. TO 9415 '

TOP 7 " LINER @ '

TOP OF M-2 @ 9620 M.D.
(- ' V.S.S.)

3-1/2" BAKER MODEL "TR" SLIDING SLEEVE
WITH "F" PROFILE (2.81" ID)

7" BAKER HYDRA-PAK PACKER @ '

3-1/2" BAKER "F" NIPPLE (2.75" ID) @
3-1/2" PERFORATED PUPS (TWO- 10' PUPS)
3-1/2" BAKER "R" NIPPLE (2.697" ID) @
3-1/2" JOINT TBG
3-1/2" W/L REENTRY GUIDE @ 50' ABOVE TOP
FUTURE PERF.

PERFORATIONS

FORMATION		INTERVAL (M.D.)
M2	PERF	9620 - 9700 (80')
M2	BLANK	9700 - 9730 (30')
	PERF	9730 - 9830 (100')
	BLANK	9830 - 9876 (46')
	PERF	9876 - 9996 (120')
	TOTAL PERFS:	(300')

7 " - 26 # CSG. TO 10498

DIRECTIONAL DATA

PBTD '
TD 10498 '

PROPOSED

CONFIDENTIAL

BY DHB DATE 12/19/87

SANTA MARIA DISTRICT

REPORT ON VERBAL REQUEST FOR APPROVAL

Operator: Chevron Lease/Well No: 0450 c-1 Requested by: Craig Krummrich

Present Operations: Cmt. liner

REQUEST FOR APPROVAL TO:

( ) Delay BOP test

( ) Delay Directional Survey

( ) Change Well Depth

( ) Change Casing Depth

( ) Change Casing Grade

( ) Change Cementing Procedure

( ) Perform DST

( ) Change DST Zone

( ) Permanent Abandonment

( ) Temporary Abandonment

(✓) Other Perf & Comp.

Reason for Request: Comp. program faxed to MMS @ 2:07PM 1/8/88

tentative Perfs. 9620 - 9700
9700 - 9730 Blank
9730 - 9830
9830 - 9876 Blank
9876 - 9996

300' perfed

(✓) Approved ( ) Denied Reason for Denial:

By: DRK Date: 1/8/88 Time: 3:35 PM

Sundry Notice to follow: (✓) YES ( ) NO Sub. Rpt.

OMB No. 1010-0045
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

LEASE NO. OCS-P-0450

6. AREA & BLOCK Calif. Map NI 10-6 N 796 E 144 (Blk. 464)

7. WELL NO. C-1

8. UNIT AGREEMENT N/A

9. FIELD Point Arguello

10. EXPLORATION ☐ DEVELOPMENT ☒

11. ADJACENT STATE California

12. API NO. 56-045-20062

13. ELEVATIONS RKB DF 133 feet MLLW

14. WATER DEPTH 433 feet

SUNDRY NOTICES AND REPORTS ON WELLS

Confidential

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form MMS-331-C for such proposals.)

1. oil well ☒ gas well ☐ other

2. NAME OF OPERATOR
Chevron U.S.A., Inc.

3. ADDRESS OF OPERATOR *(Where form is completed)*
P.O. Box 6917, Ventura, CA 93006

4. LOCATION OF WELL *(Report location in accordance with instructions* and Item 16.)*
Slot 4
AT SURFACE: X=710,995.44m Y=3,819,240.18m (671'FEL)(5118'FNL)
AT TOP PROD. INTERVAL: X=709,857.68m Y=3,820,224.2m (4404'FEL) (1189'FNL)
AT TOTAL DEPTH: X=709,642.91m Y=3,820,409.95m (5109'FEL) (1280'FNL)
UTM 10

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

	REQUEST FOR APPROVAL TO: X	SUBSEQUENT REPORT OF: X
ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
PERFORATE	☐	☐
PERMANENT ABANDONMENT	☐	☐
TEMPORARY ABANDONMENT	☐	☐
ARTIFICIAL LIFT	☐	☐
(Other) See below		

(NOTE: Report results of multiple completion or zone change on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Change the amount of dry bulk Barite required on board Platform Hidalgo and on board the supply vessels servicing the platform.

Please see attached "Mud Quantity" original and revised documents. Verbal approval obtained per Telecom Paul Freeze (MMS) and M. K. Rieken (CUSA) on 11-23-87.

MINERALS MANAGEMENT SERVICE
RECEIVED
NOV 25 1987
SANTA MARIA DISTRICT

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

17. I hereby certify that the foregoing is true and correct

SIGNED for J.P. Lester TITLE Division Manager DATE 11-24-87

(This space for Federal or State office use)

APPROVED E. P. Danenberger TITLE District Supervisor DATE 11/25/87

CONDITIONS OF APPROVAL, IF ANY:

Distribution: MMS-Sta. Maria
(Original+2+Public Info. Copy)
Ventura Well File-Attn:A. Jolcoeur
J.W. Wright-Attn: M.G. Merritt
R.J.B. Young-Ventura,Geology
W.R. Richards-Ventura,Drilling
J.R. Swinson-Ventura,Drilling
Section 724P-Concord

Form MMS-331 (May 1983)
(Supersedes USGS Form 9-331 which will not be used)

*See instructions on reverse

DISTRICT

OCS-P-0450
POINT ARGUELLO

In reference to OCS Order No. 2, Paragraph 6.3 Mud Quantities:

Total Platform Hidalgo Mud Quantity Capability
and Emergency Mud Quantity Supply Capability

Total active liquid circulation system on Platform:	800 bbls.
Reserve liquid mud storage on Platform:	900 bbls
Standby liquid completion fluid storage:	450 bbls.
Liquid mud storage available on supply boat	1,200 bbls.
Total Liquid Mud Available:	3,350 bbls.

Available Dry Bulk Barite

On Platform Hidalgo:	
1-2500 sack pneumatic pod:	1,000 sacks
On Supply Boat:	
2-1250 sack pneumatic pods:	0 sacks
Supply on shore:	2,500
Total:	3,500

Estimated Time Required for Emergency Delivery of
Mud Supplies by Supply Boat from Port Hueneme

Time required to load boat:	1 hour
Boat travel time to Platform:	8 hours
Time to unload boat:	½ hour
Total time required:	9.5 hours

CRK:naj
11/23/87

OCS-P-0450
POINT ARGUELLO

In reference to OCS Order No. 2, Paragraph 6.3 Mud Quantities:

Total Platform Hidalgo Mud Quantity Capability
and Emergency Mud Quantity Supply Capability

Total active liquid circulation system on Platform:	800 bbls.
Reserve liquid mud storage on Platform:	900 bbls.
Standby liquid completion fluid storage:	450 bbls.
Liquid mud storage available on supply boat	1,200 bbls.
Total Liquid Mud Available:	3,350 bbls.

Available Dry Bulk Barite

On Platform Hidalgo:	
1-2500 sack pneumatic pod:	2,500 sacks
On Supply Boat:	
2-1250 sack pneumatic pods:	2,500 sacks
Supply on shore:	10,000+
Total:	15,000+

Estimated Time Required for Emergency Delivery of
Mud Supplies by Supply Boat from Port Hueneme

Time required to load boat:	1 hour
Boat travel time to Platform:	8 hours
Time to unload boat:	½ hour
Total time required:	9.5 hours

CRK:naj
10/13/87

OMB No. 1010-0045
(Expires July 31, 1986)

UNITE TATES
DEPARTMENT O. THE INTERIOR
MINERALS MANAGEMENT SERVICE

LEASE NO. OCS-P-0450

6. AREA & BLOCK Calif. Map NI 10-6 N 796 E 144 (Blk. 464)

7. WELL NO. C-1

8. UNIT AGREEMENT N/A

9. FIELD Point Arguello

10. EXPLORATION ☐ DEVELOPMENT ☒

11. ADJACENT STATE California

12. API NO. 56-045-20062

13. ELEVATIONS RKB DF 133 feet MLLW

14. WATER DEPTH 430 feet

SUNDRY NOTICES AND REPORTS ON WELLS

Confidential

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form MMS-331-C for such proposals.)

1. oil well ☒ gas well ☐ other

2. NAME OF OPERATOR
Chevron U.S.A., Inc.

3. ADDRESS OF OPERATOR *(Where form is completed)*
P. O. Box 6917, Ventura, California 93006

4. LOCATION OF WELL *(Report location in accordance with instructions* and Item 16.)*
Slot 4
AT SURFACE: X=710,995.44m Y=3,819,240.18m (671'FEL) (5118'FNL)
AT TOP PROD. INTERVAL: X=709,857.68m Y=3,820,224.2m (4404'FEL) (1189'FNL)
AT TOTAL DEPTH: X=709,642.91m Y=3,820,409.95m (5109'FEL (1280'FNL)
UTM 10

15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

	REQUEST FOR APPROVAL TO: X	SUBSEQUENT REPORT OF: X
ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
PERFORATE	☐	☐
PERMANENT ABANDONMENT	☐	☐
TEMPORARY ABANDONMENT	☐	☐
ARTIFICIAL LIFT	☐	☐
(Other) See below.		

(NOTE: Report results of multiple completion or zone change on Form MMS-330.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Change the 9-5/8" 43.5PPF SS95 casing to the following:
   0' - 200' 9-5/8" 43.5 PPF SS95 Seal-Tech super ST/L flush jt. (Same as in APD.)
   200' - 9372'± 9-5/8" 43.5 PPF TC-80 Hydril 563

This change is made due to changes in tubular procurement.

DISTRIBUTION:
MMS - Santa Maria (Orig. + 2 + Public Info. Copy)
Ventura Well File - Attn: A. Jolicoeur
R. J. B. Young - Ventura, Geology
W. R. Richards - Ventura, Drilling
C. R. Krummrich - Ventura, Drilling
Section 724P - Concord

MINERALS MANAGEMENT SERVICE
RECEIVED
DEC 17 1987
SANTA MARIA DISTRICT

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

17. I hereby certify that the foregoing is true and correct

SIGNED R Swinson for J. P. Lester TITLE Division Manager DATE 16 Dec. 87

(This space for Federal or State office use)

APPROVED E P Danenberger TITLE District Supervisor DATE 12/18/87

CONDITIONS OF APPROVAL, IF ANY:
E. P. Danenberger

Form MMS-331 (May 1983)
(Supersedes USGS Form 9-331 which will not be used)

*See instructions on reverse

DISTRICT

SANTA MARIA DISTRICT

REPORT ON VERBAL REQUEST FOR APPROVAL

C-1

Operator: Chevron Lease/Well No: P-0450 Requested by: Mike Rieken

Present Operations: Moving pipe - high winds

REQUEST FOR APPROVAL TO:

(X) Delay BOP test — BOP test due today. Don't want to trip until high winds die down.

( ) Delay Directional Survey

( ) Change Well Depth

( ) Change Casing Depth

( ) Change Casing Grade

( ) Change Cementing Procedure

( ) Perform DST

( ) Change DST Zone

( ) Permanent Abandonment

( ) Temporary Abandonment

( ) Other _____

Reason for Request:

(X) Approved ( ) Denied Reason for Denial:

By: J Paul Freeze Date: 12/16/87 Time: 12:45

Sundry Notice to follow: ( ) YES ( ) NO

P-490 725 871

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Supervisor, Field Operations
Minerals Management Service

Sent to: OCS Region	
Street and No. 1340 West Sixth Street	
P.O., State and ZIP Code Los Angeles, CA 90017	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 1/21/88	

Sundries: 0450 C-1
0315 A-13

PS Form 3800, June 1985

U.S.G.P.O. 153-506

U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The ... of the person ...able. Consult

...red

...ddressee
RED.
...Y if

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

Minerals Management Service
Santa Maria District
222 W. Carmen Lane, Suite 201
Santa Maria, California 93454

Minerals Management Service
Santa Maria District
222 W. Carmen Lane, Suite 201
Santa Maria, California 93454

STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE, CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES. (See front)

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached and present the article at a post office service window or hand it to your rural carrier. (no extra charge)

2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach and retain the receipt, and mail the article.

3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.

4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.

5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in Item 1 of Form 3811.

6. Save this receipt and present it if you make inquiry.

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☐ Show to whom delivered, date, and addressee's address. *↑(Extra charge)↑*
2. ☐ Restricted Delivery *↑(Extra charge)↑*

3. Article Addressed to:

Regional Supervisor, Field Operations
Minerals Management Service
Pacific OCS Region
1340 West Sixth Street
Los Angeles, CA 90017

4. Article Number
P 490 725 871

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

8. Addressee's Address *(ONLY if requested and fee paid)*

Signature — Addressee

Signature — Agent
Karen Alink

Date of Delivery
1-22-88

PS Form **3811**, Mar. 1987 ★ U.S.G.P.O. 1987-178-268 **DOMESTIC RETURN RECEIPT**

CONFIDENTIAL

SUBMIT: Original, one copy, and one public information copy.

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

MINERALS MANAGEMENT SERVICE
FEB 11 1992
RECEIVED
PACIFIC DISTRICT

OMB Approval No. 1010-0046
Expires: August 31, 1991

WELL (RE)COMPLETION REPORT

SUBMIT SEPARATE FORM FOR EACH (RE)COMPLETION

1. FIELD NAME	2. MMS LEASE, UNIT OR COMM. NO. (6)	3. MMS OPERATOR NUMBER (5)
Point Arguello	OCS-P-0450	

4. OPERATOR WELL NUMBER (6)	5. DATE (RE)COMPLETED (6) YYMMDD	6. API NUMBER (10 or 12) STATE (2)	COUNTY (3)	SEQUENCE (5)	SIDE TRACK (2)	COMPLETION CODE (3)
C-1	91/12/30	56	045	20062		

7. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)	8. INITIAL COMPLETION ☐ RECOMPLETION ☒ OIL ☐ GAS ☐ OTHER _____	9. DATE SPUDDED (6) YYMMDD
Chevron U.S.A. Inc. P. O. Box 6917 Ventura, CA 93006	10. DATE SIDETRACKED (6) YYMMDD	LEAVE BLANK

11. FINAL LOCATION OF WELL (12)	12. OPERATING AREA CODE (2)	13. BLOCK NUMBER (6)
Surface: X=710,995.44M Y=3,819,240.18M (671'FEL)(5118'FNL) Production zone: X=709,833.6M Y=3,820,232.5M (4483'FEL)(1862'FNL) Total depth: X=709,665.4M Y=3,820,362.3M (5035'FEL)(1436'FNL)		Block 464 N796 E144

14. MAP OR OFFICIAL PROTRACTION DIAGRAM NUMBER (7)
California Map NI 10-6

15. OPERATOR LEASE, UNIT OR COMMUNITIZATION NAME	16. DISTANCE IN FEET FROM NEAREST WELL DRILLING, PRODUCING, OR ABANDONED (5)	17. DATE TD REACHED (6)
Point Arguello		88/01/05

18. TOTAL DEPTH (5)	19. PLUG BACK DEPTH (5)	20. PRODUCING INTERVAL THIS COMPLETION (5)
MD 10498' TVD 8235'	MD 10412' TVD 8182'	TOP MD 9510' TVD 7539' BOTTOM MD 9996' TVD 7902'

21. NAME OF PRODUCING FORMATION(S) (This completion including subunits) M2, M3

22. ELECTRIC AND OTHER LOGS RUN

23. CASING RECORD *(Report all strings set in well.)*

HOLE SIZE (4)	CASING SIZE (4), LB/FT (5), GRADE	SETTING DEPTH MD (5)	SETTING DEPTH TVD (5)	QUANTITY OF CEMENT *(Cu. Ft./type)*
30"	24" 201# X-52	1057'		1680 cu. ft.
22"	18-5/8" 117.5# K-55	1630'		1308 cu. ft.
17"	13-3/8" 72# L-80	3340'		2813 cu. ft.
12-1/4"	9-5/8" 43.5# TC80	9415'		3742 cu. ft.

LINER/SCREEN RECORD

HOLE SIZE (4)	LINER SIZE (4), LB/FT (5) & GRADE	TOP (MD) (5)	BOTTOM (MD) (5)	QUANTITY OF CEMENT *(Cu. Ft./type)*
8-1/2"	7" 26# L-80	9018'	10498'	401 cu. ft.

TUBING RECORD

TUBING SIZE (4), WT./FT. (5) & GRADE	DEPTH SET MD	PACKER SET MD
3-1/2" 9.3# L-80	9110'	8947'

PERFORATION RECORD *(Interval, size, and number)*

9620'-9700', 9730'-9830' & 9876'-9996' (6) .42"
9510'-9570' (4) 1/2" holes

ACID, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL MD	AMOUNT AND KIND OF MATERIAL USED

CONTINUED ON REVERSE

COMPLETE REVERSE SIDE, SIGN, AND DATE

Form MMS-330 (November 1988)
[Supersedes Form MMS-330 (April 1988) which will not be used]

REGION

Chevron U.S.A. Inc.

MINERALS MANAGEMENT SERVICE
FEB 11 1992
RECEIVED
SANTA MARIA DISTRICT

Re-Completion or
Abandonment Report PRO-319

Field: Point Arguello **Property: OCS-P-0450**

Well No: C-1

Following is complete and correct record of all work done on the well since the previous record dated **February 10, 1988.**

Purpose of work to **perforate and install permanent packer.**

Date of Report **January 30, 1992** by Chevron U.S.A. Inc.

D. A. Yunker
Ventura District Manager

Work Done By: **Dual 45**

Commenced Operations: **12/23/91** Rig Released: **12/30/91**

Date Well Last Produced: **12/91** Returned to Production: **12/30/91**

Production:	Prior To Work	After Work
Oil.....	716 B/D	840 B/D
Water.....	0 B/D	0 B/D
Gas.....	1661 MCF/D	1130 MCF/D
Gravity	32.1 API	32.1 API
Tubing	140 PSIG	180 PSIG
Casing	500 PSIG	500 PSIG
Method of Production:		
Pumping	Flowing	**Gas Lift**

Summary **Total Depth: 10,948'** **PBTD: 10,412'**

Casing Detail:

24" 201# X-52 conductor cemented at 1057' with 1680 cu. ft.

18-5/8" 117.5# K-55 buttress casing cemented at 1630' with 1308 cu. ft.

13-3/8" 72# L-80 buttress casing cemented at 3340' with 2813 cu. ft.

9-5/8" 43.5# TC-80 and SS-95 buttress casing cemented at 9415' with 3742 cu. ft.

7" 26# L-80 liner cemented at 10,948' with 401 cu. ft. Top at 9018'.

Tubing: 3-1/2" 9.3# L-80 Hydril tubing landed at 9110'. Baker Model "HB" hydraulic 9-5/8" packer at 8947'.

Baker Model "FB-1" retainer set at 9850' with tail at 9888'.

Condition of Casing: No record of bad casing.

Junk: None

Perforations: 7" liner previous perforations from 9620'-9700', 9730'-9830', and 9876'-9996' with six .42" holes per foot.

7" liner perforated with four 1/2" holes per foot from 9510'-9570'.

Plugs: 10498'-10412' Cement

N. A. Jones

OPERATIONS SUMMARY REPORT
BUSINESS UNIT : WESTERN PRODUCTION B.U. GENERAL
DISTRICT : VENTURA DISTRICT
FIELD : PT. ARGUELLO

WELL NAME: OCS-P-0450 #C-1 OP/NON OP: OP PROJECT ID: IJ3607-01
RIG: DUAL-45 CATEGORY: WO RIG TYPE: PF
API: 56-045-20062 AFE: WFR16033

12-23-91 MW: 8.8 MD: 10,498 CASING: 9.625 @ 9,415 COST:
LAST SURVEY: NO SURVEY
24 HOUR SUMMARY:
SKID RIG FROM C-3 TO C-1. HOOK UP ANN TO TRAP. R/U HOWCO. TEST LINE TO WELL T/2000 PSI-OK. KILL WELL DN TBG/UP ANN W/8.8 PPG (4%KCL & 4% NACL) H2O TREATED W/2.5 GAL/100 BBL SCALETROL, 2 GAL/100 BBL H2S SCAVENGER, 1.75 #/100 BBL X-CIDE 207. USE 1200 BBLS. N/D PROD TREE.

12-24-91 MW: 8.8 MD: 10,498 CASING: 9.625 @ 9,415 COST:
LAST SURVEY: NO SURVEY
24 HOUR SUMMARY:
COMP N/D PROD TREE. N/U RISER & BOPE. R/U HOWCO & TEST BLIND RAMS 250/5000 PSI. N/U LANDING JTS & SCREW INTO TBG HGR. P/U KELLY & XOVER TO 3-1/2" EU8RD LANDING JTS. P/T 3-1/2" PIPE RAMS, 2-7/8" X5" VARIABLE PIPE RAMS, CHOKE LINES, KILL LINES, HCR VALVE, CK VALVE, CHOKE MANIFOLD, 3-1/2" IF SAFETY VALVE & UPPER/LOWER KELLY VALVES 250/5000 PSI. TEST OK. TEST STAND PIPE & VALVES & KELLY HOSE 250/3500 PSI. UNABLE TO GET ANNUL PREV TO TEST. STAND BACK KELLY. M/U & FLOOR TEST 3-1/2" EU8RD SAFETY VALVE & 3-1/2" IF INSIDE BOPE 250/5000 PSI-OK. PULL LANDING JTS. R/D FLOW NIPPLE. REMOVE ANN PREV COVER FOR C/O CONTRACTOR PISTON SEALS.

12-25-91 MW: 8.8 MD: 10,498 CASING: 9.625 @ 9,415 COST:
LAST SURVEY: NO SURVEY
24 HOUR SUMMARY:
CONT BRKDN ANN PREV. FOUND INCORRECT SEAL KIT. CONT REPAIRS. TEST ANNULAR 250/3500 PSI-GOOD. FUNCTION TEST FROM REMOTE, CONDUCT ACCUM DRILL. BLEED 30 PSI F/ANN T/PROD. CIRC 2 TBG VOLS, 164 BBLS KILL FLUID. GOT OIL AFTER 35 BBLS CIRC. CHANGE TO OIL/H2O, THEN 8.8 COMP FLUID W/TRACE OIL. MONITOR WELL-DEAD. BACK OUT LOCKING DOGS ON DONUT. REWORK DOGS & GLANDS. FILL BACKSIDE W/16 BBLS GRAV FEED. TEST RISER & TBG HEAD LOCKING DOGS & GLANDS 250/3000 PSI-OK P/U HGR. WORK PKR, MAX PULL 185 30' OUT. L/D HGR.
OPEN SSSV. PUMP 10 BBLS DN TBG. POOH W/STRING. L/D PROD JEWELRY. TALLY TBG OUT OF HOLE. FLUID LOSS 10-12 BPH.

12-26-91 MW: 8.8 MD: 10,498 CASING: 9.625 @ 9,415 COST:
LAST SURVEY: NO SURVEY
24 HOUR SUMMARY:
POOH W/PROD STRING & L/D PROD JEWELRY. R/U SCHLUMBERGER.
RIH 9-5/8" GAUGE RING & JUNK BASKET TO TOL @9018'. PERF FOUR 1/2" HPF F/9510'-9570' (240 TOTAL HOLES.) MADE TWO GUN RUNS W/TWO 15' GUNS EACH RUN. TEST LUB T/500 PSI. R/D SCHLUMBERGER.
RIH W/7" 26# CSG SCRAPER T/10384' (28' OF FILL 388' OF RAT HOLE.)
POOH W/CSG SCRAPER.



OPERATIONS SUMMARY REPORT
BUSINESS UNIT : WESTERN PRODUCTION B.U. GENERAL
DISTRICT : VENTURA DISTRICT
FIELD : PT. ARGUELLO

WELL NAME: OCS-P-0450 #C-1 OP/NON OP: OP PROJECT ID: IJ3607-01
RIG: DUAL-45 CATEGORY: WO RIG TYPE: PF
API: 56-045-20062 AFE: WFR16033

12-27-91 MW: 8.8 MD: 10,498 CASING: 9.625 @ 9,415 COST:
LAST SURVEY: NO SURVEY
24 HOUR SUMMARY:
L/D CSG SCRAPER. R/U SCHLUMBERGER. M/U WLS BAKER "FB-1" RETAINER. RIH TOP OF PKR SET @9850'. R/D SCHLUMBERGER.
RUN PROD STRING TO PKR. WOW.

12-28-91 MW: 8.8 MD: 10,498 CASING: 9.625 @ 9,415 COST:
LAST SURVEY: NO SURVEY
24 HOUR SUMMARY:
WOW. PRESUME RUN PROD STRING. EXT TEST ALL TBG CONNECTS T/5000 PSI. TEST SSSV, P/T & VOL TEST. M/U & RIH W/SSSV & MONEL CONTROL LINE. WORK PKR TAIL THRU LINER TOP. SPACE OUT DONUT W/TBG PUPS TO ALLOW M/U OF USED MONEL CONTROL LINE.

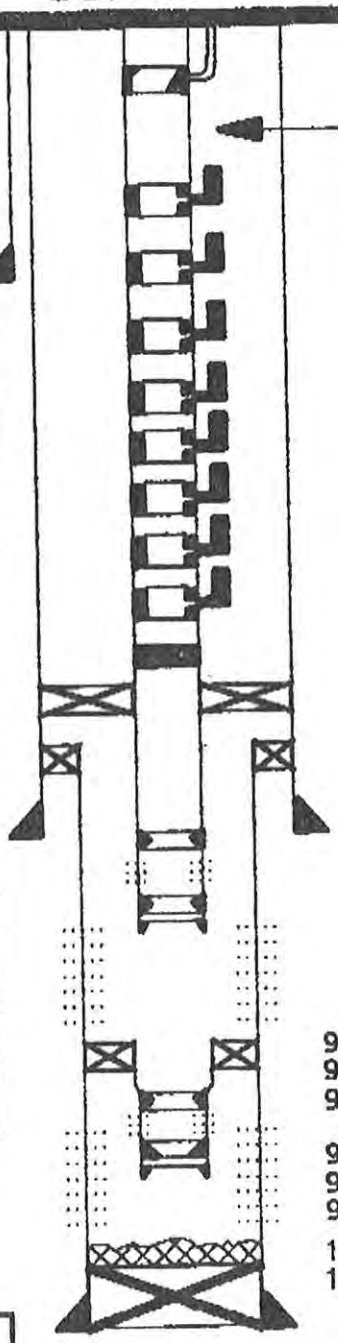
12-29-91 MW: 8.8 MD: 10,498 CASING: 9.625 @ 9,415 COST:
LAST SURVEY: NO SURVEY
24 HOUR SUMMARY:
R/U GS W/L. SET FB-2 STD VALVE IN F NIPPLE @9054.9' W/TBG TAIL @9109.8'. R/U HOWCO. SET PKR @8947' @1800 PSI. STAGE UP T/MAX PRESS OF 4000 PSI. HELD F/15 MIN. PULL FB-2 STD VAVLE/ R/D GS W/L LAND & CK DONUT ORIENTATION. LAND 20K# PACKOFF DONUT & TEST TO 5000 PSI. TEST BACKSIDE TEST LINES T/3000 PSI. TEST BACKSIDE TO 2000 PSI FOR 15 MIN. NAT'L SET BPV. N/D BOPE & RISER. ATTEMPT M/U BONNET. ECCENTRIC TBG HGR ORIENTATION NOT WITHIN TOLERANCE TO ALLOW BONNET INSTALLATION. N/U BOPE. TEST BLIND RAMS 250/5000 PSI ATTEMPT TEST ANNULAR, ELEMENT NOT HOLDING.

12-30-91 MW: 8.8 MD: 10,498 CASING: 9.625 @ 9,415 COST:
LAST SURVEY: NO SURVEY
24 HOUR SUMMARY:
C/O ANN ELEMENT. TEST BAG 250/3500 PSI. BACK OUT LOCKDOWN STUDS & RE-ORIENT TBG HGR. LOCK DOWN STUDS & TEST TBG HGR T/5000 PSI. TEST BACKSIDE, RECONFIRM PKR SET, TEST T/2000 PSI. ATTEMPT TO INSTALL BONNETT. TBG HGR NOT WITHIN TOLERANCE TO ALLOW MAKEUP. RE-ORIENT & LAND HGR. TEST HGR T/5000 PSI, TEST BACKSIDE T/2000 PSI. N/U BONNETT & TEST T/5000 PSI. P/T T/5000 PSI & VOL TEST SSSV (180 CC TO OPERATE SSSV.) N/U TREE. RLSE RIG @2400 HRS.

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 59.20'
WATER DEPTH 430'
TREE McEvoy – Willis
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL C-1
COMPLETION DATE 1/13/88
WORKOVER 12/29/91

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1630'

13-3/8" 72# @ 3340'

695' Baker FV-6 Tbg. Ret. SSSV with F profile (2.81" ID)

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT			
CAMCO MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I.	PORTS
1889'	1887'	Dummy	
3540'	3285'	Dummy	
4804'	4203'	Dummy	
5843'	4949'	Dummy	
6659'	5550'	Dummy	
7345'	6044'	Dummy	
7969'	6467'	Dummy	
8660'	6935'	Dummy	

ZONES		
FORMATION	M.D.	V.S.S.
M1-Top	9359'	-7298'
M2-Top	9620'	-7487'
M3-Top	9876'	-7680'
M4-Top	10094'	-7840'

8935' Baker 'L' Sliding Sleeve w/ 'F' Profile (2.81" ID)

8947' Baker 'HB' 9-5/8" Hyd. Packer

T.O.L. @ 9018'

9-5/8" 43.5# TO 9415'

9055' Baker 'F' Nipple (2.75" ID)

9088' Perf'd Pups (2-10' Pups)

9108' Baker 'F' Nipple (2.75" ID)

9019' W/L Re-entry Guide

PERFORATIONS			
FORM.	M.D.	V.S.S.	
M-1	9510'- 9570'	-7406'- -7450'	
Perfs. are .50" dia. @ 4 SPF			
M-2	9620'- 9700'	-7487'- -7547'	
M-2	9730'- 9830'	-7570'- -7646'	
M-3	9876'- 9996'	-7680'- -7769'	
Perfs. are .42" dia. @ 6 SPF			

9850' Baker 'FB-1' Retainer (4" ID)

9852' Baker Seal Bore Ext. (4" ID)

9866' Baker 'R' Nipple w/ NoGo (2.697" ID Stand. Valve set in Nipple (2/4/92)

9867' Perf'd Pups (2-10' Pups)

9886' Baker 'R' Nipple w/ NoGo (2.442" ID

9888' W/L Re-entry Guide

10384' Top of Fill

10412' Cement Plug

7" 26# @ 10498'

DIRECTIONAL DATA
VERTICAL TO 600'
MAX ANGLE 52 @ 10498' AND
52 @ TD'

PBTD 10412'
TD 10498 (-8102 VSS)

DATE 02/27/92
BY T.D.B.

CHEVRON MARKERS

POINT ARGUELLO FIELD

OPERATOR	CHEVRON						
PLATFORM	HIDALGO						
WELL	C - 1	C - 2	C - 3	C - 4	C - 5	C - 6	C - 7
PM	4315'	4140'	4265'	3550'	5300'	-	-
S1	5327'	7615'	5675'	4874'	6793'	6087'	7700'
S2	6390'	8670'	6657'	5676'	7720'	7470'	9248'
S3	7297'	-	7173'	6370'	8117'	8640'	10,190'
S3B	8114'	-	-	6793'	8850'	9595'	-
S4	8641'	10,587'	7905'	7058'	9183'	10,198'	11,352'
S4B	8846'	10,765'	8041'	7198'	-	-	-
S4C	8944'	10,910'	8108'	7274'	-	10,640'	-
S5	9068'	10,976' 11,037'	8193'	7376'	9515'	10,837'	11,685'
S5B	-	-	-		9708'	-	-
M1	9359	11,406'	8425'	7623'	9798'	11,295'	12,006'
M2	9620'	11,640'	-	-	9948'	11,721'	12,205'
M3	9876'	11,820'	8686' 8869'	7895'	10,069'	12,182'	12,344'
M4	10094	12219	8987	8069	10170	12485	12527
						[12,674']	[13,016']
M4a	[10,498']	[12,521']		[8583']	[10,849']		
PHOSPHATIC			9638'				
BASAL CALC.			[9781']				
$$$	$$$ Pre-Monterey section not penetrated						
FAULTS		10,994(R, 52'MD Dupl) 12,062'(R) 40'MD	8840'(R, 180'MD Dupl)				
TD [7000']							

* MARKER REPEATED
**LIGHT O/W CONTACT
*** HEAVY O/W CONTACT
N=normal fault
R=reverse fault
Fault depths are approximate

RPM/GAY/CVQ: 4/14/89
RKS: 3/90, 7/91
GME: 12/91

OMB No. 1010-0046
(Expires July 31, 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

SUBMIT IN DUPLICATE*

CONFIDENTIAL

WELL-COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE NO. OCS-P-0450
6. AREA & BLOCK Calif. Map NI 10-6 N796 - E144 Block 464
7. WELL NO. C-1
8. UNIT AGREEMENT NAME ---
9. FIELD Point Arguello
10. EXPLORATION ☐ DEVELOPMENT ☒
11. ADJACENT STATE California
12. API NO. 56-045-20062

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Chevron U.S.A., Inc.

3. ADDRESS OF OPERATOR: P. O. Box 6917, Ventura, California 93006

4. LOCATION OF WELL (Report location in accordance with instructions) *
At surface X=710,995.44m Y=3,819,240.18m (671'FEL) (5,118'FNL)
At top prod. interval reported below X=709,816.88m Y=3,820,247.54m (4,538'FEL)
At total depth X=709,665.5m Y=3,820,362.8m (5,034'FEL) (1,813'FNL)
(1,434'FNL)
UTM 10 Slot 4

13. DATE SPUDDED	14. DATE T.D. REACHED	15. DATE COMPL. OR OPERATIONS FINALIZED	16. ELEVATION*	17. WATER DEPTH
11-27-87	1-5-88	1-13-88	RKB DF 133'	430'

18. TOTAL DEPTH, MD & TVD	19. PLUG BACK, T.D., MD & TVD	20. IF MULTIPLE COMPL., HOW MANY*
10,498'MD 8,235'TVD	10,412'MD 8,182'TVD	

21. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Monterey 9,620' - 9,996' MD (7,813' - 7,902' VD)

22. WAS DIRECTIONAL SURVEY MADE: yes

23. TYPE ELECTRIC AND OTHER LOGS RUN
See attached summary on page 10.

24. WAS WELL CORED: no

25. CASING RECORD (Report all strings set in well)

CASING SIZE & GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
24" X-52	201#	1,057'	30"	1,680 cu. ft.	
18-5/8" K-55	117.5#	1,630'	22"	1,308 cu. ft.	
13-3/8" L-80	72#	3,340'	17"	2,813 cu. ft.	
9-5/8" TC80 & SS95	43.5#	9,415'	12-1/4"	3,742 cu. ft.	

26. LINER RECORD

SIZE & GRADE	TOP (MD)	BOTTOM (MD)	CU. FT. CEMENT	SCREEN (MD)
7" L-80	9,018'	10,498'	401 cu. ft.	

27. TUBING RECORD

SIZE & GRADE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2" L-80	9,497'	9,438'

28. PERFORATION RECORD (Interval, size and number)
See attached summary on page 10.

29. ACID, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

30* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
		Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
		→				

31. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

32. LIST OF ATTACHMENTS
Well History, Directional Survey

33.
Subsurface Safety Valve: Manu. and Type Baker FV-6 SCSSV Flapper Valve Set @ 716 Ft.

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED L. R. Richards FOR J. P. Lester TITLE Division Manager DATE 2-10-88

MINERALS MANAGEMENT SERVICE
RECEIVED
FEB 12 1988
SANTA MARIA DISTRICT

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
FEB 18 1988
FIELD OPERATIONS
LOS ANGELES

Form MMS-330 (May 1983)
(Supersedes USGS Form 9-330 which will not be used)

*See instructions on reverse

Chevron U.S.A. Inc.

Completion Report
New Well PRO-318

Field Point Arguello

Property: OCS-P-0450 Federal Waters

Well No. C-1

Sec. _____ T. _____ R. _____ B.&M.

Location Platform Hermosa, Slot 4

X=710,995.44m Y=3,819,240.18m

Elevation 133' Derrick Floor

D.F. is 133 ' MLLW above/~~below~~ mat.

Date 2/10/88

by Chevron U.S.A. Inc.
J. P. Lester, Division Manager SCD

J. R. Richards 2-10-88
(For Operations Manager, Production Dept.)

Drilled By Dual Drilling Rig #45

Date Commenced Drilling 11/26/87

Date Completed Drilling 1/13/88

Date of Initial Production not on production

Production:

Daily Average, 1st	Days	Gravity	°API	Pump	
Oil	Bbls.	T.P.	PSI	Flowing	
Water	Bbls.	C.P.	PSI	Gas Lift	
Gas	Mcf.	Bean	/64"		

Summary

TOTAL DEPTH: 10,498'MD 8,235'TVD

CASING: 24" 201#, X-52 conductor cemented at 1,057'

18-5/8" 117.5#, K-55 buttress casing cemented at 1,630'.

13-3/8" 72#, L-80 buttress casing cemented at 3,340'.

9-5/8" 43.5#, TC-80 & SS-95 Hydril 563 casing cemented at 9,415'.

1,472' of 7", 26#, L-80 Hydril 521 liner cemented at 10,498' with top at 9,018'. Perforated in selected intervals 9,620' - 9,996'.

PLUGS: 10,498' - 10,412' cement

SWS		CORES		TESTS		DIRECTIONAL	
[ ] YES	[X] NO	[ ] YES	[X] NO	[ ] YES	[X] NO	[X] YES	[ ] NO

CHEVRON DRILLING DATABASE
OPERATIONS SUMMARY REPORT

AREA: SANTA BARBARA OFF./PT ARGUELLO
WELL: OCS-P-0450 C-1 HIDALGO OP/NONOP: CHEVRON OPERATED
RIG: DUAL #45 CATEGORY: DEVELOPMENT RIG TYPE: PF
API: 56-045-20062 UNIQUE CODE: WSD73325

11-26-87 MW: 0 MD: 0' 24" @ 1056'
24 HR SUMMARY: PRIOR TO SPUDDING WELL C-1 THE FOLLOWING WORK WAS DONE.
****
11-21-87: SKID RIG TO SLOT 4 FROM SLOT 6. DRILL & SURVEY 22" HOLE TO 1062'.
****
11-22-87: UNDERREAM 22" HOLE TO 30" 564'-1057'. DISPLACED HOLE W/500 BBL FRESH GEL MUD. RAN 24 JTS 987' 24" 201# X-52 RL-4 CONDUCTOR TO 1056'. CMT CSG W/1600 SXS 1680 CF CLS 'G' CMT MIXED W/2% CACL2 IN SEAWATER @ 5 3/4 BPM. BUMPED PLUG W/1500 PSI. CIP @ 1500 HRS. CEMENT RETURNS MONITORED BY ROV. POH. SKID RIG TO SLOT 6 @ 1530 HRS 11-22-87.
****
11-26-87: N/U DIVERTER SYSTEM. INSTALLED PITCHER NIPPLE, HOOKUP, TRIP TANK, FLOWLINE, HYDRAULIC LINES. COMPLETED MMS PRE-SPUD REQUIREMENTS.

11-27-87 MW: 0 MD: 1,100' 24" @ 1056'
24 HR SUMMARY: P/U BHA & TIH. TAG @ 1003'. PREPARE TO FUNCTION TEST DIVERTER. TEST DIVERTER SYSTEM W/200 PSI 15 MINS, OK. SPUD C-1 AT 1400HRS, 11-27-87. DRILL CMT, FLOAT, SHOE & RAT HOLE 1003-1062'. DRILL 5' NEW HOLE TO 1067'. CIRC HOLE CLEAN. POH. CHANGE OUT BHA. TIH. BREAK CIRCULATION. DRILL TO 1100'.
PRES OPERATIONS: DRILLING.

11-28-87 MW: 8.6 MD: 1,640' 24" @ 1057'
LAST SURVEY: 4.40 DEG @ 1593 N 54 W
24 HR SUMMARY: DRILL 1100-1470'. CIRCULATE. POH. P/U MUD MOTOR. TIH. DRILL 1470-1640'. PULL UP TO 1511'. CIRCULATE. POH. R/U DRESSER ATLAS. RUN DLL-MLL-GR. P/U 22" HOLE OPENER. TIH. OPEN HOLE TO 1637'.

11-29-87 MW: 8.6 MD: 1,640' 18 5/8" @ 1630' COST: $666,031
LAST SURVEY: 4.40 DEG @ 1593' N 54 W
24 HR SUMMARY: OPEN HOLE TO 1640'. POH. RUN CALIPER LOG 1640'-1015'. R/U & RUN 39 JTS 1561' OF 18 5/8" 117.5# K-55 BUTTRESS CSG & HANGER ASSEMBLY TO 1630'. TEST HANGER SEALS TO 200 PSI. L/D LANDING JTS & R/D CSG HANDLING EQUIPMENT. TIH W/STINGER. STINGER FAILED TO SEAL. POH. LEFT 2 CENTRALIZER BLADES IN HOLE. WAIT ON NEW CENTRALIZER.

11-30-87 MW: 8.6 MD: 1,640' 18 5/8" @ 1630'
LAST SURVEY: 4.40 DEG @ 1593' N 54 W
24 HR SUMMARY: R/D DIVERTER & FLOWLINE. M/U STINGER & X/O. INSTALL NEW SEALS. TIH. ATTEMPT TO WORK PAST JUNK W/O SUCCESS. PULL 1 STD TO 1492'. TEST LINES TO 3000 PSI. CLOSE ANNULAR DIVERTER & CIRCULATE W/8.5 - 8.6 PPG WATER THRU FLOAT. PUMPED 448 SX CLS 'G' CMT W/10% BENTONITE, 12.5 LB/SX GILSONITE, 6% CALCIUM CHLORIDE, MIXED W/120 BBL WATER TO 12.6 PPG. FOLLOWED W/271 SX CLS 'G' CMT MIXED W/32 BBL WATER FOLLOWED W/17.5 BBL WATER TO DISPLACE. MAXIMUM DIVERTER PRESSURE 200 PSI. CMT IN PLACE. POH. INSTALL 18-5/8" SCREW ON WELLHEAD & SPACER. N/U DIVETER. P/U BHA. TIH.
PRES OPERATIONS: TIH.

CHEVRON DRILLING DATABASE
OPERATIONS SUMMARY REPORT

AREA: SANTA BARBARA OFF./PT ARGUELLO
WELL: OCS-P-0450 C-1 HIDALGO OP/NONOP: CHEVRON OPERATED
RIG: DUAL #45 CATEGORY: DEVELOPMENT RIG TYPE: PF
API: 56-045-20062 UNIQUE CODE: WSD73325

12-01-87 MW: 8.6 MD: 1,650' 18 5/8" @ 1630'
LAST SURVEY: 4.23 DEG @ 1607 N 54 W
24 HR SUMMARY: CON'T TIH. PRESSURE TESTED RISER, DIVERTER BAG & CSG TO 325 PSI. DRILLED HARD CMT 1481'-1615'. TOP OF FLT COLLAR @ 1580'. CIRCULATED HOLE CLEAN. PRESSURE TESTED CSG TO 350 PSI FOR 30 MINS. RAN GYRO SURVEY 1607' TO MUDLINE. DRILLED 17" HOLE TO 1650'. CIRCULATED HIGH VISCOSITY SWEEP. PULLED UP 30'. PERFORMED LEAK OFF TEST. LEAK OFF: 10.1 PPG, 130 PSI W/8.6 PPG MUD. PRESSURE BLED TO 50 PSI IN 10 MINUTES.
PRES OPERATIONS: PERFORMING LEAK OFF TEST.

12-02-87 MW: 8.6 MD: 2,408' 18 5/8" @ 1630'
LAST SURVEY: 19.2 DEG @ 1607 N 41 W
24 HR SUMMARY: R/D LEAK OFF TEST. CIRCULATE. POH. ORIENT MAGNA DRILL & ANADRILL. TIH. TAG BOTTOM @ 1650'. ORIENT TOOL. DRILL TO 2219' W/MUD MOTOR. CIRCULATE 50 BBL SWEEP. DRILL TO 2408'. CIRCULATE. POH. CHANGE BHA. TIH.
PRES OPERATIONS: TIH. ** ANTICIPATED ACTIVITY: DRILLING

12-03-87 MW: 8.6 MD: 3,350' 18 5/8" @ 1630'
LAST SURVEY: 45.47 DEG @ 3275 N 51 W
24 HR SUMMARY: CONTINUE RIH W/MUD MOTOR ASSEMBLY. ORIENT TOOL. WASH 15' FILL. TAG BOTTOM @ 2408'. DRILL & SURVEY 17" HOLE 2408'-2599'. SWEEP HOLE CLEAN W/50 BBL HI VISCOSITY PILL. POH. CHANGE OUT BIT. TIH. ORIENT TOOL. WASH 10' FILL. TAG BOTTOM @ 2599'. DRILL 2599'-3350'. SWEEP HOLE W/200 BBL HI VISCOSITY PILL. SPOT 200 BBL HI VISCOSITY PILL ON BOTTOM. POH W/MUD MOTOR ASSEMBLY.
PRES OPERATIONS: POH. ** ANTICIPATED ACTIVITY: LOGGING

12-04-87 MW: 8.6 MD: 3,350' 18 5/8" @ 1630'
LAST SURVEY: 45.47 DEG @ 3275' N 51 W
24 HR SUMMARY: POH. L/D MUD MOTOR. RIH W/DRESSER ATLAS MLL. LOGGED 3110'--2900'. RIH TO 3112'. LOGGED UP TO 3010'. TOOL STUCK @ 3010'.TOP OF FISH @ 2965'. PULLED 10,000# ON WIRELINE. RECOVERED ALL THE WIRE.L/D FISHING TOOLS. TIH W/16 5/8" OVERSHOT GUIDE ON A 3 5/8" GRAPPLE. SETDOWN @ 2535'. ROTATED & PUMPED SLOWLY WHOLE TIH.
PRES OPERATIONS: TIH. **ANTICIPATED ACTIVITY: FISHING.

12-05-87 MW: 8.9 MD: 3,350' 18 5/8" @ 1630
LAST SURVEY: 45.47 DEG @ 3275' N 51 W
24 HR SUMMARY: TIH SLOWLY W/16 5/8" GUIDE & 3 5/8" GRAPPLE. TOP OF FISH @ 3305'. WORKED OVER FISH. POH. RECOVERED ALL OF FISH. L/D FISHING TOOLS. TIH W/17" BIT. WASH & ROTATED THRU BRIDGES 1750' TO BOTTOM. CIRCULATED 50 BBL HI VISCOSITY SWEEP. SPOTTED GEL MUD IN OPEN HOLE. POH. R/U DRESSER ATLAS WIRELINE. RIH. LOG GR-SP-DLL-MLL 3340'-1630'. POH W/WIRELINE.
PRES OPERATIONS: POH **ANTICIPATED ACTIVITY: RUN CASING

12-06-87 MW: 8.6 MD: 3,350' 13 3/8" @ 3340'
LAST SURVEY: 45.47 DEG @ 3275' N 51 W
24 HR SUMMARY: POH W/MICRO LATEROLOG. RUN DRESSER ATLAS 4 ARM CALIPER 3350' -1630'. RIH W/CLEAN OUT ASSEMBLY. SWEEP HOLE CLEAN W/150 BBL HI VISCOSITY PILL. POH. L/D BIT. RETRIEVE BORE PROTECTOR. R/U CSG TOOLS. RUN 78 JTS 3271' OF 13 3/8" 72# L-80 CSG. SET CSG SHOE @ 3340'. FLT COLLAR @ 3247'. TOP 5 JTS SEAL TECH SUPER FLUSH JTS, ALL OTHERS BUTTRESS THREADS. R/D CSG TOOLS. CIRCULATE. MIX & PUMP CMT. DISPLACING CMT.

CHEVRON DRILLING DATABASE
OPERATIONS SUMMARY REPORT

AREA: SANTA BARBARA OFF./PT ARGUELLO
WELL: OCS-P-0450 C-1 HIDALGO OP/NONOP: CHEVRON OPERATED
RIG: DUAL #45 CATEGORY: DEVELOPMENT RIG TYPE: PF
API: 56-045-20062 UNIQUE CODE: WSD73325

12-07-87 MW: 8.6 MD: 3,350' 13 3/8" @ 3340'
LAST SURVEY: 45.47 DEG @ 3275' N 51 W
24 HR SUMMARY: PUMPED 970 SX 2163 CF CLS 'G' CMT W/10% GEL, 12.5 #/SX GILSONITE, .08 GAL/SX D-81,.02 GAL/SX DEFOAM @ 12.6 PPG. FOLLOWED BY 570 SX 650 CF CLS 'G' W/.5% D-60, .02 GAL/SX DEFOAMER @ 15.8 PPG. DISPLACED W/ 501 BBL SEAWATER. BUMPED PLUG W/1500 PSI. CIP. TRACE CMT TO SURFACE. LOST COMPLETE RETURNS WHILE DISPL LAST 50 BBLS. SET CSG SLIPS. CLOSE ANNULAR. TEST SLIPS TO 350 PSI, OK. N/D DIVERTER SYSTEM. MADE ROUGH CUT ON CSG. L/D LANDING JTS. N/D DIVERTER. MADE FINAL CUT ON CSG. N/U CSG HEAD.N/U BOPE.
PRES OPERATIONS: N/U BOPE ** ANTICIPATED ACTIVITY: TESTING BOPE

12-08-87 MW: 8.6 MD: 3,350' 13 3/8" @ 3340'
LAST SURVEY: 45.47 DEG @ 3275' N 51 W
24 HR SUMMARY: N/U BOPE. PREPARE TO TEST.
PRES OPERATIONS: N/U BOPE ** ANTICIPATED ACTIVITY: TESTING BOPE

12-09-87 MW: 8.8 MD: 3,350' 13 3/8" @ 3340'
LAST SURVEY: 45.47 DEG @ 3275' N 51 W
24 HR SUMMARY: TEST BOPE 200/3000 PSI. M/U CLEAN OUT ASSEMBLY. TIH. WASH & REAM 3221'-3247'. DRILLED FLOAT COLLAR & CEMENT TO 3325'. CIRCULATE & CONDITION MUD. TEST CASING TO 1000 PSI. R/U WIRELINE & RUN A GYRO MULTI SHOT FROM 3244'.
PRES OPERATIONS: RUN GYRO MULTI SHOT ** ANTICIPATED ACTIVITY: DRILLING

12-10-87 MW: 8.8 MD: 3,370' 13 3/8" @ 3340'
LAST SURVEY: 45.47 DEG @ 3275' N 51 W
24 HR SUMMARY: RUN GYRO SURVEY. POH. CHANGE BHA. RIH. DRILL CEMENT & RAT HOLE 3325'-3350'. DRILL TO 3360'. CIRCULATE & CONDITION MUD. PRESSURE TEST LINES TO 1250 PSI. PERFORM LEAK OFF TEST. LEAK OFF WAS 11.5 PPG (440 PSI W/8.8 PPG MUD). PRESSURE BLED TO 350 PSI IN 10 MINUTES. CIRCULATE. DRILL 3360'-3370'.
PRES OPERATIONS: DRILLING ** ANTICIPATED ACTIVITY: DRILLING

12-11-87 MW: 8.9 MD: 4,362' 13 3/8" @ 3340'
LAST SURVEY: 45.47 DEG @ 3275' N 51 W
24 HR SUMMARY: DRILL 3370'-3975'. CIRCULATE BTMS UP FOR SHORT TRIP. MAKE SHORT TRIP 7 STDS TO SHOE. DRILL 3975'-4362'.
PRES OPERATIONS: DRILLING **ANTICIPATED ACTIVITY: DRILLING

12-12-87 MW: 9.3 MD: 4,923' 13 3/8" @ 3340'
LAST SURVEY: 39.62 DEG @ 4842 N 52 W
24 HR SUMMARY: DRILL 4362'-4642'. CIRCULATE. POOH. CHANGE BHA. TIH. DRILL 4642'-4923'. CIRCULATE. POOH. L/D STABILIZER, RE-RUN BIT #6. TIH.
PRES OPERATIONS: TIH **ANTICIPATED ACTIVITY: DRILLING

12-13-87 MW: 9.3 MD: 5,514' 13 3/8" @ 3340'
LAST SURVEY: 46.27 DEG @ 5404 N 52 W
24 HR SUMMARY: TIH. WASH THRU TIGHT SPOTS @ 4293'. CIRCULATE. DRILL 4923'-5514'. CIRCULATE. PUMP SLUG, POOH.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: DRILLING

CHEVRON DRILLING DATABASE
OPERATIONS SUMMARY REPORT

AREA: SANTA BARBARA OFF./PT ARGUELLO
WELL: OCS-P-0450 C-1 HIDALGO OP/NONOP: CHEVRON OPERATED
RIG: DUAL #45 CATEGORY: DEVELOPMENT RIG TYPE: PF
API: 56-045-20062 UNIQUE CODE: WSD73325

12-14-87 MW: 9.2 MD: 6,067' 13 3/8" @ 3340'
LAST SURVEY: 44.29 DEG @ 5978 N 51 W
24 HR SUMMARY: FINISH POOH. CHANGE BHA. P/U BIT #7. TIH. REAM 4930'-5514'. DRILL 5514'-6067'. CIRCULATE. PUMP SLUG. POOH.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: DRILLING

12-15-87 MW: 9.2 MD: 6,425' 13 3/8" @ 3340'
LAST SURVEY: 41.42 DEG @ 6359 N 51 W
24 HR SUMMARY: FINISH POOH. CHANGE BHA. TIH. REAM 4681'-5055'. TIH. WASH 6015'-6067'. DRILL 6067'-6425'.
PRES OPERATIONS: DRLG ** ANTICIPATED ACTIVITY: DRILLING

12-16-87 MW: 9.1 MD: 6,489' 13 3/8" @ 3340'
LAST SURVEY: 41.91 DEG @ 6452 N 50 W
24 HR SUMMARY: DRILL 6425'-6489'. CIRCULATE BTMS UP. WAIT ON WEATHER. PUMP SLUG. POOH FOR BHA CHANGE.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: DRILLING

12-17-87 MW: 9.2 MD: 6,507' 13 3/8" @ 3340'
LAST SURVEY: 41.91 DEG @ 6452' N 50 W
24 HR SUMMARY: FINISH POOH FOR BHA CHANGE. RETRIEVE WEAR BUSHING. TEST BOPE 250/3000 PSI. M/U BHA, RIH. TAGGED TIGHT SPOT @ 5732'. WASH & REAM 5732'-6489'. DRILL 12-1/4" HOLE 6489'-6507'.
PRES OPERATIONS: DRILLING ** ANTICIPATED ACTIVITY: DRILLING

12-18-87 MW: 9.2 MD: 7,034' 13 3/8" @ 3340'
LAST SURVEY: 44.10 DEG @ 7021 N 48 W
24 HR SUMMARY: DRILL 6507'-6802'. WIPE HOLE. REAM 6682'-6802'. DRILL 6802' -7034'.
PRES OPERATIONS: DRILLING ** ANTICIPATED ACTIVITY: DRILLING

12-19-87 MW: 9.0 MD: 7,342' 13 3/8" @ 3340'
LAST SURVEY: 46.14 DEG @ 7295 N 48 W
24 HR SUMMARY: DRILL 7034'-7118'. WIPE HOLE. DRILL 7118'-7230'. CIRC. WIPE HOLE. DRILL 7230'-7342'. CIRCULATE & PUMP SLUG. POH.
PRES OPERATIONS: POH. ** ANTICIPATED ACTIVITY: DRILLING

12-20-87 MW: 9.1 MD: 7,590' 13 3/8" @ 3340'
LAST SURVEY: 46.77 DEG @ 7490 N 48 W
24 HR SUMMARY: POH FOR BIT CHANGE. M/U BHA. RIH. REAM 7240'-7342'. DRILL 7342'-7590'.
PRES OPERATIONS: DRILLING ** ANTICIPATED ACTIVITY: DRILLING

12-21-87 MW: 9.1 MD: 7,938' 13 3/8" @ 3340'
LAST SURVEY: 47.90 DEG @ 7869 N 47 W
24 HR SUMMARY: DRILL 7590'-7634'. CIRCULATE & SURVEY @ 7634'. DRILL 7634'-7818'. CIRCULATE. DRILL 7818'-7824'. WIPE HOLE TO 7340'. DRILL 7824'-7938'. POOH.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: DRILLING

CHEVRON DRILLING DATABASE
OPERATIONS SUMMARY REPORT

AREA: SANTA BARBARA OFF./PT ARGUELLO
WELL: OCS-P-0450 C-1 HIDALGO OP/NONOP: CHEVRON OPERATED
RIG: DUAL #45 CATEGORY: DEVELOPMENT RIG TYPE: PF
API: 56-045-20062 UNIQUE CODE: WSD73325

12-22-87 MW: 9.1 MD: 8,063' 13 3/8" @ 3340'
LAST SURVEY: 48.39 DEG @ 7966 N 47 W
24 HR SUMMARY: POOH. CHANGE OUT BIT. M/U BHA. RIH. REAM 7824'-7938'. DRILL 7938'-8063'.
PRES OPERATIONS: DRLG ** ANTICIPATED ACTIVITY: DRILLING

12-23-87 MW: 9.3 MD: 8,147' 13 3/8" @ 3340'
LAST SURVEY: 48.88 DEG @ 8059 N 47 W
24 HR SUMMARY: DRILL 8063'-8147'. CIRCULATE. WASH & RELOG 8100'-8147' W/ MWD. POOH. TEST BOPE. M/U BHA. RIH.
PRES OPERATIONS: RIH **ANTICIPATED ACTIVITY: DRILLING

12-24-87 MW: 9.3 MD: 8,681' 13 3/8" @ 3340'
LAST SURVEY: 44.76 DEG @ 8633 N 47 W
24 HR SUMMARY: TIH TO 8108'. WASH & REAM TO 8147', NO FILL. DRILL 8147'-8681'. CIRCULATE. POOH TO SHOE.
PRES OPERATIONS: POOH **ANTICIPATED ACTIVITY: DRILLING

12-25-87 MW: 9.3 MD: 9,120' 13 3/8" @ 3340'
LAST SURVEY: 44.44 DEG @ 9108 N 47 W
24 HR SUMMARY: CON'T POOH. CHANGE OUT BHA. TIH. REAM 8571'-8681'. DRILL 8681'-9120'.
PRES OPERATIONS: DRILLING **ANTICIPATED ACTIVITY: DRILLING

12-26-87 MW: 9.2 MD: 9,230' 13 3/8" @ 3340'
LAST SURVEY: 44.34 DEG @ 9204 N 48 W
24 HR SUMMARY: DRILL 9120'-9176'. SHORT TRIP TO 8176'. REAM 9052'-9176'. CIRCULATE. POOH. CHANGE BITS. TIH. WASH & REAM 9146'-9176'. NO FILL. DRILL 9176'-9230'.
PRES OPERATIONS: DRILLING **ANTICIPATED ACTIVITY: DRILLING

12-27-87 MW: 9.2 MD: 9,425' 13 3/8" @ 3340'
LAST SURVEY: 44.57 DEG @ 9385 N 48 W
24 HR SUMMARY: DRILL 9230'-9425'. CIRCULATE. MAKE 5 STD WIPER TRIP. CIRC. POOH, L/D MWD TOOL. RUN DRESSER DUAL LAP, MICRO LAP & GAMMA RAY FROM 9415'.
PRES OPERATIONS: LOGGING ** ANTICIPATED ACTIVITY: RUNNING CASING

12-28-87 MW: 9.2 MD: 9,425' 13 3/8" @ 3340'
LAST SURVEY: 44.57 DEG @ 9385 N 48 W
24 HR SUMMARY: RAN DRESSER DUAL LAP, MICRO LAP & GAMMA RAY 9415'-3100'. POOH. ATTEMPT TO RUN DRESSER DIP METER & CALIPER. COULD NOT GO PAST 4719'. POH. P/U BHA. TIH. CIRCULATE. SPOT HI VISCOSITY PILL. PUMP SLUG. POOH. M/U HOLE FINDER ON TOOL. RIH TO BOTTOM W/DRESSER.
PRES OPERATIONS: LOGGING ** ANTICIPATED ACTIVITY: RUNNING CASING

12-29-87 MW: 9.2 MD: 9,425' 13 3/8" @ 3340'
LAST SURVEY: 44.57 DEG @ 9385 N 48 W
24 HR SUMMARY: RAN DRESSER DIPMETER & CALIPER LOGS. TIH. WORK THRU TIGHT SPOT 8900'-8994'. REAM & WASH THRU SAME. CIRCULATE. PUMP HIGH VISCOSITY PILL, SLUG PIPE. PUMP OUT OF HOLE TO 9207'. TIH. WASH 9329'-9425'. MAKE 5 STD WIPER TRIP. TIH TO 9425'. BREAK CIRCULATION. PUMP HIGH VISCOSITY PILL & PUMP SLUG. POOH. R/U & RUN 9-5/8" 43.5# CSG.
PRES OPERATIONS: RUNNING CSG ** ANTICIPATED ACTIVITY: CEMENTING CASING

CHEVRON DRILLING DATABASE
OPERATIONS SUMMARY REPORT

AREA: SANTA BARBARA OFF./PT ARGUELLO
WELL: OCS-P-0450 C-1 HIDALGO OP/NONOP: CHEVRON OPERATED
RIG: DUAL #45 CATEGORY: DEVELOPMENT RIG TYPE: PF
API: 56-045-20062 UNIQUE CODE: WSD73325

12-30-87 MW: 9.2 MD: 9,425' 9 5/8" @ 9415'
LAST SURVEY: 44.57 DEG @ 9385 N 48 W
24 HR SUMMARY: RAN 9351' OF 9-5/8" 43.5# CASING. 216 JTS OF TC-80 HYDRIL 563 & 2.5 JTS SS-95 ST/L CSG. LANDED @ 9414'. BROKE CIRCULATION. R/U CMT HEAD. DROPPED CARBIDE SWEEP. CIRCULATED & WORKED CSG TO 9415'. CARBIDE LOG INDICATED AN 11.7" HOLE DIAMETER. CIRCULATED 1 HOLE VOL @ 10 BPM. PUMPED 30 BBLS PRE-FLUSH, DROPPED BTM PLUG, TESTED LINES TO 3000 PSI. PUMPED 2832 CF 1270 SX LEAD SLURRY W/10% DRY BLENDED GEL, 12.5#/SX GILSONITE, 0.15 GAL PER SX D-81, MIXED TO 12.6 PPG. PUMPED 910 CF, 810 SX CLS 'G' TAIL SLURRY W/1.3% D-60 MIXED TO 15.8 PPG. UNABLE TO RECIPROCATE PIPE W/450,000# HOOK LOAD. THE LAST 250 BBLS OF DISPLACEMENT WAS @ 3 BPM. THE PLUG WAS BUMPED W/715 BBLS (3-1/2% COMPRESSION) @ 500 PSI OVER CIRC PRESSURE. CIP @ 0540 HRS. FULL RETURNS THRU OUT. WASHED OUT STACK & RISER WITH SEAWATER.

12-31-87 MW: 9.3 MD: 9,425' 9 5/8" @ 9415'
LAST SURVEY: 44.93 DEG @ 9328 N 47 W
24 HR SUMMARY: LAND 9-5/8" CSG @ 9415'. SET W/220K ON CSG SLIPS. TESTED TO 3000 PSI. N/D CSG HEAD. LIFT BOP STACK. MADE CUT ON CSG. INSTALL SECONDARY PACKOFF. N/U CSG HEAD. TEST TO 4480 PSI. OK. M/U LOWER KELLY VALVE & TESTD BOPE TO 250/5000 PSI. SET BORE PROTECTOR. M/U 8" DRILL COLLAR& L/D 12-1/4" STABILIZERS. P/U BHA.
PRES OPERATIONS: P/U BHA. **ANTICIPATED ACTIVITY: DRILLING

01-01-88 MW: 9.2 MD: 9,435' 9 5/8" @ 9415'
LAST SURVEY: 44.93 DEG @ 9328 N 47 W
24 HR SUMMARY: FINISHED P/U BHA. TIH TO 4700'. TAGGED FLOAT COLLAR @ 9325'. DRILLED FLOAT COLLAR & 75' OF CEMENT. CIRCULATED HOLE CLEAN. PRESSURE TSTD CASING TO 2500 PSI FOR 30 MINS. RAN EASTMAN GYRO. DRILLED CEMENT & FLT SHOE TO 9415'. WASHED THRU RAT HOLE TO 9425'. DRILLED 9425'-9435'. CIRCULATE & CONDITIONED MUD. PERFORMED LEAK-OFF TEST. 12.8 PPG EMW. MAXIMUM PRESSURE 1450 PSI. BLED BACK TO 1375 PSI IN 10 MINUTES.
PRES OPERATIONS: PERFORM LEAK-OFF TEST **ANTICIPATED ACTIVITY: DRILLING

01-02-88 MW: 9.2 MD: 9,596' 9-5/8" @ 9415'
LAST SURVEY: 42.31 DEG @ 9578 N 48 W
24 HR SUMMARY: DRILLED 9435'-9486'. POOH. CHANGED BIT. RIH. BREAK CIRCULATION. PRECAUTIONARY REAM 9430'-9486'. DRILLED 9486'-9596'.
PRES OPERATIONS: DRILLING **ANTICIPATED ACTIVITY: DRILLING

01-03-88 MW: 8.9 MD: 9,875' 9-5/8" @ 9415'
LAST SURVEY: 40.71 DEG @ 9771 N 50 W
24 HR SUMMARY: DRILLED 9596'-9711'. POOH. CHANGED BIT. P/U MONEL. M/U BHA. RIH. DRILLED 9711'-9875'.
PRES OPERATIONS: DRILLING ** ANTICIPATED ACTIVITY: DRILLING

CHEVRON DRILLING DATABASE
OPERATIONS SUMMARY REPORT

AREA: SANTA BARBARA OFF./PT ARGUELLO
WELL: OCS-P-0450 C-1 HIDALGO OP/NONOP: CHEVRON OPERATED
RIG: DUAL #45 CATEGORY: DEVELOPMENT RIG TYPE: PF
API: 56-045-20062 UNIQUE CODE: WSD73325

01-04-88 MW: 8.9 MD: 10,293' 9-5/8" @ 9415'
LAST SURVEY: 46.16 DEG @ 10147 N 54 W
24 HR SUMMARY: DRILLED 9875'-10293'. DROPPED SINGLE SHOT SURVEY. PUMPED SLUG. POOH. CHANGED BIT.
PRES OPERATIONS: CHANGE BIT ** ANTICIPATED ACTIVITY: DRILLING

01-05-88 MW: 8.7 MD: 10,498' 9-5/8" @ 9415'
LAST SURVEY: 52.42 DEG @ 10433 N 57 W
24 HR SUMMARY: RIH. BROKE CIRCULATION. WASHED 10193-10293'. DRILLED 8-1/2" HOLE 10293-10498'. CIRCULATED HOLE CLEAN. WIPED HOLE TO 10119'. CIRCULATED BTMS UP. POOH. R/U DRESSER ATLAS WIRELINE. RIH. RAN MLL-DLL-GR 10498-9415'.
PRES OPERATIONS: LOGGING ** ANTICIPATED ACTIVITY: RUN LINER

01-06-88 MW: 8.7 MD: 10,498' 9-5/8" @ 9415'
LAST SURVEY: 52.42 DEG @ 10433 N 57 W
24 HR SUMMARY: RAN DRESSER ATLAS LOGS; LSAL/MINILOG 10480'-9415', LSAL/FWW 10496-9415', ZDEN/CN 10496-9415', DIPMETER 10494-9415'. R/D DRESSER ATLAS. RIH W/CLEAN OUT ASSEMBLY TO 10498'. NO FILL. CIRCULATED & CONDITIONED MUD.

01-07-88 MW: 8.7 MD: 10,498' 7" LINER @ 10498'
LAST SURVEY: 52.42 DEG @ 10433 N 57 W
24 HR SUMMARY: CIRCULATED & CONDITIONED MUD. CHANGED RAMS TO 7". PULLED WEAR BUSHING. TEST PLUG, BONNET & SEAL TO 2500 PSI, OK. INSTALLED WEAR BUSHING. RAN & LANDED 36 JTS 1472' 7" 26# L-80 HYDRIL 521 LINER @ 10498' W/TOP @ 9018'. BREAK CIRCULATION @ 10468' & WASHED TO 10498'. CIRCULATED & RECIPROCATED LINER. SET HANGER, M/U CMT HEAD & LINES & TEST. CEMENT 7" LINER.

01-08-88 MW: 8.8 MD: 10,498' 7" LINER @ 10498'
LAST SURVEY: 52.42 DEG @ 10433' N 57 W
24 HR SUMMARY: CEMENTED LINER W/267 SX 401 CF CLS 'G' CMT W/35% SI FLOUR, 0.5% D-65, 1.0% D-127 & 0.2% D-8. DISPLACED CMT W/164 BBL MUD. BUMPED PLUG W/1500 PSI. CMT IN PLACE @ 06:19. R/D CMT HEAD & LINES. POOH, L/D STINGER. PULLED WEAR BUSHING. CHANGED TO VARIABLE RAMS. TESTED BOPE. WAIT ON CEMENT.
PRES OPERATIONS: W.O.C. ** ANTICIPATED ACTIVITY: DRILLING CMT

01-09-88 MW: 8.6 MD: 10,498' 7" LINER@ 10498'
LAST SURVEY: 52.42 DEG @ 10433' N 57 W
24 HR SUMMARY: WAIT ON CEMENT. M/U 9-5/8" CSG SCRAPER ASSEMBLY. TIH TO 8773'. BREAK CIRCULATION. TAGGED CMT @ 8773'. DRILLED CMT TO TOP OF LINER HANGER @ 9018'. CIRCULATED. POOH. L/D 6-1/2" DRILL COLLARS & CSG SCRAPER. P/U 4-3/4" DRILL COLLARS. TIH W/7" CSG SCRAPER TO 9018'. DRILL OUT LINER LAP & CEMENT TO 9030'. ROTATED & CIRCULATED THRU LINER TO 9413'.
PRES OPERATIONS: CIRCULATING ** ANTICIPATED ACTIVITY: LOGGING

01-10-88 MW: 8.7 MD: 10,498' 7" LINER @ 10498'
LAST SURVEY: 52.42 DEG @ 10433 N 57 W
24 HR SUMMARY: RIH TO 10343' (TOP OF CMT). DRILLED OUT HARD CMT TO 10412'. CIRCULATED HOLE CLEAN. POOH. R/U SCHLUMBERGER. RAN CBL-GR-CCL 10394'-8895'. TSTD LINER LAP TO 3500 PSI FOR 30 MINS. TIH OPEN ENDED. BREAK CIRCULATION. TAGGED @ 10409'. M/U CIRC HEAD & LINES. REVERSE CIRCULATED. CHANGED HOLE OVER TO 4% KCL & FILTERED SAME. SHUT DOWN RIG PUMPS. BUILT VOLUME F/POOH.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: COMPLETE WELL

CHEVRON DRILLING DATABASE
OPERATIONS SUMMARY REPORT

AREA: SANTA BARBARA OFF./PT ARGUELLO
WELL: OCS-P-0450 C-1 HIDALGO OP/NONOP: CHEVRON OPERATED
RIG: DUAL #45 CATEGORY: DEVELOPMENT RIG TYPE: PF
API: 56-045-20062 UNIQUE CODE: WSD73325

01-11-88 MW: 8.8 MD: 10,498' 7" LINER @ 10498'
LAST SURVEY: 52.42 DEG @ 10433 N 57 W
24 HR SUMMARY: POOH. R/U LUBRICATOR & TEST TO 500 PSI. PERFORATED 7" LINER USING 3-3/8" GUNS W/0.42" HOLES, 6 HOLES PER FT USING 22 GM CHARGES IN THE FOLLOWING INTERVALS: 9996'-9876', 9830'-9730', 9700'-9620'. PULLED WEAR BUSHING. R/U & START TO RUN 3-1/2" TBG.
PRES OPERATIONS: RUNNING TBG ** ANTICIPATED ACTIVITY: COMPLETE WELL

01-12-88 MW: 8.8 MD: 10,498' 7" LINER @ 10498'
LAST SURVEY: 52.42 DEG @ 10433 N 57 W
24 HR SUMMARY: RAN 289 JTS 3-1/2" 9.3# L-80 HYDRIL 501 TBG. LANDED TBG @ 9497'. INSTALLED SAFETY VALVE @ 716'. TESTED HANGER SEALS TO 5000 PSI FOR 10 MINS, OK. R/U WIRELINE & LUBRICATOR. SET PACKER @ 9438'. PRESSURE TESTED ANNULUS TO 2000 PSI. R/D WIRELINE. CLOSED SSSV. L/D LANDING JTS. SET BACK PRESSURE VALVE. N/D BOP'S.
PRES OPERATIONS: N/D BOP'S ** ANTICIPATED ACTIVITY: COMPLETE WELL

01-13-88 MW: 8.8 MD: 10,498' 7" LINER @ 10498'
LAST SURVEY: 52.42 DEG @ 10433 N 57 W
24 HR SUMMARY: N/D BOP. N/U X-MAS TREE, TESTED TO 5000 PSI. RELEASED RIG FROM WELL C-1 AT 12:00 (NOON) 1-13-88. PREPARED TO SKID RIG FROM SLOT 4 TO SLOT 56, WELL C-2.

DIRECTIONAL DATA

MWD SURVEY DATA:	ANADRILL
GYRO SURVEY:	EASTMAN CHRISTENSEN
SINGLE SHOT SURVEY:	EASTMAN CHRISTENSEN
METHOD OF CALCULATION:	VECTOR AVERAGING

DRILLING FLUID HISTORY

INTERVAL	TYPE OF FLUID	WEIGHT (PPG)
0'-1640'	SEAWATER	8.6
1640'-3350'	SEAWATER W/GEL SWEEPS	8.6
3350'-10498'	NON-DISPERSED SEAWATER	8.7-9.0
10498'	KCL - SEAWATER COMPLETION FLUID	8.7-8.8

FORMATION EVALUATION

COMPANY	TYPE OF LOG	DATE	INTERVAL
DRESSER ATLAS	DLL-MLL-GR	11-28-87	1015'-1640'
DRESSER ATLAS	CALIPER	11-28-87	1015'-1640'
DRESSER ATLAS	DLL-MLL-SP-GR	12-06-87	1630'-3340'
DRESSER ATLAS	CALIPER	12-06-87	1630'-3350'
DRESSER ATLAS	DLL-MLL-GR	12-28-87	3100'-9415'
DRESSER ATLAS	DIPMETER	12-29-87	3300'-9415'
DRESSER ATLAS	MLL-DLL-GR	01-06-88	9415'-10498'
DRESSER ATLAS	DSAL/MINILOG	01-06-88	9415'-10480'
DRESSER ATLAS	BHC-FRAC-GR	01-06-88	9415'-10496'
DRESSER ATLAS	ZDEN/CN	01-06-88	9415'-10496'
DRESSER ATLAS	DIPMETER	01-06-88	9415'-10494'
SCHLUMBERGER	CBL-GR-CCL	01-10-88	8895'-10394'

PERFORATIONS

DEPTH	TYPE
9620'-9700'	with six 0.42" jet holes per foot
9730'-9830'	with six 0.42" jet holes per foot
9876'-9996'	with six 0.42" jet holes per foot

CHEVRON U.S.A.

WELL COMPLETION REPORT

(HIGH) C-1 SLOT 4

JANUARY 11, 1988

WELL COMPLETION REPORT

CHEVRON U.S.A.

PLATFORM HIDALGO

WELL: (HIGH) C-1 SLOT 4

CALCULATION METHOD: BALANCED TANGENTIAL (TRAPEZOIDAL)

DECLINATION CORRECTION: 13 09' E (GRID)

PROPOSED DIRECTION: N 49 09' W

VERTICAL SECTION CALCULATED TO WELLHEAD

SURVEY TYPE	COMPANY	DEPTHS		
ASSUMED VERTICAL		0'	-	564'
GYRO	GYRO-DATA	564'	-	3244'
GYRO	EASTMAN/CHRISTENSEN	3244'	-	9328'
MWD	ANADRILL	9328'	-	10433'
PROJECTED		10433'	-	10498'

The enclosed report supplied by NL SPERRY-SUN, INC.

NL SPERRY-SUN INCORPORATED

CHEVRON U.S.A.
(HIGH) C-1 SLOT 4
JANUARY 11. 1988

R. T. ELEV. = 133.00
NORTH REF. = GRID
WELL HEAD LAT. = 0.00
WELL HEAD DEP. = 0.00

PRINT OUT OF SURVEY RESULTS

COMPLETION WELL REPORT

MEASURED DEPTH	ANGLE DEG MN	DIRECTION DEG MN	TRUE VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG RATE
564	0 0	S 19 9 W	564.00	0.00	0.00	0.00	0.925
600	0 20	S 19 9 W	600.00	-0.10	-0.03	-0.04	0.925
700	0 16	N 40 22 W	700.00	-0.20	-0.28	0.08	0.522
800	0 7	S 55 52 E	800.00	-0.08	-0.35	0.21	0.381
900	0 15	S 8 50 W	900.00	-0.35	-0.30	0.00	0.226
1000	0 19	S 44 47 W	1000.00	-0.76	-0.52	-0.10	0.186
1100	0 27	S 37 43 W	1099.99	-1.27	-0.96	-0.10	0.141
1200	0 27	S 41 34 W	1199.99	-1.87	-1.46	-0.12	0.030
1300	0 13	S 54 10 W	1299.99	-2.28	-1.87	-0.07	0.243
1400	0 22	S 6 48 E	1399.99	-2.71	-1.99	-0.26	0.323
1450	0 34	N 86 4 W	1449.99	-2.85	-2.22	-0.19	1.461
1500	1 33	N 65 18 W	1499.98	-2.55	-3.08	0.66	2.079
1550	2 56	N 53 46 W	1549.93	-1.51	-4.73	2.59	2.896
1600	4 3	N 53 54 W	1599.84	0.29	-7.18	5.62	2.234
1630	4 20	N 58 58 W	1629.76	1.50	-9.01	7.79	1.553
1660	4 26	N 54 1 W	1659.67	2.76	-10.92	10.07	1.304
1690	5 0	N 50 35 W	1689.57	4.27	-12.87	12.53	2.111
1720	5 40	N 48 12 W	1719.44	6.09	-14.98	15.32	2.342
1750	6 14	N 46 20 W	1749.28	8.20	-17.26	18.42	1.994
1780	7 2	N 43 54 W	1779.07	10.65	-19.72	21.88	2.825
1810	7 52	N 42 10 W	1808.82	13.49	-22.37	25.75	2.878
1840	8 41	N 40 29 W	1838.51	16.74	-25.22	30.02	2.838
1870	9 11	N 38 13 W	1868.14	20.34	-28.17	34.61	2.036
1900	9 50	N 36 10 W	1897.73	24.29	-31.16	39.46	2.443
1930	10 15	N 34 42 W	1927.27	28.55	-34.19	44.54	1.631
1960	10 50	N 34 53 W	1956.76	33.06	-37.32	49.86	1.946
1990	11 36	N 34 22 W	1986.19	37.86	-40.64	55.51	2.578
2020	12 24	N 38 39 W	2015.53	42.87	-44.35	61.59	3.987
2050	13 10	N 33 31 W	2044.79	48.23	-48.25	68.05	4.564
2080	13 54	N 34 9 W	2073.96	54.06	-52.16	74.82	2.492
2110	14 34	N 34 17 W	2103.03	60.16	-56.31	81.95	2.226
2140	15 15	N 34 36 W	2132.02	66.53	-60.67	89.41	2.293
2170	15 44	N 34 33 W	2160.93	73.12	-65.22	97.17	1.611
2200	16 6	N 34 52 W	2189.78	79.89	-69.91	105.13	1.258
2230	16 38	N 35 58 W	2218.57	86.77	-74.81	113.35	2.055

NL SPERRY-SUN INCORPORATED

HEVRON U.S.A.
(HIGH) C-1 SLOT 4
JANUARY 11. 1988

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NORTH REF. = GRID
WELL HEAD LAT. = 0.00
WELL HEAD DEP. = 0.00

PRINT OUT OF SURVEY RESULTS

COMPLETION WELL REPORT

MEASURED DEPTH	ANGLE DEG MN	DIRECTION DEG MN	TRUE VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG RATE
2260	17 18	N 37 7 W	2247.26	93.81	-80.02	121.89	2.489
2290	18 2	N 38 2 W	2275.85	101.02	-85.57	130.81	2.611
2320	18 46	N 39 0 W	2304.31	108.43	-91.47	140.12	2.651
2350	19 25	N 39 48 W	2332.66	116.01	-97.70	149.79	2.336
2380	19 57	N 41 22 W	2360.91	123.68	-104.27	159.78	2.503
2410	20 33	N 41 24 W	2389.05	131.47	-111.14	170.07	2.000
2440	20 57	N 41 46 W	2417.11	139.42	-118.19	180.60	1.403
2470	21 20	N 41 27 W	2445.09	147.51	-125.38	191.33	1.333
2500	21 47	N 42 11 W	2472.99	155.73	-132.73	202.26	1.746
2530	22 8	N 42 0 W	2500.81	164.05	-140.25	213.40	1.188
2560	22 43	N 43 0 W	2528.54	172.49	-147.98	224.76	2.325
2590	23 24	N 42 56 W	2556.15	181.09	-155.99	236.44	2.278
2620	24 40	N 44 55 W	2583.54	189.88	-164.47	248.61	5.013
2650	26 1	N 46 10 W	2610.65	198.87	-173.63	261.42	4.840
2680	27 19	N 47 56 W	2637.46	208.04	-183.49	274.88	5.070
2710	28 50	N 49 0 W	2663.93	217.40	-194.06	288.99	5.325
2740	30 16	N 49 5 W	2690.03	227.10	-205.23	303.79	4.782
2770	31 51	N 49 54 W	2715.72	237.15	-217.00	319.26	5.462
2800	32 46	N 49 4 W	2741.08	247.56	-229.19	335.30	3.395
2830	33 47	N 49 11 W	2766.16	258.33	-241.63	351.75	3.393
2860	34 47	N 49 8 W	2790.94	269.39	-254.41	368.65	3.335
2890	35 58	N 49 0 W	2815.40	280.76	-267.53	386.02	3.955
2920	37 27	N 48 31 W	2839.45	292.59	-281.02	403.95	5.035
2950	38 59	N 48 45 W	2863.02	304.85	-294.94	422.51	5.132
2980	40 12	N 48 46 W	2886.14	317.45	-309.32	441.62	4.057
3010	41 2	N 48 50 W	2908.91	330.32	-324.01	461.15	2.781
3040	42 7	N 50 5 W	2931.35	343.26	-339.14	481.06	4.550
3070	43 25	N 50 27 W	2953.37	356.28	-354.80	501.42	4.413
3100	44 10	N 50 31 W	2975.03	369.49	-370.82	522.18	2.505
3130	43 56	N 50 12 W	2996.59	382.79	-386.88	543.03	1.076
3160	44 28	N 51 26 W	3018.10	396.01	-403.09	563.94	3.367
3190	44 23	N 51 18 W	3039.52	409.12	-419.50	584.92	0.413
3220	44 55	N 50 45 W	3060.87	422.38	-435.89	605.99	2.197
3244	45 13	N 51 31 W	3077.82	433.04	-449.12	622.97	2.593
3300	45 27	N 53 6 W	3117.18	457.39	-480.63	662.73	2.049

NL SPERRY-SUN INCORPORATED

HEVRON U.S.A.
(HIGH) C-1 SLOT 4
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COMPLETION WELL REPORT

MEASURED DEPTH	ANGLE DEG MN	DIRECTION DEG MN	TRUE VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG RATE
3400	45 45	N 53 31 W	3187.15	500.07	-537.92	733.99	0.424
3500	45 58	N 52 22 W	3256.79	543.31	-595.19	805.59	0.853
3600	45 23	N 53 8 W	3326.66	586.62	-652.13	876.99	0.798
3700	45 12	N 52 54 W	3397.01	629.37	-708.90	947.89	0.245
3800	45 1	N 52 16 W	3467.59	672.42	-765.17	1018.61	0.482
3900	44 57	N 52 30 W	3538.32	715.56	-821.16	1089.18	0.176
4000	44 49	N 53 48 W	3609.18	757.88	-877.63	1159.57	0.927
4100	44 18	N 53 22 W	3680.43	799.53	-934.09	1229.53	0.599
4200	43 52	N 52 19 W	3752.26	841.54	-989.54	1298.95	0.849
4300	42 54	N 51 59 W	3824.94	883.69	-1043.77	1367.54	0.995
4400	42 15	N 52 43 W	3898.57	925.01	-1097.34	1435.08	0.820
4500	41 40	N 53 34 W	3972.94	965.12	-1150.83	1501.78	0.814
4600	41 7	N 53 55 W	4047.95	1004.22	-1204.15	1567.68	0.597
4700	40 33	N 52 41 W	4123.62	1043.29	-1256.57	1632.89	0.989
4800	40 3	N 52 54 W	4199.88	1082.40	-1308.08	1697.44	0.520
4900	39 43	N 53 36 W	4276.62	1120.77	-1359.46	1761.40	0.559
5000	40 29	N 51 40 W	4353.11	1159.86	-1410.64	1825.68	1.460
5100	42 1	N 52 5 W	4428.28	1200.56	-1462.51	1891.53	1.558
5200	43 24	N 51 44 W	4501.76	1242.41	-1515.88	1959.28	1.403
5300	44 38	N 51 30 W	4573.67	1285.55	-1570.34	2028.69	1.243
5400	46 24	N 50 41 W	4643.73	1330.37	-1625.85	2099.99	1.861
5500	47 26	N 50 18 W	4712.04	1376.83	-1682.19	2173.00	1.070
5600	46 59	N 50 2 W	4779.97	1423.84	-1738.54	2246.37	0.492
5700	45 49	N 50 16 W	4848.93	1470.24	-1794.13	2318.77	1.179
5800	45 55	N 50 52 W	4918.56	1515.82	-1849.57	2390.52	0.442
5900	44 45	N 50 23 W	4988.85	1560.94	-1904.55	2461.61	1.218
6000	44 36	N 50 7 W	5059.96	1605.89	-1958.60	2531.91	0.236
6100	43 49	N 49 29 W	5131.64	1650.90	-2011.86	2601.63	0.901
6200	42 43	N 50 0 W	5204.46	1695.19	-2064.16	2670.16	1.156
6300	41 36	N 49 39 W	5278.58	1738.49	-2115.44	2737.27	1.141
6400	41 12	N 49 36 W	5353.59	1781.33	-2165.82	2803.40	0.401
6500	41 0	N 49 27 W	5428.95	1824.00	-2215.83	2869.13	0.223
6600	41 36	N 49 33 W	5504.07	1866.86	-2266.01	2935.13	0.604
6700	41 59	N 49 14 W	5578.63	1910.24	-2316.60	3001.77	0.438
6800	42 35	N 48 35 W	5652.61	1954.46	-2367.30	3069.05	0.742

NL SPERRY-SUN INCORPORATED

HEVRON U.S.A.
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COMPLETION WELL REPORT

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6900	42 52	N 48 46 W	5726.08	1999.26	-2418.26	3136.90	0.312
7000	43 52	N 48 50 W	5798.77	2044.49	-2469.92	3205.56	1.001
7100	44 47	N 48 37 W	5870.31	2090.58	-2522.43	3275.43	0.928
7200	45 39	N 48 34 W	5940.75	2137.53	-2575.67	3346.40	0.868
7300	46 16	N 48 25 W	6010.26	2185.16	-2629.50	3418.28	0.626
7400	46 54	N 47 25 W	6078.99	2233.84	-2683.41	3490.89	0.963
7500	46 35	N 47 48 W	6147.52	2282.94	-2737.19	3563.70	0.421
7600	46 44	N 47 41 W	6216.16	2331.85	-2791.02	3636.40	0.174
7700	47 10	N 47 47 W	6284.42	2381.00	-2845.09	3709.45	0.440
7800	47 34	N 47 49 W	6352.15	2430.42	-2899.59	3783.00	0.401
7900	48 5	N 47 34 W	6419.29	2480.30	-2954.40	3857.09	0.548
8000	48 37	N 48 14 W	6485.75	2530.39	-3009.84	3931.79	0.727
8100	48 56	N 47 30 W	6551.65	2580.85	-3065.62	4006.98	0.633
8200	48 47	N 47 44 W	6617.44	2631.62	-3121.24	4082.26	0.229
8300	47 58	N 48 11 W	6683.86	2681.68	-3176.75	4157.00	0.883
8400	47 15	N 48 13 W	6751.28	2730.90	-3231.81	4230.84	0.718
8500	46 36	N 49 6 W	6819.58	2779.15	-3286.64	4303.88	0.914
8600	45 21	N 48 49 W	6889.07	2826.36	-3340.88	4375.78	1.266
8700	44 24	N 47 50 W	6959.93	2873.27	-3393.58	4446.32	1.179
8800	44 10	N 47 58 W	7031.52	2920.07	-3445.38	4516.13	0.253
8900	44 14	N 48 8 W	7103.21	2966.68	-3497.23	4585.83	0.130
9000	44 12	N 47 36 W	7174.88	3013.46	-3548.95	4655.55	0.371
9100	44 28	N 47 42 W	7246.41	3060.54	-3600.59	4725.41	0.276
9200	44 32	N 46 28 W	7317.74	3108.26	-3651.92	4795.45	0.865
9300	44 29	N 46 47 W	7389.05	3156.41	-3702.88	4865.49	0.223
9328	44 55	N 47 13 W	7408.95	3169.84	-3717.28	4885.17	1.904
9450	44 23	N 48 4 W	7495.74	3227.61	-3780.63	4970.87	0.652
9578	42 19	N 47 56 W	7588.81	3286.40	-3845.91	5058.71	1.616
9675	40 47	N 48 21 W	7661.39	3329.33	-3893.82	5123.03	1.607
9771	40 43	N 49 36 W	7734.12	3370.46	-3941.10	5185.69	0.853
9864	41 9	N 50 11 W	7804.38	3409.71	-3987.70	5246.61	0.619
9958	42 27	N 51 54 W	7874.45	3449.09	-4036.41	5309.22	1.844
10049	44 6	N 53 10 W	7940.70	3487.02	-4085.93	5371.48	2.050
10147	46 9	N 53 54 W	8009.83	3528.28	-4141.77	5440.71	2.157
10245	48 32	N 54 10 W	8076.22	3570.60	-4200.09	5512.50	2.440

NL SPERRY-SUN INCORPORATED

HEVRON U.S.A.
(HIGH) C-1 SLOT 4
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PRINT OUT OF SURVEY RESULTS

COMPLETION WELL REPORT

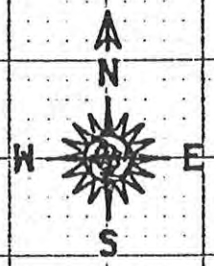
MEASURED DEPTH	ANGLE DEG MN	DIRECTION DEG MN	TRUE VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG RATE
10338	50 42	N 55 18 W	8136.47	3611.48	-4257.93	5582.99	2.507
10433	52 25	N 57 10 W	8195.52	3652.81	-4319.78	5656.81	2.375
10498	52 25	N 57 10 W	8235.17	3680.74	-4363.06	5707.81	0.000

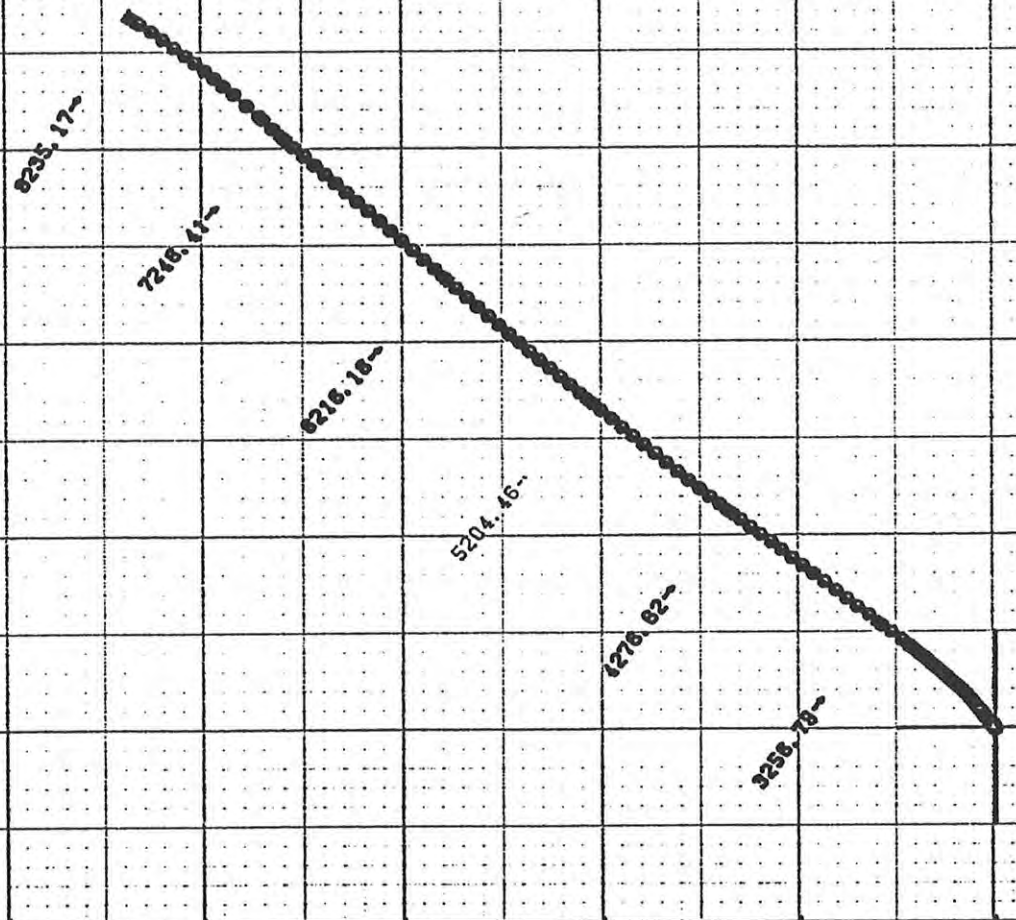
VERTICAL SECTION IS RELATIVE TO WELL HEAD ALONG AZIMUTH 310.86
THE WELL VALUES WERE CALCULATED USING THE TRAPEZOIDAL METHOD
THE BOTTOM HOLE CLOSURE DISTANCE. = 5708.25 ALONG DIRECTION N 49.85 W
RELATIVE TO THE WELL HEAD CO-ORDINATES.

MONITOR 5.07

TARGET CO-ORDINATI

MD = 10498'
VD = 8235'
VSS = 8102'
N = 3681'
W = 4363'





NORTH

4000
3000
2000
1000
0
1000

LATITUDE VALUES

WEST

5000
4000
3000
2000
1000
0
1000

DEPARTURE VALUES

SCALE = 1000 FT/IN.

CHEVRON U.S.A.
PLATFORM HIDALGO
WELL (HIGH) C-1 SLOT 4
WELL COMPLETION REPORT

Date: as of 9-16-88

Verification of Submittals at Well Completion
Santa Maria District

Operator: Chevron Lease and Well No: OCS-P 0450 C-1 API No: 56-045-20062

Verification of Receipt	
as of 3-1-88	Sundry Notices (Form MMS-331)
	1. Reduce barite 4.
	2. Change 9-5/8" csg. grade 5.
	3. Subs. Perf. & Comp. 6.
1-25-88	Final composite prints of mud logs: Interval 1057-10,498' 2" MD plus Exlog Final Well Report
as of 6-7-88	Final composite prints of electric logs (see attached list)
as of 7-6-88	Digital well log tapes (10 tapes)
N/A	Core analysis reports/core descriptions
N/A	Sidewall core analysis reports/descriptions
need	Samples (washed and dried): Interval not yet received
	Note: The samples have been requested from Chevron.
N/A	Velocity survey analysis
1-25-88	MWD: Interval 3348-10,498' 2" MD plus Anadrill End of Well Report
2-12-88	Composite directional survey: Interval 564-10,498' NL Sperry-Sun
2-12-88	Completion Report (Form MMS-330)
N/A	Drill Stem Test Reports

Final composite prints of electric logs:

1.	DLL-MLL-GR 2", 5"	1056-10,494'
2.	BHC Acoustilog 5"	9350-10,496'
3.	BHC Acoustic Fraclog 5"	9350-10,496'
4.	CD-CN-GR 5"	9380-10,496'
5.	Minilog 5"	9350-10,496'
6.	Caliper 5"	1020-3336'
7.	Diplog 5"	3300-10,496'
8.	Computed Diplog 2", 5"	3300-10,496'
9.	Special Computed Diplog 5"	7500-10,496'
10.	Comparison Diplog 60"	8800-8900'
11.	Stratadip 5"	8850-8880'
12.	Diplog Printout	3337-10,517'
13.	CBL 5"	8895-10,394'
14.	Restech Incline Computed Dipmeter Results	3300-9415'

APD CHECKLIST

OPERATOR Chevron	AREA Pt. Arguello	RKB TO WATER 133
PLATFORM/ISLAND Hidalgo	LEASE OCS-P 0450	WATER DEPTH 430
RIG NAME/TYPE Dual #45	BLOCK 464	RKB TO M.L. 563
DATE APD RECEIVED 10/26/87	SLOT NO. 4	PROP. DEPTH 10,559 MD
DATE APD APPROVED	WELL NO. C-1	API NO.
	# COPIES REC'D	

LOCATION: SURFACE x = 710,995 m	204.6 m from E line	Lat.
y = 3,819,240 m	1560 m from N line	Long.
BOTTOM HOLE: x = m	from line	Lat.
y = m	from line	Long.

	Reviewer	Date Review Completed
Engineering Review:	DK	
Biological/Fisheries Review:		
Geologic Review:		
Geohazards Review:		

List Attachments:

ENGINEERING REVIEW

Approved Plans Necessary For APD Approval

Evacuation & Shelter Plan ✓

Oil Spill Contingency Plan Approval (date) ✓

Welding Plan on file ✓

Field Rules (date, if applicable) ✓

Critical Operations Curtailment Plan Approval (date) ✓

H_2S Plan Approval (date) ✓

APD Program & EP

A. Current classification or certification of vessel fitness with operational limitations on file N/A

B. Casing Test Pressures:

	Proposed		Required		70 %
Conductor	350	psi	203	psi	2142
Surface	1000	psi	1000	psi	3766
Intermediate	2500	psi	1811	psi	4431
7"	2500	psi	1811	psi	5068

C. Casing Safety Factors Listed ✓

D. Anticipated surface pressure calculations:

	MMS	Operators
Below conductor:	791	848
Below surface:	1675	1618
Below intermediate:	3335	2762
Below 7":	3335	2762

E. BOPE

1. Preventers — Number and Type

a. Annular Preventers — 1 Shaffer 5000 psi

b. Pipe Rams — 2 Shaffer 5000 psi

c. Blind/Shear Ram — 1 Shaffer 5000 psi

2. Diagrams

a. BOP schematic — ✓

b. Diverter System — ✓

c. Choke Manifold — ✓

3. Test Pressures Required:

BOP Test Pressures	Ram-type Blowout Preventers and Related Equipment		Annular-type Blowout Preventers	
	Proposed	Required	Proposed	Required
a. On test stump	—	—	—	—
b. Below conductor casing	— (w/csg. test)	—	350	—
c. Below surface casing	3000	1675	3000	1675
d. Below intermediate casing	5000	3000	3500	3000
e. Below 7"	5000	3000	3500	3000

f. Is thru/bore test plug to be used? — Yes

4. Drilling conductor hole wo/Marine Riser? _____

If so, Supporting Data:

a. Seismic data _____

b. Geologic data _____

c. Operator's geologic hazards analysis _____

d. Water depth _____

e. Schematic diagram from rotary table to conductor casing seat _____

f. Mud weight _____

g. Contingency plan for moving off location _____

F. Mud System

depth	uncased hole vol.	cased hole vol.	active system plus riser vol.	total system vol.	base mud wt.	barite required	barite proposed
		ok	2500		8.5	SX5	

1. List of proposed EPA approved additives ✓

2. Other reserve mud component amounts ✓

3. Disposal of mud and cuttings according to lease stipulations ✓

G. Are pore pressure and frac. gradient curves given ✓

H. Directional survey program listed ✓

I. Quantities and types of cement listed ✓

J. Mud logging program and H_2S detection equipment listed ✓

K. Abandonment procedures given NA

L. Ocean bottom clean-up method listed NA

M. Leak-off test program ✓

N. List of on-site oil spill equipment ✓

O. Stand-by boat mooring location listed ✓

P. Does the APD conform to the Field Rules for Development Wells? ✓

II. Action Needed

A. IWR Made _____

B. Any recommendations _____

Santa Maria District Cement Evaluation Form

Lease No: P-0450 Well No: C-1

Water Depth 430 Elevation KB 133 Operator: CHEVRON

INTERVAL From ft	To ft	Casing Run ft	Casing Size o.d. in	Casing Weight #/ft.	Hole Size in.	**Volume Factor** csg/csg cuft/lnft	csg/hole cuft/inft	**Annular Space** csg/csg ln.ft.	csg/hole in.ft.
0	1640	1640	18.63	117.5	22	0.85	0.7478	467	610
0	3400	3400	13.38	72	17	0.7	0.6006	1077	1760
0	9372	9372	9.63	43.5	12.25	0.3262	0.3132	400	5972
8972	10559	1587	7	26.5	8.5	0.1508	0.1268	400	1187

Annular Volume csg/csg cu.ft.	csg/hole cu.ft.	25% Excess open	50% Excess hole	100% Excess	**Total Annular Volume** For 25%Ex.	50%Ex.	100%Ex.	******Remarks******
								24in.STR.CSG.@1030ftRKB
397	456	570	684	912	967	1081	1309	W\1680cuftCMT.100%EXCESS
754	1057	1321	1585	2114	2075	2339	2868	
130	1876	2345	2806	3741	2469	2936	3871	
50	151	189	226	301	248	286	361	

No Sacks cmt	% Gel	Yield cuft/sk	Volume cu.ft.	No.Sacks Next	Yield cu.ft/sk	Volume cu.ft	Total Volume cu.ft
			ERR			ERR	935
			ERR			ERR	1960
			ERR			ERR	2295
			ERR			ERR	315

15%EXC.WILL CONFIRM HOLE

" " " " " " " " " "

" " " " " " " " " "

OF 50%EXCESS WILL CONFIRM

MINERALS MANAGEMENT SERVICE
Santa Maria District

Well Name & No. [illegible] Lease No. [illegible] Design Basis Casing Design W.D. : 430
OCS Area [illegible] Block No. Mud Wt. [illegible] Rig: J.ARGUELLO SLE: RB 133

Casing String	Hole Size in	Casing Size in OD	Interval from ft	Interval to ft	Footage ft	Casing Weight lb/ft	Grade Thread	Weight in air lbs	Mudcum Weight lbs	Collapse Resist. psi	Internal Yield psi	Joint Strength (*1000)
Cond.	22.00	18.63	0.00	1640.00	1640.00	117.50	K-55	192700.00	192700.00	1500.00	3060.00	1929.00
Surface	17.00	13.38	0.00	3400.00	3400.00	72.00	L-80	244800.00	244800.00	2670.00	5380.00	1163.00
Inter.	12.25	9.63	0.00	9372.00	9372.00	43.50	TCA80-563	407682.00	449737.50	4800.00	6330.00	835.00
Prod.	_____	_____	_____	_____	ERR	_____	_____	ERR	ERR	_____	_____	_____
Liner	8.50	7.00	8972.00	10559.00	1587.00	26.50	L-80	42055.50	42055.50	5410.00	7240.00	514.00

Casing String Type	Body Yield lbs (*1000)	Body Ten Design Factor	Joint Ten. Design Factor	Depth to Csg. Shoe RKB TVD	TD (TVD) (RKB)	Frac Grad. @ Csg Shoe eq MW	Max Press Csg Shoe Befor Fm Brkdwn	MASP (burst) psi	MW @ TD or nxt full strng csg pt #/gal	Hydrolic Gradient psi/ft	Hydrostat Press. (BHP) psi	Height of Shut in gas column ft
Cond.	1848.00	9.59	10.01	1640.00	*********	10.70	955.14	791.14	**********			
Surface	1661.00	6.79	4.75	3135.00	*********	11.70	1988.84	1675.34	**********			
Inter.	1005.00	2.23	1.86	7388.00	8233.00	12.80	5109.54	4370.74	9.20	0.48	3938.67	8233.00
d.	_____	ERR	ERR	_____	_____	_____	ERR	ERR	_____	ERR	ERR	ERR
Liner	604.00	14.36	12.22	8233.00	8233.00	12.80	5693.94	4870.64	9.20	0.48	3938.67	845.00

Casing String Type	Burst @top of Csg psi	MASP psi	PorePress at Liner Top eq.mw #/gal	PorePress Gradient psi/ft	BurstPress at Liner Top psi	Burst Design Factor	Pore Press #/gal	PressEff on Outside of Casing psi	Collapse Design Factor Hole Void	PressEff Inside Casing psi	Net Press Effect on Outside of Casing	Collapse Design Factor Hole Filled w/Sea Water
Cond.	**********	**********				3.81	8.70	741.94	2.02	729.80	12.14	103.80
Surface	**********	**********				3.21	8.70	1418.27	1.88	1395.08	23.20	115.09
Inter.	3242.12	3335.09	**********	**********	**********	1.88	8.70	3342.30	1.44	3287.66	54.67	87.80
Prod.	ERR	ERR	**********	**********	**********	ERR	_____	ERR	ERR	ERR	ERR	ERR
Liner	3875.20	3335.09	8.70	0.45	[illegible]	-39.41	8.70	3724.61	1.45	3663.69	60.92	88.80

OMB No. [illegible]-0044
(Expires July 31, 1986)

SUBMIT IN TRIPLICATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

CONFIDENTIAL

Revised 11-12-87

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Chevron U.S.A. Inc.

3. ADDRESS OF OPERATOR (Where form is completed): P.O.Box 6917, Ventura, Ca. 93006

4. LOCATION OF WELL (Report location in accordance with instructions*)
At surface: X=710,995.44m Y=3,819,240.18m (671ft. FEL) (5118ft. FNL)
Slot #4
At proposed prod. zone: X=709,857.68m Y=3,820,224.2m (4404ft. FEL) (1889ft. FNL)
UTM 10 Coord.

5. LEASE/PERMIT NO.: OCS-P-0450

6. AREA & BLOCK: Calif. Map NI 10-6 N 796 - E 144 (BLK.#464)

7. WELL NO.: C-1

8. UNIT AGREEMENT: ---

9. FIELD: Point Arguello

10. EXPLORATORY [ ] DEVELOPMENT [X]

11. ADJACENT STATE: California

12. DISTANCE IN MILES AND DIRECTION FROM NEAREST ONSHORE POINT OF DEPARTURE: 6 miles southwest from Point Arguello

13. NO. OF ACRES IN LEASE: 5131

14. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 0450 #1 3214'

15. PROPOSED DEPTH: MD 10,559' TVD 8233'

16. RIG NAME & TYPE: Dual #45 (Rotary)

17. ELEVATIONS (Show whether DF or RKB): D.F.=133' MLLW

18. WATER DEPTH: 430'

19. APPROX. DATE WORK WILL START*: November 1987

20. ** BOF (VD)

PROPOSED CASING AND CEMENTING PROGRAM

	SIZE OF HOLE	SIZE AND GRADE OF CASING		WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT (CU. FT.)
	467' 30"	24"	X-52	201#	1030'	1680 cu.ft.
	1077' 22"	18-5/8"	K-55	117.5#	1640'	925 cu.ft.
	572' 17"	13-3/8"	L-80	72#	3400'	1960 cu.ft.
	325' 12-1/4"	9-5/8"	SS-95	43.5#	9372'	2295 cu.ft.
**	70' 8-1/2"	7"	L-80	26#	10,559' (Top at 8972')	315 cu.ft.

BOF- Below Ocean Floor

Distribution:
M.M.S.-Santa Maria (Original + 2 + Public Info. Copy)
Ventura Well File - Attn: A. Jolicoeur
J.W. Wright-Ventura, Prod./Attn: M. G. Merritt
W.R. Richards-Ventura, Drilling
J.R. Swinson-Ventura, Drilling
Section 724P- Concord

MINERALS MANAGEMENT SERVICE
RECEIVED
NOV 13 1987
SANTA MARIA DISTRICT

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
NOV 24 1987
FIELD OPERATIONS
LOS ANGELES

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: GIVE BLOWOUT PREVENTER PROGRAM AND MUD PROGRAM OR ATTACH DRILLING PROGNOSIS CONTAINING INFORMATION REQUIRED BY OCS ORDERS.

21. SIGNED J.R. Swinson for J.P. Lester TITLE Division Manager DATE 23 OCT 87

(This space for Federal or State office use)

PERMIT NO. API No. 56-045-20062 APPROVAL DATE

APPROVED BY E P Danenberger TITLE District Supervisor DATE 11/20/87

CONDITIONS OF APPROVAL, IF ANY: SEE ATTACHED CONDITIONS
E. P. Danenberger

Form MMS-331C (May 1983)
(Supersedes USGS Form 9-331C which will not be used)

*See instructions on reverse

REGION

SANTA MARIA DISTRICT OCS OPERATIONS
CONDITIONS OF APPROVAL TO DRILL FOR OIL AND GAS
DEVELOPMENT WELLS

Operator: Chevron USA Inc. Date: November 20, 1987

Platform: Hidalgo Unit: N/A Field: Point Arguello

Lease: OCS-P 0450 Well No.: C-1 Slot No.: 4

API Well No.: 56-045-20062

1. The date drilling is started shall be reported promptly to the District Supervisor.

2. When changes are proposed in the approved Application for Permit to Drill (APD), Form MMS-331, "Sundry Notices and Reports on Wells" must be submitted in triplicate to the District Supervisor. One public information copy shall also be submitted. When verbal approval has been obtained, the sundry notice shall be filed promptly thereafter.

3. Any unusual occurrences, such as fires, serious injury to personnel, loss of equipment or debris overboard, damage to surface or subsurface equipment, well control problems, pollution, or major equipment failure, shall be reported without delay to the District Supervisor by telephone, and a full written report shall be filed within 10 days.

4. A drilling and progress report shall be called into the District Office (805/ 922-7958) daily, prior to 9:00 a.m.

5. Production tests shall not be initiated until the test program has been approved by the District Supervisor.

6. Diesel fuel or other oil-based substances shall not be added to the drilling mud system without prior approval by the District Supervisor.

7. Before a completion program is commenced or the hole is abandoned, the District Supervisor shall be allowed sufficient time to examine well records and give separate approval for this portion of the drilling program.

8. The Notice of Intent to Abandon a well shall be submitted on Form MMS-331 as outlined in OCS Order No. 3, notwithstanding any verbal approval that may have been granted by the District Supervisor. A Subsequent Report, Form MMS-331, shall be submitted not later than 30 days after completion of the approved work.

9. A Completion Report, Form MMS-330, shall be submitted in duplicate no later than 30 days after completion of each new zone in the well. If a well is drilled to its intended total depth and is not immediately completed (for example, if the rig is moved to a different slot for operations on another well), a form MMS-330 shall be submitted within 30 days of suspension of activity on the well. Public information copies shall be submitted in accordance with OCS Order 12. The pertinent and applicable reports and logs required under 30 CFR 250.90 through 250.96 will be properly and timely submitted.

10. Two copies of a final composite directional survey and report shall be submitted within 30 days of completion of the well.

11. Two copies of interim directional survey reports shall be submitted as soon as available.

12. Two copies of the measurement-while-drilling log to date shall be submitted on a weekly basis, when utilized.

13. Mud logs shall be submitted to the District Supervisor as follows:

    a. Two copies of formation evaluation logs to date shall be submitted at least weekly. This may include partial sheets as necessary.

    b. Two copies of available auxiliary logs, such as pressure evaluation, drilling data pressure, and temperature logs shall also be submitted.

    c. Two copies of composite final log(s) and the mud logger's report shall be submitted within 30 days of well completion.

14. Wire line logs shall be submitted to the District Supervisor as follows:

    a. Two copies of all field prints of individual runs of electric, radioactive and other logs (at appropriate scales, usually 2" and 5") and velocity survey information shall be submitted promptly after logging.

    b. Two copies of computed surveys, such as dipmeter and velocity checkshot data, shall be submitted as soon as available.

    c. Two copies of final composite prints of all log runs and final computed logs shall be submitted within 30 days of well completion.

    d. If log data has been recorded and processed on magnetic tape, one copy of the processed digitized well log data shall be submitted within 30 days of well completion, formatted according to Notice to Lessees 86-01.

    e. The identity of rock units in time-stratigraphic terms shall be established by showing, as accurately as the present state of knowledge allows, the depths to the top of the upper Pliocene, middle Pliocene, lower Pliocene, upper Miocene, middle Miocene, etc., as appropriate, on the completion report or on a final print of a marked electric log.

15. Cores and Coring Operations

    When sidewall cores are taken, the following requirements shall be met:

    a. The number of cores attempted, recovered, and misfired, and depth interval over which cores were taken shall be reported to the District Office by phone on the next daily drilling report.

    b. Two copies of the well site description of cores shall be submitted promptly after coring.

    c. Two copies of the core analysis report shall be submitted within 30 days of well completion.

When a conventional core is taken, the following requirements shall be met:

a. The amount of core recovered and coring depth interval shall be reported to the District Office by phone on the next daily drilling report.

b. Two copies of the well site core description shall be submitted promptly after coring.

c. Two copies of the core analysis report including core description and core photos (if available) shall be submitted within 30 days of well completion.

Upon request, sidewall core samples and conventional core slabs shall be made available for MMS use.

16. Upon request, washed samples or paleontological slides shall be made available to MMS.

17. This APD is approved subject to the requirement that, should the well be successfully completed for production or recompleted and production resumed after being off of production more than 90 days, this office must be notified when it is placed in a producing status. Such notification may be provided orally if confirmed in writing and must be received in this office by no later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following information items:

a. Operator's name.

b. Platform name and well number.

c. Date well began or resumed production.

d. The lease and, if applicable, unit participating area to which the well's production is attributable.

18. This APD is valid for one year from the date it is approved.

CONFIDENTIAL

PROPOSAL FOR WELL OPERATIONS

PRO-316-1

FIELD: POINT ARGUELLO PROPERTY: OCS-P-0450 WELL NO.: C-1 (HIGH)

SURFACE LOCATION: SLOT NO. 4 X=710,995.44m Y=3,819,240.18m

PROPOSED TOP OF TARGET: X=709,857.68m Y=3,820,224.20m

PROPOSED BOTTOM HOLE LOCATION: X=709,642.91m Y=3,820,409.95m
UTM 10 COORDINATES

PROPOSED DEPTHS:

	M.D.	V.D.	V.S.S.
TOTAL DEPTH	10559	8233	-8100
24" CONDUCTOR	1030	1030	- 897
18 5/8" CASING	1640	1640	-1507
13 3/8" CASING	3400	3135	-3002
9 5/8" CASING	9372	7388	-7255
7" LINER/ T.D.	10559	8233	-8100

PROPOSED DIRECTIONAL:

BOTTOM HOLE LOCATION: 3837.83 NORTH AND 4437.42 WEST OF SURFACE
KICK OFF POINT: 1500' MD/VD
BUILD ANGLE: 3 DEG./100' TO 44 DEG 36 MIN
HOLD ANGLE AT: 2987' MD/2841' VD
MAXIMUM ANGLE: 44 DEG 36 MIN

BLOW-OUT CONTROL CONSIDERATIONS:

DRILL STEM TESTING IN THE 450 & 451 BLOCKS & SURROUNDING BLOCKS INDICATE A NORMAL (.45 PSI/FT.) PRESSURE GRADIENT. EXPLORATORY WELLS IN THE 450 BLOCK & EASTERLY ADJACENT 451 BLOCK WERE DRILLED WITHOUT INCIDENT, UTILIZING MUD WEIGHTS FROM 9.0 TO 10.3 PPG. THERE ARE NO KNOWN PRESSURE ANOMALIES. HOWEVER, THE ENTIRE REGION IS HIGHLY FAULTED AND HIGHER PRESSURES COULD BE UP-THROWN & TRAPPED BY FAULTS.

SHALLOW GAS:

NO SIGNIFICANT GAS SHOWS ARE EXPECTED ABOVE THE TOP DEFORMATION UNCONFORMITY (APPROXIMATELY -2200 VSS) BELOW PLATFORM HIDALGO. SOME ANOMALOUS SEISMIC EVENTS WERE NOTED CLOSE TO THE OCS-P-0450 #1 WELL (3300' NNW OF THE PLATFORM LOCATION) AT ABOUT -1400' VSS, BUT NO SIGNIFICANT MUD LOG OR WIRELINE LOG SHOWS WERE ENCOUNTERED. NO MAJOR SEISMIC ANOMALIES WERE SEEN ABOVE THE TOP DEFORMATION UNCONFORMITY WITHIN A 1000' RADIUS OF PLATFORM HIDALGO'S LOCATION.

BLOW-OUT PREVENTION EQUIPMENT:

A 29 1/2" 500 PSI DIVERTER SYSTEM WILL BE INSTALLED ON THE 24" STRUCTURAL AND 18 5/8" CASING. A 13 3/8" 5000 PSI CLASS IV BOP WILL BE INSTALLED ON THE 13 3/8" AND ALL SUBSEQUENT CASING STRINGS.

HYDROGEN SULFIDE CONSIDERATIONS:

HYDROGEN SULFIDE WAS FREQUENTLY ENCOUNTERED WHILE DRILL STEM TESTING IN THE 450 AND 451 BLOCKS. THE MONTEREY IS LIKELY TO CONTAIN AN AVERAGE OF 1500 PPM AND MAXIMUM OF 6000 PPM HYDROGEN SULFIDE. CONCENTRATIONS IN EXCESS OF 70,000 PPM HAVE BEEN ENCOUNTERED IN THE MONTEREY IN OFFSET BLOCKS. HYDROGEN SULFIDE MONITORING:

1. THE MUD SERVICE COMPANY WILL MONITOR THE CONCENTRATION OF HYDROGEN SULFIDE ENTRAINED IN THE MUD WITH A GARRETT GAS TRAIN.

2. EXLOG (MUD LOGGERS) WILL CONTINUOUSLY MONITOR WITH A DELPHIAN DUCT SYSTEM, FROM BELOW THE SHOE OF THE 13 3/8" CONDUCTOR.

3. AMBIENT CONCENTRATIONS WILL BE MONITORED AUTOMATICALLY. SENSORS WILL BE PLACED THROUGHOUT THE CRITICAL AREAS ON THE PLATFORM AND CONNECTED TO A VISUAL AND AUDIBLE ALARM SYSTEM.

4. CORROSION RINGS WILL BE ROUTINELY CHECKED FOR LOSS AND INDICATIONS OF HYDROGEN SULFIDE.

5. DRAEGER TUBES WILL BE AVAILABLE TO ISOLATE SOURCES OF HYDROGEN SULFIDE.

PREVENTION AND TREATMENT:

SINCE THE FORMATION PRESSURE IS NORMAL (.45 PSI./FT.), THE RISK OF HYDROGEN SULFIDE MAY BE LIMITED BY MAINTAINING MUD WEIGHTS ABOVE 9.0 PPG. POTTASSIUM HYDROXIDE SHOULD BE USED TO MAINTAIN PH ABOVE 10.0 TO LIMIT THE FORMATION OF HYDROGEN SULFIDE (PER MINERALS MANAGEMENT SERVICE REGULATIONS) AND BELOW 11.0 TO PREVENT FORMATION DAMAGE.

ONCE HYDROGEN SULFIDE IS DETECTED IN THE MUD, IT SHOULD BE TREATED WITH ZINC CHELATE. FILM-FORMING AMINE INHIBITORS SHOULD BE SPRAYED ON TUBULAR AND BOP EQUIPMENT TO REDUCE THE RATE OF CORROSION.

ALL PERSONNEL SHOULD BE AWARE OF THE HAZARDS AND PRECAUTIONS TO BE TAKEN IN THIS ENVIRONMENT. THE CONTRACTED HYDROGEN SULFIDE SAFETY COMPANY WILL CONDUCT ALL TRAINING, EQUIPMENT, SIGNS, WEEKLY DRILLS, ETC. ARE TO CONFORM TO THE HYDROGEN SULFIDE CONTINGENCY PLAN REQUIREMENTS.

CARBON DIOXIDE AND CARBONATES:

PRODUCED GAS DURING TESTING OF THE MONTEREY IN THE 450 & 451 BLOCKS SHOWED THAT THE PRODUCED GAS WAS COMPOSED OF 5% CARBON DIOXIDE. THE ALKALINITY OF FORMATION WATER IS 1000 MG./L, INCLUDING BICARBONATES. CARBONATES ARE CORROSIVE & CREATE COMPLEX MUD PROBLEMS.

CARBON DIOXIDE AND CARBONATES (CON'T)

ADEQUATE HYDROSTATIC COLUMNS WILL PREVENT CARBON DIOXIDE INFLUXES. CARBONATES SHOULD BE REMOVED BY TREATING THE MUD WITH LIME TO FORM INSOLUBLE CALCIUM CARBONATES. CORROSION WILL BE LIMITED BY MAINTAINING PH ABOVE 10.0 WITH POTASSIUM HYDROXIDE. ALL PERSONNEL SHOULD BE AWARE OF THE HAZARDS ASSOCIATED WITH THIS ENVIRONMENT.

LOST CIRCULATION CONSIDERATIONS:

LOST CIRCULATION HAS BEEN EXPERIENCED WHILE DRILLING IN THE 450 AND SURROUNDING BLOCKS. EXPERIENCE ALSO INDICATES THAT CEMENTING MAY PRODUCE A LOST RETURNS SITUATION. THE FOLLOWING IS A DETAIL OF DRILLING HIGHLIGHTS FOR EXPLORATORY WELLS AROUND PLATFORM HIDALGO.

OCS-P-0450-1

LOCATION: ~3200' NORTH OF PLATFORM HIDALGO T.D.: 11950'
KB-ML : 464'
WATER DEPTH: 391'

1025'MD/1025'VD (561'BOF)	DRILLED 17 1/2" HOLE WITH DUMP VALVE OPEN, USING SEAWATER. KEEP PENETRATION RATE BELOW 60 FT./HR.
1301'MD/1301'VD (837'BOF)	KEEP SAME PENETRATION RATE WITH ONE PUMP ON THE RISER, USING 8.8 PPG GEL WATER.
1935'MD/1935'VD (1471'BOF)	LOST COMPLETE RETURNS LAST 10 MINS WHILE CEMENTING 13 3/8" CASING.
1940'MD/1940'VD (1476'BOF)	13 3/8" SHOE TEST 0.56 PSI/FT GRADIENT.
1985'MD/1085'VD (1521'BOF)	LEAK-OFF TEST 0.58 PSI/FT GRADIENT.
4984'MD/4983'VD (4519'BOF)	LOST DISPLACEMENT RETURNS LAST 75 BBL WHILE CEMENTING 9 5/8" CASING.
4990'MD/4989'VD (4525'BOF)	9 5/8" SHOE TEST 0.63 PSI/FT GRADIENT.
5034'MD/5033'VD (4569'BOF)	LEAK-OFF TEST 0.65 PSI/FT GRADIENT.

NOTE: MUD WEIGHTS USED RANGED FROM 8.8 TO 10.6 PPG (8500').

OCS-P-0450-2

LOCATION: ~7000' SOUTH OF PLATFORM HIDALGO T.D.: 9277'
KB-ML : 934'
WATER DEPTH: 844'

1100'MD/1199'VD (166'BOF)	HOLE WOULD NOT STAY FULL WITH SALTWATER, DRILLED WITH DUMP VALVE OPEN.
2447'MD/2447'VD (1513'BOF)	13 3/8" SHOE TEST 0.56 PSI/FT GRADIENT.
2497'MD/1563'VD (1563'BOF)	LEAK-OFF TEST 0.60 PSI/FT GRADIENT.
5393'MD/5292'VD (4358'BOF)	TIGHT HOLE 3720'-5393' & STICKING PIPE @ 5150'. RAISED MUD WEIGHT FROM 9.4 TO 10.0 PPG.
5580'MD/5470'VD (4536'BOF)	LOST CIRC WITH 9.9 PPG MUD WHILE CLEANING OUT 20' FILL. REGAIN BY PULLING UP TO 5550'.
5611'MD/5499'VD (4565'BOF)	LEAK-OFF TEST 0.69 PSI/FT GRADIENT.

OCS-P-0450-2 (CON'T)

5554'MD/5455'VD (4511'BOF)	LOST 120 BBL 9.9 PPG MUD WHILE CEMENTING 9 5/8" CSG. 5564'MD/5455'VD (4521'BOF) 9 5/8" SHOE TEST 0.63 PSI/FT GRADIENT.
8016'MD/7820'VD (6886'BOF)	LOST 100 BBLS OF 10.2 PPG MUD WHILE CORING. REGAIN RETURNS WITH LCM.
8200'MD/7993'VD (7059'BOF)	LOST 10.4 PPG MUD 30 BBL/HR WHILE DRILLING. REGAIN BY REDUCED PUMP SPEED, MUD WEIGHT FROM 10.4 TO 10.3 PPG, AND ADDED LCM.
8252'MD/8042'VD (7108'BOF)	STUCK DRILL PIPE, LOST COMPLETE RETURNS AFTER A DRILLING BREAK AT 8246', 10.3 PPG MUD. WORKED PIPE FREE AND ADDED LCM. GAS 340 UNITS.
8307'MD/8095'VD (7161'BOF)	LOST RETURNS ON TRIP IN HOLE WITH BIT @ 7000'. CON'T RIH, REDUCED MUD WT 10.3 TO 10.2 PPG.
8345'MD/8129'VD (7195'BOF)	LOST 10.2 PPG MUD 60 BBL/HR WHILE DRILLING. REGAIN WITH LCM. GAS 170 UNITS.

NOTE: MUD WEIGHTS USED RANGED FROM 9.1 TO 10.3 PPG (8500').

OCS-P-0450-3

LOCATION: ~5800' NORTHWEST OF PLATFORM HIDALGO T.D.: 8881'
KB-ML : 498'
WATER DEPTH: 426'

2007'MD/2007'VD (1569'BOF)	13 3/8" SHOE TEST 0.56 PSI/FT GRADIENT.
2052'MD/2052'VD (1554'BOF)	LEAK-OFF TEST 0.61 PSI/FT GRADIENT.
2235'MD/2235'VD (1737'BOF)	GAS 280 UNITS. RAISE MUD WT FROM 9.0 TO 9.1 PPG. KEEP PENETRATION RATE UNDER 90 FT/HR.
3540'MD/3540'VD (3042'BOF)	DRILLING BREAK, TORQUE INCREASED, 600 UNITS GAS. RAISED MUD WEIGHT FROM 9.2 TO 9.6 PPG.
5035'MD/5035'VD (4537'BOF)	STICKING PIPE. REAMED 4345'-5035'. RAISED MUD WT 9.6 TO 9.8 PPG. 5005'MD/5005'VD (4507'BOF) LOST 116 BBL OF 9.8 PPG MUD WHILE CMTG 9 5/8" CSG.
5010'MD/5010'VD (4512'BOF)	9 5/8" SHOE TEST 0.62 PSI/FT GRADIENT.
5060'MD/5060'VD (4562'BOF)	LEAK-OFF TEST 0.63 PSI/FT GRADIENT.
5890'MD/5890'VD (5392'BOF)	LOST 25 BBL OF 9.8 PPG MUD WHILE DRILLING. REGAIN RETURNS WITH LCM.
6575'MD/6574'VD (6076'BOF)	300 UNITS GAS WHILE DRILLING WITH 9.8 PPG MUD. REDUCED GAS BY CIRCULATING BOTTOM UP.
7779'MD/7776'VD (7278'BOF)	LOST 9.8 PPG MUD 7 BBL/HR WHILE WAITING ON WEATHER. TOTAL LOST 110 BBL.
7888'MD/7885'VD (7387'BOF)	CONTINUE LOSING 6 BBL/HR WHILE DRILLING WITH 9.8 PPG MUD. TOTAL LOST 120 BBL.
8108'MD/8104'VD (7606'BOF)	LOST PARTIAL RETURNS. SPOT PILLS & REDUCED MUD WT 9.8 TO 9.5 PPG. TOTAL LOST 760 BBL. 8374'MD / 8370'VD (7372'BOF) CON'T LOSING 60-90 BBL/HR WHILE DRLG W/9.5 PPG MUD. CON'T SPOTTING LCM PILLS.
8456'MD/8452'VD (7954'BOF)	CON'T LOSING 10-15 BBL/HR WHILE DRLG TO T.D. 8881'MD.

NOTE: MUD WEIGHTS USED RANGED FROM 9.1 TO 9.8 PPG.

OCS-P-0450-4 (DRY HOLE)

LOCATION: ~14300' WEST OF PLATFORM HIDALGO T.D.: 8100'
KB-ML : 1170'
WATER DEPTH: 1097'

2712'MD/2712'VD (1542'BOF)	LOST CIRCULATION WITH 9.5 PPG MUD PRIOR TO CEMENTING 13 3/8" CASING, SHOE AT 2691'.
2696'MD/2696'VD (1526'BOF)	13 3/8" SHOE TEST 0.55 PSI/FT GRADIENT.
2741'MD/2741'VD (1571'BOF)	LEAK-OFF TEST 0.58 PSI/FT GRADIENT.
3570'MD/3570'VD (2400'BOF)	975 UNITS GAS WHILE CIRCULATING. RAISED MUD WEIGHT FROM 9.2 TO 9.4 PPG.
3625'MD/3625'VD (2455'BOF)	200-350 UNITS GAS WHILE DRILLING. RAISED MUD WEIGHT FROM 9.4 TO 9.8 PPG. ADDED LCM FOR SEEPAGE. TOTAL LOST 50 BBL.
3935'MD/3935'VD (2765'BOF)	1000 UNITS GAS WHILE DRILLING W/9.8 PPG MUD.
4103'MD/4103'VD (2933'BOF)	LOST 100 BBL WHILE DRILLING WITH 9.8 PPG MUD. REGAIN RETURNS WITH LCM. 5680'MD/5680'VD (4510'BOF) REAMED TIGHT HOLE 4120'-5680', CIRC OUT RUNNING SHALE. RAISED MUD WT 9.9 PPG TO 10.2 PPG. LOST 200 BBL. SPOTTED LCM PILLS.
5655'MD/5655'VD (4485'BOF)	LOST COMPLETE RETURNS WHILE CEMENTING 9 5/8" CSG. 5660'MD/5660'VD (4490'BOF) 9 5/8" SHOE TEST 0.63 PSI/FT GRADIENT.
5705'MD/5705'VD (4535'BOF)	LEAK-OFF TEST 0.63 PSI/FT GRADIENT.

NOTE: MUD WEIGHTS USED RANGED FROM 9.2 TO 10.3 PPG.

OCS-P-0315-2 (TEXACO WELL)

LOCATION: ~10000' SOUTH OF PLATFORM HIDALGO T.D.: 10200'
KB-ML : 928'
WATER DEPTH: 891'

1475'MD/1475'VD (547'BOF)	LOST DISPLACEMENT RETURNS DURING CMTG 20" CSG.
2435'MD/2435'VD (1507'BOF)	LEAK-OFF TEST 0.52 PSI/FT GRADIENT. 13 3/8" SHOE AT 2391'.
5641'MD/5638'VD (4710'BOF)	LOST COMPLETE RETURNS WITH CAUSTIC WATER PRIOR TO CEMENTING 9 5/8" CASING, SHOE AT 5618'.
5665'MD/5662'VD (4734'BOF)	LEAK-OFF TEST 0.64 PSI/FT GRADIENT.
7530'MD/7518'VD (6590'BOF)	LOST 9.3 PPG MUD 15-20 BBL/HR WHILE DRILLING. TOTAL LOST 160 BBL.
8165'MD/8152'VD (7224'BOF)	420 UNITS GAS, DRILLING WITH HIGH TORQUE SINCE 7832' USING 9.3 PPG MUD.
8405'MD/8392'VD (7464'BOF)	LOST 9.3 PPG MUD 2 BBL/HR WHILE DRILLING.
8982'MD/8969'VD (8041'BOF)	CON'T DRILLING WITH HIGH TORQUE. REQUIRED REAMING AND CHANGING OUT STABILIZERS AND BITS.

NOTE: MUD WEIGHTS USED RANGED FROM 9.3 TO 9.5 PPG.

ALTHOUGH LOST CIRCULATION IS NOT CONSIDERED A SIGNIFICANT PROBLEM, SUFFICIENT DRILLING FLUID, LCM AND VISCOSIFIERS SHALL BE KEPT ON BOARD AT ALL TIMES. MUD WEIGHTS/DRILLING PRACTICES AS OUTLINED BELOW WILL BE IMPLEMENTED IN ORDER TO DECREASE THE POSSIBILITY OF SUCH OCCURRANCES.

1. CONTROLLED DRILLING OF CONDUCTOR AND SURFACE HOLES WILL BE REQUIRED TO AVOID SUBJECTING FORMATIONS TO INCREASED HYDROSTATIC PRESSURES.

2. SWAB/SURGE PRESSURES WILL BE CALCULATED AND USED TO AVOID DECREASES / INCREASES IN HYDROSTATIC PRESSURE RESULTING IN INFLUXES/LOST CIRCULATION.

FORMATION EVALUATION:

SEE ATTACHED FORMATION EVALUATION PROGRAM.

MUD PROGRAM

THE CONDUCTOR & SURFACE HOLE SECTIONS WILL BE DRILLED WITH SEAWATER & BENTONITE SWEEPS. THE INTERMEDIATE & PRODUCTIVE HOLE SECTIONS WILL BE DRILLED WITH A LOW SOLIDS/NON-DISPERSED SEAWATER SYSTEM.

MAINTAIN DRILLING FLUIDS AS FOLLOWS:

INTERVAL	TYPE	MUD WT.	PH	W/L (cc)
1000-1640	SEAWATER/GEL	8.6-9.0	9.5-10.5	N/C
1640-3400	SEAWATER/GEL	8.6-9.0	9.5-10.5	N/C
3400-9372	SEAWATER/DRISPAC	8.9-9.4	10-11	LESS THAN 10
9372-10559	LSND/GEL/BENEX	8.7-9.3	10-10.5	10-14

NOTE: DO NOT ADD ANY TORQUE REDUCING MATERIAL WITHOUT DRILLING SUPERINTENDENT APPROVAL.

ELEVATION

WATER DEPTH		430'
DERRICK FLOOR	MLLW	133'
DERRICK FLOOR - OCEAN FLOOR		563'

ESTIMATED WELL CORRELATIONS

MARKER	M.D.	V.D.	VSS	BOF-TVD	EST. FM PRESS PSI	FRAC GRAD PSI/FT	OVRBAL W/9.0 PPG PSI	OVRBAL W/10.0 PPG PSI
TOP DEFORMATION	2340	2313	-2180	1750	981	.58	101	222
SISQUOC - S1	5609	4708	-4575	4145	2059	.65	144	389
S4	8424	6713	-6580	6150	2961	.66	181	530
MONTEREY - M1	9232	7288	-7155	6725	3220	.67	191	570
M4	10173	7958	-7825	7395	3521	.67	203	617
TOTAL DEPTH	10559	8233	-8100	7670	3645	.67	208	636

PRESENT CONDITIONS

24", 201.09#, X-52, .8125" WALL, (22.376" I.D.) CONDUCTOR CEMENTED AT APPROXIMATELY 1030' MD & VD (467' BOF).

28" I.D. LOWER RISER MADE UP TO THE 24" CONDUCTOR HOUSING & DIVERTER LINES & VALVES IN PLACE WITH DIVERTER SPOOL MADE UP TO THE TOP OF THE LOWER RISER SECTION.

PROGRAM

1. SKID RIG OVER SLOT NO. 4

2. RUN AND MAKE UP UPPER 28" I.D. RISER SECTION TO DIVERTER SPOOL.

3. INSTALL 29 1/2" HYDRIL 500 PSI ANNULAR PREVENTER AND PITCHER NIPPLE.

4. RIH WITH 22" BIT TO 24" FLOAT COLLAR OR TOP OF CEMENT. CLOSE ANNULAR PREVENTER. RECORD CLOSING VOLUME & TIME. FUNCTION TEST DIVERTER SYSTEM BY PUMPING SEAWATER THRU LINES IN EITHER DIRECTION & IN-CONJUNCTION. RECORD OPENING/CLOSING VOLUMES & TIMES FOR THE MAIN & BOTH OVER BOARD DIVERTER VALVES. WITH MAIN DIVERTER VALVE CLOSED, PRESSURE TEST THE 24" CONDUCTOR CASING TO 200 PSI FOR 15 MINS. PRESSURE TEST THE DIVERTER LINES & OVERBOARD VALVES 200 PSI. DRILL OUT CEMENT IN THE 24" CONDUCTOR WITH 22" BIT.

5. DRILL A 14 3/4" VERTICAL HOLE TO 1500 MD/VD. DIRECTIONALLY DRILL FROM KOP OF 1500' TO THE 18 5/8 CASING POINT OF 1640.1 MD 1640 VD. KEEP HOLE WITHIN A 3' RADIUS. (CALCULATE FROM MUDLINE).

6. LOG AS NECESSARY PER FORMATION EVALUATION PROGRAM.

7. OPEN HOLE FROM 14 3/4" TO 22" WITH A FIXED HOLE OPENER WITH A BULL NOSE.

8. RUN A FOUR ARM CALIPER.

9. RUN, LAND, AND CEMENT THE 18 5/8", 117.5#, K-55, BUTTRESS CASING NEAR BOTTOM AS FOLLOWS:

   A. CASING TO BE EQUIPPED WITH A FLOAT SHOE ON BOTTOM AND A STAB-IN FLOAT COLLAR ON BOTTOM OF THE SECOND JOINT.

   B. PLACE 18 5/8" X 22" KK-6 (OR EQUIVALENT) CENTRALIZERS 5' AND 20' FROM THE 18 5/8" SHOE, THEN ONE PER JOINT TO THE 24" CONDUCTOR SHOE. PLACE 18 5/8" RIGID TYPE CENTRALIZERS EVERY JOINT FROM THE 24" CONDUCTOR SHOE TO THE SURFACE.

   C. 18 5/8" CASING TO BE RUN WITH A McEVOY ANNULAR SEALING MANDREL WITH 18 5/8" STUB ABOVE HANGER AND THREADED FOR 18 5/8" BUTTRESS. LAND HANGER IN 24" CONDUCTOR HOUSING. TEST ANNULAR SEAL TO 200 PSI.

D. STAB IN TO FLOAT COLLAR AND ESTABLISH CIRCULATION TAKING RETURNS OUT BOTH 3" OUTLETS ON THE 24" HOUSING.

E. SPECIFICATIONS FOR PRE-FLUSHES TO TO BE PROVIDED LATER.

F. CEMENT 18 5/8" CASING THROUGH SHOE NEAR BOTTOM AS FOLLOWS:

1) LEAD SLURRY TO BE CLASS 'G' W/16% BENTONITE, 12.5 LB/SX GILSONITE & 4% CALCIUM CHLORIDE AT 12.2 PPG MIXED WITH FRESH WATER TO FILL THE ANNULUS FROM 250' ABOVE THE SHOE TO THE OCEAN FLOOR.

2) TAIL SLURRY TO CONSIST OF CLASS 'G' CEMENT AT 15.8 PPG MIXED WITH SEAWATER. VOLUME SUFFICIENT TO FILL BOTTOM 250'.

NOTE: FOR BOTH LEAD & TAIL SLURRIES USE CEMENT ADDITIVES AS NECESSARY TO OBTAIN <650 CC/MIN FLUID LOSS AND <1.4% FREE WATER AT BHCT.

COMPRESSIVE STRENGTH OF LEAD TO BE 60 PSI AT 24 HRS AND OF TAIL TO BE 500 PSI AT 12 HRS/1500 PSI. DOWELL TO PLOT TEST CEMENTS PER SCD TEST STANDARDS.

G. IN ORDER TO MONITOR THE 18 5/8" X 24" ANNULUS PRESSURE, INSTALL A GAUGE IN THE 3" VALVE ON THE 24" HOUSING.

10. DISCONNECT NORTH-SOUTH DIVERTER LINE FROM DIVERTER SPOOL. MAKE BREAK BETWEEN MAIN DIVERTER VALVE AND OUTLET ON DIVERTER SPOOL. BACK OUT LOCKSCREWS ON LOWER OVERSHOT AND PICK UP 28" I.D. RISER AND REMOVE FIRST LOWER RISER SPACER/McEVOY OVERSHOT FROM 24" HOUSING. INSTALL NATIONAL 20 3/4" 3000 PSI CASING HEAD AND SECOND LOWER RISER SPACER. LOWER 28" ID RISER BACK DOWN AND SECURE McEVOY OVERSHOT AT BOTTOM OF RISER TO SECOND LOWER RISER SPACER WITH LOCKSCREWS.

11. DRILL OUT CEMENT TO WITHIN 15' OF THE 18 5/8" CASING SHOE. PRESSURE TEST THE 18 5/8" CASING, 20 3/4" CASING HEAD, OUTLET VALVES, 28" I.D. RISER SYSTEM, MAIN DIVERTER VALVE AND 29 1/2" ANNULAR PREVENTER TO 350 PSI FOR 30 MINUTES. TO BE RECORDED FOR MINERALS MANAGERMENT SERVICE.

12. RUN A "RATE" GYRO MULTISHOT INSIDE DRILL PIPE FROM SHOE TO MUDLINE.

13. DRILL A 17" HOLE TO A MAXIMUM OF 49' BELOW THE 18 5/8" CASING SHOE. PULL INTO THE 18 5/8" CASING AND MAKE A LEAKOFF TEST. CLOSE 29 1/2" ANNULAR PREVENTER AND APPLY PRESSURE AS SLOWLY AS POSSIBLE USING CEMENTING UNIT UNTIL PRESSURE LEAKOFF IS OBTAINED. DO NOT EXCEED A BOTTOM HOLE PRESSURE OF 918 PSI (0.56 PSI/FT ESTIMATED FRACTURE GRADIENT) AT THE CASING SHOE. SHUT IN FOR TEN MINUTES AND RECORD PRESSURE LOSS. RECORD LEAKOFF TEST ON PRESSURE RECORDER CHART.

NOTE: THE LEAKOFF PRESSURE IS THE PRESSURE AT WHICH THE FORMATION OF THE CASING SHOE FIRST TAKES FLUID - NOT THE VALUE AT WHICH THE PRESSURE STABILIZES AFTER BLEEDING BACK.

14. DIRECTIONALLY DRILL A 17" HOLE TO 2987 MD/ 2841 VD THEN HOLD ANGLE AND DIRECTION TO CASING POINT OF 3400' MD/3135' VD.

15. RUN OPEN HOLE LOGS PER FORMATION EVALUATION PROGRAM. USE A PACK OFF.

16. RUN, LAND & CEMENT 13 3/8", 72#, L-80, BUTTRESS CASING NEAR BOTTOM AS FOLLOWS:

A. CASING STRING TO BE AS FOLLOWS:
0'-200' 13 3/8" 72#, L-80, SEAL TECH SUPER ST/L FLUID JT (5 JTS)
200'-3400' 13 3/8", 72#, L-80, BUTTRESS

B. CASING TO BE EQUIPPED WITH A FLOAT SHOE ON BOTTOM AND A FLOAT COLLAR ON BOTTOM OF THE THIRD JOINT.

C. PLACE 13 3/8" X 17" BOW TYPE CENTRALIZERS 5', 25', 45', AND 65' FROM THE 13 3/8" CASING SHOE, THEN ONE EVERY OTHER JOINT TO THE 18 5/8" SHOE. PLACE 13 3/8" X 17" RIGID TYPE CENTRALIZERS 10', 130', 250' AND 370' ABOVE THE 18 5/8" SHOE.

D. SPECIFICATIONS FOR PREFLUSH WILL BE PROVIDED LATER.

E. CEMENT 13 3/8" CASING THRU SHOE NEAR BOTTOM AS FOLLOWS:

1) LEAD SLURRY TO CONSIST OF CLASS 'G' WITH 16% BENTONITE, 12.5 LB/SX GILSONITE TO 12.34 PPG WITH SEAWATER. VOLUME TO BE SUFFICIENT TO FILL THE ANNULUS FROM 500' ABOVE THE 13 3/8" SHOE TO THE MUDLING. USE ADDITIVES AS NECESSARY TO OBTAIN:

a. FLUID LOSS <600 CC/MIN.
b. FREE WATER = TR.% AT BHCT.
c. COMPRESSIVE STRENGTH = 300+ PSI.

2) TAIL SLURRY TO CONSIST OF CLASS 'G' CEMENT MIXED TO 15.8 PPG WITH FRESH WATER. VOLUME TO BE SUFFICIENT TO FILL BOTTOM 500'. USE CEMENT ADDITIVES AS NECESSARY TO OBTAIN:

a. FLUID LOSS <175 CC/MIN.
b. FREE WATER = TR.% AT BHCT.
c. COMPRESSIVE STRENGTHS OF 500 PSI @ 12 HRS/2000 PSI @ 24 HRS

F. DOWELL TO PILOT TEST CEMENT PER SCD CEMENT TEST STANDARDS.

G. USE BOTH TOP AND BOTTOM PLUGS.

H. IN ORDER TO MONITOR THE 13 3/8" x 18 5/8" ANNULUS PRESSURE, INSTALL A GAUGE IN THE 2" VALVE ON THE 18 5/8" WELLHEAD.

17. HANG OFF THE 13 3/8" CASING IN THE 3000 PSI WELLHEAD USING A NATIONAL AUTOMATIC SLIP-TYPE HANGER. TEST ANNULAR SEAL TO 3000 PSI OR 80% OF THE 13 3/8" COLLAPSE WHICHEVER IS LESS.

18. BACK OUT THE TOP SECTION OF THE 13 3/8" LANDING JOINT. EXTERNALLY CUT 13 3/8" CASING USING A 16" OUTSIDE CUTTER. NIPPLE DOWN THE 29 1/2" 500 PSI ANNULAR PREVENTER. DISCONNECT THE DIVERTER SYSTEM & PULL 28" RISER.

    NOTE: WHILE DRILLING THE REMAINDER OF THE WELL, MOVE LOWER 28' RISER SECTION, DIVERTER SPOOL AND LINES TO NEXT WELL LOCATION.

19. INSTALL THE NATIONAL 20 3/4" 3000 PSI x 13 5/8" 5000 PSI CASING SPOOL TOGETHER WITH THE NATIONAL 13 5/8" 5000 PSI x 13 5/8" 5000 PSI TUBING HEAD. NIPPLE UP THE 13 5/8" 5000 PSI RISER & 13 5/8" 5000 PSI BOPE. PRESSURE TEST WITH CUP TESTER THE CASING SPOOL, TUBING HEAD OUTLET VALVES & BOPE TO 3000 PSI. RUN WEAR BUSHING. DO NOT APPLY TEST PRESSURE TO THE 13 3/8" CASING.

20. DRILL OUT CEMENT TO WITHIN 15' OF 13 3/8" CASING SHOE. PRESSURE TEST CASING TO 1000 PSI FOR 30 MINS. TEST TO BE RECORDED FOR MINERALS MANAGEMENT SRVC.

21. RUN A "RATE" GYRO MULTISHOT INSIDE DRILL PIPE FROM SHOE TO INSIDE THE 18 5/8 CASING IN 30' STATIONS.

22. DRILL A 12 1/4" HOLE TO A MAXIMUM OF 49' BELOW THE 13 3/8" SHOE. PULL INTO THE 13 3/8" CASING & MAKE A LEAKOFF TEST. CLOSE THE BOPE & APPLY PRESSURE AS SLOWLY AS POSSIBLE USING THE CEMENT UNIT UNTIL PRESSURE LEAKOFF IS OBTAINED. DO NOT EXCEED A BOTTOM HOLE PRESSURE OF 2140 PSI (0.63 PSI/FT ESTIMATED FRACTURE GRADIENT) AT THE CASING SHOE. SHUT IN FOR 10 MINUTES & RECORD PRESSURE LOSS. RECORD LEAKOFF TEST ON PRESSURE RECORDER CHART.

23. DRILL A 12 1/4" HOLE WHILE HOLDING ANGLE AND DIRECTION TO CASING POINT OF 9372'MD/7388'VD WHICH IS APPROXIMATELY 100' BELOW THE TOP OF THE M1.

24. RUN OPEN HOLE LOGS PER FORMATION EVALUATION PROGRAM. USE A "PACK OFF" DURING ALL OPEN HOLE LOGGING OPERATIONS.

25. RUN, LAND AND CEMENT 9 5/8", 43.5#, SS-95, HYDRIL WEDGE THREAD SERIES 500/TYPE 563 CASING NEAR BOTTOM AS FOLLOWS:

    A. CASING STRING TO BE AS FOLLOWS:
    0'-200' 9 5/8" 43.5# SS-95 SEAL TECH SUPER ST/L FLUSH JT. (5 JTS)
    200'-9372' 9 5/8" 43.5# SS-95 HYDRIL WEDGE THREAD TYPE 563

    B. CASING TO BE EQUIPPED WITH A FLOAT SHOE ON BOTTOM & A FLOAT COLLAR ON BOTTOM OF THE THIRD JOINT.

    C. PLACE TWO 9 5/8" x 13 3/8" BOW TYPE CENTRALIZERS ON SHOE JOINT, THEN ONE EVERY OTHER JOINT TO THE 13 3/8" SHOE. PLACE 9 5/8" x 12 1/4" RIGID TYPE CENTRALIZERS 10', 130', 250', & 370' ABOVE THE 13 3/8" CASING SHOE.

D. SPECIFICATIONS FOR PREFLUSH WILL BE PROVIDED LATER.

E. CEMENT 9 5/8" CASING AS FOLLOWS:

1) LEAD SLURRY TO CONSIST OF CLASS 'G' WITH 16% BENTONITE, 12.5 LB/SX GILSONITE WITH FRESH WATER AT 12.2 PPG VOLUME TO BE SUFFICIENT TO FILL FROM 1000' ABOVE THE 9 5/8" SHOE TO 400' ABOVE THE 13 3/8" SHOE. USE CEMENT ADDITIVES AS NECESSARY TO OBTAIN:

a. FLUID LOSS <300 CC/MIN.
b. FREE WATER = 0% AT BHCT.
c. COMPRESSIVE STRENGTH = 300+ PSI.

2) TAIL SLURRY TO CONSIST OF CLASS 'G' CEMENT MIXED TO 15.9 PPG WITH FRESH WATER. VOLUME TO BE SUFFICIENT TO FILL 1000' ABOVE THE 9 5/8" SHOE. USE CEMENT ADDITIVES AS NECESSARY TO OBTAIN:

a. FLUID LOSS <100 CC/MIN.
b. FREE WATER = 0% AT BHCT.
c. COMPRESSIVE STRENGTHS OF 500 PSI @ 12 HRS/3000 PSI @ 24 HRS

F. DOWELL TO PILOT TEST CEMENT PER SCD CEMENT TEST STANDARDS.

G. USE BOTH TOP AND BOTTOM PLUGS.

H. RECIPROCATE CASING THROUGHOUT MIXING & DISPLACEMENT OF CEMENT IF POSSIBLE.

I. IN ORDER TO MONITOR THE 9 5/8" x 13 3/8" ANNULUS PRESSURE, INSTALL A GAUGE ON SAME. KEEP VALVES CLOSED WHEN NOT MONITORING FOR PRESSURE.

26. LOWER SLIP-TYPE HANGER WITH SEAL ASSEMBLY & HANG OFF 9 5/8" CASING IN THE 20 3/4" 3000 PSI x 13 5/8" 5000 PSI CASING SPOOL. TEST ANNULAR SEAL TO 3000 PSI OR 80% OF THE 9 5/8" COLLAPSE WHICHEVER IS LESS.

27. SWALLOW THE 9 5/8" CASING WITH A MECHANICAL CUTTER RUN ON 11 3/4" CASING. EXTERNALLY CUT 9 5/8" CASING INSIDE THE TUBING HEAD. PULL CUTTER. REMOVE THE 9 5/8" CASING STUB. INSTALL SECONDARY SEAL AND TEST SAME TO 5000 PSI OR 80% OF THE 9 5/8" CASING COLLAPSE WHICHEVER IS LESS.

28. PRESSURE TEST BOPE TO 5000 PSI. (TEST ANNULAR PREVENTER TO 3500 PSI.) MINERALS MANAGEMENT SERVICE TO WITNESS AND APPROVE TEST. DO NOT APPLY TEST PRESSURE TO 9 5/8" CASING. RUN WEAR BUSHING.

29. DRILL OUT CEMENT TO WITHIN 15' OF 9 5/8" CASING SHOE. PRESSURE TEST CASING TO 2500 PSI FOR 30 MINS. TEST TO BE RECORDED FOR MINERALS MANAGEMENT SRVC.

30. RUN A "RATE" GYRO MULTISHOT INSIDE DRILLPIPE FROM SHOE TO INSIDE THE 13 3/8" SHOE.

31. DRILL 8 1/2" HOLE TO A MAXIMUM OF 49' BELOW THE 9 5/8" SHOE. PULL INTO THE 9 5/8" CASING & MAKE A LEAKOFF TEST. CLOSE THE BOPE & APPLY PRESSURE AS SLOWLY AS POSSIBLE USING THE CEMENTING UNIT UNTIL PRESSURE LEAKOFF IS OBTAINED. DO NOT EXCEED A BOTTOM HOLE PRESSURE OF 4950 PSI (0.67 PSI/FT ESTIMATED FRACTURE GRADIENT) AT THE CASING SHOE. SHUT IN FOR 10 MINS & RECORD PRESSURE LOSS. RECORD LEAKOFF TEST ON PRESSURE RECORDER CHART.

NOTE: THE LEAKOFF PRESSURE IS THE PRESSURE AT THE WHICH THE FORMATION AT THE CASING SHOE FIRST TAKES FLUID - NOT THE VALUE AT WHICH THE PRESSURE STABILIZES AFTER BLEEDING BACK.

32. DRILL AN 8 1/2" HOLE WHILE HOLDING ANGLE AND DIRECTION TO TOTAL DEPTH OF 10559'MD/8233'VD.

33. RUN OPEN HOLE LOGS PER FORMATION EVALUATION PROGRAM. USE A "PACK OFF" DURING ALL OPEN HOLE LOGGING OPERATIONS.

34. RUN, LAND & CEMENT 7", 26.5#, L-80, BUTTRESS/HYDRIL 521 LINER NEAR BOTTOM WITH TOP NEAR 8972' MD (RUN 400' OF LAP INTO 9 5/8" CSG) AS FOLLOWS:

A. CASING TO BE EQUIPPED WITH A FLOAT SHOE ON BOTTOM AND A FLOAT COLLAR ON BOTTOM OF THE THIRD JOINT, 2-20' FLAG JOINTS, AND A 7" x 9 5/8" 43.5# PLAIN LINER HANGER GROOVED FOR CEMENTING ON TOP. LINER HANGER TO BE EQUIPPED WITH A TIE BACK RECEPTACLE.

B. PLACE TWO 7" x 8 1/2" BOW TYPE CENTRALIZERS ON SHOE JOINT AND ONE EVERY OTHER JOINT TO 180' ABOVE THE SHOE OF THE 9 5/8" CASING.

C. PRECEDE CEMENT WITH SUFFICIENT PRE FLUSH TO INSURE PROPER MUD REMOVAL. WEIGHT PRE FLUSH AS NECESSARY TO MAINTAIN HYDROSTATIC PRESSURE.

D. CEMENT 7" LINER THROUGH SHOE NEAR BOTTOM WITH SUFFICIENT CEMENT TO FILL 200' ABOVE LINER LAP INTO THE 9 5/8" CASING. SLURRY TO BE CLASS 'G', 35% SILCA FLOUR TO 16.0 PPG WITH FRESH WATER.

1) FLUID LOSS <80 CC/MIN.
FREE WATER = 0%
COMPRESSIVE STRENGTHS OF 500 PSI AT 12 HRS/3000 PSI AT 20 HRS

E. DOWELL TO PILOT TEST CEMENT PER SCD CEMENT TEST STANDARDS.

F. PULL OUT OF HOLE WITH CEMENTING ASSEMBLY: DO NOT REVERSE CIRCULATE. DO NOT RUN IN HOLE TO DRILL OUT CEMENT UNTIL SUFFICIENT COMPRESSIVE STRENGTH HAS BEEN OBTAINED BASED ON STRENGTH TESTS.

G. DURING ABOVE W.O.C. PERIOD, A PROGRAM WILL BE FURNISHED TO TEST BOPE, INSPECT BOTTOM HOLE ASSEMBLY, & PERFORM OTHER MAINTENANCE OR INSPECTION TASKS.

35. CLEAN OUT 9 5/8" CASING AND 7" LINER TO TOP OF FLOAT COLLAR.

36. RUN A CBL-VDL-GR-CCL FROM EFFECTIVE DEPTH TO TOP OF LINER.

37. PRESSURE TEST LINER AND LINER LAP TO 2500 PSI FOR 30 MINUTES. TEST TO BE RECORDED FOR MINERALS MANAGEMENT SERVICE.

38. IF INDICATED MAKE A FLUID ENTRY TEST ON LINER LAP.

39. COMPLETE AS PER COMPLETION PROGRAM. PROGRAM WILL BE PROVIDED.

C. R. KRUMMRICH C. R. Krummrich

DRILLING SUPERINTENTENT: WRR/JRSwenson 23 OCT 87

CRK/AMJ 10-22-87

ANTICIPATED SURFACE PRESSURE

WELL NO. HIGH

A. CASING (IN.)	24	18-5/8	13-3/8	9-5/8	7
B. SETTING DEPTH (TVD FT)	1030	1640	3135	7388	8233
C. NEXT CASING POINT (VSS FT)	1507	3002	7255	8100	N/A
D. MAXIMUM MUD WEIGHT (PPG)	8.7	9.0	9.2	9.2	9.2
E. MAXIMUM FORMATION PRESSURE (PPG)	8.7	8.7	8.7	8.7	8.7
F. MAXIMUM FORMATION PRESSURE (PSI)	682	1358	3282	3665	---
G. SURFACE PRESSURE (PSI) NEGLECTING (J)	644	1213	2505	2762	---
H. FRACTURE PRESSURE AT SHOE (PPG)	9.5	10.7	11.7	12.8	12.8
I. FRACTURE GRADIENT AT SHOE (PSI/FT)	.495	.56	.61	.67	.67
J. FRACTURE PRESSURE AT SHOE (PSI)	510	919	1913	4950	5517
K. AVERAGE GAS GRADIENT(PSI/FT)	.02	.046	.105	.109	.109
L. SURFACE PRESSURE WHEN SHOE BREAKS DOWN (PSI)	489	848	1618	4196	4677
M. MAXIMUM ANTICIPATED SURFACE PRESSURE	489	848	1618	2762	---

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C. ("B" FOR NEXT CASING STRING) - (AIR GAP OR 133 FT)

D. FROM OFFSET WELLS

E. 0.45 PSI/FT / 0.052

F. (C) * (E) * 0.052 S.G. = .75

G = 1) LESS THAN 2500' = (BHP OR "F") - (0.03075 * S.G. * TVD)
2) OVER 2500' = (TVD OR "B") * [(-.161 * S.G.) + (0.0488 * E)] + 260

H. FROM OFFSET WELL DATA IN THE POINT ARGUELLO FIELD

I. (H) * (0.052)

J. (I) * (B)

K. (F - G) / ("B" FOR NEXT CASING STRING)

L. J - (K * B)

M. LESSER OF G OR L

PLATFORM HIDALGO

OCS-P-0450 WELL NO. C-1 HIGH CASING SPECIFICATIONS

SIZE (IN)	24	18.625	13.375	13.375	9.625	9.625	7	7
WT/FT	201.09	117.5	72	72	43.5	43.5	26	26
GRADE	X52	K-55	L-80	L-80	SS-95	SS-95	L-80	L-80
THREADS	RL4	BUTT	BUTT	ST/L	563	ST/L	BUTT	521
ID (IN)	22.376	17.439	12.347	12.347	8.705	8.675	6.276	6.276
DRIFT DIA.(IN)	22.185	17.251	12.191	12.191	8.599	8.599	6.151	6.151
WALL THICKNESS(IN)	0.812	0.593	0.514	0.514	0.435	0.435	0.362	0.362
COLLAPSE (PSI)	1685	1500	2670	2670	5600	5600	5410	5410
BURST (PSI)	2300	3060	5380	5380	6330	6330	7240	7240
JT. STRENGTH (KIPS)	2433	1929	1650	1163	1080	835	641	514
PE STRENGTH (KIPS)	3074	1848	1661	1661	1005	1005	604	604
SAFETY FACTORS								
COLLAPSE		1.797	1.820	25.616	1.551	47.210		
BURST		4.146	2.138	2.081	2.255	2.200		
TENSION		2.196	3.423	5.508	2.226	2.392		

NOTE: 1. ST/L DENOTES SEALTECH SUPER FLUSH JOINT CONNECTION.

2. 563 DENOTES HYDRIL 563 WEDGE THREAD CONNECTION.

3. BUTT DENOTES BUTTRESS CONNECTION.

4. 521 DENOTES HYDRIL 52` WEDGE THREAD CONNECTION.

5. SAFETY FACTORS REPRESENT THE MINIMUM THAT THE CASING STRING WILL BE SUBJECT TO.

CRK 10-12-87

OCS - P - 0450 C-1 (HIGH)
POINT ARGUELLO - PLATFORM HIDALGO
Proposed Casing and Cementing Program

Size of Hole	Size & Grade of Casing	Weight per ft.	Setting Depth	Cement
**467'	30"	24" x 52	201#	1030'	1680 cu. ft. Class G + $CaCl_2$ + 2 GHS FP-6L Yield 1.12 cu. ft./Sx
**1077'	22"	18 5/8" K-55	117.5#	1640'	Lead 710 cu. ft. Class G + 16% Bentonite + 12.5#/Sx Gilsonite + 4% $CaCl_2$ + Additives Yield 2.59 cu. ft./Sx Tail 215 cu. ft. Class G + Additives Yield 1.14 cu. ft./Sx
**2572'	17"	13 3/8" L-80	72#	3400'	Lead 1615 cu. ft. Class G + 16% Bentonite + 12.5#/Sx Gilsonite + Additives Yield 2.50 cu. ft./Sx Tail 345 cu. ft. Class G + Additives Yield 1.14 cu. ft./Sx
**6825'	12 ¼"	9 5/8" SS-95	43.5#	9372'	Lead 1935 cu. ft. Class G + 16% Bentonite + 12.5#/Sx Gilsonite + Additives Yield 2.59 cu. ft./Sx Tail 360 cu. ft. Class G + Additives Yield 1.14 cu. ft./Sx
**7670'	8 ½"	7" L-80 Liner	26#	8972-10,559'	315 cu. ft. Class G + 35% Silica flour + Additives Yield 1.50 cu. ft./Sx

NOTE: Volume is based on open hole annular capacities (calculated from the caliper log) plus 15% excess, except for 24" casing which is based on 100% excess.
Cement additive types and volume are to change as dictated by hole conditions.

** = Below Ocean Floor (VD)

CRK:naj
11/12/87

OCS-P-0450
POINT ARGUELLO

In reference to OCS Order No. 2, Paragraph 6.3 Mud Quantities:

Total Platform Hidalgo Mud Quantity Capability
and Emergency Mud Quantity Supply Capability

Total active liquid circulation system on Platform:	800 bbls.
Reserve liquid mud storage on Platform:	900 bbls.
Standby liquid completion fluid storage:	450 bbls.
Liquid mud storage available on supply boat	1,200 bbls.
Total Liquid Mud Available:	3,350 bbls.

Available Dry Bulk Barite

On Platform Hidalgo:	
1-2500 sack pneumatic pod:	2,500 sacks
On Supply Boat:	
2-1250 sack pneumatic pods:	2,500 sacks
Supply on shore:	10,000+
Total:	15,000+

Estimated Time Required for Emergency Delivery of
Mud Supplies by Supply Boat from Port Hueneme

Time required to load boat:	1 hour
Boat travel time to Platform:	8 hours
Time to unload boat:	½ hour
Total time required:	9.5 hours

CRK:naj
10/13/87

OCS-P-0450 C-1 (HIGH)
POINT ARGUELLO - PLATFORM HIDALGO

Data Required for OCS Order No. 2, Paragraph 6.3 (Mud Quantities)

Depth	Hole Size	Volume of Hole (Barrels)	Total Circulation System * (Barrels)	Size Casing and Depth	Volume of Casing (Barrels)	Mud Weight PPG	Drilling Fluid Formulation Product	LB/Barrel	Material Required To Make Total System Sacks	Package Size
1640'	22"	770	1570	18-5/8" at 1640'	490	8.8	Caustic Soda	0.5	16	50#
							Benex	0.1	79	2
							Bentonite	12	189	100
3400'	17"	990	1790	13-3/8" at 3400'	500	9.0	Bentonite	12	215	100
							Caustic Soda	0.5	18	50
							Benex	0.1	90	2
							Barite	11	197	100
9,372'	12-1/4"	1370	2170	9-5/8" at 9,372'	690	9.0	Bentonite	14	304	100
							Soda Ash	0.05	2	100
							Potass. Hydro.	0.5	22	50
							Barite	11	239	100
							Drispac	0.5	22	50
							X-Pel-G	2.0	87	50
							DMS	0.1	7 gal	5
10,559'	8-1/2"	775	1575	7" at 8972-10,559'	750	8.8	Bentonite	14	221	100
							Benex	.1	79	2
							Soda Ash	0.05	1	100
							Potass. Hydro.	0.5	16	50
							Cypan	0.5	16	50

* Volume of Hole = Open Hole Volume + Volume of Last Casing Set

** Includes 500 barrels active surface circulation system.

CRK:naj
10/13/87

I. FORMATION EVALUATION PROGRAM—MUDLOG

Attach to Drilling Program (Pro 316-1)

PROPERTY: OCS-P-0450
WELL: C - 1 (HIGH)
FIELD: POINT ARGUELLO
PLATFORM: HIDALGO
OPERATOR: CHEVRON USA

DEVELOPMENT PRODUCER

WELL SECURITY CLASSIFICATION: *** CONFIDENTIAL ***

MUDLOG SERVICES*

SERVICE COMPANY: EXLOG
(805) 656-1941

INTERVAL: 1,000' to 10,560' (9,560') MD

SERVICE: FEL -- Formation Evaluation Log (Mudlog) includes gas (Flame ionization) detector and continuous chromatograph (C1-C5).

H2S -- Detection (below shoe of 13-3/8" casing).

SDP -- Selected Drilling Parameters.

CIRCULATING INSTRUCTIONS: Do not routinely circulate out drilling breaks.

SPECIAL INSTRUCTIONS: No cores or open hole tests are anticipated.

DAILY REPORTS

During drilling these will consist of the following and will be sent by EXLOG using satellite communications system or Panafax by 0730 hours daily:

MUDLOG (2"). A 5" version of the mudlog as requested at wireline logging points.

OIL OR GAS SHOW EVALUATION SHEET
DAILY WELL REPORT
MWD LOG (2") if MWD run.

WELL REPORT

Each report should list all services which will be charged to the well for that day.

For additional information pertaining to the above items, please refer to the letter of instruction (to follow).

cc: EXLOG
MR. E. GUENARD

AREA GEOLOGIST: H.P. Bar

DATE: 10/7/87

APPROVED: J.H. Yeoh

FormEval/4

PROPERTY: OCS-P-0450
WELL: C - 1 (HIGH)
FIELD: POINT ARGUELLO
PLATFORM: HIDALGO
OPERATOR: CHEVRON USA

WELL SECURITY CLASSIFICATION: *** CONFIDENTIAL ***

WIRELINE SERVICES

SERVICE COMPANY: ATLAS
(805) 656-4841

SUITE 1		SUITE 2	
LOGS @ PROP. DEPTH OF 18-5/8" CSG SHOE BIT SIZE 14-3/4", MAX. DEV. 0°		LOGS @ PROP. DEPTH 18-5/8" CSG SHOE AFTER OPENING HOLE BIT SIZE 22", MAX. DEV. 0°	
INTERVAL: 1,640' to 1,000' (640') MD		1,640' to 1,000' (640') MD	
SERVICES	HRS	SERVICES	HRS
DLL-MLL	2.7	4 ARM CALIPER	2.8
CDL*-CNL*-BHC*	3.4		
SUITE TOTAL:	2.7	SUITE TOTAL:	2.8
W/OPTIONS:	6.1		

*OPTIONAL - CONTINGENT ON MUDLOG SHOWS (BHC FOR GAS).

WELL: C - 1 (HIGH)
FIELD: POINT ARGUELLO

SUITE 3

LOGS @ PROP. DEPTH OF 13-3/8" CSG SHOE
BIT SIZE 17", MAX. DEV. 44.5°

INTERVAL: 3,400' to 1,640' (1,760') MD

SERVICES	HRS
DLL-MLL	3.5
CDL*-CNL*-BHC*	4.3
FMT* (8)	3.5
SWS* (30)	4.0
SUITE TOTAL:	3.5
W/OPTIONS:	15.3

*OPTIONAL - CONTINGENT ON MUDLOG SHOWS (BHC FOR GAS).

SUITE 4 SISQUOC

LOGS @ PROP. DEPTH 9-5/8" CSG SHOE
BIT SIZE 12-1/4", MAX. DEV. 44.5°

9,372' to 3,400' (5,972') MD

SERVICES	HRS
DLL-MLL	6.2
CDL*-CNL*-BHC*	7.8
DIPLOG	6.5
SWS*	5.0
SUITE TOTAL:	12.7
W/OPTIONS:	25.5

*OPTIONAL - CONTINGENT ON MUDLOG SHOWS (BHC FOR GAS.

SUITE 5 MONTEREY

LOGS @ PROP. TD
BIT SIZE 8-1/2", MAX. DEV. 44.5°

INTERVAL: 10,560' to 9,372' (1,188') MD

SERVICES	HRS
DLL-MLL-MINILOG	5.1
ZDEN-CNL	5.9
BHC-FWF	7.9
DIPLOG	5.2
SWS* (30)	5.0
SUITE TOTAL:	29.1

*OPTIONAL

WELL: C - 1 (HIGH)
FIELD: POINT ARGUELLO

For additional information please refer to Appendix II, Formation Evaluation Program—Wireline, Platform Hidalgo (to follow).

For information regarding data distribution and onsite/offsite processing please refer to Appendix III and Appendix IV respectively (to follow).

REFERENCES: **(Restricted to Company Use)**

1. LOG QUALITY REFERENCE NOTES LN86000710
by J. M. Gunter and D. J. Fischer.

2. WIRELINE MEASUREMENTS GUIDE TM79000570
by J. M. Gunter

cc: ATLAS
MR. JIM WOOD

AREA GEOLOGIST: H.T. Bar

DATE: 10/7/87

APPROVED: J.S. Gish

PROPERTY: OCS-P-0450
WELL: C - 1 (HIGH)
FIELD: POINT ARGUELLO
PLATFORM: HIDALGO
OPERATOR: CHEVRON USA

WELL SECURITY CLASSIFICATION: ***CONFIDENTIAL***

MEASUREMENT WHILE DRILLING SERVICES

SERVICE COMPANY: ANADRILL
(805) 642-0145

INTERVAL 1: KICKOFF POINT TO PROPOSED 13-3/8" CASING POINT

DEPTHS: 1,500' to 3,400' (1,550' MD or 3 DAYS)

SERVICE: DIRECTIONAL SURVEY SERVICE (DSS)

INTERVAL 2: FROM SHOE OF 13-5/8" CASING

DEPTHS: 3,400' to 7,000' (3,600' MD or 8 DAYS)

SERVICE: DIRECTIONAL LOGGING SERVICE (DLS)

INTERVAL 3: FROM FLS POINT TO 9-5/8" PROP. CSG SHOE

DEPTHS: 7,000' to 9,372' (2,372' MD or 10 DAYS)

SERVICE: FORMATION LOGGING SERVICE (FLS)

INTERVAL 4: FROM 9-5/8" CSG SHOE TO TD

DEPTHS: 9,372' to 10,560' (1,188' MD or 6 DAYS)

SERVICE: DIRECTIONAL LOGGING SERVICE (DLS)

WELL: C - 1 (HIGH)
FIELD: POINT ARGUELLO

NOTES:

1. In general, the Drilling rate will not be slowed or controlled in order to maximize sampling density for MWD GR and Resistivity logs.
2. KOP 1500'. Hold angle from 2,985' MD to TD.
3. DAILY MWD LOG DISTRIBUTION

   Telecopy or RCS daily MWD log by 0730 hours each morning to:

3M Telecopier	(805) 654-7645 or 7644 (805) 654-7064 - confirmation

   FINAL MWD LOG, TAPE, AND REPORT DISTRIBUTION

   Refer to letter to Anadrill dated February 11, 1987 (revised August 11, 1987).

cc: ANADRILL
MR. A. STARKEY

AREA GEOLOGIST: T P Barr

DATE: 10/7/87

APPROVED: John S Gish

FormEval/4

CHEVRON U.S.A.

PLATFORM HIDALGO

Well C-1 (HIGH)

N 3837.82
W 4437.42

10559MD
8233VD

8000.00
7000.00
6000.00
5000.00
4000.00
3000.00
5866.82
N 49 9' W

Decl. 13 09' E



NORTH
4500
3000
1500
0
1500
3000
4500
LATITUDE VALUES

← WEST
4500
3000
1500
0
1500
DEPARTURE VALUES

0
1500
3000
4500
6000
7500
9000
TRUE VERTICAL DEPTH

Kick Off Point = 1500 ft.

3.00
12.00
21.00
30.00
39.00

3°/100'

44°36' at 2987'

8233
5866.82
44.60
10559.13 MD
N 44° 09' W

1500
0
1500
3000
4500
6000
VERTICAL SECTION

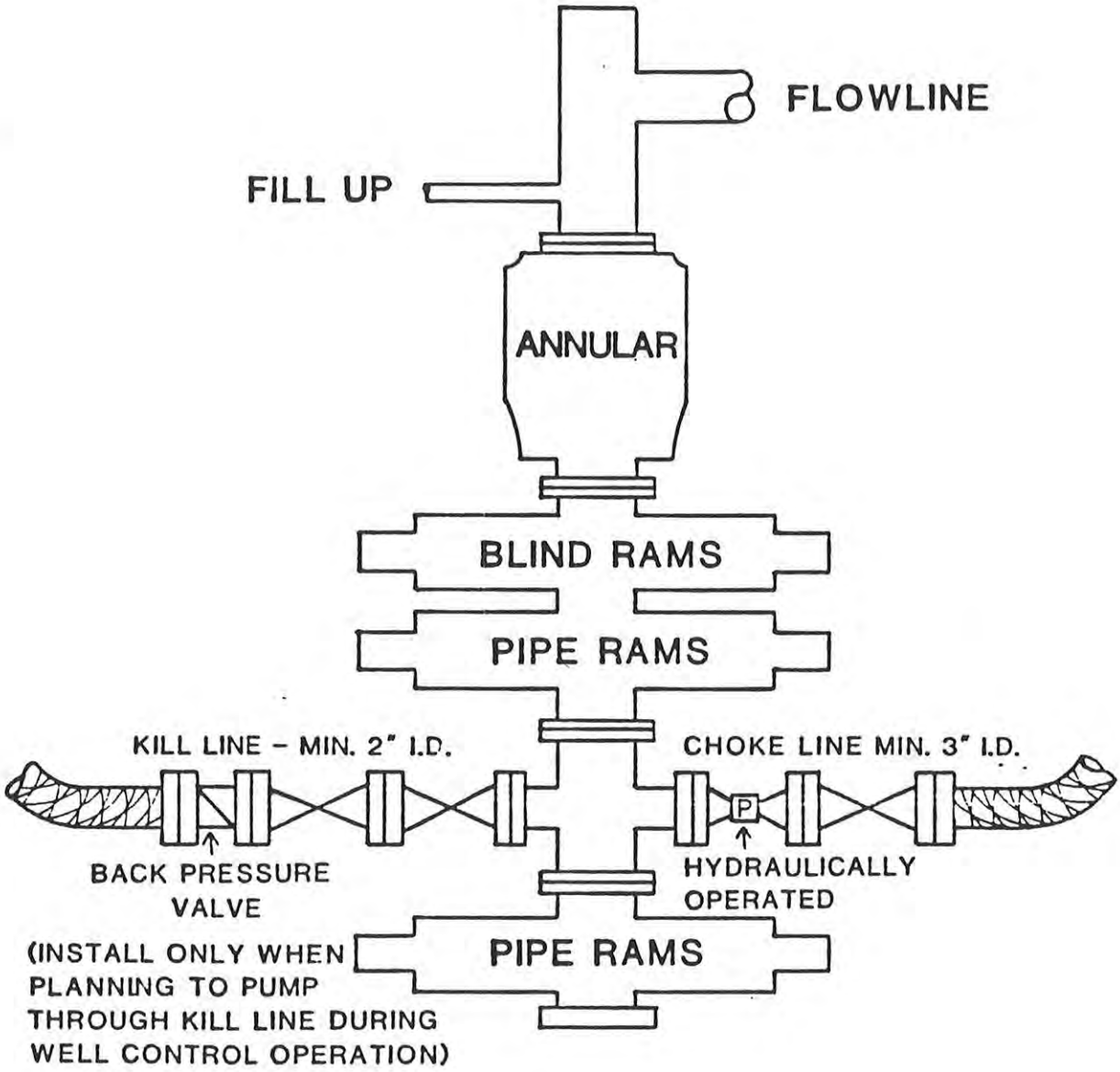


FIGURE 1

13 5/8", 5000 PSI

BOP STACK

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
NOV 24 1987
FIELD OPERATIONS
LOS ANGELES

Santa Maria District Cement Evaluation Form

Lease No: P-0450 Well No: C-1

Water Depth 420 Elevation KB 133 Operator: CHEVRON

INTERVAL From ft	To ft	Casing Run ft	Casing Size o.d. in	Casing Weight #/ft.	Hole Size in.	**Volume Factor** csg/csg cuft/lnft	csg/hole cuft/inft	**Annular Space** csg/csg ln.ft.	csg/hole in.ft.
0	1640	1640	18.63	117.5	22	0.85	0.7478	467	616
0	3400	3400	13.38	72	17	0.7	0.6006	1077	1760
0	9372	9372	9.63	43.5	12.25	0.3262	0.3132	400	5972
8972	10559	1587	7	26.5	8.5	0.1508	0.1268	400	1187

Annular Volume csg/csg cu.ft.	csg/hole cu.ft.	25% Excess open	50% Excess hole	100% Excess	**Total Annular Volume** For 25%Ex.	50%Ex.	100%Ex.	******Remarks******
								24in.STR.CSG.@1020ftRKB
397	456	570	684	912	967	1081	1309	W\1680cuftCMT.100%EXCESS
754	1057	1321	1586	2114	2075	2339	2867	
136	1870	2338	2806	3741	2469	2936	3871	
89	191	239	286	381	248	296	381	

No. Sacks and Class	% Gel	Yield cu.ft/sk	Volume cu.ft.	No. Sacks and Class	Yield cu.ft/sk	Volume cu.ft	Total Volume cu.ft
			EFF			ERF	935
			ERA			eRF	1960
			ERF			EFF	2295
			EFA			FRF	315

15%EXC.WILL QUALIFY HOLE

50%EXCESS WILL QUALIFY



MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT

******* CASING DESIGN *******

Well: [illegible] Lease NO: P-0435 Block NO 464 Area: VENTURA W.D. : 430
ELE: +8 RT

Casing String Type	Hole size in	Casing Size in OD	Interval from ft	Interval to ft	Footage ft	Casing Weight lb/ft	Grade Thread	Weight in air lbs	Actual Weight lbs	Collapse Resist. psi	Internal Yield psi	Joint Strength (*1000)
Cond.	22.00	18.63	0.00	1640.00	1640.00	117.50	K-55	192700.00	192700.00	1500.00	3060.00	1929.00
Surface	17.00	13.38	0.00	3400.00	3400.00	72.00	L-80	244800.00	244800.00	2670.00	5380.00	1163.00
Inter.	12.25	9.63	0.00	9372.00	9372.00	43.50	TCA80-563	407682.00	449737.50	4800.00	6330.00	835.00
Prod.	------	------	------	------	ERR	------	------	ERR	ERR	------	------	------
Liner	8.50	7.00	8972.00	10559.00	1587.00	26.50	L-80	42055.50	42055.50	5410.00	7240.00	514.00

Casing String Type	Body Yield lbs (*1000)	Body Tens Design Factor	Joint Tens. Design Factor	Depth to Csg. Shoe RKB TVD	TD (TVD) (RKB)	Frac Grad. @ Csg Shoe eq MW	Max Press Csg Shoe Befor Fm Brkdwn	MASP (burst) psi	MW @ TD or nxt full strng csg pt #/gal	Hydrolic Gradient psi/ft	Hydrostat Press. (BHP) psi	Height of Shut in gas column ft
Cond.	1848.00	9.59	10.01	1640.00	*********	10.70	955.14	791.14	********\

Kozier

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
SANTA MARIA DISTRICT OFFICE
222 W. CARMEN LANE, SUITE 201
SANTA MARIA, CA 93454

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
RECEIVED
NOV 24 1987
FIELD OPERATIONS
LOS ANGELES

November 19, 1987

Memorandum

To: District Supervisor, Santa Maria District

From: District Geologist, Santa Maria District

Subject: Geologic Hazards Analysis for Development Well APD (Proprietary)

Operator: Chevron Lease OCS-P: 0450

Field: Pt. Arguello Unit: N/A

Platform: Hidalgo Well No: C-1 Slot No: 4

Location: Surface X = 710,995.44m Y = 3,819,240.18m UTM Zone 10

Top Prod. Int. X = 709,857.68m Y = 3,820,224.2m

Bottom Hole X = 709,642.91m Y = 3,820,409.95m

KB Elev: 133' Total Depth: MD: 10,559' TVD: 8233'

Water Depth: 430' Closest Well: 0450 #3 BHL is ≈ 300' SW of the BHL of C-1

1. Geologic marker horizons

Formation	Age	Depth, RKB MD	TVD	Depth, SS
top Foxen	Pliocene	2340'	2313'	-2180'
Sisquoc S-1	Pliocene	5609'	4708'	-4575'
Sisquoc S-4	Miocene	8424'	6713'	-6580'
Monterey M-1	Miocene	9232'	7288'	-7155'
Monterey M-4	Miocene	10,173'	7958'	-7825'
TD	Cretaceous	10,559'	8233'	-8100'

2. Potential Oil or Gas Reservoirs, depth/thickness

Formation	Age	Depth, RKB MD	TVD	Depth, SS	Thickness	Hydrocarbon Type
Foxen	Plio	2340'	2313'	-2180'	≈ 250-300'	Gas
Monterey	Mio	9232'	7288'	-7155'	≈ 950' vert.	Oil

The well will be drilled toward the crest of the northwest-trending anticline with the bottom hole location near the 0450 #3 well. Oil gravities in the 0450 wells in this northern part of the structure ranged from 29-33.5° API; H_2S concentrations averaged 4500 ppm. The oil/water contact is anticipated at -8150' SS. The Foxen section is not anticipated to have significant gas in this well; however, it will be logged and monitored for gas shows with the mud logging commencing at the 24" shoe and a resistivity log run through the Foxen.

3. Possible fresh or salt water flows, depth/thickness

According to the DPP, no fresh water bearing formations were encountered below 630' (log data confirms this observation); sediments above this depth are primarily impermeable silts with some fresh interstitial water. Wells to date on 0450 have not penetrated any fresh water zones.

4. Possible lost circulation zones, depth/thickness

Lost circulation is a persistent problem in the Pt. Arguello field. Previous exploratory wells on 0450 experienced LC, both in the upper part of the well and in the Monterey and deeper section. A summary of these LC events follows:

Well No.	Lost Circulation Depths	Formation
0450 #1	8572 - 8750'	Monterey
	9814 - 9870'	Pt. Sal
	11,318 - 11,591'	Tranquillon Volcanics
0450 #2	5580'	Sisquoc
	8016 - 8252'	Monterey
	8307 - 8345'	Monterey
	8534 - 8737'	Monterey
0450 #3	5890'	Sisquoc
	7779 - 8881'	Monterey
0450 #4	2712'	Sisquoc
	3608 - 3625'	Sisquoc
	4103 - 5680'	Sisquoc

Chevron believes that LC is not a significant problem; however, they will utilize controlled drilling for the conductor and surface holes to avoid subjecting the formations to increased hydrostatic pressures. There is evidence in the high resolution geophysical data that buried channel deposits are prevalent in the area which could cause some of the shallow LC situations. In the Sisquoc and Monterey, LCM was used, sometimes successfully, to control LC. No well control problems arose due to LC in any of the exploratory wells.

A related problem consistently found in the exploratory wells and in other Pt. Arguello field wells is lost returns during cementing jobs; a summary of these situations follows:

Well No.	Casing jobs experiencing lost returns
0450 #1	13-3/8", 9-5/8"
0450 #2	9-5/8", 7"
0450 #3	9-5/8"
0450 #4	9-5/8"

Chevron has commented in the APD that lost returns during cement jobs may occur in this well.

5. Faulting

No known faults underlie the platform site. Two subsurface faults mapped by Chevron (map dated 7/83) lie to the northwest of the platform in the well path. These are both northeast-trending thrust faults with minor displacement. In general, the structure in the vicinity of the C-1 well is very flat and featureless, although small faults with throws of 25-50' (undetectable on seismic data) may be present in the area. No drilling problems due to faulting are anticipated.

6. Possible shallow gas zones, depth/thickness

Although the Foxen formation may have some gas potential, the likelihood is considered low since the three exploratory wells have encountered minimal indications of gas in this zone. However, Chevron will take appropriate precautions for this well; 18-5/8" casing will be set at 1640' MD/TVD which is above the top Foxen at 2340 'MD (2313' TVD). The diverter will be in place while drilling the Foxen.

Chevron detected two unusually high amplitude seismic anomalies on 3D seismic survey data. Both anomalies are mapped northwest of the platform, at depths below the top Foxen. There is another possible bright spot beneath the platform. Chevron's geophysicist does not believe it is gas; he thinks the high amplitude is indicative of a lithologic change. However, this high amplitude zone is immediately beneath the platform and will likely be intersected by the well bore. Approximate depth to the horizon is -2600' SS (0.9 sec. BSL) which is below the top of the Foxen at -2180' SS. To date, no wells have been drilled in this area to verify the presence of gas associated with these anomalies. The proposed C-1 well may intersect these anomalies although the section is not expected to be overpressured. Appropriate precautions will be taken while drilling the anomalies and the diverter will be in place while drilling the entire Foxen interval.

7. Possible overpressured or depleted zones, depth/thickness

The well is not expected to encounter any overpressured zones. No abnormal pressures were encountered in the exploratory wells. Pressure gradients on the exploratory wells, based on mud weights used during drilling, were as follows:

OCS-P 0450 Well #	Range of Mud Weights (ppg)	Maximum Pressure Gradient Equivalents (psi/ft)
1	8.5 - 11.4	0.441 - 0.587
2	8.5 - 10.4	0.441 - 0.539
3	8.5 - 9.9	0.441 - 0.514
4	8.5 - 10.2	0.441 - 0.529

Chevron is projecting the following gradients on C-1:

Depth, MD	Exp. Fracture Grad. (psi/ft)	Press. Grad. (psi/ft)	Max. Ant. Mud Weight (ppg)
0-1030'	0.495	-	8.7
1030-1640'	0.56	0.416	9.0
1640-3400'	0.61	0.433	9.2
3400-9372'	0.67	0.444	9.2
9372-10,599' TD	0.67	0.445	9.2

.052 | .610 | 11.7ppg | 52 | 90 | 52 | 38

Previous drilling on 0450 and 0451 indicated a normal pressure gradient of 0.45 psi/ft. Chevron states that although there are no known pressure anomalies, the entire region is faulted which could lead to higher pressures in upthrown fault traps.

8. Summary of shallow hazards

Plio-Pleistocene sediments are possibly gassy in this area. Several natural gas seeps have been identified in the Hidalgo area but are deep enough not to present a problem to the platform. The gas is finely dispersed and at hydrostatic pressure (which is too low to cause any reduction in sediment shear strength).

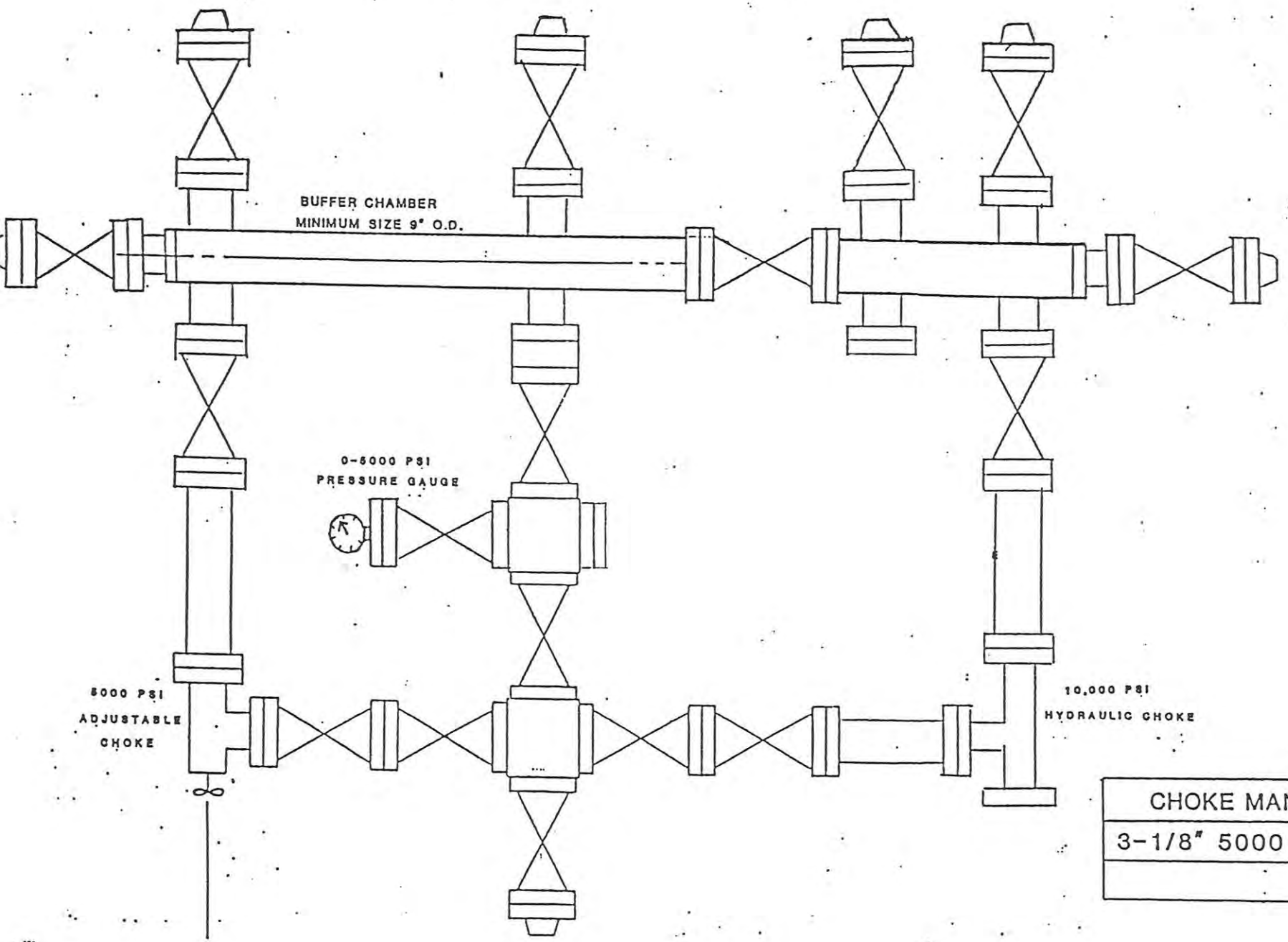
At the platform site, a shallow "bright" reflector occurs at 32m BML on subottom profiles. Although this feature was originally interpreted as gassy sediments, further review discounts this theory since the reflector can be positively correlated with a hard streak in Boring M-20 at 80 ft BML. Gassy sediments are inferred, however, to occur at the platform site at 139' and 205' BML where gas in the boring correlates with high amplitude reflectors on Acoustipulse data. However, the gas encountered in Boring M-20 was not abnormally pressured and will not pose a well control problem.

Slope stability analyses indicate that liquifaction potential is very low at the platform site. There is no evidence of recent instability. However, loss of stiffness of the Recent soils (upper 16-20 ft) is possible under extreme earthquake loading (modeled at 0.33g ground acceleration). Although downslope movement is not anticipated, the predicted maximum horizontal displacement is less than 1 foot. Predicted loss of stiffness below the Recent sediments is negligible.

9. Directional Program

The well will be directionally drilled to the northwest from the platform. Vertical hole will be drilled from the 24" structural shoe to 1500' MD/TVD. At or near 1500' MD/TVD, the well is to be directed on a course of N 49° 09' W; hole angle will build at 3°/100' to 44° 36' at 2987' MD (2841' TVD). This angle and direction will be held to TD at 10,559' MD (8233' TVD).

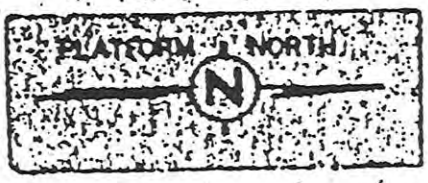
Joan W. Roberts

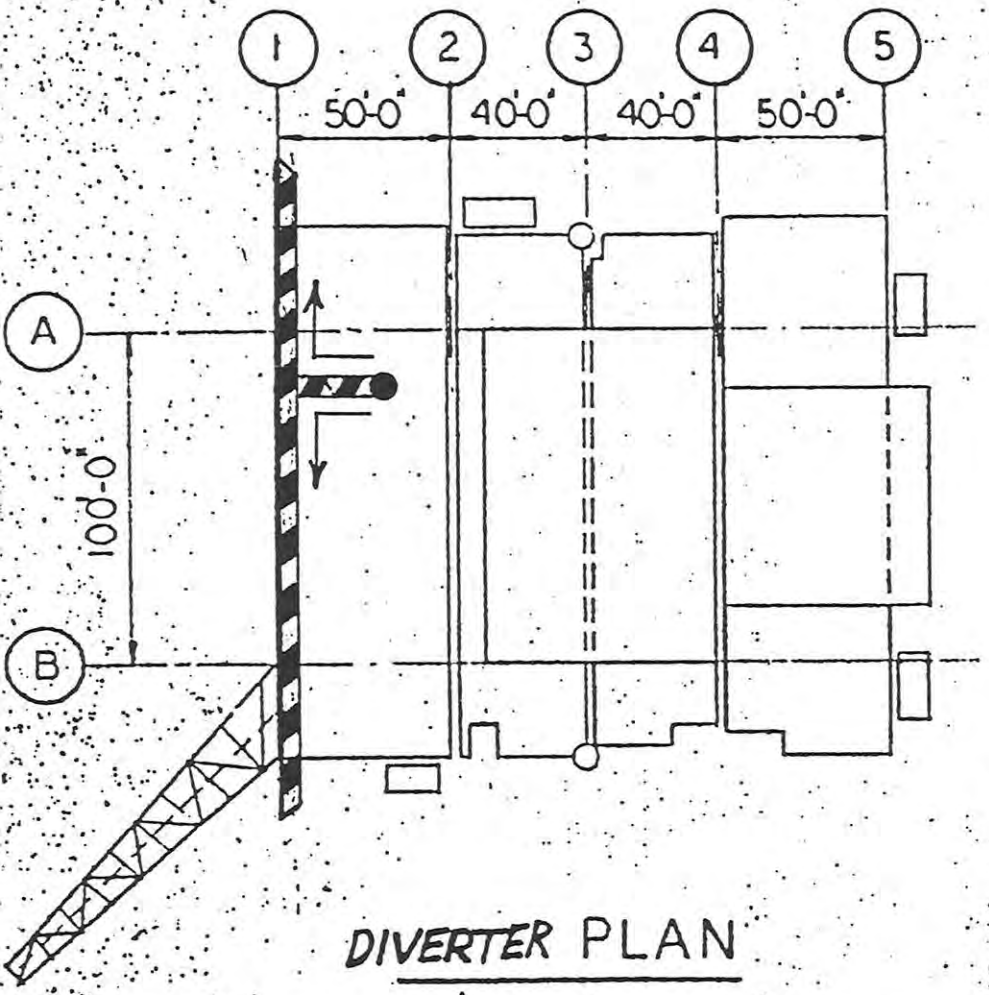


CHOKE MANIFOLD

3-1/8" 5000 PSI W.P.

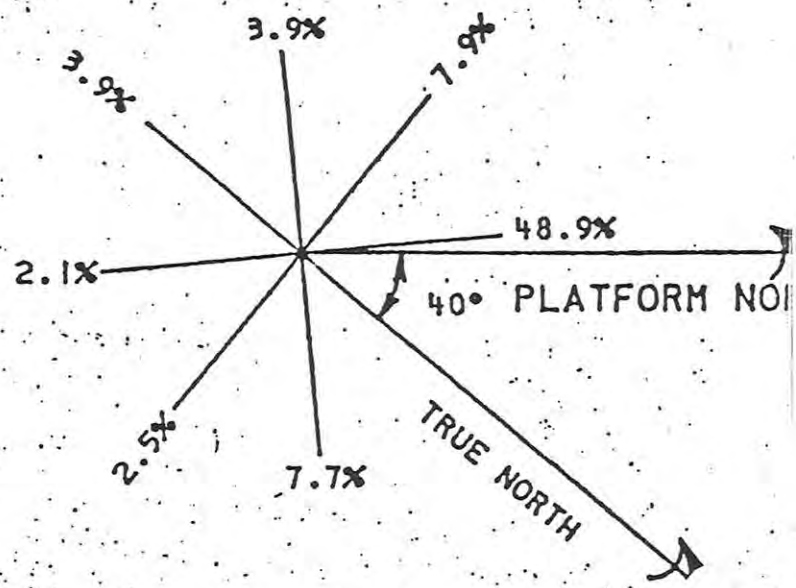
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DIVERTER PLAN

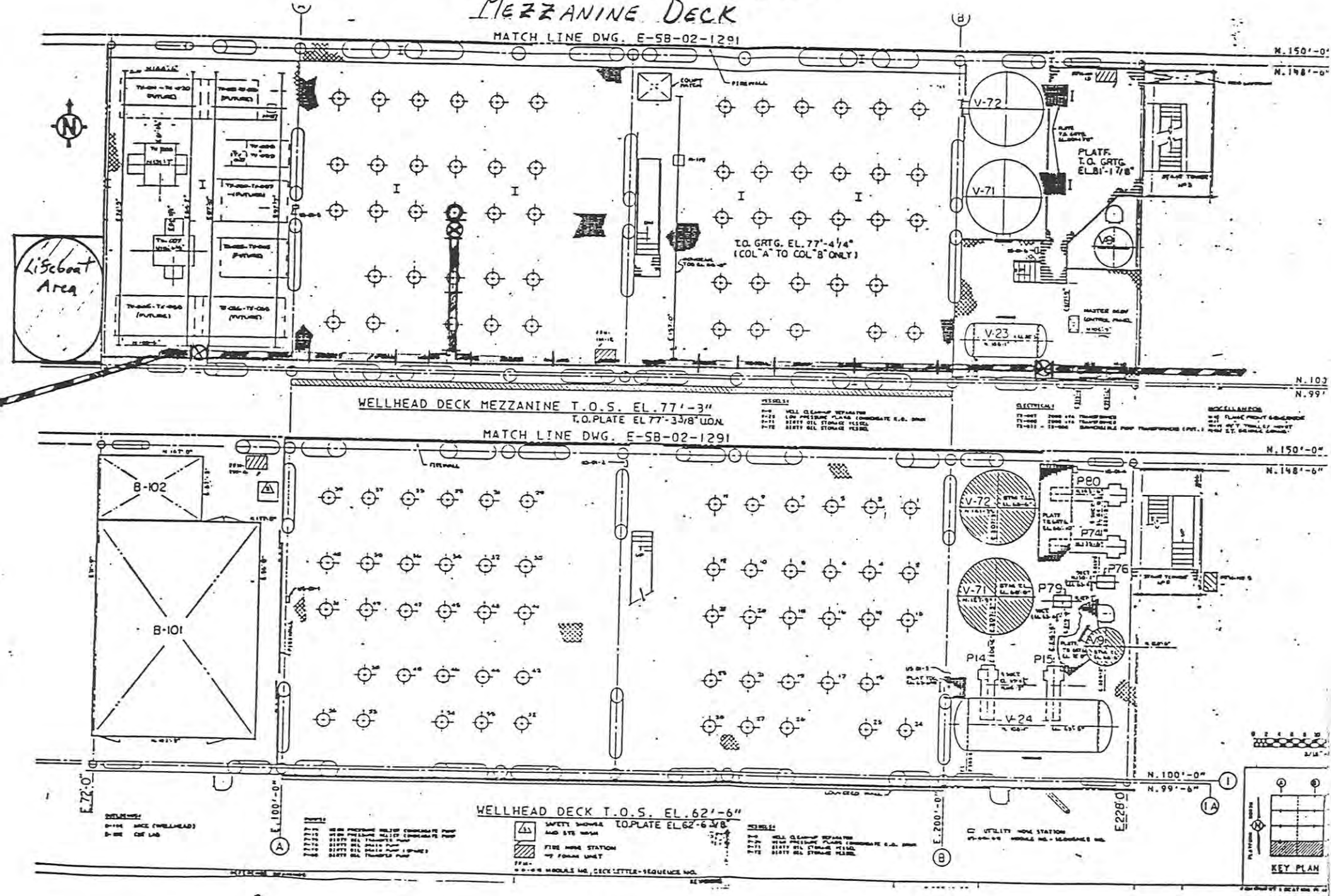
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WIND ROSE

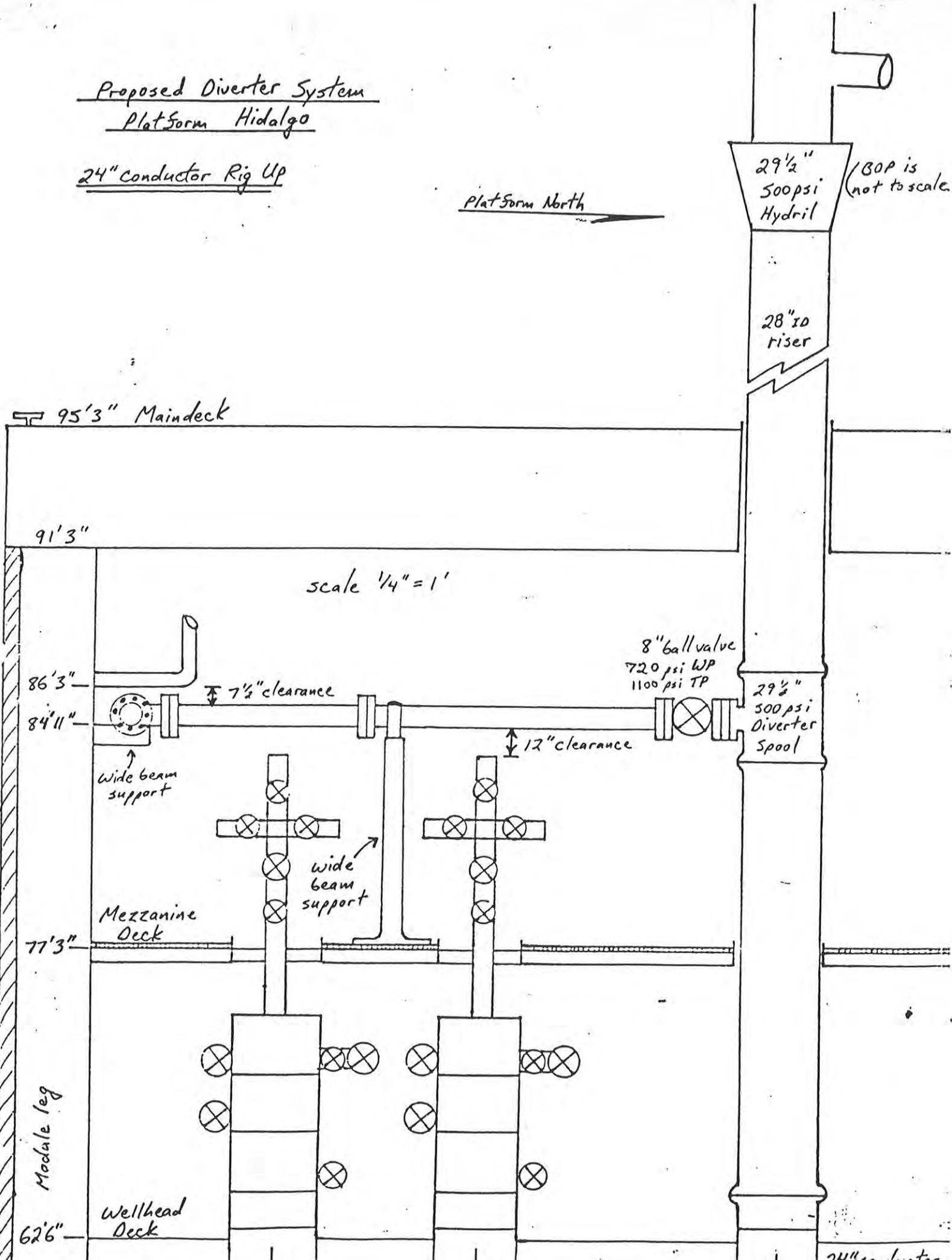
(WIND: % OCCURRENCE FROM)

Diverter Line Routing on Mezzanine Deck



Proposed Diverter System
Platform Hidalgo

24" conductor Rig Up



CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 47 DATE: 1-14-88

DSS: 35 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10498' TD
PREVIOUS TD:
FOOTAGE:

LAST BOP TEST: 1-8-88
NEXT BOP TEST DUE:
LAST CSG STRING: 7" @ 10498'
TOP @ 9018'
MUD WT: 8.8 ppg VISCOSITY: 27
pH: 6.8 CHLORIDES: 43000 ppm

OPERATIONS 0600 1-13-88 TO 12:00 NOON 1-13-88

LAST SURVEY: 52.42 DEG @ 10433 N 57 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: N/D BOP. N/U X-MAS TREE, TESTED TO 5000 PSI. RELEASED RIG FROM WELL C-1 AT 12:00 (NOON) 1-13-88. PREPARED TO SKID RIG FROM SLOT 4 TO SLOT 56, WELL C-2.

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #: 46 DATE: 1-13-88

DSS: 34 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10498' TD
PREVIOUS TD:
FOOTAGE:

LAST BOP TEST: 1-8-88
NEXT BOP TEST DUE:
LAST CSG STRING: 7" @ 10498'
TOP @ 9018'
MUD WT: 8.8 ppg VISCOSITY: 27
pH: 6.8 CHLORIDES: 43000 ppm

OPERATIONS 0600 1-12-88 TO 0600 1-13-88

LAST SURVEY: 52.42 DEG @ 10433 N 57 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: RAN 3-1/2" TBG. INSTALLED SAFETY VALVE W/CONTROL LINE. TESTED TO 6000 PSI FOR 10 MINS, OK. RAN TBG W/5000 PSI ON SSSV. P/U TBG HANGER, INSTALLED SAME W/CONTROL LINE. TESTED SAME TO 6000 PSI, OK. LANDED TBG @ 9497'. TESTED HANGER SEALS TO 5000 PSI FOR 10 MINS, OK. R/U WIRELINE & LUBRICATOR. SET PACKER, TOP @ 9432', BTM @ 9438'. PRESSURE TESTED ANNULUS TO 2000 PSI. R/D WIRELINE. CLOSED SSSV. L/D LANDING JTS. SET BPV. N/D BOP'S.
PRES OPERATIONS: N/D BOP'S ** ANTICIPATED ACTIVITY: COMPLETE WELL

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 45 DATE: 1-12-88

DSS: 39 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10498' TD
PREVIOUS TD:
FOOTAGE:

LAST BOP TEST: 1-8-88
NEXT BOP TEST DUE:
LAST CSG STRING: 7" @ 10498'
TOP @ 9018'
MUD WT: 8.8 ppg VISCOSITY: 27
pH: 6.8 CHLORIDES: 43000 ppm

OPERATIONS 0600 1-11-88 TO 0600 1-12-88

LAST SURVEY: 52.42 DEG @ 10433 N 57 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: POOH. R/U LUBRICATOR & TEST TO 500 PSI. PERFORATED INTERVAL 9996'-9620'. PULLED WEAR BUSHING. R/U & RAN 3-1/2" 9.3# L-80 HYDRIL 501 TBG.
FRES OPERATIONS: RUNNING TBG ** ANTICIPATED ACTIVITY: COMPLETE WELL

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 44 DATE: 1-11-88

DSS: 33 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10498'TD
PREVIOUS TD:
FOOTAGE:

LAST BOP TEST: 1-8-88
NEXT BOP TEST DUE:
LAST CSG STRING: 7" @ 10498'
TOP @ 9018'
MUD WT: 8.8 ppg VISCOSITY:
pH: CHLORIDES: ppm

OPERATIONS 0600 1-10-88 TO 0600 1-11-88

LAST SURVEY: 52.42 DEG @ 10433 N 57 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: RIH TO 10343' (TOP OF CMT). DRILLED OUT HARD CMT TO 10412'. CIRCULATED HOLE CLEAN. POOH. R/U SCHLUMBERGER. RAN CBL-GR-CCL 10394'-8895' TSTD LINER LAP TO 3500 PSI FOR 30 MINS. TIH OPEN ENDED. BREAK CIRCULATION. TAGGED @ 10409'. M/U CIRC HEAD & LINES. REVERSE CIRCULATED. CHANGED HOLE OVER TO 4% KCL & FILTERED SAME. SHUT DOWN RIG PUMPS. BUILT VOLUME F/POOH.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: COMPLETE WELL

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 43 DATE: 1-10-88

DSS: 32 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10498' TD
PREVIOUS TD:
FOOTAGE:

LAST BOP TEST: 1-8-88
NEXT BOP TEST DUE:
LAST CSG STRING: 7" @ 10498'
TOP @ 9018'
MUD WT: 8.6 ppg VISCOSITY: -
pH: CHLORIDES: ppm

OPERATIONS 0600 1-9-88 TO 0600 1-10-88

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: WAIT ON CEMENT. M/U 9-5/8" CSG SCRAPER ASSEMBLY. TIH TO 8773'. BREAK CIRCULATION. TAGGED CMT @ 8773'. DRILLED CMT TO TOP OF LINER HANGER @ 9018'. CIRCULATED. POOH. L/D 6-1/2" DRILL COLLARS & CSG SCRAPER. P/U 4-3/4" DRILL COLLARS. TIH W/7" CSG SCRAPER TO 9018'. DRILL OUT LINER LAP& CEMENT TO 9030'. ROTATED & CIRCULATED THRU LINER TO 9413'.
PRES OPERATIONS: CIRCULATING ** ANTICIPATED ACTIVITY: LOGGING

Revised

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 42 DATE: 1-9-88

DSS: 31 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10498'TD
PREVIOUS TD:
FOOTAGE:

LAST BOP TEST: 1-8-88
NEXT BOP TEST DUE:
LAST CSG STRING: 7" @ 10498'
TOP @ 9018'
MUD WT: 8.8 ppg VISCOSITY: 39
pH: 10.0 CHLORIDES: 8600 ppm

OPERATIONS 0600 1-8-88 TO 0600 1-9-88

24 HR SUMMARY: CEMENTED 7" LINER. R/D CMT HEAD & LINES. POOH, L/D STINGER. PULLED WEAR BUSHING. CHANGED 7" RAMS TO VARIABLE RAMS. TESTED BOPE. WAIT ON CEMENT.
PRES OPERATIONS: W.O.C. *** ANTICIPATED ACTIVITY: DRILLING CMT

Additional cmt details to follow

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: CEMENTED LINER W/267 SX 401 CF CLS 'G' CMT W/35% SI FLOUR, 0.5% D-65, 1.0% D-127 & 0.2% D-8. DISPLACED CMT W/164 BBL MUD. BUMPED PLUG W/1500 PSI. CMT IN PLACE @ 06:19. R/D CMT HEAD & LINES. POOH, L/D STINGER. PULLED WEAR BUSHING. CHANGED TO VARIABLE RAMS. TESTED BOPE. WAIT ON CEMENT
PRES OPERATIONS: W.O.C. *** ANTICIPATED ACTIVITY: DRILLING CMT

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 42 DATE: 1-9-88

DSS: 31 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10498'TD
PREVIOUS TD:
FOOTAGE:

LAST BOP TEST: 1-8-88
NEXT BOP TEST DUE:
LAST CSG STRING: 7" @ 10498'
TOP @ 9018'
MUD WT: 8.8 ppg VISCOSITY: 39
pH: 10.0 CHLORIDES: 8600 ppm

OPERATIONS 0600 1-8-88 TO 0600 1-9-88

24 HR SUMMARY: CEMENTED 7" LINER. R/D CMT HEAD & LINES. POOH, L/D STINGER. PULLED WEAR BUSHING. CHANGED 7" RAMS TO VARIABLE RAMS. TESTED BOPE. WAIT ON CEMENT.
PRES OPERATIONS: W.O.C. *** ANTICIPATED ACTIVITY: DRILLING CMT

Additional cmt details to follow

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 41 DATE: 1-08-88

DSS: 30 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10,498
PREVIOUS TD:
FOOTAGE:

LAST BOP TEST: 12-31-87
NEXT BOP TEST DUE: 1-7-88
LAST CSG STRING: 9 5/8" @ 9416'
NEXT CSG POINT: 7" @ 10559' TOP @
MUD WT: 8.2 ppg VISCOSITY: 38
pH: 10.5 CHLORIDES: 8700 ppm

OPERATIONS 0600 1-7-88 TO 0600 1-8-88

Circ and condition mud. Change rams to 7". Pull wear bushing, Test plug, Bonnet and seal to 2500psi. (OK) Install wear bushing.

Ran and landed 7", 26#, L-80, Hydril 521 Liner at 10,498' with top at 9018'.
Set Hanger.

Present operation: Cementing 7" Liner.

Revised (Report number)
Days

PQG

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 40

DATE: 1-07-88

DSS: 29 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10,498'
PREVIOUS TD: 10,498'
FOOTAGE: 0'

LAST BOP TEST: 12-31-87
NEXT BOP TEST DUE: 1-07-88
LAST CSG STRING: 9 5/8" @ 9415'
NEXT CSGPOINT: 7" @ 10559' TOP @
MUD WT: 8.7 ppg VISCOSITY: 48
pH:10.5 CHLORIDES: 9400 ppm

OPERATIONS 0600 1-06-88 TO 0600 1-07-88

24 HR SUMMARY:
RUN DRESSER ATLAS: LSAL/MINI-LOG 10480'-9415'.
LSAL/FWW 10496'-9415'.
ZDEN/CN 10494'-9415'.
DIPMETER 10494'-9415'.
R/D DRESSER ATLAS. RIH W/ CLEAN OUT ASSEMBLY TO 10498'. NO FILL.
CIRCULATE AND CONDITION MUD.

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 40 DATE: 1-6-88

DSS: 28 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10498'
PREVIOUS TD: 10293'
FOOTAGE: 205'

LAST BOP TEST: 12-31-87
NEXT BOP TEST DUE: 1-7-88
LAST CSG STRING: 9 5/8" @ 9415'
NEXT CSG POINT: 7" @ 10559' TOP @
MUD WT: 8.7 ppg VISCOSITY: 43
pH: 11.5 CHLORIDES: 9800 ppm

OPERATIONS 0600 1-5-88 TO 0600 1-6-88

LAST SURVEY: 52.42 DEG @ 10433 N 57 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: RIH. BROKE CIRCULATION. WASHED 10193-10293'. DRILLED 8-1/2" HOLE 10293-10498'. CIRCULATED HOLE CLEAN. WIPED HOLE TO 10119'. CIRCULATED BTMS UP. POOH. R/U DRESSER ATLAS WIRELINE. RIH. RAN MLL-DLL-GR 10498-9415'
PRES OPERATIONS: LOGGING ** ANTICIPATED ACTIVITY: RUN LINER

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 39 DATE: 1-5-88

DSS: 27 DAYS 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 10293'
PREVIOUS TD: 9875'
FOOTAGE: 418'

LAST BOP TEST: 12-31-87
NEXT BOP TEST DUE: 1-7-88
LAST CSG STRING: 9 5/8" @ 9415'
NEXT CSG POINT: 7" @ 10559' TOP @
MUD WT: 8.7 ppg VISCOSITY: 44
pH: 11.3 CHLORIDES: 8000 ppm

OPERATIONS 0600 1-4-88 TO 0600 1-5-88

LAST SURVEY: 46.16 DEG @ 10147 N 54 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILLED 9875'-10293'. DROPPED SINGLE SHOT SURVEY. PUMPED SLUG. POOH. CHANGED BIT.
PRES OPERATIONS: CHANGE BIT ** ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 38 DATE: 1-4-88

DSS: 36 Days, 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 9875'
PREVIOUS TD: 9596'
FOOTAGE: 279'

LAST BOP TEST: 12-31-87
NEXT BOP TEST DUE: 1-7-88
LAST CSG STRING: 9 5/8" @
NEXT CSG POINT: 7" @ 10559' TOP @
MUD WT: 8.9 ppg VISCOSITY: 44
pH: 11.5 CHLORIDES: ppm

OPERATIONS 0600 1-3-88 TO 0600 1-4-88

LAST SURVEY: 40.71 DEG @ 9771 N 50 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILLED 9596'-9711'. POOH. CHANGED BIT. P/U MONEL. M/U BHA. RIH. DRILLED 9711'-9875'.
PRES OPERATIONS. DRILLING ** ANTICIPATED ACTIVITY: DRILLING

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 37 DATE: 1-3-88

DSS: 3.5 Days 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 9596'
PREVIOUS TD: 9435'
FOOTAGE: 161'

LAST BOP TEST: 12-31-87
NEXT BOP TEST DUE: 1-1-88
LAST CSG STRING: @ 5/8" @
NEXT CSG POINT: 7" @ 10559' TOP @
MUD WT: 8.9 ppg VISCOSITY: 44
pH: 11.5 CHLORIDES: 9500 ppm

OPERATIONS 0600 1-2-88 TO 0600 1-3-88

LAST SURVEY: 42.31 DEG @ 9578 N 48 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILLED 9435'-9486'. POOH. CHANGED BIT. RIH. BREAK CIRCULATION. PRECAUTIONARY REAM 9439'-9486'. DRILLED 9486'-9596'.
PRES OPERATIONS: DRILLING **ANTICIPATED ACTIVITY: DRILLING

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 36 DATE: 1-2-88

DSS: 34 Days, 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 9435'
PREVIOUS TD: 9425'
FOOTAGE: 10'

LAST BOP TEST: 12-31-87
NEXT BOP TEST DUE: 1-1-88
LAST CSG STRING: 9 5/8" @ '
NEXT CSG POINT: 7" @ 10559' TOP @
MUD WT: 9.2 ppg VISCOSITY: 50
pH: 10.5 CHLORIDES: 13000 ppm

OPERATIONS 0600 1-1-88 TO 0600 1-2-88

LAST SURVEY: 44.93 DEG @ 9328 N 47 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: FINISHED P/U BHA. TIH TO 4700'. TAGGED FLOAT COLLAR @ 9325'. DRILLED FLOAT COLLAR & 75' OF CEMENT. CIRCULATED HOLE CLEAN. PRESSURE TSTI CASING TO 2500 PSI FOR 30 MINS. RAN EASTMAN GYRO. DRILLED CEMENT & FLT SHO TO 9415'. WASHED THRU RAT HOLE TO 9425'. DRILLED 9425'-9435'. CIRCULATE & CONDITIONED MUD. PERFORMED LEAK-OFF TEST. 12.8 PPG EMW. MAXIMUM PRESSURE 1450 PSI. BLED BACK TO 1375 PSI IN 10 MINUTES.
PRES OPERATIONS: PERFORM LEAK-OFF TEST **ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT #35 DATE: 1-1-88

DSS: 33 Days, 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD:
PREVIOUS TD: 9425
FOOTAGE: 0'

LAST BOP TEST: 12-31-87
NEXT BOP TEST DUE: 1-7-88
LAST CSG STRING: 9 5/8" @
NEXT CSG POINT: 7" @ 10559' TOP @
MUD WT: 9.3 ppg VISCOSITY: 69
pH: 10.5 CHLORIDES: 17200 ppm

OPERATIONS 0600 12-31-87 TO 0600 1-1-88

LAST SURVEY: 44.93 DEG @ 9328 N 47 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: LAND 9-5/8" CSG @ 9415'. SET W/220K ON CSG SLIPS. TESTED TO 3000 PSI. N/D CSG HEAD. LIFT BOP STACK. MADE CUT ON CSG. INSTALL SECONDARY PACKOFF. N/U CSG HEAD. TEST TO 4400 PSI. OK. M/U LOWER KELLY VALVE & TESTD BOPE TO 250/5000 PSI. SET BORE PROTECTOR. M/U 8" DRILL COLLAR& L/D 12-1/4" STABILIZERS. P/U BHA.
PRES OPERATIONS: P/U BHA. **ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 34 DATE: 12-31-87

DSS: 34 Days, 16 HOURS

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 9425'
PREVIOUS TD: 9425'
FOOTAGE: 0

LAST BOP TEST: 12-24-87
NEXT BOP TEST DUE: 12-31-87
LAST CSG STRING: 9 5/8" @ 9415'
NEXT CSG POINT: 7" @ 10559' TOP @ 9015'
MUD WT: 9.4 ppg VISCOSITY: 69
pH: 10.5 CHLORIDES: 17,200 ppm

OPERATIONS 0600 12-30-87 TO 0600 12-31-87

Ran a total of 222 joints of 9 5/8" 43.50 #/ft casing to 9415' MD. cemented casing with 1270 sx (2832 cf) lead class 'G' w/ 10% gel, 12.5 #/sx gilsonite, 0.15 gal/sx D-81 mixed to 12.6 ppg followed by 800 sx (910 cf) tail class 'G' w/ 1.3% D-60 mixed 15.8 ppg CIP AT 0540 Full returns throughout.

Present operations - Preparing to land casing

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 33 DATE: 12-30-87

DSS: 33 , 16 hrs

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD:
PREVIOUS TD: 9425'
FOOTAGE: 0'

LAST BOP TEST: 12-23-87
NEXT BOP TEST DUE: 12-30-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 ppg VISCOSITY: 66
pH: 11.0 CHLORIDES: 17000 ppm

OPERATIONS 0600 12-29-87 TO 0600 12-30-87

LAST SURVEY: 44.57 DEG @ 9385 N 48 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: RAN DRESSER DIPMETER & CALIPER LOGS. TIH. WORK THRU TIGHT SPOT 8900'-8994'. REAM & WASH THRU SAME. CIRCULATE. PUMP HIGH VISCOSITY PILL, SLUG PIPE. PUMP OUT OF HOLE TO 9207'. TIH. WASH 9329'-9425'. MAKE 5 STD WIPER TRIP. TIH TO 9425'. BREAK CIRCULATION. PUMP HIGH VISCOSITY PILL & PUMP SLUG. POOH. R/U & RUN 9-5/8" 43.5# SS-95 HYDRIL 563 CSG.
PRES OPERATIONS: RUNNING CSG ** ANTICIPATED ACTIVITY: CEMENTING CASING

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 32 DATE: 12-29-87

DSS: 32, 16 hrs

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD:
PREVIOUS TD: 9425'
FOOTAGE: 0'

LAST BOP TEST: 12-23-87
NEXT BOP TEST DUE: 12-30-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 ppg VISCOSITY: 66
pH: 11.0 CHLORIDES: 17500 ppm

OPERATIONS 0600 12-28-87 TO 0600 12-29-87

LAST SURVEY: 44.57 DEG @ 9385 N 48 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: RAN DRESSER DUAL LAP, MICRO LAP & GAMMA RAY 9415'-3100'. POOH. ATTEMPT TO RUN DRESSER DIP METER & CALIPER. COULD NOT GO PAST 4719'. POH. P/U BHA. TIH. CIRCULATE. SPOT HI VISCOSITY PILL. PUMP SLUG. POOH. M/U HOLE FINDER ON TOOL. RIH TO BOTTOM W/DRESSER.
PRES OPERATIONS: LOGGING ** ANTICIPATED ACTIVITY: RUNNING CASING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 31 DATE: 12-28-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 9425'
PREVIOUS TD: 9230'
FOOTAGE: 195'

LAST BOP TEST: 12-23-87
NEXT BOP TEST DUE: 12-30-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 ppg VISCOSITY: 69
pH: 11.0 CHLORIDES: 16 600 ppm

OPERATIONS 0600 12-27-87 TO 0600 12-28-87

AST SURVEY: 44.34 DEG @ 9204 N 48 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 9230'-9425', CIRCULATE, MAKE 5 STD WIPER TRIP, CIRC.
POOH, L/D MWD TOOL, RUN DRESSER DUAL LAP, MICRO LAP & GAMMA RAY FROM 9415'
PRES OPERATIONS: LOGGING ** ANTICIPATED ACTIVITY: RUNNING CASING

12/28/87 10:25 ☎805 654 7646 CHEVRON DRILLING →→ MMS SANTA MARIA 006/006

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 30 DATE: 12-27-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 9230'
PREVIOUS TD: 9120'
FOOTAGE: 110'

LAST BOP TEST: 12-23-87
NEXT BOP TEST DUE: 12-30-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 ppg VISCOSITY: 60
pH: 10.5 CHLORIDES: 15800 ppm

OPERATIONS 0600 12-26-87 TO 0600 12-27-87

LAST SURVEY: 44.34 DEG @ 9204 N 48 W
IGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 9120'-9176'. SHORT TRIP TO 8176'. REAM 9052'-9176'. CIRCULATE. POOH. CHANGE BITS. TIH. WASH & REAM 9146'-9176'. NO FILL. DRILL 9176'-9230'.
PRES OPERATIONS: DRILLING **ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 29 DATE: 12-26-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 9120'
PREVIOUS TD: 8681'
FOOTAGE: 439'

LAST BOP TEST: 12-23-87
NEXT BOP TEST DUE: 12-30-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.3 ppg VISCOSITY: 53
pH: 10.5 CHLORIDES: 15 800 ppm

OPERATIONS 0600 12-25-87 TO 0600 12-26-87

LAST SURVEY: 44.44 DEG @ 9108 N 47 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: CON'T POOH. CHANGE OUT BHA. TIH. REAM 8571'-8681'. DRILL 8681'-9120'.
PRES OPERATIONS: DRILLING **ANTICIPATED ACTIVITY: DRILLING

12/26/87 10:20 805 934 7048 CHEVRON DRILLING ### MMS SANTA MARIA 004/006

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 28

DATE: 12-25-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 8681'
PREVIOUS TD: 8147'
FOOTAGE: 534'

LAST BOP TEST: 12-23-87
NEXT BOP TEST DUE: 12-30-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.3 ppg VISCOSITY: 54
pH: 11.0 CHLORIDES: 16500 ppm

OPERATIONS 0600 12-24-87 TO 0600 12-25-87

AST SURVEY: 44.76 DEG @ 8633 N 47 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: TIH TO 8108', WASH & REAM TO 8147', NO FILL. DRILL 8147'-8681', CIRCULATE. POOH TO SHOE.
PRES OPERATIONS: POOH **ANTICIPATED ACTIVITY: DRILLING

12/28/87 10:23 805 654 7646 CHEVRON DRILLING →→ MMS SANTA MARIA 003/006

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 27 DATE: 12-24-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 8147'
PREVIOUS TD: 8063'
FOOTAGE: 84'

LAST BOP TEST: 12-23-87
NEXT BOP TEST DUE: 12-30-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.3 ppg VISCOSITY: 61
pH: 10.0 CHLORIDES: 17 500 ppm

OPERATIONS 0600 12-23-87 TO 0600 12-24-87

LAST SURVEY: 48.88 DEG @ 8059 N 47 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 8063'-8147'. CIRCULATE. WASH & RELOG 8100'-8147' W/ MWD. POOH. TEST BOPE. M/U BHA. RIH.
PRES OPERATIONS: RIH **ANTICIPATED ACTIVITY: DRILLING

12/28/87 10:22 805 654 7646 CHEVRON DRILLING → MMS SANTA MARIA 002/006

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 26 DATE: 12-23-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 8063'
PREVIOUS TD: 7938'
FOOTAGE: 125'

LAST BOP TEST: 12-16-87
NEXT BOP TEST DUE: 12-23-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.3 ppg VISCOSITY: 55
pH: 10.5 CHLORIDES: 16000 ppm

OPERATIONS 0600 12-22-87 TO 0600 12-23-87

LAST SURVEY: 48.39 DEG @ 7966 N 47 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: POOH. CHANGE OUT BIT. M/U BHA. RIH. REAM 7824'-7938'. DRILL 7938'-8063'.
PRES OPERATIONS: DRLG ** ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 25 DATE: 12-22-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 7938'
PREVIOUS TD: 7590'
FOOTAGE: 348'

LAST BOP TEST: 12-16-87
NEXT BOP TEST DUE: 12-23-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.1 ppg VISCOSITY: 60
pH: 10.5 CHLORIDES: 16 000 ppm

OPERATIONS 0600 12-21-87 TO 0600 12-22-87

LAST SURVEY: 47.90 DEG @ 7869 N 47 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 7590'-7634'. CIRCULATE & SURVEY @ 7634'. DRILL 7634'-7818'. CIRCULATE. DRILL 7818'-7824'. WIPE HOLE TO 7340'. DRILL 7824'-7938'. POOH.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 24 DATE: 12-21-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 7590'
PREVIOUS TD: 7342'
FOOTAGE: 248'

LAST BOP TEST: 12-16-87
NEXT BOP TEST DUE: 12-23-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.1 ppg VISCOSITY: 65
pH: 11.0 CHLORIDES: 15 000 ppm

OPERATIONS 0600 12-20-87 TO 0600 12-21-87

LAST SURVEY: 46.77 DEG @ 7490 N 48 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: POH FOR BIT CHANGE. M/U BHA. RIH. REAM 7240'-7342'. DRILL 7342'-7590'.
PRES OPERATIONS: DRILLING ** ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 23 DATE: 12-20-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0460 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 7342'
PREVIOUS TD: 7034'
FOOTAGE: 308

LAST BOP TEST: 12-16-87
NEXT BOP TEST DUE: 12-23-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.0 ppg VISCOSITY: 65
pH: 11.0 CHLORIDES: 15000 ppm

OPERATIONS 0600 12-19-87 TO 0600 12-20-87

LAST SURVEY: 46.14 DEG @ 7295 N 48 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 7034'-7118', WIPE HOLE, DRILL 7118'-7230', CIRC. WIPE HOLE, DRILL 7230'-7342', CIRCULATE & PUMP SLUG, POH.
PRES OPERATIONS: POH. ** ANTICIPATED ACTIVITY: DRILLING

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SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 22 DATE: 12-19-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 7034'
PREVIOUS TD: 6507'
FOOTAGE: 527'

LAST BOP TEST: 12-16-87
NEXT BOP TEST DUE: 12-23-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 ppg VISCOSITY: 60
pH: 11.5 CHLORIDES: 16000 ppm

OPERATIONS 0600 12-18-87 TO 0600 12-19-87

LAST SURVEY: 44.10 DEG @ 7021 N 48 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 6507'-6802'. WIPE HOLE. REAM 6682'-6802'. DRILL 6802'-7034'.
PRES OPERATIONS: DRILLING ** ANTICIPATEDACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 21 DATE: 12-18-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 6507'
PREVIOUS TD: 6489'
FOOTAGE: 18'

LAST BOP TEST: 12-16-87
NEXT BOP TEST DUE: 12-23-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 ppg VISCOSITY: 51
pH: 11.5 CHLORIDES: 14000 ppm

OPERATIONS 0600 12-17-87 TO 0600 12-18-87

FINISH POOH FOR BHA CHANGE. RETRIEVE WEAR BUSHING. TEST BOPE 250/3000 PSI. M/U BHA, RIH. TAGGED TIGHT SPOT @ 5732'. WASH & REAM 5732'-6489'. DRILL 12-1/4" HOLE 6489'-6507'.

PRES OPS: DRILLING

ANTICIPATED ACTIVITY: DRLG

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 20

DATE: 12-17-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0460 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 6489'
PREVIOUS TD: 6425'
FOOTAGE: 64'

LAST BOP TEST: 12-9-87
NEXT BOP TEST DUE: 12-16-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.1 ppg VISCOSITY: 48
pH: 12.0 CHLORIDES: 13800 ppm

OPERATIONS 0600 12-16-87 TO 0600 12-17-87

LAST SURVEY: 41.91 DEG @ 6452 N 50 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 6425'-6489'. CIRCULATE BTMS UP. WAIT ON WEATHER. PUMP SLUG. POOH FOR BHA CHANGE.
PRES OPERATIONS: POOH ANTICIPATED ACTIVITY: DRILLING

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SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 19

DATE: 12-16-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 6425
PREVIOUS TD: 6067'
FOOTAGE: 358'

LAST BOP TEST: 12-9-87
NEXT BOP TEST DUE: 12-16-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 PPG VISCOSITY: 61
pH: 11.5 CHLORIDES: 14 800 ppm

OPERATIONS 0600 12-15-87 TO 0600 12-16-87

LAST SURVEY: 41.42 DEG @ 6359 N 51 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: FINISH POOH. CHANGE BHA. TIH. REAM 4681'-5055'. TIH. WASH 6015'-6067'. DRILL 6067'-6425'.
PRES OPERATIONS: DRLG ** ANTICIPATED ACTIVITY: DRILLING

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SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 18 DATE: 12-15-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 6067'
PREVIOUS TD: 5514'
FOOTAGE: 553'

LAST BOP TEST: 12-9-87
NEXT BOP TEST DUE: 12-16-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 ppg VISCOSITY: 43
pH: 11.5 CHLORIDES: 15000 ppm

OPERATIONS 0600 12-14-87 TO 0600 12-15-87

LAST SURVEY: 44.29 DEG @ 5978 N 51 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: FINISH POOH. CHANGE BHA. P/U BIT #7. TIH. REAM 4930'-5514'. DRILL 5514'-6067'. CIRCULATE. PUMP SLUG. POOH.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 17 DATE: 12-14-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 5514'
PREVIOUS TD: 4923'
FOOTAGE: 591'

LAST BOP TEST: 12-9-87
NEXT BOP TEST DUE: 12-16-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.2 ppg VISCOSITY: 46
pH: 11.5 CHLORIDES: 19200 ppm

OPERATIONS 0600 12-13-87 TO 0600 12-14-87

LAST SURVEY: 46.27 DEG @ 5404 N 52 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: TIH. WASH THRU TIGHT SPOTS @ 4293'. CIRCULATE. DRILL 4923'-5514'. CIRCULATE. PUMP SLUG, POOH.
PRES OPERATIONS: POOH ** ANTICIPATED ACTIVITY: DRILLING

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SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 16 DATE: 12-13-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 4923'
PREVIOUS TD: 4362'
FOOTAGE: 561'

LAST BOP TEST: 12-9-87
NEXT BOP TEST DUE: 12-16-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 9.3 ppg VISCOSITY: 55
pH: 10.5 CHLORIDES: 11500 ppm

OPERATIONS 0600 12-12-87 TO 0600 12-13-87

LAST SURVEY: 39.62 DEG @ 4842 N 52 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 4362'-4642', CIRCULATE, POOH, CHANGE BHA, TIH, DRILL 4642'-4923', CIRCULATE, POOH, L/D STABILIZER, RE-RUN BIT #6, TIH.
PRES OPERATIONS: TIH **ANTICIPATED ACTIVITY: DRILLING

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DAILY DRILLING REPORT

REPORT # 15 DATE: 12-12-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 4362'
PREVIOUS TD: 3370'
FOOTAGE: 992'

LAST BOP TEST: 12-9-87
NEXT BOP TEST DUE: 12-16-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 8.9 ppg VISCOSITY: 38
pH: 11.5 CHLORIDES: 13000 ppm

OPERATIONS 0600 12-11-87 TO 0600 12-12-87

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: DRILL 3370'-3975'. CIRCULATE BTMS UP FOR SHORT TRIP. MAKE SHORT TRIP 7 STDS TO SHOE. DRILL 3975'-4362'.
PRES OPERATIONS: DRILLING **ANTICIPATED ACTIVITY: DRILLING

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REPORT # 14 DATE: 12-11-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 3370'
PREVIOUS TD: 3350'
FOOTAGE: 20'

LAST BOP TEST: 12-9-87
NEXT BOP TEST DUE: 12-16-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 8.8 ppg VISCOSITY: 37
pH: 11.0 CHLORIDES: 8500 ppm

OPERATIONS 0600 12-10-87 TO 0600 12-11-87

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: RUN GYRO SURVEY. POH. CHANGE BHA. RIH. DRILL CEMENT & RAT HOLE 3325'-3350'. DRILL TO 3360'. CIRCULATE & CONDITION MUD. PRESSURE TEST LINES TO 1250 PSI. PERFORM LEAK OFF TEST. LEAK OFF WAS 11.5 PPG (440 PSI W/8.8 PPG MUD). PRESSURE BLED TO 350 PSI IN 10 MINUTES. CIRCULATE. DRILL 3360'-3370'.
PRES OPERATIONS: DRILLING ** ANTICIPATED ACTIVITY: DRILLING

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REPORT # 13 DATE: 12-10-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 3350'
PREVIOUS TD: 3350'
FOOTAGE: 0'

LAST BOP TEST: 12-9-87
NEXT BOP TEST DUE: 12-16-87
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 8.8 ppg VISCOSITY: 37
pH: 11.0 CHLORIDES: 8500 ppm

OPERATIONS 0600 12-9-87 TO 0600 12-10-87

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: TEST BOPE 200/3000 PSI. M/U CLEAN OUT ASSEMBLY. TIH. WASH & REAM 3221'-3247'. DRILLED FLOAT COLLAR & CEMENT TO 3325'. CIRCULATE & CONDITION MUD. TEST CASING TO 1000 PSI. R/U WIRELINE & RUN A GYRO MULTI SHOT FROM 3244'.
PRES OPERATIONS: RUN GYRO MULTI SHOT ** ANTICIPATED ACTIVITY: DRILLING

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REPORT # 12

DATE: 12-9-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0460 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 3350
PREVIOUS TD: 3350'
FOOTAGE: 0'

LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 8.6 ppg VISCOSITY: 34
pH: 8.5 CHLORIDES: 20500 ppm

OPERATIONS 0600 12-8-87 TO 0600 12-9-87

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: N/U BOPE. PREPARE TO TEST.
PRES OPERATIONS: N/U BOPE ** ANTICIPATED ACTIVITY: TESTING BOPE

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DAILY DRILLING REPORT

REPORT # 11 DATE: 12-8-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 3350'
PREVIOUS TD:
FOOTAGE: 0'

LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 13 3/8" @ 3340'
NEXT CSG POINT: 9 5/8" @ 9372'
MUD WT: 8.6 ppg VISCOSITY: 34
pH: 8.5 CHLORIDES: 20000 ppm

OPERATIONS 0600 12-7-87 TO 0600 12-8-87

SIGNIFICANT DEVELOPMENTS: LEAD CMT 970 SX 2163 CF CLS G + 10% GEL + 12.5 #/SX GILSONITE + .08 GAL/SX D-81 + .02 GAL/SX DEFOAM @ 12.6 PPG. TAIL CMT 570 SX 650 CF CLS G + .5% D-60 + .02 GAL/SX DEFOAMER @ 15.8 PPG.
4 HR SUMMARY: DROPPED TOP PLUG. DISPLACED 970 SX LEAD & 570 TAIL CMT SLURRIES W/501 BBL SEAWATER. BUMPED PLUG W/1500 PSI. CIP @ 0730. TRACE CMT TO SURFACE. LOST COMPLETE RETURNS WHILE DISPLACING LAST 50 BBLS. SET CSG SLIPS. CLOSE ANNULAR. TEST SLIPS TO 350 PSI, OK. N/D DIVERTER SYSTEM. MAKE ROUGH CUT ON 13 3/8". L/D LANDING JTS. N/D DIVERTER. MAKE FINAL CUT ON CSG N/U CSG HEAD. N/U BOPE.
PRES OPERATIONS: N/U BOPE ** ANTICIPATED ACTIVITY: TESTING BOPE

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 10 DATE: 12-7-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 3350'
PREVIOUS TD:
FOOTAGE: 0'

LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 18 5/8" @ 1630'
NEXT CSG POINT: 13 3/8" @ 3400'
MUD WT: 8.6 ppg VISCOSITY: 28
pH: 8.5 CHLORIDES: 22000 ppm

OPERATIONS 0600 12-6-87 TO 0600 12-7-87

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: POH W/MICROLATEROLOG. RUN DRESSER ATLAS 4 ARM CALIPER 3350' -1630'. RIH W/CLEAN OUT ASSEMBLY. SWEEP HOLE CLEAN W/150 BBL HI VISCOSITY PILL. POH. L/D BIT. RETRIEVE BORE PROTECTOR. R/U CSG TOOLS. RUN 78 JTS 13 3/8" 72# L-80 CSG. SET CSG SHOE @ 3340'. FLT COLLAR @ 3247'. (TOP 5 JTS SEAL TECH SUPER FLUSH JTS, ALL OTHERS BUTTRESS THREADS.) R/D CSG TOOLS. CIRCULATE. MIX & PUMP CMT. DISPLACING CMT.
PRES OPERATIONS: DISPLACING CMT ** ANTICIPATED ACTIVITY:

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SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 9 DATE: 12·6·87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 3350'
PREVIOUS TD:
FOOTAGE: 0'

LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 18 5/8" @ 1630'
NEXT CSG POINT: 13 3/8" @ 3400'
MUD WT: 8.9 ppg VISCOSITY: 28
pH: 8.3 CHLORIDES: 21000 ppm

OPERATIONS 0600 12·5·87 TO 0600 12·6·87

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: TIH SLOWLY W/16 5/8" GUIDE & 3 5/8" GRAPPLE. TOP OF FISH @ 3305'. WORKED OVER FISH. POH. RECOVERED ALL OF FISH. L/D FISHING TOOLS. TIH W/17" BIT. WASH & ROTATED THRU BRIDGES 1750' TO BOTTOM. CIRCULATED 50 BBL HI VISCOSITY SWEEP. SPOTTED GEL MUD IN OPEN HOLE. POH. R/U DRESSER ATLAS WIRELINE. RIH. LOG GR-SP-DLL-MLL 3340'-1630'. POH W/WIRELINE.
PRES OPERATIONS: POH **ANTICIPATED ACTIVITY: RUN CASING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 8 DATE: 12-5-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 3350'
PREVIOUS TD: 3350'
FOOTAGE: 0

LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 18 5/8" @ 1630'
NEXT CSG POINT: 13 3/8" @ 3400'
MUD WT: 8.6 ppg VISCOSITY:
pH: CHLORIDES: ppm

OPERATIONS 0600 12-4-87 TO 0600 12-5-87

SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: POH. L/D MUD MOTOR. RIH W/DRESSER ATLAS MICRO LATEROLOG. LOGGED 3110'-2900'. RIH TO 3112'. LOGGED UP TO 3010'. TOOL STUCK @ 3010'. TOP OF FISH @ 2965'. PULLED 10,000# ON WIRELINE. RECOVERED ALL THE WIRE. L/D FISHING TOOLS. TIH W/16 5/8" OVERSHOT GUIDE ON A 3 5/8" GRAPPLE. SET DOWN @ 2535'. ROTATED & PUMPED SLOWLY WHOLE TIH.
PRES OPERATIONS: TIH. **ANTICIPATED ACTIVITY: FISHING.

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SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 7 DATE: 12-4-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 3350'
PREVIOUS TD: 2408'
FOOTAGE: 942'

LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 18 5/8" @ 1630'
NEXT CSG POINT: 13 3/8" @ 3400'
MUD WT: 8.6 ppg VISCOSITY: 27
pH: 8.5 CHLORIDES: 20000 ppm

OPERATIONS 0600 12-3-87 TO 0600 12-4-87

LAST SURVEY: 45.47 DEG @ 3275 N 51 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY; CONTINUE RIH W/MUD MOTOR ASSEMBLY. ORIENT TOOL. WASH 15' FILL. TAG BOTTOM @ 2408'. DRILL & SURVEY 17" HOLE 2408'-2599'. SWEEP HOLE CLEAN W/50 BBL HI VISCOSITY PILL. POH. CHANGE OUT BIT. TIH. ORIENT TOOL. WASH 10' FILL. TAG BOTTOM @ 2599'. DRILL 2599'-3350'. SWEEP HOLE W/200 BBL HI VISCOSITY PILL. SPOT 200 BBL HI VISCOSITY PILL ON BOTTOM. POH W/MUD MOTOR ASSEMBLY.
PRES OPERATIONS: POH. ** ANTICIPATED ACTIVITY: LOGGING

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SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 6 DATE: 12-03-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 2408'
PREVIOUS TD: 1650'
FOOTAGE: 758'

LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING 18 5/8" @ 1630'
NEXT CSG POINT: 13 3/8" @ 3400'
MUD WT: 8.6 ppg VIS: 27
pH: 8.3 CHLORIDES: ppm

OPERATIONS 0600 12-02-87 TO 0600 12-03-87

LAST SURVEY: 19.4 DEG @ 1607' N 41 W
SIGNIFICANT DEVELOPMENTS:
24 HR SUMMARY: R/D LEAK OFF TEST. CIRCULATE. POH. ORIENT MAGNA DRILL & ANADRILL. TIH. TAG BOTTOM @ 1650'. ORIENT TOOL. DRILL TO 2219' W/MUD MOTOR CIRCULATE 50 BBL SWEEP. DRILL TO 2408'. CIRCULATE. POH. CHANGE BHA. TIH.
PRES OPERATIONS: TIH. ** ANTICIPATED ACTIVITY: DRILLING

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 5 DATE: 12-02-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 1650'
PREVIOUS TD: 1640'
FOOTAGE: 10'

DIRECTIONAL SURVEY @ 1607'
ANGLE: 4 DEG 14' DIRECT: N 54DEG 10'W
NEXT SURVEY DUE:
LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 18 5/8" @ 1630'
NEXT CSG POINT: 13 3/8" @ 3400'
MUD WT: 8.6 ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 0600 12-01-87 TO 0600 12-02-87
CON'T TIH. PRESSURE TESTED RISER, DIVERTER BAG & CSG TO 325 PSI. DRILLED HARD CMT 1481'-1615'. TOP OF FLT COLLAR @ 1580'. CIRCULATED HOLE CLEAN. PRESSURE TESTED CSG TO 350 PSI FOR 30 MINS. RAN GYRO SURVEY 1607' TO MUDLINE. DRILLED 17" HOLE TO 1650'. CIRCULATED HIGH VISCOSITY SWEEP. PULLED UP 30'. PERFORMED LEAK OFF TEST. LEAK OFF: 10.1 PPG, 130 PSI W/8.6 PPG MUD. PRESSURE BLED TO 50 PSI IN 10 MINUTES.

PERATIONS AT REPORT TIME: PERFORMING LEAK OFF TEST.

ANTICIPATED ACTIVITY: DRILLING.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

002/003 CHEVRON DRILLING →→ MMS SANTA MARIA

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SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 4 DATE: 12-01-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 1640'
PREVIOUS TD: 1640'
FOOTAGE: 0

DIRECTIONAL SURVEY @ 1593'
ANGLE: 4 DEG 18' DIRECT: N 54DEG 36'W
NEXT SURVEY DUE:
LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 18 5/8" @ 1630'
NEXT CSG POINT: 13 3/8" @ 3400'
MUD WT: 8.6 ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 0600 11-30-87 TO 0600 12-01-87
R/D DIVERTER & FLOWLINE. M/U STINGER & X/O. INSTALL NEW SEALS. TIH. ATTEMPT TO WORK PAST JUNK W/O SUCCESS. PULL 1 STD TO 1492'. TEST LINES TO 3000 PSI. CLOSE ANNULAR DIVERTER & CIRCULATE W/8.5 - 8.6 PPG SEAWATER THRU FLOAT. PUMP CMT LEAD SLURRY CLS 'G' CMT W/10% BENTONITE, 12.5 LB/SX GILSONITE, 6% CALCIUM CHLORIDE, MIXED 448 SX W/120 BBL MIX WATER TO 12.6 PPG. TAIL SLURRY CLS 'G' CMT MIXED 271 SX W/32 BBL SEAWATER FOLLOWED W/17.5 BBL SEAWATER TO DISPLACE. MAXIMUM DIVERTER PRESSURE 200 PSI. CMT IN PLACE @ 1539 HRS, 11-30-87. POH. INSTALL 18 5/8" SCREW ON WELLHEAD & SPACER. N/U DIVERTER. P/U BHA. TIH.

OPERATIONS AT REPORT TIME: TIH.

ANTICIPATED ACTIVITY: DRILLING.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

12/01/87 08:18 805 654 7646 CHEVRON DRILLING →→ MMS SANTA MARIA 001/002

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 3 DATE: 11-30-87

OPERATOR: CHEVRON USA INC
LEASE/WELL #: OCS P 0450 C 1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11 27-87 2:00PM
PRESENT TD: 1640'
PREVIOUS TD: 1640'
FOOTAGE: 0

DIRECTIONAL SURVEY @ 1593'
ANGLE: 1 DEG 18' DIRECT: N 40EG 30'W
NEXT SURVEY DUE:
LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 24" @ 1030'
NEXT CSG POINT: 18 5/8" @ 1640'
MUD WT: 8.6 ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 0600 11-29-87 TO 0600 11-30-87
OPEN HOLE TO 1640'. POH. RUN CALIPER LOG 1640 1015'. R/U & RUN 39 JTS 18 5/8" 117.5#, K 55 CSG & HANGER ASSEMBLY TO 1630'. TEST HANGER SEALS TO 200 PSI. L/D LANDING JTS & R/D CSG HANDLING EQUIPMENT. TIH W/STINGER STINGER FAILED TO SEAL. POH. LEFT TWO CENTRALIZER BLADES IN HOLE WAIT ON NEW CENTRALIZER.

OPERATIONS AT REPORT TIME: WAITING ON CENTRALIZER.

ANTICIPATED ACTIVITY:

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 2 DATE: 11-29-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS-P-0450 C-1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 1640'
PREVIOUS TD: 1100'
FOOTAGE:

DIRECTIONAL SURVEY @ 1593'
ANGLE: 4 DEG 18' DIRECT: N 4DEG 36'W
NEXT SURVEY DUE.
LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 24" @ 1030'
NEXT CSG POINT: 18 5/8" @ 1640'
MUD WT: 8.6 ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 0600 11-28-87 TO 0600 11-29-87
DRILL 1100-1470' CIRCULATE. POH. P/U MUD MOTOR. TIH. DRILL 1470-1640'. PULL UP TO 1511'. CIRCULATE. POH. R/U DRESSER ATLAS. RUN DLL MLL-GR. P/U 22" HOLE OPENER. TIH OPEN HOLE TO 1037'.

OPERATIONS AT REPORT TIME: OPEN HOLE.

ANTICIPATED ACTIVITY: RUNNING CSG.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

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MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT
DAILY DRILLING REPORT

REPORT # 1 DATE: 11-28-87

OPERATOR: CHEVRON USA INC.
LEASE/WELL #: OCS P 0450 C 1
CONTRACTOR: DUAL DRILLING CO.
VESSEL/FACILITY: PLAT. HIDALGO
APPROVED TD: 10559'MD/8233'VD
SPUD DATE: 11-27-87 2:00PM
PRESENT TD: 1100'
PREVIOUS TD: 1062'
FOOTAGE:

DIRECTIONAL SURVEY @
ANGLE: DEG DIRECT:
NEXT SURVEY DUE:
LAST BOP TEST:
NEXT BOP TEST DUE:
LAST CSG STRING: 24" @ 1030'
NEXT CSG POINT: 18 5/8" @ 1640'
MUD WT: ppg VIS:
pH: CHLORIDES: ppm

OPERATIONS 0600 11-27-87 TO 0600 11-28-87
WORK ON DIVERTER SYSTEM. TEST DIVERTER SYSTEM W/200 PSI 15 MINS, OK. DRILL CMT, FLOAT, SHOE & RAT HOLE 1003' 1062'. DRILL 5' NEW HOLE TO 1067' CIRC HOLE CLEAN. POH. CHANGE OUT BHA. TIH BREAK CIRCULATION. DRILL TO 1110'.

OPERATIONS AT REPORT TIME: DRILLING.

ANTICIPATED ACTIVITY: OPEN HOLE.

SIGNFICANT EVENTS, SPECIAL PROBLEMS, SHOW, OR OTHER REMARKS:

BEARINGS AND COODINATES SHOWN THIS SKETCH CONFORM WITH THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION ZONE 10 (CLARK 1866 SPHEROID) IN METERS.

PROPOSED BOTTOM HOLE LOCATION

X=709642.91m (1557.09m FEL

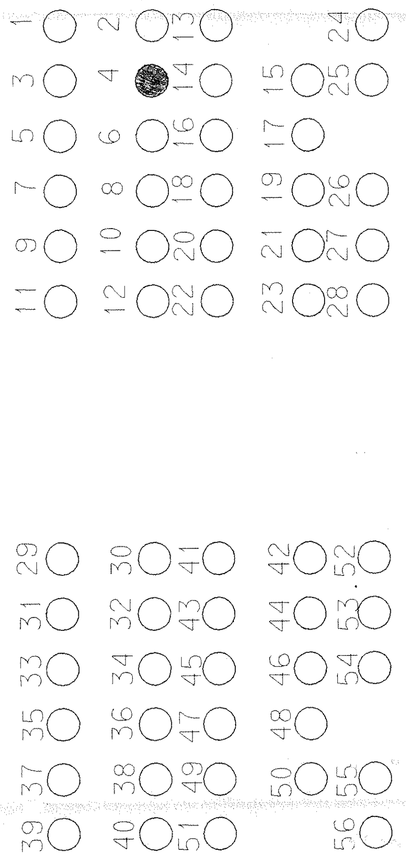
Y=3820409.95m (390.05m FNL)

LAT.=34° 30' 20.8244"

LONG.=120° 42' 59.4058"

APPLICATION FOR
WELL NO. OCS-P-0450-c-1
SLOT NO. 4

PROPOSED C-1

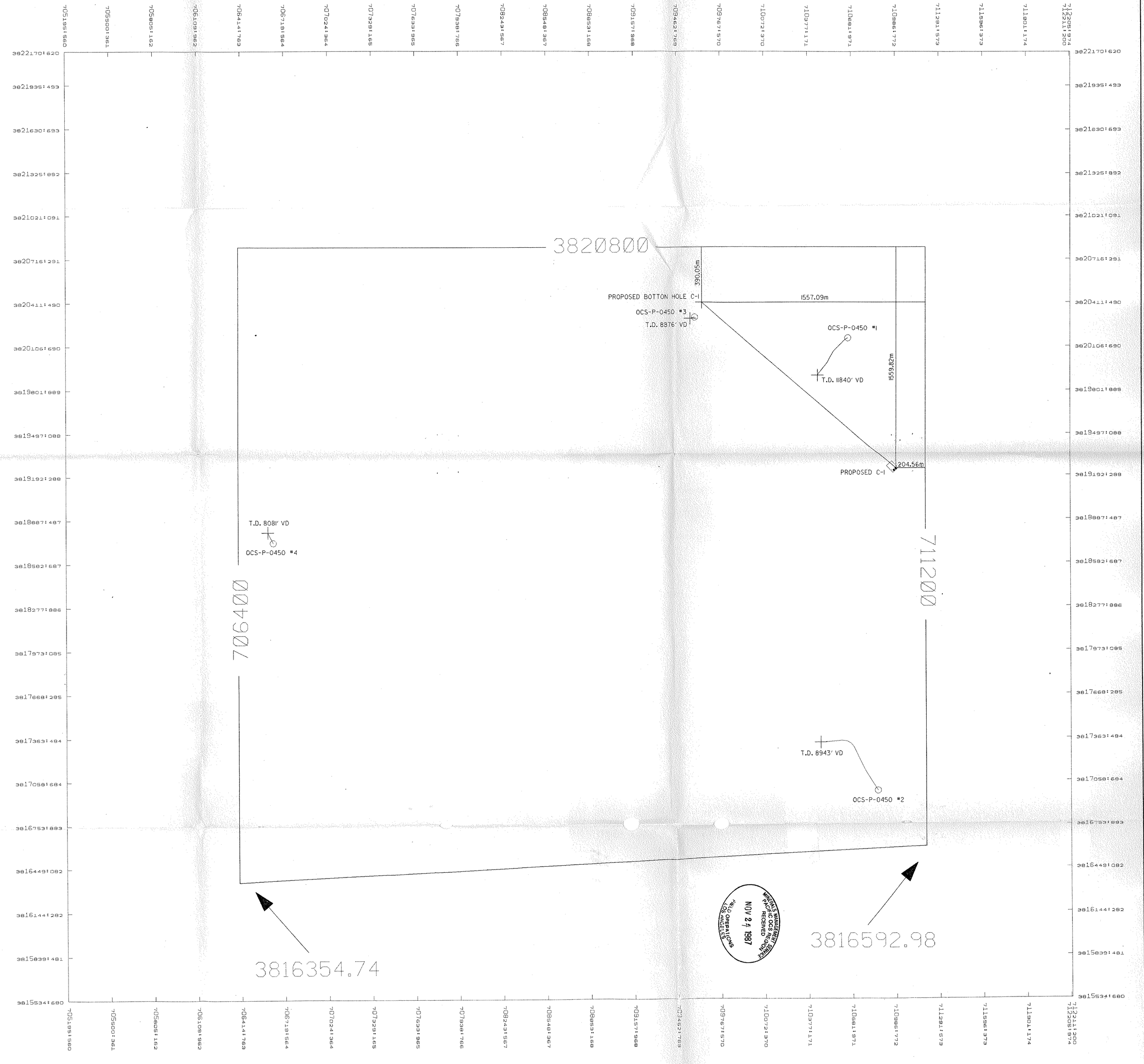


N43°13'00"W

PT	X	Y
1	710994.69	3819243.65
2	710996.78	3819241.43
3	710993.36	3819242.4
4	710995.44	3819240.18
5	710992.02	3819241.15
6	710994.11	3819238.93
7	710990.69	3819239.90
8	710992.78	3819237.68
9	710989.36	3819238.65
10	710991.44	3819236.42
11	710988.02	3819237.39
12	710990.11	3819235.17
13	710998.24	3819239.88
14	710996.90	3819238.63
15	710998.99	3819236.40
16	710995.57	3819237.37
17	710997.66	3819235.15
18	710994.24	3819236.12
19	710996.33	3819233.90
20	710994.90	3819232.65
21	710994.99	3819232.65
22	710991.57	3819233.62
23	710993.66	3819231.40
24	711001.78	3819236.10
25	711000.45	3819234.85
26	710997.79	3819232.35
27	710996.45	3819231.09
28	710995.12	3819229.84
29	710981.81	3819231.55
30	710983.89	3819229.33
31	710980.47	3819230.30
32	710982.56	3819228.08
33	710979.14	3819229.05
34	710981.23	3819226.82
35	710977.81	3819227.79
36	710979.89	381225.57
37	710976.47	3819226.54
38	710978.56	3819224.32
39	710975.14	3819225.29
40	710977.23	3819223.07
41	710985.35	3819227.77
42	710987.44	3819225.55
43	710984.02	3819226.52
44	710986.11	3819224.30
45	710982.69	3819225.27
46	710984.77	3819223.05
47	710981.35	3819224.12
48	710983.44	3819221.80
49	710980.02	3819222.76
50	710982.11	3819220.54
51	710978.69	3819221.51
52	710988.90	3819224.00
53	710987.57	3819222.74
54	710986.24	3819221.49
55	710983.57	3819218.99
56	710982.24	3819217.74

WELL CONDUCTORS
PLATFORM HIDALGO
SANTA BARBARA CHANNEL
OCS-P-0450

SCALE: 1"=10'



REFERENCE DRAWINGS	REVISIONS

CHEVRON U.S.A. INC

CONFIDENTIAL

PLATFORM HIDALGO SLOT #4

WELL CONDUCTORS

PROPOSED BOTTOM HOLE LOCATION

SCALE: 1"=1000' OR 1"=304.8006m DATE:

DR.: CH.: DR. APP: 672072 ENGR.:

OPR'G DEPT.:

ENGR. DEPT.:

APPROVED

W.O.

S.O.

OCS-P-0450 C-1

CHEVRON
0450

CHEVRON
0451

CHEVRON
0452

TRUE NORTH LINE

EST. O/W CONTACT @ -8250(SSD)

EST. O/W CONTACT -8250(SSD)

EST. O/W CONTACT -8250(SSD)

TEXACO
0456

TEXACO
0315

CHEVRON
0316

500' 0 500' 1000'

TEXACO USA
VENTURA DISTRICT

AREA: POINT ARGUELLO FIELD

DESCRIPTION: TOP CHERT MARKER
MONTEREY FORMATION

GEOLOGIST: M. POWER	SCALE: AS NOTED	DWG. NUMBER: TOPCHERT/86-1
DRAFTER: R. HOKSMAN		
DATE: 7-20-87		
REV. DATED 12-11-87		

R&D COPY

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-65

Date	Description of Work
7/11/01	Pressure up and set sump packer @ 11658'. Pull 30K up and set 20K down on packer. Pull up and release from packer. Pressure did not drop. Bleed off pressure. RU and attempt to reverse circ 1500 psi @ 1/2 bpm - no good. POOH with packer. Run tool. LD running tool - debris. Pull wear bushing. Run test plug did not hold. Pull and change O-ring. Set test plug. Begin testing BOPE. Dowell chart not working. Change chart - no good. Check and clear pressure sensor - no good. Change hose to chart - good. Test annular preventer to 250/l / 3500/h psi - good. Test lower pipe rams to 250/l / 5000/h psi - good. Test upper pipe rams - no good. Open bonnet and inspect ram - did not see anything wrong. Change rams. Retest - no good. Cont to test BOPE to 250/l / 5000/h.
7/12/01	Lower pipe rams on 2 7/8" tbg and 2 7/8" BOPE and TIW valve to 250/l / 5000/h psi - good. Test annular preventer on 2 7/8" tbg to 250/l / 3500/h - good. LD 2 7/8" test pipe. PU 5" test pipe. Clean 5" pipe rams and ram housing. Inspect and change rubbers on ram. Test upper pipe ram - no good. Open one bonnet for pipe ram. Function rams observed ram in housing did not show any compression on seals. Notified MMS (Dale Roberts) of changing out 13 5/7" x 5K double gate and setting storm packer +/- 665'. Slip and cut drill line. Drain fresh water in riser. Pull test plug. Prepare to ND BOPE. RIH with 9 5/8" 47# bridge plug to 665'. Would not set. POOH. Check and RIH to 665'. Would not set. Call MMS (Dale Roberts) packer was not required since well was not open. POOH & LD bridge plug. ND BOPE. Change to double gate rams.
7/14/01	Install wear bushing. MU sump packer and latch in tools. RIH. Latch into packer @ 11858' (wireline measure). 11673' DP measurement. POOH with latch-in tools. Regulator controlling diverter and all gauges for remote control on rig floor went out. Cont POOH. Install three way valve on crown-o-matic. Change regulator and control line for diverter.
7/15/01	Fix pressure to diverter. PU perf guns. RIH to 9647'. Guns set down. Try to work guns past obstacle. POOH with perf guns. RIH with 4 3/4" bit to 11673' (top of sump packer). Did not tag anything @ 9647'. Rotate with 500# on bit. Reverse circ two drill pipe volumes. POOH with 4 3/4" bit.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-65

Date	Description of Work
7/4/01	POOH with wireline. POOH with tools. Work on Schlumberger tools. RIH with logging tools. Fill every 10 stds. Run on back up power. RU Schlumberger sheaves. Run in with wireline. Latch in. Mix and pump pill. Log. RD Schlumberger.
7/5/01	RD Schlumberger. POOH with logging tools. LD logging tools. RIH open-ended circ. Change well over. Circ. Change well over to seawater. Clean mud tanks. Rig for completion.
7/6/01	Circ. POOH with brushes. MU scrapers & brushes.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-65

Date	Description of Work
6/19/01	Circ. Perform cut test 1335# with 13.2 mud EMW 16.7. Trip out 94 stds. LD/PU drill pipe & BHA. MU WSO tools. Trip in fill pipe with sea water every 10 stds 47 - stds 4478'. Set packer @ 8841'. Test liner top. Pull packer free. POOH.
6/20/01	LD test tools. MU motor & mill. RIH. Tag cement @ 11154'. Drill cement from 11154' to 11271'. POOH. Circ. Drop ball shift sleeve pump pill. POOH. Repair hyd unit. POOH.
6/21/01	POOH for BHA. LD motor. PU/LD BHA & tools, bit & 3 1/8" DC. RIH to drilling cement. Drill cement from 11271' to 11818'. Circ btms up. POOH to top of liner 8887'. Perform CIT test 1835' psi with 13.2 mud EMW 18+. POOH for scraper.
6/22/01	POOH for scraper. PU/LD 3 1/8" DC's. MU scraper. RIH. Tag btm @ 11818'. Circ btms up. Cut drilling line. Short trip 9 stds from111818' to 10983'. Circ well clean. POOH for logs. RU Schlumberger.
6/23/01	RU Schlumberger. MU tools. RIH with tools to 8793'. Fill pipe every 10 stds. RU side entry sub and sheaves. Run in with Schlumberger latch up tool. Log from 8802' to 11801'. Log out 11801' to 8802'. POOH with wireline.
6/24/01	RD Schlumberger. POOH with logs. LD logging tools. RIH SLM. Circ cond mud. POOH for perf guns. MU guns. RIH.
6/25/01	RIH to 11680'. Circ pump down ball fire guns from 11680' to 11682'. Circ pump pill. POOH for cement retainer. LD gun. MU cement retainer. RIH with cement retainer. Run on back up gen. Set cement retainer. Test at 11664'. Circ and cond mud. Wait on Schlumberger cementers. Circ and cond mud. RU Schlumberger. Sting into retainer press test lines to 3500 psi. Brake down rate 1/2 bbl 1000 psi - 1 1/2 bbl 2000 psi, 2 1/2 bbls 3200 psi for 20 bbls. Water inj pump bad in cement unit need to replace before cementing.
6/26/01	Work on cement unit. Test lines to 3500 psi. Mix and pump 75 sks class G cement 15.8# 1.19 yield 16 bbls. Displace 140 bbls. Sting into retainer. Squeeze 21 bbls into formation, 2 bbls a min @ 2700 psi. Shut down press. Stayed at 2000psi. Sting out of retainer. Rev circ. RIH. LD down running tools. MU guns. RIH to 11584'. Circ pump down, ball fire guns at 11584' to 11586'. Pump pill. POOH. LD guns. MU retainer. RIH. Set retainer at 11584' and test. Circ. RU Schlumberger. Test lines to 4000 psi. Sting into retainer at 11584' and test. Circ. RU Schlumberger. Test lines to 4000 psi. Sting into retainer. Brake down formation rate 1/2 bbls, 1200-1 1/2 bbls, 2400-2 bbls, 2600-2 1/2 bbls, 2700-3 bbls. Pumped 20 bbls. Bleed down press. Sting out. circ.
6/27/01	Mix and pump 125 sks class G cement 15.8# 1.19 yield 20 bbls. Displace 130 bbls sting into retainer. Squeeze 30 bbls into formation at 2 bbls/min. Starting at

	2200 psi. Slowed down to 1 bbls/min. Shut down at 3300 psi. Press came down to 2750 psi. Sting out of retainer. Rev circ. POOH. LD tools. MU guns. RIH tbg. Circ cond mud. Slip and cut drilling line. RIH to 11428'. Circ pump down. Ball fire guns at 11426' to 1142'. Circ btms up. Pump pill. POOH. LD tools. MU retainer. RIH.
6/28/01	RIH with retainer. Set at 11406'. Test. Circ. RU Schlumberger. Test lines to 4000 psi. Sting into retainer. Brake down formation . 1/2 bbl 1900 psi, 1 1/2 bbl, 3150 pumped 20 bbls. Bleed down press sting out. Mix and pump 100 sks class G cement 15.8# 1.19 yield 21 bbls. Displace132. Sting into retainer. Squeeze 25 bbls into formation at 1 1/2 bbls a min. Starting at 3100 psi. Shut down at 3250 psi. Press came down to 2550 psi. Sting out of retainer. Rev circ. POOH. LD tools. RU Schlumberger. Pull wear bushing. Install test plug. Test BOPE 250/l / 5000/h. RD. Pull test plug. Install wear bushing. MU perf guns. RIH to 11228'.
6/29/01	RIH with perf guns to 11228'. Circ pump down, ball fire guns at 11226' to 11228'. POOH 30 stands well tbg. Circ. btms up. Pump pill. POOH. LD tools. MU retainer. RIH set at 11206' - test. Circ. RU Schlumberger. Test lines to 4000 psi. Sting into retainer. Break down formation. 1/2 bbl 1400, 1 1/2 bbls 2500, 2 bbls 2900, 2 1/2 bbls 3200 bleed. Mix and pump 195 sks class G cement 15.8# 1.19 yield 41 bbls. Displace 108 bbls. Sting into retainer. Squeeze 41 bbls into formation at 2 bbls/min 2700 psi. built to 3000psi. 5 bbls at 1 bbl/min 2850 psi. Shutdown at 2400 psi. Pressure fell to 2050 psi.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-65

Date	Description of Work
6/10/01	Cont RIH with platform express CMR on 5" DP to 9159'. MU side entry. RIH with wireline. Latch wet connect - good. Log down f/9183' / t/11897. Log platform express CMR up f/11897' / t/9183'. LD side entry sub. POOH with wireline. POOH with logging tool on 5" DP. RD Schlumberger.
6/11/01	Change wash pipe in swivel. PU bit and stab. RIH with HWDP. Slip and cut drill line. RIH to 11920' - no fill. Circ. and condition mud @ 11920'. POOH. Pump and rotate out f/11822' / t/11840'. MU DSI-EMS-GPIT on 5" drill pipe. RIH with logging tool on 5" DP t/9159'.
6/12/01	LD 6311' of 5" drill pipe to be rattled. POOH. LD logging tool. Pull wear bushing. Install test plug. Change top pipe rams from 2 7/8" x 5" to 5". Changed bottom pipe rams from 2 7/8" x 5". Test all pipe rams and valves to 250 / 5000 psi - annular preventer to 250 / 3500 psi.
6/13/01	Test all rams and valves to 250 / 5000 psi. Pull test plug. Install wear bushing. RIH with bit and BHA. Run 27 stds from derrick. PU 8059' of 5" drill pipe. Circ and condition mud. Wipe hole to shoe. Circ. and condition mud to run liner. Drop rabbit. POOH to run csg.
6/15/01	PU 85 jts of 5 1/2", 17#, S-95, LTC liner. MU liner hanger and running tool. RIH with 5 1/2" liner on 5" DP to 9181. Fill pipe while running in. Circ at shoe. Trip in with liner. Tag btm. PU 5". Circ liner. Drop ball. Set liner. Release from liner. RU Dowell lines and surface test to 5000 psi. Dowell pressured up 4400 psi. Ball did not shear. Bleed off. Pressure up to 5000 psi - three times. Ball did not shear. Cont to pressure up and bleed off to 5500 psi numerous times. Tried once @ 6000 psi. POOH to run liner.
6/16/01	POOH liner slow. Stand top drive head in derrick. Mix and pump slug. POOH. LD liner and running tool. Measure and PU 81 jts of 2 7/8" tbg. POOH with tbg. PU 21 jts of 3 1/8" drill collars. RIH with 4 3/4" bit and 2 7/8" tbg on 5" drill pipe.
6/17/01	Drill wiper plug. LD collar @ 11813'. Drill on junk on top of float collar @ 11861'. Pump HI-VIS sweeps back to back. Circ btms up. POOH 85 stds. Slip and cut drill line. LD 27 jts of 5" drill pipe to be rattled. Change handling tools. POOH with 2 7/8" tbg. LD 21 jts of 3 1/8" drill collars would not rack in derrick safely. PU seal assembly. PU 5" drill pipe.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-65

Date	Description of Work
6/4/01	RIH with bit & drilling assembly. Work past junk. Drill f/11412". Top drive down. Equip failure. Work on top drive. Circ work pipe. Drill rotate try to work past junk. Hole made f/11412' to 11422'. Top drive. Hole conditions & equip failure. Circ. Mix & pump pill. Work on top drive change out electrical cords. MU junk basket. Load MWD and test. RIH BHA. Slip & cut drilling line. RIH to shoe. Fill pipe. Work top drive. Drill pipe plugged. POOH.
6/5/01	POOH for plugged pipe. Top of monel plug & float sub. RIH one jt of HWDP. Plugged change out. RIH in 20 stds. Found cmt built up in tool jts. POOH cleaning tool jts. LD MWD & float sub. Pull jets out of bit. RIH cleaning tool jts. Circ at shoe. RIH to 11250'. Circ. Get up & down wt & torque. RIH. Fill pipe clean 10' to btm little torque off btm. Drill from 11422' to 11534'.
6/8/01	Drill from 11850' to 11920'. Circ btms up for loggers. Wipe hole to shoe. Tight from 11660' to 11850. PU top drive and ream out. Work pipe through - ok. Circ and condition for mud longs. Drop survey. Pump down. POOH for logs. Tight from 11815' to 11801'. Up ream - ok. Retrieve survey barrel. Survey no good. LD monel collars. RU Schlumberger.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-65

Date	Description of Work
5/14/01	MIRU. PU 2 7/8" tbg and screw into tree. Pump down tbg with 13.2 ppg mud. Initial 1.2 bpm with 2300 psi. Final 2.1 bpm with 2350 psi. Stop pump-pressure bled back to 1500 psi. Bleed pressure off - no flow. Monitor well.
5/15/01	ND tree. Plugged surface lines. NU BOPE. Change pipe rams to 2 7/8" MU test tools. Pressure recorder failed. Replaced same. Test @ 06:00 hrs.
5/17/01	Test all rams and valve to 250/l / 5000/h psi. Annular preventer to 250/l / 3500/h psi. Pull test plug. Back tbg hanger. Tie down bolts out. Unseat tbg hanger an d PU approx. 12.12'. with annular preventer closed around tbg started pump and pressure up to 100 psi. Stop pump pressure @ 800 psi. Pull up to get out of packer. Pressure dropped in tbg. Assist tbg. out of hole. Tbg. wen to vacuum with oil return to surface and routed to production. LD pump jts. Broke circ. Circ 12.2 ppg around from 10200 @ 2.5 bpm. Stop pumping with 172 bbls to go to shore base (Mandalay) unable to receive additional fluid. Build fluid while waiting to pump additional returns to prod. Cont. pump @ 2.5 bpm returns going to prod.
5/18/01	Cont displacing well with 13.2 ppg mud. Build mud volume. POOH. LD tbg hanger and BPV. POOH. Spooling control lines to injection mandrel, SSSV, and press valve. POOH. LD 2 7/8" tbg.
5/19/01	POOH. LD tbg, Pruett pressure mandrel, seal assembly. Install test plug. Change btm rams to 5' rams. Test ram to 260 / 5000 psi - good. Pulled test plug and install wear bushing. PU 8 1/2" bit and 9 5/8" csg scraper. RIH. Broke circ @ 3590'. RIH to 7165'. PU 70 jts. Tag top of liner @ 9332'. Circ btms up. Condition mud @ 9332'.
5/20/01	Circ and condition mud @ 9332'. Top of liner. POOH with 9 5/8" csg scraper. LD same. MU and RIH with 7" csg scraper to 10198'. Circ btms up and pump slug. POOH with 7' scraper to 3500'. Slip and cut 150' of drill line. Cont POOH. LD csg scraper. MU and RIH with 7" 29# hyd set permanent bridge on plug on 3 1/2 DP.
5/21/01	Tag FB-1 packer @ 10,196'. PU 6'. Dropped ball. Set bridge plug @ 10,190'. Release from bridge plug and set 15k down. PU 3'. RU Dowell and test surface line to 3000 psi. Pump 10 bbls of class 'G' with additives. Displace with 164 bbls of mud. CIP 1220. Approx top of cement @ 9950'. Reverse circ 2 drill pipe volumes. POOH. LD setting tool. RU wireline and lubricator. RIH with USIT tool. Tag top of liner @ 9335'. Log from 9335'.
5/22/01	Cont logging to surface. Run and set 9 5/8" bridge plug @ 9211'. wireline measurement. RIH and POOH. LD 3 1/2" drill pipe. PU 30 jts of 5" HWOP. Measured and drift. RIH. SLM tag bridge plug @ 9216'. Drill pipe measurement. New plug back depth Dropped rabbit and plumb slug. POOH 20 stds. PU 34 jts

	5" drill pipe. POOH to run whipstock.
5/23/01	RIH with BHA. PU window milling tools. RIH with whipstock. RU gyro. Run in with gyro. Orient whipstock. Circ. whipstock. Could be partially set. Orient whipstock. Try to set whipstock. Neg 9166' set down on whipstock did not see pin shear. Pull whipstock Back up came free. POOH with whipstock.
5/25/01	RIH with whipstock. RU gyro. Orient whipstock. Set whipstock 299 AZ 44 deg left to high side. Mill window. Top 9181. Btm 9197. Mill to 9212'. Circ btm up.
5/26/01	Circ & cond mud. Fit test 650 psi 15#. POOH. LD milling assembly. Clean mud tanks. Mix mud. MU BHA. PU HWDP jars & drill pipe. RIH wt up mud.
5/27/01	RIH to 9212'. WT up mud to 13.2. Circ. Change well over. Mix surface vol. Prehydrate gel. Wt up to 13.2 drill. Rotate slide from 9212' to 9452'.
5/28/01	Drill rotate & slide from 9452'. To 9545. Circ for trip. Wiper trip/short trip. Tight getting though shoe. Drill rotate & slide from 9545' to 9828'. Circ. for trip. Wiper trip/short to shoe. Came through shoe - ok. Service rig and top drive. RIH. Drill rotate & slide from 9828' to 10095'.
5/29/01	Drill rotate & slide from 10092' to 10298'. Circ for wiper. Wiper trip/short trip back ream f/10015' to 9921'. Drill rotate & slide 10298' to 10578'. Wiper trip/short trip. Drill rotate & slide 10578' to 10832'.
5/30/01	Drill rotate slide f/10832' to 10898'. Circ. Wiper trip/short trip to shoe. Service rig & top drive. Wiper trip/short trip in. Drill rotate & slide f/10896' to 10965'. Circ for trip. Trip for bit. Pull ear bush. RU Dowell. Test BOPE 250/l / 5000/h. RD Dowell. Install wear bushing. RIH BHA.
5/31/01	Slip & cut drill line. RIH to 10674'. Wash/ream f/10674' to 10965' - no fill. Drill rotate & slide f/10965' to 11149'. Wiper trip/short trip. Drill rotate & slide f/11149' to 11220'.

MINERALS MANAGEMENT SERVI(Submit original plus three copies w OMB No. 1010-
SUNDRY NOTICES AND REPORTS ON WELL one copy marked "Public Information" Expiration Date: September 3(

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20616-01/S01	S-65	NUEVO ENERGY 1800 30th St., Suite 200 Bakersfield, CA 93301

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE	FRACTURE	PLUG BACK	WORKOVER	COM/POW
	ALTER CASING	INITIAL COMPLETION	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		
	CHANGE ZONE	PERFORATE	SIDETRACT X		
SUBSEQUENT REPORT	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041698 Y=747997 7902' FEL 3517' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached detailed information.

RECEIVED
MAR 2 9 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Sabrina J. Miller	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE Sabrina J. Miller	31. DATE 010327

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 4/2/01

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FORM MMS-124 (September 1999) *(Replaces all previous editions of Form MMS-124, which may not be used)*

Releasable to public
Name: SRH **Date:** 5/13/13

OCS-P0216
PLATFORM GILDA
WELL S-65 ST01
LOCATION OF WELL

AT SURFACE:	7902' FEL AND 3517' FSL
Lambert Cal 6 Coordinates	X = 1041698 Y = 747997
KICKOFF POINT:	7330' TVD / 9200' MD 7008' FWL AND 8024' FNL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1040768 Y = 752296
TARGET NO. 1: LP "L" ZONE	8205' TVD / 11102' MD 6252' FWL & 6561' FNL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1040012 Y = 753759
TARGET NO. 2: LP "M" ZONE	8307' TVD / 11235' MD 6470' FNL & 6240' FWL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1040000 Y = 753850
TARGET NO. 3: LP "N" ZONE	8559' TVD / 11564' MD 6259' FNL & 6224' FWL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1039984 Y = 754061
BOTTOM HOLE LOCATION:	8816' TVD / 11900' MD 6044' FNL & 6208' FWL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1039984 Y = 754061

Note: North Reference is "True North".

PLATFORM GILDA
S-65 ST01 DRILLING PROGRAM

March 22, 2001

Proposed TD: 8816' TVD / 11900' MD

Surface Location: Slot No. 24
X = 1041698 Y = 747997 Cal Lambert Zone VI
7902' FEL 3517' FSL

Subsurface Location: 6044' FNL & 6208' FWL of OCS P-0216 @ 8816' TVD/11900' MD
X = 1039984 Y = 754061 3614' FEL & 6352' FNL

Elevation: 205' WD, 107' Above MLLW
KB Elevation: 312'

OBJECTIVES - S-65 ST01:

Markers	VSS	TVD	MD	Est. Press. (psi)
LP-E	Above KOP	N/A	N/A	N/A
LP-F	-7336	7443	9400	2200-2500
LP-G	-7418'	7525'	9570	3500-4000
LP-H	-7517'	7624'	9825	3500-4000
LP-I	-7630'	7737'	10210	3500-4000
LP-J	-7756'	7863'	10533	NA
LP-K	-7890'	7997'	10783	4500-5000
LP-L	-8098'	8205'	11102'	4500-5000
LP-M	-8200'	8307'	11235'	4500-5000
LP-N	-8452'	8559'	11564'	4500-5000
TD	-8709'	8816'	11900'	4500-5350

Existing Csg/Liner/Tbg				Measured Depth
20"	106#	Gr 'B'	RL-4S	0 - 713'
16"	75#	X-52	VP-3	0 - 1708'
13-3/8"	68#	K-55	ASL	0 -- 5020'
9 5/8"	47#	N-80	8rd	0 - 9831'
7"	29.0#	S -95	8rd	9346' -11548'
3-1/2"	9.3#	N-80	SSWW/Blk 'CS'	11127' - 10275'
*2 7/8"	6.5#	N-80	EUE Tbg	Set F/52' elev (tbg hgr) to 10196' MD

*Tubing Hanger was set in tension with 10k#'s over string weight

Existing Production Packer
Baker 7" FB-1 Packer set @ 10196' MD

Tubular Dimensional Data
9-5/8", 47#, N-80, 8RD - 8.681" ID, 8.525" Drift
7", 29#, S-95, 8RD — 6.184" ID, 6.059" Drift
2-7/8", 6.5#, N-80, EUE — 2.441" ID, 2.347" Drift

Previous Shoe, TOL, and Casing Tests
5 ft new form.@ 9865' MD/7735' TVD - Original LOT = 17.2 ppg
7" liner lap @ 9332' MD/6762' TVD-Original lap test = 2500 psi w/8.7# Sea H_2O
Last Recorded 9-5/8" csg/lap test = 1000 psig w/13.9 CaBr packer fluid (3/22/86)

Tailpipe Assembly below the Existing Production Packer
34.69' of extension/tailpipe includes "XN" nipple located at 10225' MD below the top of the 7" Baker FB-1 packer located at 10196' MD.

Perforations (all depths MD)

U.Zone Perforations	L.Zone Perforations
10338-10376'	**10910-11116'**
10420-10460'	
10490-10754'	

- Both the upper and lower zones have 3-1/2 SSWW Screens gravel packed with 16 - 30m range gravel
- Completion Fluid left in the wellbore is 8.7 ppg seawater (completion report dated 03-23-86 - UNOCAL).

PROCEDURE TO SECURE/DECOMMISSION & SIDETRACT S-65 WELLBORE

1. Ensure SSSV is in the open position. RU 0.092" OD wireline unit with lubricator. Test lubricator. Make a gauge ring run to a depth above the production packer @ ± 10180' MD. If the gauge ring run is successful, RU EWL unit. PU and RIH witha 1-9/16" through tubing gun. Attempt to perforate above the "FB-1" packer @ ±10180'. Pressure up on tubing and check for communication on the tubing/casing annulus and vice versa to confirm successful perforating operation. RD EWL.
2. Skid Torch Rig No. 10 and TESCO electric top drive over slot #24, Well #S-65. Transfer weighted (±13.5 ppg) "LSND" mud from workboat to rig. Check tubing and casing pressures.
3. Kill the well either by circulating through the tubing/casing annulus or "bullheading" the weighted mud, as per Step 2 above, down the tubing string and into the formation (whichever method is appropiate for wellbore conditions at the time).
4. Close the SSSV. Install a BPV in the tubing hanger and ND tree. NU a 13-5/8", Class IV, 5M BOP. Retrieve BPV. Pressure SSSV to open position. Test pipe and blind rams to 250/5000 psi and the annular preventer to 250/3500 psi in accordance with Field Rules and MMS regulations.
5. Pull all tubing, production packer, and all associated accessories from the wellbore (except for the gravel packed SSWW screens and accessories across from the gravel packed intervals).
6. RIH with tandem 9-5/8", 47# and 7", 29# scrapers. The lower scraper should be spaced out to either the top of the SC-1L packer at 10271' MD or to the 2-7/8" tbg cut at + 10-180' depending on the results of Step #5 above. The top scraper is to be spaced out to the top of the 7" liner @±9346' MD. Circulate out a minimum of one complete "bottoms up" circulation. POH and LD scrapers.
7. RU EWL. Run a Multi-finger 9-5/8" casing caliper profile tool and log the 9-5/8" casing from the 7" TOL @ 9346' MD back to the casing hanger at the surface. POH. RD EWL.
8. If the production packer, as in step 5 above, has been successfully retrieved, then PU a 7" cement retainer. If the tubing in Step #5 had to be cut above the production packer (to retrieve the production string), then pick up a 7" bridge plug. RIH. Set either the cement retainer between 50 and 100 feet of the top perforation (10238-10288' MD), or the bridge plug within 150' of the top perforation using tubing measurements (≥ 10188' MD). Set down 15k# weight to verify retainer or bridge plug is set prior to cementing. For the method chosen for isolation of the perforations, pump the required amount of cement. If the bridge plug is used, this would require 50 linear feet of

cement above the plug. Or if the retainer is used, enough volume to place the theoretical base of cement 100 linear feet below the bottom perforation and 50 linear feet of cement above the top of the retainer would be required.

Note: MMS to be given 24 hrs advance notice of the plugging job in Step 11 to allow for ample opportunity to witness if desired.

9. MU and RIH with 9-5/8" whipstock BHA with one trip window milling system. Orient and set whipstock. Shear off and cut window from ~9200' to ~9240' MD. Circulate bottoms up. POH.

   Note: High side of the wellbore, in conjunction with the MWD, can be used for directional control until the survey is free from magnetic interference.

10. MU and RIH with 8-1/2" bit and steerable directional assembly. Directionally drill from KOP of 9200' MD/7330' TVD to ±9250' MD/7360' TVD as per directional program. (NOTE: Do not drill more than 50' of new open hole without conducting casing seat test). Conduct leak-off test (LOT). Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. Record the mud weight used and leak-off test pressure on both the TOC drilling report and the IADC report. Directionally drill to ±11,900' MD/8816' TVD as per attached directional plan. If a bit trip is timely near ~11,200' MD, it may be possible to finish the 8-1/2" hole with a packed hole conventional rotary assembly. Discuss with directional service hand at the location.

11. POOH. PU an 8-1/2" hole opener and RIH. Open hole from ±9200' to 11,900' MD. Circulate bottoms up. POH.

12. Circulate and condition mud. Make a wiper trip to the 9-5/8" casing window. Circulate and condition mud. POH for logs.

13. RU EWL unit. Log the 8-1/2" wellbore as per attached logging program using the tubing conveyed method. RD EWL unit.

14. Make a conditioning trip with an 8-1/2" bit in preparation for the liner.

15. Rig up and run 5-1/2", 17#/ft, S-95, LTC liner, float equipment, and liner hanger. The liner hanger will be equipped with a tie-back extension. TIH with liner to TD. Cement the liner as per attached cement program.

16. POOH 10 stands and reverse out. POOH. LD liner setting tools.

17. RIH with 8-1/2" bit and drill cement to the TOL @ ± 8900' MD/7146' TVD. Circulate until cuttings clear shaker. Close the annular preventer and test the TOL to ± 1900 psi. POOH. LD DC's.

18. PU 4-3/4" DC's and 6-1/8" bit. RIH to TOL. Clean out 5-1/2" liner to the top of the float collar at ± 11815' MD.

19. Displace the drilling fluid in the production liner/casing with a CaBr completion fluid. POOH.

20. Begin completion operations.

OCS-P0216
PLATFORM GILDA
WELL S-65 ST01
GENERAL COMPLETION PROCEDURE

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft
Interm.Csg(Exstg)	9-5/8	Surf- ±9200'MD	47.0	8.681	8.525	0.0732
Production Lnr.	5-1/2	*8900' - 11,900'	17.0	4.892	4.767	0.0220
Prod. Tbg.	2-7/8	Surf - 11,900'	6.50	2.441	2.347	0.00579

* Estimated

1. Rig to be placed over Slot #24, Well S65-St01. Hook up pump & filtration skid.
2. Test BOPE to MMS specifications.
3. RU wireline unit. Run CBL across 5-1/2" liner. Squeeze cement as required.
4. RIH with scraper on new 2-7/8", 6.5#, N-80 tubing to E.D. (est. ~11,820'). Scrape casing and circulate/filter until completion fluid is of desired clarity. POH with tubing.
5. RIH with TCP assembly. Perforate the lower productive (possibly M or N or M & N) interval. POH with perforating assembly.
6. RIH with acidizing tools. Acidize new perforations.
7. RIH with gravel pack assembly, including 3-1/2" screen and blank below SC-1 (or equivalent) gravel pack packer.
8. Frac pack the lower productive zone. POH with 2-7/8" tubing and wash pipe.
9. Repeat steps #5-8 for the upper (L or M or L & M) zone/s.
10. RIH with electrical submergible pump/s on 2-7/8" tubing.
11. Land hanger. ND BOPE. NU tree.
12. Turn well to production. Test well and report test information daily until otherwise notified.

SANTA CLARA FIELD OCS-P0216

PLATFORM GILDA

WELL S-65 ST-01

CASING DESIGN

Size	Interval		TVD	WT	Description		Min. Cplg. Strength	Pipe Body Strength	TDF Cplg	TDF Pipe	Collapse Pressure at Bottom	Collapse Resistence Tension	CDF	Burst Pressure	Min. Int. Yield	BDF
		Btm		lb/ft	Grade	Conn	Klbs	Klbs			Psi	Psi		Psi	Psi	
9-5/8"	0	9200	7330	47.0	N-80	LTC	Not Applicable - Cemented in Place				3427	4760	1.39	5345	6870	1.29
5-1/2"	8900	11900	8816	17	S-95	BTC	498	471	9.76	9.24	6418	8580	1.34	4487	9190	2.05

Producing Case

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S-65 ST-01

CASING DESIGN

9-5/8" Intermediate Casing String – Drilling through Whipstock Window Case

Effective Csg Window Depth is 8800' MD/ 6687' TVD (Existing String)

Casing: 9-5/8", 47#/ft, N-80, LT&C

Collapse

Collapse Rating 4760 psi

Assume pipe is evacuated with 0.115 psi/ft gradient gas inside.

This string of 9-5/8" casing was set with 11.4 ppg MW in 1986.

Pm = 7330'(11.2)(.052) = 4270 psi Gg = (0.115*7330)= 843 psi

Pc = 4270 – 843 = 3427 psi

S_{FC} = 4760/3427 = 1.39

Burst

Burst rating 6870 psi

Max Anticipated MW to drill out – 14.0 ppg

MASP= 2713 psi (frac.press. -9-5/8" window w/ 1/3rd evacuation @TD – 7730' TVD)

1st calculate MASP to break down shoe with 1/3rd of wellbore evacuated with gas, assuming 0.115 psi/ft gas gradient and 2/3rd full of mud.

Upper one third of wellbore gas-filled = 8816*0.333=2936 ft

Fracture Pressure at 7330' TVD = 6250 psi

MASP = 6250-((2936)(0.115)-(0.052*14.0*(7330-2936)) = 2713 psi

1/3 of BHP at 8816' TVD = (0.052*12.0*8816) *0.333 = 1832 psi

Therefore the greater value of 2713 psi is utilized

S_{FB} = 6870/2713 = 2.53

Tension Rating

Not applicable. Existing pipe already cemented in place.

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S65 ST-01 REDRILL

CASING DESIGN

9-5/8" Intermediate Casing String – Producing Case

Effective TOL Setting Depth: 8900'MD/7146' TVD (5-1/2" production)

Existing Casing: 9-5/8", 47#/ft, N-80, LT&C

Collapse

- Collapse Rating 4760 psi
- Assume pipe is evacuated with only 0.115 psi/ft gas gradient inside.
- Conditions are the same as assumed for the drilling case as this is an existing string set and cemented in 1986.

S_{FC} = 1.22

Burst

Burst rating 6870 psi

Production packer setting depth = 8250' TVD

MASP = BHP at total depth less the gas gradient (tubing leak at surface)

MASP = (.052)(12.0)(8816) – (0.115)(8816)

MASP = 4487 psi

$S_{FB\ TOP}$ = 6870/4487 psi = 1.53

Burst Pressure at Bottom = (MASP + Hydrostatic Comp. Fluid) – Pore pressure backup.

Burst Pressure at Bottom = (4487+((.052*14.0*8250)-(0.52)(12.0)(8250)))

Burst Pressure at Bottom = 5345 psi

$S_{FB\ BTM}$ = 6870/5345 PSI = 1.29

Tension Factor

Not applicable. Existing pipe already cemented in place.

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S-65 ST-01

CASING DESIGN

5-1/2", 17.0#/ft, S-95, BTC Liner with Tieback Receptacle

Effective Setting Depth is 11900' MD/ 8816' TVD
Top of Liner to be at ±8900' MD / 6481' TVD

Estimated Top of Cement is 8900' MD

Collapse

Maximum Mud weight for the 5-1/2" casing interval is 14.0 ppg
Pc = (8816)(14.0 ppg)(.052) = 6418 psi
S_{FC} = 8580 psi / 6418 psi = 1.34

Burst

Anticipated WHP = (.052)(12.0)(8816)-(0.115)(8816) = 4487 psi
S_{FB} = 9190 psi / 4487 psi = 2.05

Tensile

Buoy Weight = (17.0)(8816-7146)(1-0.7861) = 6073#'s
5-1/2", 17#, S-95, BTC Joint = 498,000#
Body = 471,000#

Design Factor with Buoyancy

S_{FJT} = 498,000# /(((17)(11900-8900))-6073) = 11.08
S_{FB} = 471,000# /(((17)(11900-8900))-6073) = 10.48

Design Factor Ignoring Buoyancy

S_{FJT} = 498,000# /(3000 ft x 17#'s/ft) = 9.76
S_{FB} = 471,000# /(3000 ft x 17#'s/ft) = 9.24

Maximum Overpull w/ Safety Factor - Ignoring Buoyancy
Jt = 498,000# /2 - 51,000# = 198,000#'s

OCS-P0216
PLATFORM GILDA
WELL S65 ST-01 I
CEMENT SLURRY DESIGN

ABANDONMENT PLUG (Plug Perforations inside 7" Liner) w/Cement Retainer

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft	Volume Factor		Amount and Type of Cement
*1	118	1.15	=	105 sacks Class G Cement + 0.2 gal/sx dispersant + 0.1 gal/sx retarder
2	10.5	1.15	=	10sacks (Use minimum of 20 sx) to set 50 linear ft. of Class G Cement + 0.2 gal/sx dispersant + 0.1 gal/sx retarder

* 566 linear ft.below cement retainer (retainer set 50' above top perf)

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Plug Geometry

	Plug Top		Plug Bottom	
1 & 2	10238 ft	to	10854 ft	with 6.184 inch ID Casing

Note: Actual Volumes and Additive Concentrations are subject to refinement pending results of laboratory tests and wellbore temperatures realized

OCS-P0216
PLATFORM GILDA
WELL S65 ST-01
CEMENT SLURRY DESIGN

ALTERNATIVE WITH BRIDGE PLUG ISOLATION OF PRODUCTION ZONE

ABANDONMENT PLUG (Set a Bridge Plug Inside 7" Liner within 150 ft of the top Perforation with a minimum volume of 50 cubic feet of cement dropped on top)

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft	Volume Factor		Amount and Type of Cement
1	10.5	1.15	=	10sacks (Use minimum of 20 sx) to set 50 linear ft. of Class G Cement + 0.2 gal/sx dispersant + 0.1 gal/sx retarder

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Cement Plug Geometry

	Plug Top		Plug Bottom	
1	10238 ft	to	10288 ft	with 6.184 inch ID Casing

Note: Actual Volumes and Additive Concentrations are subject to refinement pending results of laboratory tests and wellbore temperatures realized

OCS-P0216
PLATFORM GILDA
WELL S65 ST-01 Re-drill
CEMENT SLURRY DESIGN

5-1/2" LINER

FLUID SPECIFICATIONS

Weighted Spacer — **30.0 bbls Mudpush XT mixed @ 14.5 ppg**

Fluid	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
Lead Slurry	904	/	1.16	=	780 sacks Class G Cement + 0.40% turbulence inducer + 0.30% fluid loss additive + 0.2% dispersant + 0.2% de-foamer

***Displacement** — **158 bbls MUD @ 14.0 ppg**

***Assumes liner run on 5", 19.5# DP with TOL to be @ 8900') to be verified with the cementing and liner service representatives on the wellsite**

Cement Properties

	Slurry No. 1
Slurry Weight (ppg)	15.8
Slurry Yield (cf/sack)	1.16
Amount of Mix Water (gps)	5.07

Note: Actual Volumes and Additive Concentrations are subject to refinement pending results of laboratory tests and electric wireline logging results

OCS-P0216
PLATFORM GILDA
WELL S-65 ST01
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
9200' - 11900'	AIT/GR/NEUTRON/DENSITY/GR
9200' - 11900'	DIPOLE SONIC/CMR

Mud Logs

Interval (MD)	
9200' - 11900'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

FORMATION	MD (FT)	TVD (FT)	SUBSEA (FT)
LP "L"	11102	8205	-8908
LP "M"	11235	8307	-8200
LP "N"	11564	8559	-8452
TD	11900	8816	-8709

OCS-P0216
PLATFORM GILDA
WELL S65 ST-01
BOP PROGRAM

9 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 5000 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi
7 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi /5000 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which will be after the tree is removed and the BOPE is NU and @ 14 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-65 ST-01
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Shut down the pump and verify well flow.
2. Position tool joint above the rotary table.
3. Open the choke line.
4. Close in pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the pipe rams.
6. Close choke line, install the kelly or top drive, and open safety valve.
7. Read the shut in casing and drill pipe pressure.
8. If necessary, and the string is "pipe light" or near balance point, pump a sufficient amount of fluid down the drill pipe and /or kill line to bring the SICP to a lower value (in any instance do not exceed MASP).
9. Close the annular preventer.
10. Open the pipe rams, remove the kelly. Install IBOP above the safety valve. Ensure that the safety valve is in open position prior to stripping in hole.
11. Strip in the hole while monitoring the shut in casing pressure. If casing Pressure rises and string is near the "balance" point again repeat steps 4-10. (For step 7, the SIDPP will have to be determined by slowly bringing the pump on line and observing slight pressure increase when IBOP opens).
12. Once on bottom, follow the normal kill procedure.

OCS-P0216
PLATFORM GILDA
WELL S-65 ST-01
H_2S CONTINGENCY PLAN

- **Probability:** Prior to the initiation of water injection, no hydrogen sulfide had ever been encountered in the Upper or Lower Repetto formations at any point in time. Only in recent production operations have occasional traces of hydrogen sulfide been detected. This is a result of the degeneration of microbes in the source water since injection has been initiated. As our selected sidetrack point is a considerable distance below the known oil/water contact point, we do not anticipate encountering even trace amounts of hydrogen sulfide.

- **Contingency Plan:** Nuevo Energy Company will follow the "Contingency Plan for Hydrogen Sulfide and Sulfer Dioxide". Prepared by Torch Operating Company, a copy is on file with the MMS Camarillo, CA office.

- **Early Detection:** As per the mud program attached in the MMS Sundry application, the alkalinity of the drilling fluid will be maintained at all times above neutral at a PH between 8.5-9.0 value. Hydrogen sulfide gas can be identified by reduction of pH of the mud (ie. since the H2S is an acid gas, the pH of the mud is quickly reduced by neutralization of OH-). Frequent property checks/tests of mud alkalinity will be conducted by the mud engineer at the site. He will monitor for possible hydrogen sulfide presence. In addition, a Garrett gas train will be kept at the location and used on a regular basis to monitor for the presence of hydrogen sulfide gas.

- **Personnel Protection Equipment Measures:** Additional air packs will be provided for the extra personnel on board the platform during the activity period to comply with the Contingency Plan.

- **Personnel Training:** An orientation, including an initial H_2S training program, will be provided for all personnel arriving at Platform Gilda

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA

WELL S65 ST-01

ANTICIPATED PRESSURES and MINIMUM MUD REQUIREMENTS

Depth	Hole Size	Csg Size	Casing Depth (MD)	Casing Depth (TVD)	Expected Frac Gradient	Expected Pressure Gradient	Maximum Mud Weight	Maximum Anticipated Surface Pressure	Criteria	Barite 100 lb sacks	XCD Polymer 25 lb sacks	Scavenger 50 lb sacks
Feet	Inches	Inches	Feet	Feet	psi/ft	psi/ft	ppg	psi		Minimum Mud Materials Required on Board		
* 0-9200	12.25	9.625	9200	7330	0.87	0.468	14.0	2713	1	500	80	0
9200-11900'	8.5	5-1/2" Liner	11900	8816	0.89	0.624	14.0	4487	2	500	80	0

Criteria 1 Maximum anticipated surface pressure is pressure required to breakdown casing shoe with hole 1/3 full of gas and 2/3 full of mud at next casing point, or 1/3 of BHP at next casing point, whichever is greater.

Criteria 2 BHP – Gas Gradient (.115 psi/ft).

*Existing casing with window cut.

500 bbls active tank volume and 400 bbls reserve tank volume

Efforts at all times to keep active tank as close to "topped off" status as practically possible.

PROPOSED MUD PROGRAM

NUEVO ENERGY COMPANY
Platform Gilda
Santa Clara Field
S65 ST-01
OCS-P-0216

November 2000

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	FLUID LOSS (cc 30 min)	MUD COMPONENTS
9240' -9250'	14.0	60 – 80	N/C	Seawater Durogel Soda Ash
Mill Window in 9-5/8" Casing				
9250' – 11,900'	14.0	48-56	<6 cc	Seawater Gelite Soda Ash SP-101 Barite Soltex Tannathin XCD Glydrill MC Xtra Lube Dril-XT
Run 5-1/2" Liner				

DISCUSSION BY INTERVAL

INTERVAL:	Milling	9-5/8" Casing	9240' – 9250'

FLUID TYPE: Seawater/ Durogel

COMPONENTS WITH TYPICAL USAGE LEVELS:

Durogel	22 ppb
Soda Ash	.5-1 ppb
Sawdust	as needed
Barite	as needed for weight

RECOMMENDED MUD SPECIFICATIONS:

Density	14.0 ppg
Viscosity	60-80 sec/qt.
Yield Point	30+
Fluid Loss	no control
3 rpm reading	20+

POSSIBLE PROBLEMS / SOLUTIONS:

1. Hole Cleaning
   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

DISCUSSION:

Mix .5 ppb of Soda Ash into Seawater.Add 20 ppb of Durogel. Shear as much as possible. The more shear the more the viscosity yield. Add enough Barite for a mud weight of 13.7ppg.

Initiate Milling, add more Durogel if the 3 rpm reading is below 20 as measured on a six speed VG meter. Run elevated rheologies to help remove the metal cuttings from the annulus.

After milling the window, set a cement kick off plug.
Add Sodium Bicarbonate to polish off the plug.

DISCUSSION BY INTERVAL

INTERVAL: 9250' – 11,900' Drill 8-1/2" Hole for 5-1/2" liner

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	15-17 ppb
Soda Ash ($NaCO_3$)	4-5 ppb
SP-101	1.5-2.0 ppb
Soltex or Ashasol	6.0 ppb
Barite (Barium Sulfate)	as needed
Dril-XT	as needed
Tannathin	as needed
XCD	as needed
Xtra Lube	2% as needed
Glydril MC	2% by Volume
SafeCarb VF.F,M,C	As per Opti-Bridge

RECOMMENDED MUD SPECIFICATIONS:

Density	14.0 ppg
Viscosity	48-56 sec/qt
YP	12-18
3 RPM	8 - 12
Fluid Loss	<6
pH	8.5 - 9.0
T.H. as Ca++	200 ppm or less
MBT	18-25
Chlorides	20,000 mg/l +
LG Solids	< 6%

POSSIBLE PROBLEMS:

1. Gas
   a) Circulate out a small intrusion
   b) Raise mud weight if necessary

2. Kick
   a) Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
   b) Shut-in well. Raise mud weight.

3. Differential Sticking
   a) Maintain the API Fluid Loss below 6 cc
   b) Maintain 6 ppb of Soltex or Asphasol Supreme in the system at all times
   c) Maintain 2% Glydril MC alt all times
   d) Spot Sized Calcium Carbonate (SafeCarb) across the low pressure zones.
   e) Add Tannathin as a plugging agent.
   f) Add 2% by volume of Xtra Lube before running casing.
   g) Keep the amount of native drilled solid to a minimum with proper solids Control equipment.

4. Tight hole
   a) Wipe the hole.
   b) Reduce the fluid loss below 6 cc
   c) Raise the mud weight
   d) Add 2% Xtra Lube
   e) Spot Bridging Material

5. Solids build up
   a) Run all applicable solids control equipment We recommend running Swaco's ALS Shakers
   b) Dilute as much as possible

6. Bit Balling
   a) Add ½ % of Dril-XT
   b) For Severe balling add 1 % Dril-XT

7. Stuck Pipe
   a) Spot Pipe Lax ENV

DISCUSSION:

Polished off the cement plug with the Durogel Mud.

Change over to a pre mixed 14.0 ppg Seawater/SP-101/Gelite Drilling System. Continue to drill ahead adding Sp-101 to maintain an API fluid loss of 6 cc or lower. Soda Ash should be continually added to keep the Calcium/ Hardness level below 200 Mg/L. Add pre-hydrated Gelite and straight Gelite to the system to help build and maintain a filter cake on the wellbore. Add and maintain 6 ppb of Soltex or Asphasol Supreme in the system at all times to help prevent differential sticking and to provide some lubricity.

2% Glydril MC should also be added and maintain in the system. The Glydril will help provide some pore plugging which help in the prevention of differential sticking. Run the chloride content at 20,000 mg/L or above.

At 10.000 feet MD spot a pill of sized Calcium Carbonate to help seal off the lower pressure "F" zone where the overpressure will be 2,900 psi.

Use XCD polymer to increase the low end rheology which will help facilitate better hole cleaning.

Keep 40 to 60 barrels of a spotting fluid on the dock for differential stuck pipe. We recommend Pipelax ENV.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a Swaco ALS flow line cleaner. If the low gravity solids content goes above 6 % dilute back with water. Keeping the low gravity solids content below 6 % will help the quality of the filter cake and help keep all of the other physical properties in better condition.

For bit balling add ½ % of Dril-Xt to clean off the bottom hole assembly. If the bit balling becomes severe add an additional ½ %.

Prior to running casing add 2 % Xtra Lube to the system.

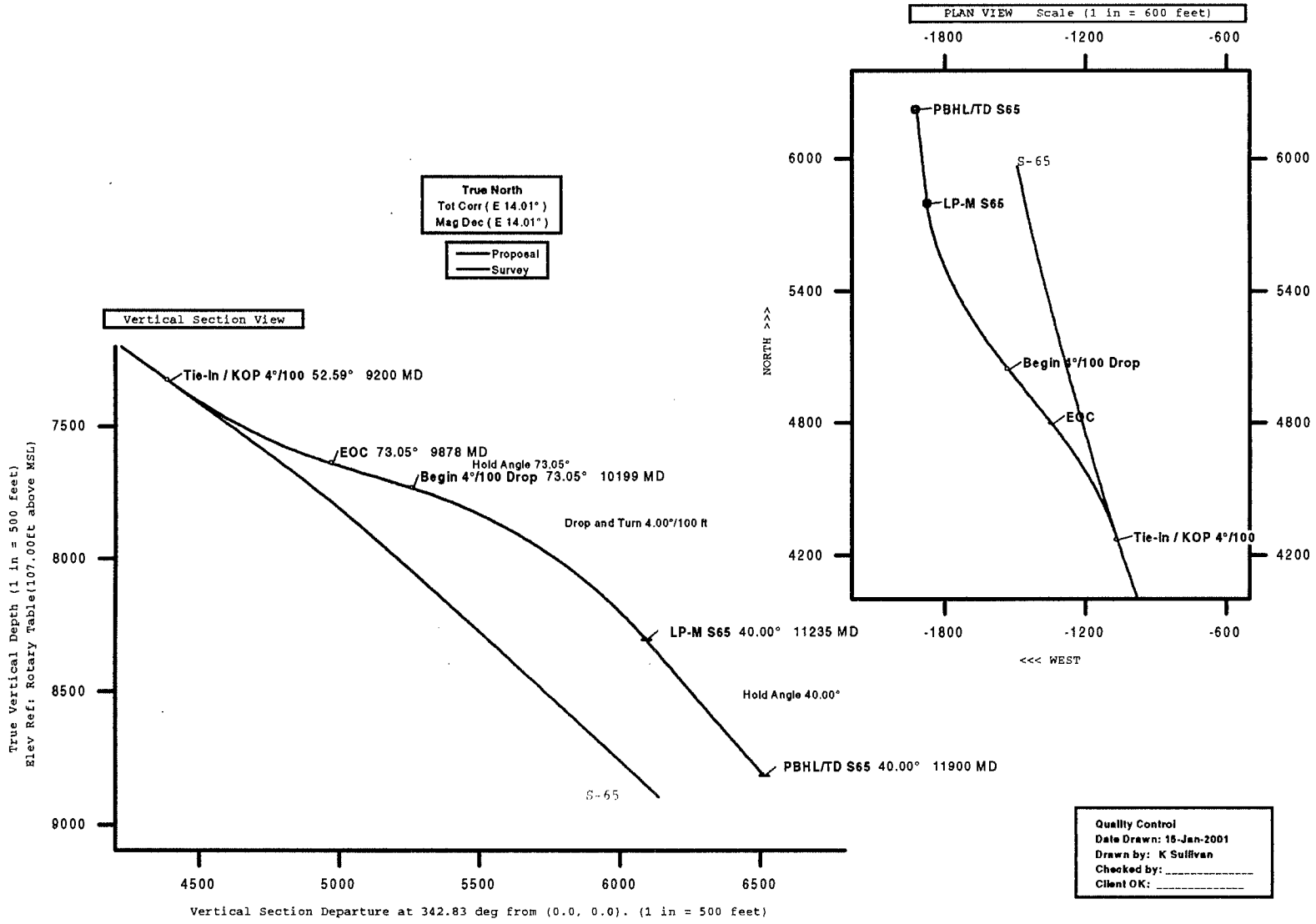
Nuevo Energy Company

GILDA S65 ST-01 RD PRESSURES

MARKER	MD	TVD	GRAD	FORM PSI	PORE PRESS	OVER BALANCED AT TD
LP F	9400'	7443'	0.349	2500	6.5	2900
LP K	10,783'	7997'	0.563	4500	10.8	1330
LP L	11,102'	8205'	0.585	4800	11.3	1150
LP M	11,235'	8307'	0.602	5000	11.6	1035
LP N	11,564'	8559'	0.613	5250	11.8	980
TD	11900	8816'	0.624	5500	12.0	917

Torch Operating Company

WELL	FIELD	STRUCTURE
S-65	T01 Santa Clara Field	Platform Gilda



Quality Control
Date Drawn: 15-Jan-2001
Drawn by: K Sullivan
Checked by: _____
Client OK: _____

Schlumberger

Proposed Well Profile - Geodetic Report

Report Date:	January 15, 2001	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Torch Operating Company	Vertical Section Azimuth:	342.830°
Field:	T01 Santa Clara Field	Vertical Section Origin:	N 0.000 ft, E 0.000 ft
Structure / Slot:	Platform Gilda / P-0216 S-65	TVD Reference Datum:	Rotary Table
Well:	S-65	TVD Reference Elevation:	107.0 ft relative to MSL
Borehole:	S-65	Sea Bed / Ground Level Elevation:	0.000 ft relative to MSL
UWI/API#:		Magnetic Declination:	14.010°
Survey Name / Date:	T010042p1r0 / January 15, 2001	Total Field Strength:	48360.926 nT
Tort / AHD / DDI / ERD ratio:	152.097° / 6593.66 ft / 6.132 / 0.748	Magnetic Dip:	58.854°
Grid Coordinate System:	NAD27 California State Planes, Zone VI, US Feet	Declination Date:	September 09, 1998
Location Lat/Long:	N 34 10 56.502, W 119 25 7.214	Magnetic Declination Model:	BGGM 2000
Location Grid N/E Y/X:	N 747996.800 ftUS, E 1041700.900 ftUS	North Reference:	True North
Grid Convergence Angle:	-1.74124023°	Total Corr Mag North -> True North:	+14.010°
Grid Scale Factor:	1.00006363	Local Coordinates Referenced To:	Well Head

									Grid Coordinates		Geographic Coordinates	
Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Tie-In / KOP 4°/100	9200.00	52.59	343.1	7329.56	4392.06	4268.45	-1063.13	0.00	752295.85	1040767.90	N 34 11 38.727	W 119 25 19.870
	9300.00	55.39	339.5	7388.36	4472.89	4345.03	-1089.10	4.00	752373.19	1040744.27	N 34 11 39.484	W 119 25 20.179
	9400.00	58.29	336.2	7443.06	4556.27	4422.54	-1120.64	4.00	752451.62	1040715.10	N 34 11 40.251	W 119 25 20.555
	9500.00	61.27	333.2	7493.39	4641.78	4500.63	-1157.60	4.00	752530.81	1040680.53	N 34 11 41.023	W 119 25 20.995
	9600.00	64.32	330.2	7539.11	4729.01	4578.90	-1199.78	4.00	752610.33	1040640.74	N 34 11 41.798	W 119 25 21.497
	9700.00	67.42	327.5	7579.99	4817.54	4656.97	-1247.00	4.00	752689.80	1040595.91	N 34 11 42.570	W 119 25 22.059
	9800.00	70.57	324.8	7615.84	4906.94	4734.46	-1299.01	4.00	752768.84	1040546.28	N 34 11 43.336	W 119 25 22.678
EOC	9878.17	73.05	322.8	7640.24	4977.14	4794.40	-1342.85	4.00	752830.09	1040504.28	N 34 11 43.929	W 119 25 23.200
Begin 4°/100 Drop	10198.61	73.05	322.8	7733.65	5265.17	5038.63	-1528.06	0.00	753079.85	1040326.56	N 34 11 46.345	W 119 25 25.405
	10200.00	73.00	322.9	7734.05	5266.43	5039.70	-1528.86	4.00	753080.94	1040325.80	N 34 11 46.356	W 119 25 25.415
	10300.00	69.56	325.0	7766.14	5356.00	5116.22	-1584.63	4.00	753159.13	1040272.37	N 34 11 47.113	W 119 25 26.079
	10400.00	66.14	327.2	7803.85	5444.68	5193.09	-1636.27	4.00	753237.53	1040223.09	N 34 11 47.873	W 119 25 26.693
	10500.00	62.76	329.6	7846.98	5532.04	5269.91	-1683.52	4.00	753315.76	1040178.19	N 34 11 48.633	W 119 25 27.256
	10600.00	59.41	332.1	7895.33	5617.64	5346.34	-1726.16	4.00	753393.45	1040137.89	N 34 11 49.389	W 119 25 27.764
	10700.00	56.12	334.8	7948.67	5701.07	5421.97	-1763.97	4.00	753470.20	1040102.40	N 34 11 50.137	W 119 25 28.214
	10800.00	52.89	337.7	8006.73	5781.93	5496.46	-1796.78	4.00	753545.66	1040071.86	N 34 11 50.874	W 119 25 28.604
	10900.00	49.74	340.9	8069.23	5859.81	5569.44	-1824.43	4.00	753619.45	1040046.44	N 34 11 51.596	W 119 25 28.934
	11000.00	46.69	344.3	8135.87	5934.34	5640.55	-1846.77	4.00	753691.21	1040026.27	N 34 11 52.299	W 119 25 29.200
	11100.00	43.75	348.2	8206.31	6005.17	5709.44	-1863.70	4.00	753760.59	1040011.44	N 34 11 52.981	W 119 25 29.401
	11200.00	40.95	352.4	8280.23	6071.93	5775.78	-1875.14	4.00	753827.25	1040002.02	N 34 11 53.637	W 119 25 29.537
LP-M S65	11235.19	40.00	354.0	8307.00	6094.39	5798.46	-1877.85	4.00	753850.00	1040000.00	N 34 11 53.861	W 119 25 29.570
PBHL/TD S65	11899.64	40.00	354.0	8816.00	6513.41	6223.22	-1922.50	0.00	754275.95	1039968.28	N 34 11 58.063	W 119 25 30.101

Survey Error Model: Wolff & deWardt 1.0000 sigma

Surveying Programme:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type
9200.00	11899.64	Act-Stns	Anadrill MWD (none assigned-default tool used)

Schlumberger

ANTI-COLLISION SUMMARY REPORT

Client:	Nuevo Energy Company	*Slot:*	P-0216 S-65
Field:	T01 Santa Clara Field	*Well:*	S-65
Structure:	Platform Gilda	*Borehole:*	S-65
Subject Survey:	T010042p1r0	*Date:*	February 23, 2001
Analysis Method:	3D Least Distance	*Depth Interval:*	Every 100.00ft MD

Offset Survey	Separation(ft)		Subject Survey		Risk Radii(ft)			Alert	Status
	EOU	Ct-Ct	MD(ft)	TVD(ft)	Buffer	Minor	Major		
S-28	81.34	83.02	300.00	300.00	4.80	4.50	3.60		FLOW
S-28RD	81.34	83.02	300.00	300.00	4.80	4.50	3.60		FLOW
S-56	76.79	82.84	800.00	799.99	12.80	12.00	9.60		FLOW
S-1	53.15	76.47	2500.00	2499.96	39.00	36.50	27.00		FLOW
S-10	75.82	82.75	900.00	899.99	14.40	13.50	10.80		FLOW
S-50	75.82	82.75	900.00	899.99	14.40	13.50	10.80		FLOW
S-11	75.92	81.11	700.00	699.99	11.20	10.50	8.40		FLOW
S-54	75.92	81.11	700.00	699.99	11.20	10.50	8.40		FLOW
S-54ST	75.92	81.11	700.00	699.99	11.20	10.50	8.40		FLOW
S-12	67.35	75.15	1000.00	999.99	16.00	15.00	12.00		FLOW
S-14	83.98	89.17	700.00	699.99	11.20	10.50	8.40		FLOW
S-14ST	83.98	89.17	700.00	699.99	11.20	10.50	8.40		FLOW
S-18	73.21	79.25	800.00	799.99	12.80	12.00	9.60		FLOW
S-20	67.31	75.10	1000.00	999.99	16.00	15.00	12.00		FLOW
S-21	3.13	13.54	1300.00	1299.98	20.80	19.50	15.00		MAJOR
	10.89	16.06	700.00	699.99	**11.20**	10.50	8.40	Enter Buffer	
	10.08	16.16	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	9.30	16.23	900.00	899.99	14.40	13.50	**10.80**	Enter Major	
	15.18	27.37	1500.00	1499.97	24.00	22.50	**17.00**	Exit Major	
	15.18	27.37	1500.00	1499.97	24.00	**22.50**	17.00	Exit Minor	
	15.18	27.37	1500.00	1499.97	**24.00**	22.50	17.00	Exit Buffer	
S-22OH	77.79	82.96	700.00	699.99	11.20	10.50	8.40		FLOW
S-22ST1	77.79	82.96	700.00	699.99	11.20	10.50	8.40		FLOW
S-22ST2	77.79	82.96	700.00	699.99	11.20	10.50	8.40		FLOW
S-60	77.79	82.96	700.00	699.99	11.20	10.50	8.40		FLOW

S-60ST	77.79	82.96	700.00	699.99	11.20	10.50	8.40	FLOW
S-25	23.02	29.08	800.00	799.99	12.80	12.00	9.60	FLOW
S-26	79.11	82.54	500.00	500.00	8.00	7.50	6.00	FLOW
S-3OH	85.59	92.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-3ST1	85.88	92.81	900.00	899.99	14.40	13.50	10.80	FLOW
S-3ST1	85.88	92.81	900.00	899.99	14.40	13.50	10.80	FLOW
S-3ST2	85.59	92.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-3ST3	85.59	92.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-33OH	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-33RD	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-33RDST1	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-33RDST2	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-33RDST3	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-36	58.19	67.73	1200.00	1199.98	19.20	18.00	14.00	FLOW
S-36ST	58.19	67.73	1200.00	1199.98	19.20	18.00	14.00	FLOW
S-37OH	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-37ST	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-77	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-77ST1	33.01	38.18	700.00	699.99	11.20	10.50	8.40	FLOW
S-77ST2	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-77ST3	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-39	27.06	33.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-4	49.42	65.08	1900.00	1899.96	30.00	28.50	21.00	FLOW
S-40OH	73.46	79.51	800.00	799.99	12.80	12.00	9.60	FLOW
S-40ST	73.46	79.51	800.00	799.99	12.80	12.00	9.60	FLOW
S-48	73.46	79.51	800.00	799.99	12.80	12.00	9.60	FLOW
S-48ST	73.46	79.51	800.00	799.99	12.80	12.00	9.60	FLOW
S-42	66.68	76.21	1200.00	1199.98	19.20	18.00	14.00	FLOW
S-44	68.12	78.55	1300.00	1299.98	20.80	19.50	15.00	FLOW
S-44 ST1	73.34	78.55	1300.00	1299.98	20.80	19.50	15.00	FLOW
S-44ST2	68.12	78.55	1300.00	1299.98	20.80	19.50	15.00	FLOW

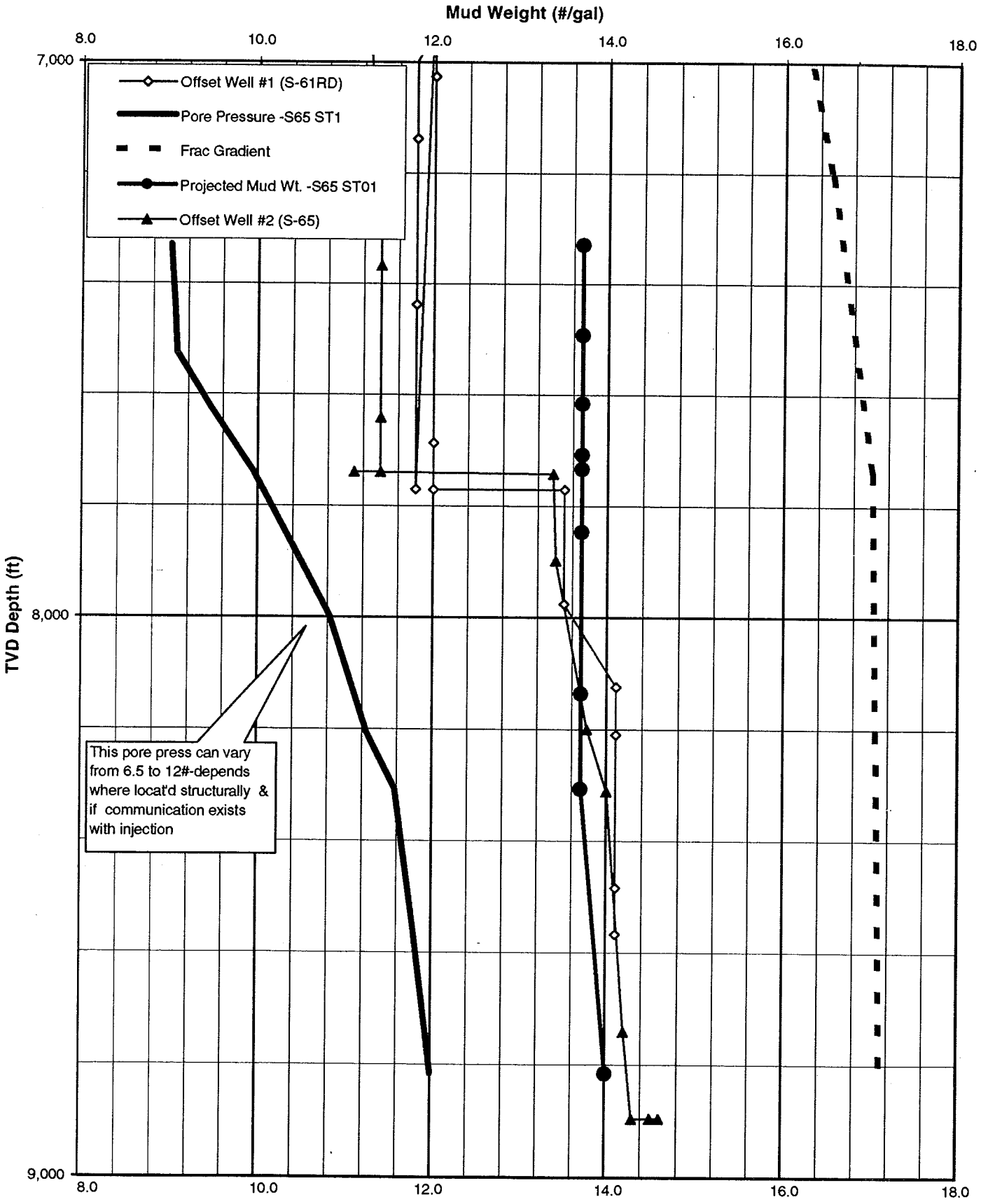
S-46	55.02	75.92	2500.00	2499.96	39.00	36.50	27.00	FLOW
S-49	3.64	25.40	2600.00	2599.93	40.50	37.80	28.00	MAJOR
	8.43	13.60	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.43	13.60	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	7.79	13.88	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	18.54	42.08	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	36.80	61.26	2900.00	2896.46	45.00	**41.70**	31.00 Exit Minor	
	36.80	61.26	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-85OH	3.64	25.40	2600.00	2599.93	40.50	37.80	28.00	MAJOR
	8.43	13.60	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.43	13.60	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	7.79	13.88	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	18.54	42.08	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	36.80	61.26	2900.00	2896.46	45.00	**41.70**	31.00 Exit Minor	
	36.80	61.26	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-85ST	3.64	25.40	2600.00	2599.93	40.50	37.80	28.00	MAJOR
	8.43	13.60	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.43	13.60	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	7.79	13.88	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	18.54	42.08	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	36.80	61.26	2900.00	2896.46	45.00	**41.70**	31.00 Exit Minor	
	36.80	61.26	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-85ST1	3.64	25.40	2600.00	2599.93	40.50	37.80	28.00	MAJOR
	8.43	13.60	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.43	13.60	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	7.79	13.88	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	18.54	42.08	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	36.80	61.26	2900.00	2896.46	45.00	**41.70**	31.00 Exit Minor	
	36.80	61.26	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-5	70.40	78.19	1000.00	999.99	16.00	15.00	12.00	FLOW
S-51ST	36.55	41.72	700.00	699.99	11.20	10.50	8.40	FLOW
S-52	57.55	68.84	1400.00	1399.97	22.40	21.00	16.00	FLOW
S-62	57.55	68.84	1400.00	1399.97	22.40	21.00	16.00	FLOW
S-53	3.25	13.53	1200.00	1199.98	19.20	18.00	14.00	MAJOR
	9.58	18.67	1100.00	1099.98	**17.60**	16.50	13.00 Enter Buffer	
	9.58	18.67	1100.00	1099.98	17.60	**16.50**	13.00 Enter Minor	
	9.58	18.67	1100.00	1099.98	17.60	16.50	**13.00** Enter Major	
	3.25	13.53	1200.00	1199.98	19.20	18.00	**14.00** Exit Major	
	3.25	13.53	1200.00	1199.98	19.20	**18.00**	14.00 Exit Minor	
	3.25	13.53	1200.00	1199.98	**19.20**	18.00	14.00 Exit Buffer	
S-55	12.72	32.75	2400.00	2399.96	37.50	35.20	26.00	MAJOR
	13.80	20.76	900.00	899.99	**14.40**	13.50	10.80 Enter Buffer	
	13.20	21.02	1000.00	999.99	16.00	**15.00**	12.00 Enter Minor	
	13.30	22.86	1200.00	1199.98	19.20	18.00	**14.00** Enter Major	
	21.75	44.41	2700.00	2699.60	42.00	39.10	**29.00** Exit Major	
	35.34	58.87	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	35.34	58.87	2800.00	2798.61	**43.50**	40.40	30.00 Exit Buffer	
S-67	7.12	29.05	2500.00	2499.96	39.00	36.50	27.00	MAJOR
	11.40	20.60	800.00	799.99	**12.80**	12.00	9.60 Enter Buffer	

	11.40	20.60	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	10.70	20.77	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	28.18	52.14	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	28.18	52.14	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	28.18	52.14	2800.00	2798.61	**43.50**	40.40	30.00 Exit Buffer	
S-83	7.12	29.05	2500.00	2499.96	39.00	36.50	27.00	MAJOR
	11.40	20.60	800.00	799.99	**12.80**	12.00	9.60 Enter Buffer	
	11.40	20.60	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	10.70	20.77	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	28.18	52.14	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	28.18	52.14	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	28.18	52.14	2800.00	2798.61	**43.50**	40.40	30.00 Exit Buffer	
S-57	3.69	16.74	1600.00	1599.97	25.50	24.00	18.00	MAJOR
	7.08	10.51	500.00	500.00	**8.00**	7.50	6.00 Enter Buffer	
	7.08	10.51	500.00	500.00	8.00	**7.50**	6.00 Enter Minor	
	6.14	10.44	600.00	600.00	9.60	9.00	**7.20** Enter Major	
	18.68	33.55	1800.00	1799.96	28.50	27.00	**20.00** Exit Major	
	18.68	33.55	1800.00	1799.96	28.50	**27.00**	20.00 Exit Minor	
	18.68	33.55	1800.00	1799.96	**28.50**	27.00	20.00 Exit Buffer	
S-59	17.58	24.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-59ST1	17.58	24.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-61	2.64	2.64	0.00	0.00	0.00	0.00	0.00	FLOW
S-63	14.09	20.14	800.00	799.99	12.80	12.00	9.60	FLOW
S-64	76.84	82.88	800.00	799.99	12.80	12.00	9.60	FLOW
S-65	-246.24	3.50	9300.00	7388.36	141.00	124.90	95.00	MAJOR
	0.00	0.00	100.00	100.00	**1.60**	1.50	1.20 Enter Buffer	
	0.00	0.00	100.00	100.00	1.60	**1.50**	1.20 Enter Minor	
	0.00	0.00	100.00	100.00	1.60	1.50	**1.20** Enter Major	
	90.05	381.48	10300.00	7766.14	156.00	137.90	**105.00** Exit Major	
	130.34	425.79	10400.00	7803.85	157.50	**139.20**	106.00 Exit Minor	
	130.34	425.79	10400.00	7803.85	**157.50**	139.20	106.00 Exit Buffer	
	165.81	506.77	11600.00	8586.46	**175.50**	154.80	118.00 Enter Buffer	
	151.29	495.87	11700.00	8663.07	177.00	**156.10**	119.00 Enter Minor	
	146.39	492.88	11800.00	8739.67	178.50	**157.40**	120.00 Exit Minor	
S-7	60.06	68.73	1100.00	1099.98	17.60	16.50	13.00	FLOW
S-71	11.18	17.29	800.00	799.99	12.80	12.00	9.60	MINOR
	11.18	17.29	800.00	799.99	**12.80**	12.00	9.60 Enter Buffer	
	11.18	17.29	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	12.02	19.08	900.00	899.99	14.40	**13.50**	10.80 Exit Minor	
	12.02	19.08	900.00	899.99	**14.40**	13.50	10.80 Exit Buffer	
S-75	8.02	14.07	800.00	799.99	12.80	12.00	9.60	MAJOR
	8.48	13.65	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.48	13.65	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	8.02	14.07	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	9.25	16.18	900.00	899.99	14.40	13.50	**10.80** Exit Major	
	9.25	16.18	900.00	899.99	14.40	**13.50**	10.80 Exit Minor	
	9.25	16.18	900.00	899.99	**14.40**	13.50	10.80 Exit Buffer	
S-13	18.57	28.10	1200.00	1199.98	19.20	18.00	14.00	BUFFER
	18.57	28.10	1200.00	1199.98	**19.20**	18.00	14.00 Enter Buffer	

	18.57	28.10	1200.00	1199.98	**19.20**	18.00	14.00 Exit Buffer	
S-15	19.38	27.18	1000.00	999.99	16.00	15.00	12.00	FLOW
S-16	34.38	46.88	1500.00	1499.97	24.00	22.50	17.00	FLOW
S-58	34.38	46.88	1500.00	1499.97	24.00	22.50	17.00	FLOW
S-17	13.12	20.04	900.00	899.99	14.40	13.50	10.80	MINOR
	13.12	20.04	900.00	899.99	**14.40**	13.50	10.80 Enter Buffer	
	13.12	20.04	900.00	899.99	14.40	**13.50**	10.80 Enter Minor	
	14.65	22.45	1000.00	999.99	16.00	**15.00**	12.00 Exit Minor	
	14.65	22.45	1000.00	999.99	**16.00**	15.00	12.00 Exit Buffer	
S-19	-7.80	12.21	2400.00	2399.96	37.50	35.20	26.00	MAJOR
	15.02	23.70	1100.00	1099.98	**17.60**	16.50	13.00 Enter Buffer	
	15.02	23.70	1100.00	1099.98	17.60	**16.50**	13.00 Enter Minor	
	12.76	22.33	1200.00	1199.98	19.20	18.00	**14.00** Enter Major	
	20.67	42.46	2600.00	2599.93	40.50	37.80	**28.00** Exit Major	
	33.01	55.74	2700.00	2699.60	42.00	**39.10**	29.00 Exit Minor	
	41.46	65.15	2800.00	2798.61	**43.50**	40.40	30.00 Exit Buffer	
S-2	58.91	73.70	1800.00	1799.96	28.50	27.00	20.00	FLOW
S-23	8.95	16.74	1000.00	999.99	16.00	15.00	12.00	MAJOR
	11.10	16.27	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	10.21	16.28	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	9.52	16.46	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	10.77	19.44	1100.00	1099.98	17.60	16.50	**13.00** Exit Major	
	10.77	19.44	1100.00	1099.98	17.60	**16.50**	13.00 Exit Minor	
	18.47	28.02	1200.00	1199.98	**19.20**	18.00	14.00 Exit Buffer	
S-23ST	8.95	16.74	1000.00	999.99	16.00	15.00	12.00	MAJOR
	11.10	16.27	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	10.21	16.28	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	9.52	16.46	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	10.77	19.44	1100.00	1099.98	17.60	16.50	**13.00** Exit Major	
	10.77	19.44	1100.00	1099.98	17.60	**16.50**	13.00 Exit Minor	
	18.47	28.02	1200.00	1199.98	**19.20**	18.00	14.00 Exit Buffer	
S-24	74.86	81.77	900.00	899.99	14.40	13.50	10.80	FLOW
S-27	17.17	23.22	800.00	799.99	12.80	12.00	9.60	FLOW
S-29	20.67	25.84	700.00	699.99	11.20	10.50	8.40	FLOW
S-30	62.45	151.74	5400.00	4935.55	82.50	74.20	56.00	MINOR
	68.19	154.74	5300.00	4866.16	**81.00**	72.90	55.00 Enter Buffer	
	68.19	154.74	5300.00	4866.16	81.00	**72.90**	55.00 Enter Minor	
	72.06	164.15	5500.00	5001.68	84.00	**75.50**	57.00 Exit Minor	
	72.06	164.15	5500.00	5001.68	**84.00**	75.50	57.00 Exit Buffer	
S-45	21.05	28.85	1000.00	999.99	16.00	15.00	12.00	FLOW
S-31	24.78	31.71	900.00	899.99	14.40	13.50	10.80	FLOW
S-32	55.27	65.68	1300.00	1299.98	20.80	19.50	15.00	FLOW
S-34	87.01	89.57	400.00	400.00	6.40	6.00	4.80	FLOW
S-35	30.83	38.62	1000.00	999.99	16.00	15.00	12.00	FLOW

S-38	73.78	81.56	1000.00	999.99	16.00	15.00	12.00	FLOW
S-41	41.34	47.39	800.00	799.99	12.80	12.00	9.60	FLOW
S-79OH	41.34	47.39	800.00	799.99	12.80	12.00	9.60	FLOW
S-79ST	41.34	47.39	800.00	799.99	12.80	12.00	9.60	FLOW
S-43	20.85	27.78	900.00	899.99	14.40	13.50	10.80	FLOW
S-6	73.96	80.01	800.00	799.99	12.80	12.00	9.60	FLOW
S-8	70.48	78.26	1000.00	999.99	16.00	15.00	12.00	FLOW
S-87	22.88	28.06	700.00	699.99	11.20	10.50	8.40	FLOW
S-89	18.06	22.36	600.00	600.00	9.60	9.00	7.20	FLOW
S-9	71.13	78.05	900.00	899.99	14.40	13.50	10.80	FLOW
S-91OH	6.26	28.19	2500.00	2499.96	39.00	36.50	27.00	MAJOR
	10.81	19.11	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	10.02	19.22	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	9.48	19.55	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	25.87	49.84	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	25.87	49.84	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	44.95	69.63	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-91ST	6.26	28.19	2500.00	2499.96	39.00	36.50	27.00	MAJOR
	10.81	19.11	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	10.02	19.22	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	9.48	19.55	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	25.87	49.84	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	25.87	49.84	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	44.95	69.63	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	

SANTA CLARA FIELD S65 ST03
Mud Weight vs. TVD Depth



Operator:	Nuevo Energy Company	**Spud Date:**	2001
Field:	Santa Clara Field	**KB:**	107'
Well:	S65-RD	**County:**	Federal Waters
Location:	OCS-P 0216		
API#:	Not Assigned Yet	**Geological Marker: Lwr Repetto**	

Conductor:
16" @ 1708' MD/TVD
Cemented to Surface

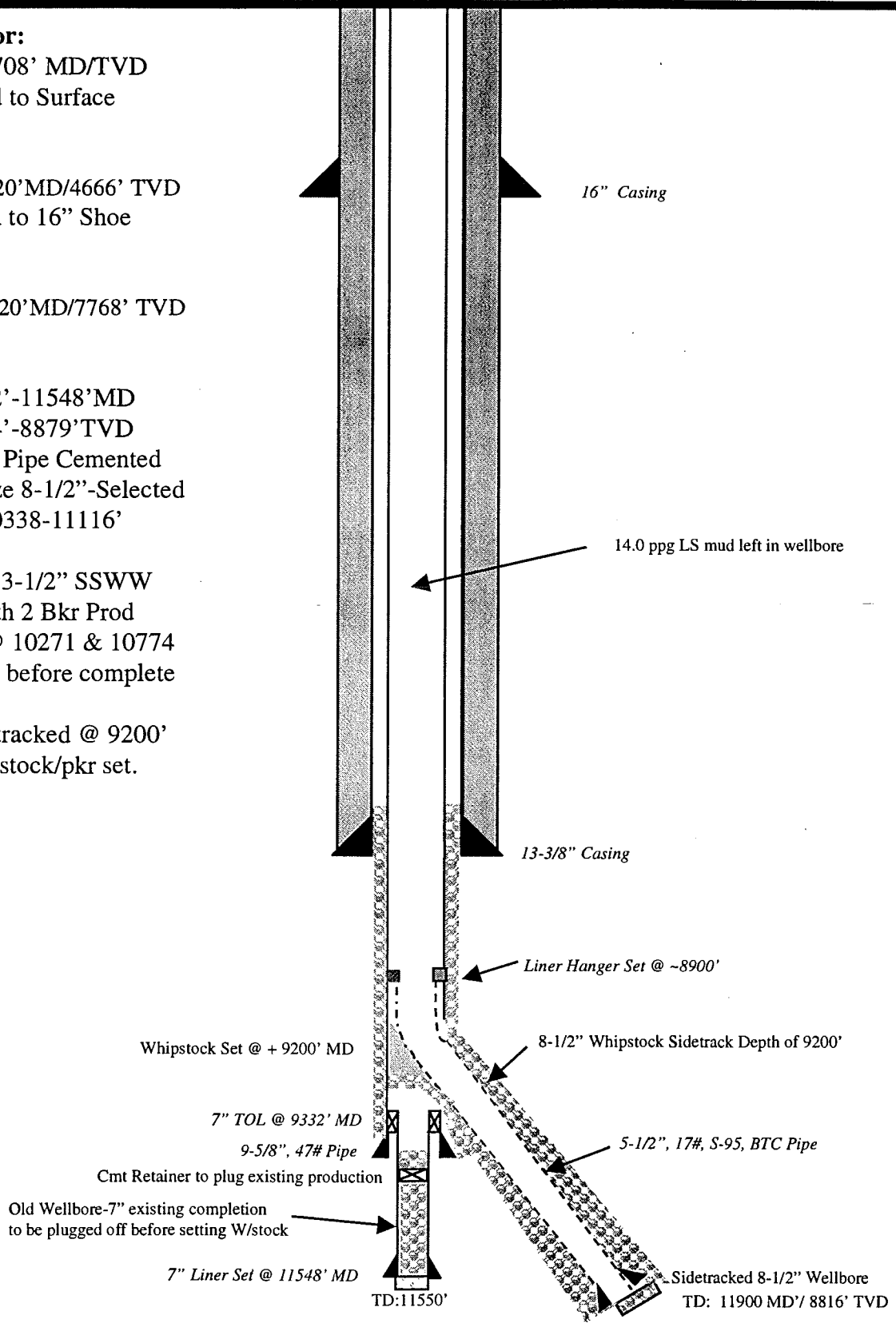
Casing:
13-3/8"5020'MD/4666' TVD
Cemented to 16" Shoe

Casing:
9-5/8@ 9820'MD/7768' TVD

Liner:
7"@ 9332'-11548'MD
7"@ 7454'-8879'TVD
29#, S-95 Pipe Cemented
in hole size 8-1/2"-Selected
Perfs F/10338-11116'

Currently 3-1/2" SSWW
screen with 2 Bkr Prod
packers @ 10271 & 10774
-be pulled before complete

Well sidetracked @ 9200'
with whipstock/pkr set.



PROPOSED MUD PROGRAM

NUEVO ENERGY COMPANY
Platform Gilda
Santa Clara Field
S65 ST-01
OCS-P-0216

November 2000

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	FLUID LOSS (cc 30 min)	MUD COMPONENTS
9240' -9250'	14.0	60 – 80	N/C	Seawater Durogel Soda Ash
Mill Window in 9-5/8" Casing				
9250' – 11,900'	14.0	48-56	<6 cc	Seawater Gelite Soda Ash SP-101 Barite Soltex Tannathin XCD Glydrill MC Xtra Lube Dril-XT
Run 5-1/2" Liner				

DISCUSSION BY INTERVAL

INTERVAL: Milling 9-5/8" Casing 9240' – 9250'

FLUID TYPE: Seawater/ Durogel

COMPONENTS WITH TYPICAL USAGE LEVELS:

Durogel	22 ppb
Soda Ash	.5-1 ppb
Sawdust	as needed
Barite	as needed for weight

RECOMMENDED MUD SPECIFICATIONS:

Density	14.0 ppg
Viscosity	60-80 sec/qt.
Yield Point	30+
Fluid Loss	no control
3 rpm reading	20+

POSSIBLE PROBLEMS / SOLUTIONS:

1. Hole Cleaning
   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

DISCUSSION:

Mix .5 ppb of Soda Ash into Seawater.Add 20 ppb of Durogel. Shear as much as possible. The more shear the more the viscosity yield. Add enough Barite for a mud weight of 13.7ppg.

Initiate Milling, add more Durogel if the 3 rpm reading is below 20 as measured on a six speed VG meter. Run elevated rheologies to help remove the metal cuttings from the annulus.

After milling the window, set a cement kick off plug.
Add Sodium Bicarbonate to polish off the plug.

DISCUSSION BY INTERVAL

INTERVAL: 9250' – 11,900' Drill 8-1/2" Hole for 5-1/2" liner

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	15-17 ppb
Soda Ash ($NaCO_3$)	4-5 ppb
SP-101	1.5-2.0 ppb
Soltex or Ashasol	6.0 ppb
Barite (Barium Sulfate)	as needed
Dril-XT	as needed
Tannathin	as needed
XCD	as needed
Xtra Lube	2% as needed
Glydril MC	2% by Volume
SafeCarb VF.F,M,C	As per Opti-Bridge

RECOMMENDED MUD SPECIFICATIONS:

Density	14.0 ppg
Viscosity	48-56 sec/qt
YP	12-18
3 RPM	8 - 12
Fluid Loss	<6
pH	8.5 - 9.0
T.H. as Ca++	200 ppm or less
MBT	18-25
Chlorides	20,000 mg/l +
LG Solids	< 6%

POSSIBLE PROBLEMS:

1. Gas
   a) Circulate out a small intrusion
   b) Raise mud weight if necessary

2. Kick
   a) Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
   b) Shut-in well. Raise mud weight.

3. Differential Sticking
   a) Maintain the API Fluid Loss below 6 cc
   b) Maintain 6 ppb of Soltex or Asphasol Supreme in the system at all times
   c) Maintain 2% Glydril MC alt all times
   d) Spot Sized Calcium Carbonate (SafeCarb) across the low pressure zones.
   e) Add Tannathin as a plugging agent.
   f) Add 2% by volume of Xtra Lube before running casing.
   g) Keep the amount of native drilled solid to a minimum with proper solids Control equipment.

4. Tight hole
   a) Wipe the hole.
   b) Reduce the fluid loss below 6 cc
   c) Raise the mud weight
   d) Add 2% Xtra Lube
   e) Spot Bridging Material

5. Solids build up
   a) Run all applicable solids control equipment We recommend running Swaco's ALS Shakers
   b) Dilute as much as possible

6. Bit Balling
   a) Add ½ % of Dril-XT
   b) For Severe balling add 1 % Dril-XT

7. Stuck Pipe
   a) Spot Pipe Lax ENV

DISCUSSION:

Polished off the cement plug with the Durogel Mud.

Change over to a pre mixed 14.0 ppg Seawater/SP-101/Gelite Drilling System. Continue to drill ahead adding Sp-101 to maintain an API fluid loss of 6 cc or lower. Soda Ash should be continually added to keep the Calcium/ Hardness level below 200 Mg/L. Add pre-hydrated Gelite and straight Gelite to the system to help build and maintain a filter cake on the wellbore. Add and maintain 6 ppb of Soltex or Asphasol Supreme in the system at all times to help prevent differential sticking and to provide some lubricity.

2% Glydril MC should also be added and maintain in the system. The Glydril will help provide some pore plugging which help in the prevention of differential sticking. Run the chloride content at 20,000 mg/L or above.

At 10.000 feet MD spot a pill of sized Calcium Carbonate to help seal off the lower pressure "F" zone where the overpressure will be 2,900 psi.

Use XCD polymer to increase the low end rheology which will help facilitate better hole cleaning.

Keep 40 to 60 barrels of a spotting fluid on the dock for differential stuck pipe. We recommend Pipelax ENV.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a Swaco ALS flow line cleaner. If the low gravity solids content goes above 6 % dilute back with water. Keeping the low gravity solids content below 6 % will help the quality of the filter cake and help keep all of the other physical properties in better condition.

For bit balling add ½ % of Dril-Xt to clean off the bottom hole assembly. If the bit balling becomes severe add an additional ½ %.

Prior to running casing add 2 % Xtra Lube to the system.

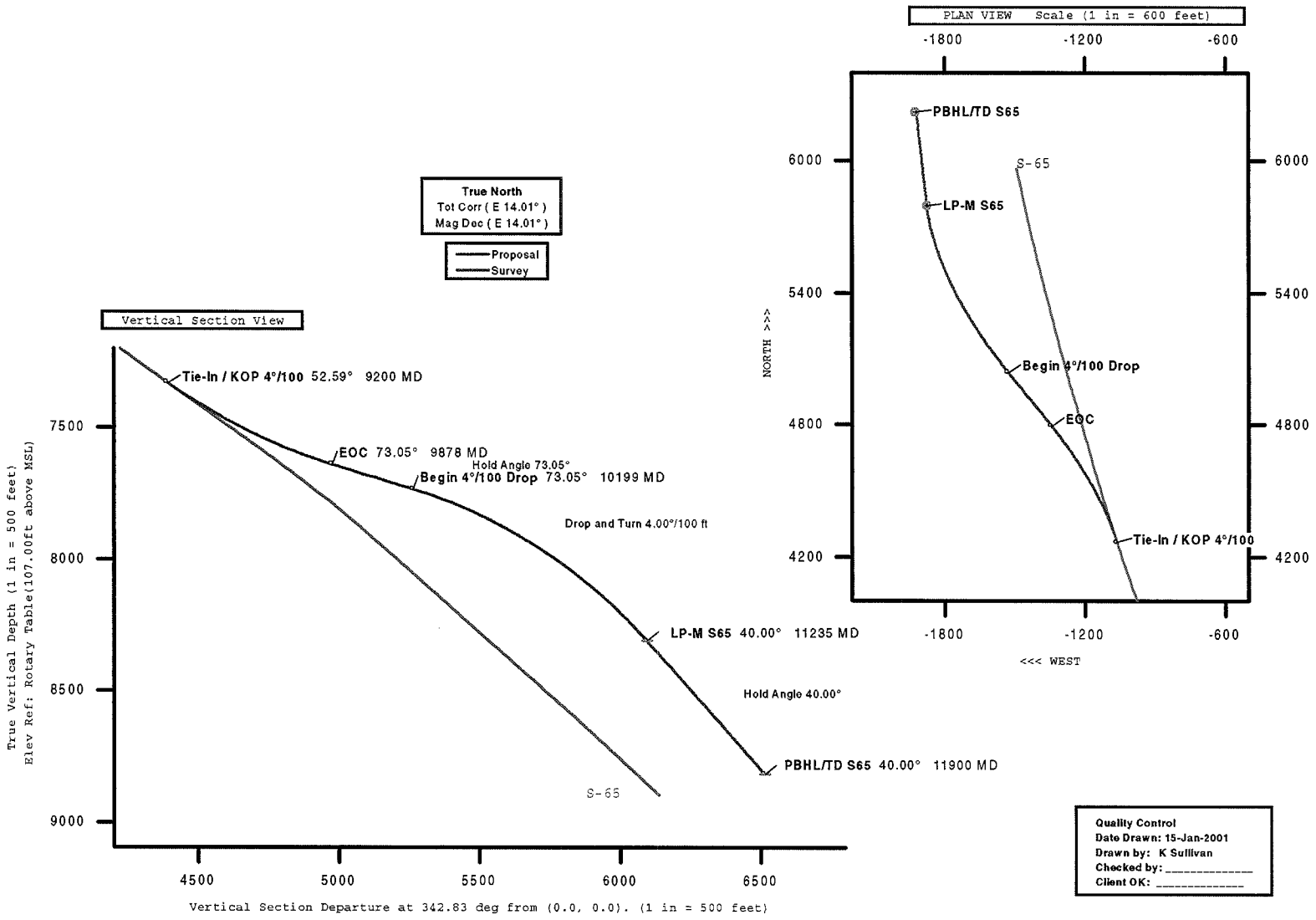
Nuevo Energy Company

GILDA S65 ST-01 RD PRESSURES

MARKER	MD	TVD	GRAD	FORM PSI	PORE PRESS	OVER BALANCED AT TD
LP F	9400'	7443'	0.349	2500	6.5	2900
LP K	10,783'	7997'	0.563	4500	10.8	1330
LP L	11,102'	8205'	0.585	4800	11.3	1150
LP M	11,235'	8307'	0.602	5000	11.6	1035
LP N	11,564'	8559'	0.613	5250	11.8	980
TD	11900	8816'	0.624	5500	12.0	917

Torch Operating Company

WELL	FIELD	STRUCTURE
S-65	T01 Santa Clara Field	Platform Gilda



Quality Control
Date Drawn: 15-Jan-2001
Drawn by: K Sullivan
Checked by: _____
Client OK: _____

Schlumberger

Proposed Well Profile - Geodetic Report

Report Date:	January 15, 2001	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	Torch Operating Company	**Vertical Section Azimuth:**	342.830°
Field:	T01 Santa Clara Field	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	Platform Gilda / P-0216 S-65	**TVD Reference Datum:**	Rotary Table
Well:	S-65	**TVD Reference Elevation:**	107.0 ft relative to MSL
Borehole:	S-65	**Sea Bed / Ground Level Elevation:**	0.000 ft relative to MSL
UWI/API#:		**Magnetic Declination:**	14.010°
Survey Name / Date:	T010042p1r0 / January 15, 2001	**Total Field Strength:**	48360.926 nT
Tort / AHD / DDI / ERD ratio:	152.097° / 6593.66 ft / 6.132 / 0.748	**Magnetic Dip:**	58.854°
Grid Coordinate System:	NAD27 California State Planes, Zone VI, US Feet	**Declination Date:**	September 09, 1998
Location Lat/Long:	N 34 10 56.502, W 119 25 7.214	**Magnetic Declination Model:**	BGGM 2000
Location Grid N/E Y/X:	N 747996.800 ftUS, E 1041700.900 ftUS	**North Reference:**	True North
Grid Convergence Angle:	-1.74124023°	**Total Corr Mag North -> True North:**	+14.010°
Grid Scale Factor:	1.00006363	**Local Coordinates Referenced To:**	Well Head

									Grid Coordinates		Geographic Coordinates	
Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Tie-In / KOP 4°/100	9200.00	52.59	343.1	7329.56	4392.06	4268.45	-1063.13	0.00	752295.85	1040767.90	N 34 11 38.727	W 119 25 19.870
	9300.00	55.39	339.5	7388.36	4472.89	4345.03	-1089.10	4.00	752373.19	1040744.27	N 34 11 39.484	W 119 25 20.179
	9400.00	58.29	336.2	7443.06	4556.27	4422.54	-1120.64	4.00	752451.62	1040715.10	N 34 11 40.251	W 119 25 20.555
	9500.00	61.27	333.2	7493.39	4641.78	4500.63	-1157.60	4.00	752530.81	1040680.53	N 34 11 41.023	W 119 25 20.995
	9600.00	64.32	330.2	7539.11	4729.01	4578.90	-1199.78	4.00	752610.33	1040640.74	N 34 11 41.798	W 119 25 21.497
	9700.00	67.42	327.5	7579.99	4817.54	4656.97	-1247.00	4.00	752689.80	1040595.91	N 34 11 42.570	W 119 25 22.059
	9800.00	70.57	324.8	7615.84	4906.94	4734.46	-1299.01	4.00	752768.84	1040546.28	N 34 11 43.336	W 119 25 22.678
EOC	9878.17	73.05	322.8	7640.24	4977.14	4794.40	-1342.85	4.00	752830.09	1040504.28	N 34 11 43.929	W 119 25 23.200
Begin 4°/100 Drop	10198.61	73.05	322.8	7733.65	5265.17	5038.63	-1528.06	0.00	753079.85	1040326.56	N 34 11 46.345	W 119 25 25.405
	10200.00	73.00	322.9	7734.05	5266.43	5039.70	-1528.86	4.00	753080.94	1040325.80	N 34 11 46.356	W 119 25 25.415
	10300.00	69.56	325.0	7766.14	5356.00	5116.22	-1584.63	4.00	753159.13	1040272.37	N 34 11 47.113	W 119 25 26.079
	10400.00	66.14	327.2	7803.85	5444.68	5193.09	-1636.27	4.00	753237.53	1040223.09	N 34 11 47.873	W 119 25 26.693
	10500.00	62.76	329.6	7846.98	5532.04	5269.91	-1683.52	4.00	753315.76	1040178.19	N 34 11 48.633	W 119 25 27.256
	10600.00	59.41	332.1	7895.33	5617.64	5346.34	-1726.16	4.00	753393.45	1040137.89	N 34 11 49.389	W 119 25 27.764
	10700.00	56.12	334.8	7948.67	5701.07	5421.97	-1763.97	4.00	753470.20	1040102.40	N 34 11 50.137	W 119 25 28.214
	10800.00	52.89	337.7	8006.73	5781.93	5496.46	-1796.78	4.00	753545.66	1040071.86	N 34 11 50.874	W 119 25 28.604
	10900.00	49.74	340.9	8069.23	5859.81	5569.44	-1824.43	4.00	753619.45	1040046.44	N 34 11 51.596	W 119 25 28.934
	11000.00	46.69	344.3	8135.87	5934.34	5640.55	-1846.77	4.00	753691.21	1040026.27	N 34 11 52.299	W 119 25 29.200
	11100.00	43.75	348.2	8206.31	6005.17	5709.44	-1863.70	4.00	753760.59	1040011.44	N 34 11 52.981	W 119 25 29.401
	11200.00	40.95	352.4	8280.23	6071.93	5775.78	-1875.14	4.00	753827.25	1040002.02	N 34 11 53.637	W 119 25 29.537
LP-M S65	11235.19	40.00	354.0	8307.00	6094.39	5798.46	-1877.85	4.00	753850.00	1040000.00	N 34 11 53.861	W 119 25 29.570
PBHL/TD S65	11899.64	40.00	354.0	8816.00	6513.41	6223.22	-1922.50	0.00	754275.95	1039968.28	N 34 11 58.063	W 119 25 30.101

Survey Error Model: **Wolff & deWardt 1.0000 sigma**

Surveying Programme:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type
9200.00	11899.64	Act-Stns	Anadrill MWD (none assigned-default tool used)

Schlumberger

ANTI-COLLISION SUMMARY REPORT

Client:	Nuevo Energy Company	*Slot:*	P-0216 S-65
Field:	T01 Santa Clara Field	*Well:*	S-65
Structure:	Platform Gilda	*Borehole:*	S-65
Subject Survey:	T010042p1r0	*Date:*	February 23, 2001
Analysis Method:	3D Least Distance	*Depth Interval:*	Every 100.00ft MD

Offset Survey	Separation(ft)		Subject Survey		Risk Radii(ft)			Alert	Status
	EOU	Ct-Ct	MD(ft)	TVD(ft)	Buffer	Minor	Major		
S-28	81.34	83.02	300.00	300.00	4.80	4.50	3.60		FLOW
S-28RD	81.34	83.02	300.00	300.00	4.80	4.50	3.60		FLOW
S-56	76.79	82.84	800.00	799.99	12.80	12.00	9.60		FLOW
S-1	53.15	76.47	2500.00	2499.96	39.00	36.50	27.00		FLOW
S-10	75.82	82.75	900.00	899.99	14.40	13.50	10.80		FLOW
S-50	75.82	82.75	900.00	899.99	14.40	13.50	10.80		FLOW
S-11	75.92	81.11	700.00	699.99	11.20	10.50	8.40		FLOW
S-54	75.92	81.11	700.00	699.99	11.20	10.50	8.40		FLOW
S-54ST	75.92	81.11	700.00	699.99	11.20	10.50	8.40		FLOW
S-12	67.35	75.15	1000.00	999.99	16.00	15.00	12.00		FLOW
S-14	83.98	89.17	700.00	699.99	11.20	10.50	8.40		FLOW
S-14ST	83.98	89.17	700.00	699.99	11.20	10.50	8.40		FLOW
S-18	73.21	79.25	800.00	799.99	12.80	12.00	9.60		FLOW
S-20	67.31	75.10	1000.00	999.99	16.00	15.00	12.00		FLOW
S-21	3.13	13.54	1300.00	1299.98	20.80	19.50	15.00		MAJOR
	10.89	16.06	700.00	699.99	**11.20**	10.50	8.40	Enter Buffer	
	10.08	16.16	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	9.30	16.23	900.00	899.99	14.40	13.50	**10.80**	Enter Major	
	15.18	27.37	1500.00	1499.97	24.00	22.50	**17.00**	Exit Major	
	15.18	27.37	1500.00	1499.97	24.00	**22.50**	17.00	Exit Minor	
	15.18	27.37	1500.00	1499.97	**24.00**	22.50	17.00	Exit Buffer	
S-22OH	77.79	82.96	700.00	699.99	11.20	10.50	8.40		FLOW
S-22ST1	77.79	82.96	700.00	699.99	11.20	10.50	8.40		FLOW
S-22ST2	77.79	82.96	700.00	699.99	11.20	10.50	8.40		FLOW
S-60	77.79	82.96	700.00	699.99	11.20	10.50	8.40		FLOW

S-60ST	77.79	82.96	700.00	699.99	11.20	10.50	8.40	FLOW
S-25	23.02	29.08	800.00	799.99	12.80	12.00	9.60	FLOW
S-26	79.11	82.54	500.00	500.00	8.00	7.50	6.00	FLOW
S-3OH	85.59	92.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-3ST1	85.88	92.81	900.00	899.99	14.40	13.50	10.80	FLOW
S-3ST1	85.88	92.81	900.00	899.99	14.40	13.50	10.80	FLOW
S-3ST2	85.59	92.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-3ST3	85.59	92.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-33OH	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-33RD	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-33RDST1	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-33RDST2	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-33RDST3	25.91	31.98	800.00	799.99	12.80	12.00	9.60	FLOW
S-36	58.19	67.73	1200.00	1199.98	19.20	18.00	14.00	FLOW
S-36ST	58.19	67.73	1200.00	1199.98	19.20	18.00	14.00	FLOW
S-37OH	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-37ST	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-77	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-77ST1	33.01	38.18	700.00	699.99	11.20	10.50	8.40	FLOW
S-77ST2	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-77ST3	31.07	37.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-39	27.06	33.12	800.00	799.99	12.80	12.00	9.60	FLOW
S-4	49.42	65.08	1900.00	1899.96	30.00	28.50	21.00	FLOW
S-40OH	73.46	79.51	800.00	799.99	12.80	12.00	9.60	FLOW
S-40ST	73.46	79.51	800.00	799.99	12.80	12.00	9.60	FLOW
S-48	73.46	79.51	800.00	799.99	12.80	12.00	9.60	FLOW
S-48ST	73.46	79.51	800.00	799.99	12.80	12.00	9.60	FLOW
S-42	66.68	76.21	1200.00	1199.98	19.20	18.00	14.00	FLOW
S-44	68.12	78.55	1300.00	1299.98	20.80	19.50	15.00	FLOW
S-44 ST1	73.34	78.55	1300.00	1299.98	20.80	19.50	15.00	FLOW
S-44ST2	68.12	78.55	1300.00	1299.98	20.80	19.50	15.00	FLOW

S-46	55.02	75.92	2500.00	2499.96	39.00	36.50	27.00	FLOW
S-49	3.64	25.40	2600.00	2599.93	40.50	37.80	28.00	MAJOR
	8.43	13.60	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.43	13.60	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	7.79	13.88	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	18.54	42.08	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	36.80	61.26	2900.00	2896.46	45.00	**41.70**	31.00 Exit Minor	
	36.80	61.26	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-85OH	3.64	25.40	2600.00	2599.93	40.50	37.80	28.00	MAJOR
	8.43	13.60	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.43	13.60	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	7.79	13.88	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	18.54	42.08	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	36.80	61.26	2900.00	2896.46	45.00	**41.70**	31.00 Exit Minor	
	36.80	61.26	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-85ST	3.64	25.40	2600.00	2599.93	40.50	37.80	28.00	MAJOR
	8.43	13.60	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.43	13.60	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	7.79	13.88	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	18.54	42.08	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	36.80	61.26	2900.00	2896.46	45.00	**41.70**	31.00 Exit Minor	
	36.80	61.26	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-85ST1	3.64	25.40	2600.00	2599.93	40.50	37.80	28.00	MAJOR
	8.43	13.60	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.43	13.60	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	7.79	13.88	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	18.54	42.08	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	36.80	61.26	2900.00	2896.46	45.00	**41.70**	31.00 Exit Minor	
	36.80	61.26	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-5	70.40	78.19	1000.00	999.99	16.00	15.00	12.00	FLOW
S-51ST	36.55	41.72	700.00	699.99	11.20	10.50	8.40	FLOW
S-52	57.55	68.84	1400.00	1399.97	22.40	21.00	16.00	FLOW
S-62	57.55	68.84	1400.00	1399.97	22.40	21.00	16.00	FLOW
S-53	3.25	13.53	1200.00	1199.98	19.20	18.00	14.00	MAJOR
	9.58	18.67	1100.00	1099.98	**17.60**	16.50	13.00 Enter Buffer	
	9.58	18.67	1100.00	1099.98	17.60	**16.50**	13.00 Enter Minor	
	9.58	18.67	1100.00	1099.98	17.60	16.50	**13.00** Enter Major	
	3.25	13.53	1200.00	1199.98	19.20	18.00	**14.00** Exit Major	
	3.25	13.53	1200.00	1199.98	19.20	**18.00**	14.00 Exit Minor	
	3.25	13.53	1200.00	1199.98	**19.20**	18.00	14.00 Exit Buffer	
S-55	12.72	32.75	2400.00	2399.96	37.50	35.20	26.00	MAJOR
	13.80	20.76	900.00	899.99	**14.40**	13.50	10.80 Enter Buffer	
	13.20	21.02	1000.00	999.99	16.00	**15.00**	12.00 Enter Minor	
	13.30	22.86	1200.00	1199.98	19.20	18.00	**14.00** Enter Major	
	21.75	44.41	2700.00	2699.60	42.00	39.10	**29.00** Exit Major	
	35.34	58.87	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	35.34	58.87	2800.00	2798.61	**43.50**	40.40	30.00 Exit Buffer	
S-67	7.12	29.05	2500.00	2499.96	39.00	36.50	27.00	MAJOR
	11.40	20.60	800.00	799.99	**12.80**	12.00	9.60 Enter Buffer	

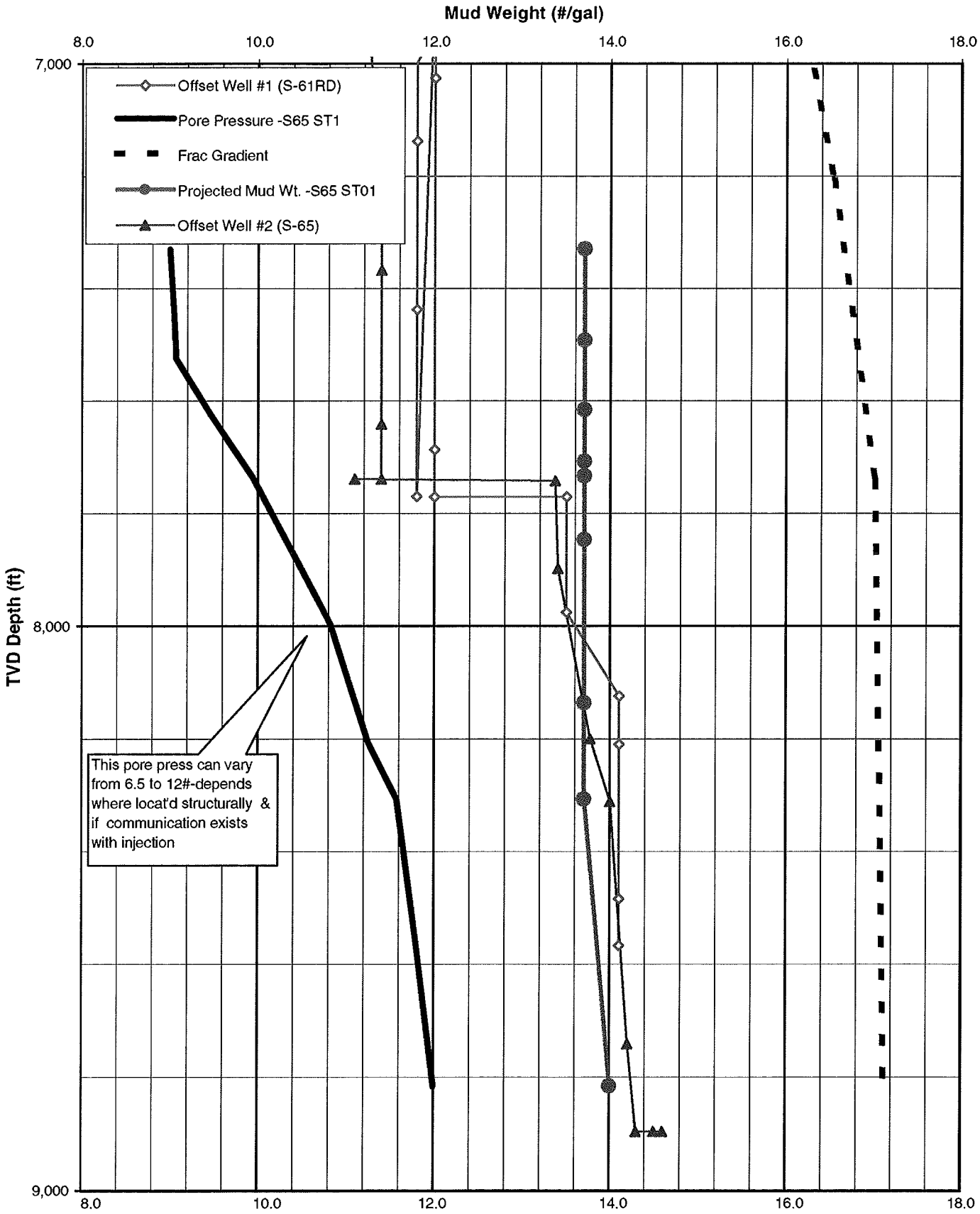
	11.40	20.60	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	10.70	20.77	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	28.18	52.14	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	28.18	52.14	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	28.18	52.14	2800.00	2798.61	**43.50**	40.40	30.00 Exit Buffer	
S-83	7.12	29.05	2500.00	2499.96	39.00	36.50	27.00	MAJOR
	11.40	20.60	800.00	799.99	**12.80**	12.00	9.60 Enter Buffer	
	11.40	20.60	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	10.70	20.77	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	28.18	52.14	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	28.18	52.14	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	28.18	52.14	2800.00	2798.61	**43.50**	40.40	30.00 Exit Buffer	
S-57	3.69	16.74	1600.00	1599.97	25.50	24.00	18.00	MAJOR
	7.08	10.51	500.00	500.00	**8.00**	7.50	6.00 Enter Buffer	
	7.08	10.51	500.00	500.00	8.00	**7.50**	6.00 Enter Minor	
	6.14	10.44	600.00	600.00	9.60	9.00	**7.20** Enter Major	
	18.68	33.55	1800.00	1799.96	28.50	27.00	**20.00** Exit Major	
	18.68	33.55	1800.00	1799.96	28.50	**27.00**	20.00 Exit Minor	
	18.68	33.55	1800.00	1799.96	**28.50**	27.00	20.00 Exit Buffer	
S-59	17.58	24.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-59ST1	17.58	24.52	900.00	899.99	14.40	13.50	10.80	FLOW
S-61	2.64	2.64	0.00	0.00	0.00	0.00	0.00	FLOW
S-63	14.09	20.14	800.00	799.99	12.80	12.00	9.60	FLOW
S-64	76.84	82.88	800.00	799.99	12.80	12.00	9.60	FLOW
S-65	-246.24	3.50	9300.00	7388.36	141.00	124.90	95.00	MAJOR
	0.00	0.00	100.00	100.00	**1.60**	1.50	1.20 Enter Buffer	
	0.00	0.00	100.00	100.00	1.60	**1.50**	1.20 Enter Minor	
	0.00	0.00	100.00	100.00	1.60	1.50	**1.20** Enter Major	
	90.05	381.48	10300.00	7766.14	156.00	137.90	**105.00** Exit Major	
	130.34	425.79	10400.00	7803.85	157.50	**139.20**	106.00 Exit Minor	
	130.34	425.79	10400.00	7803.85	**157.50**	139.20	106.00 Exit Buffer	
	165.81	506.77	11600.00	8586.46	**175.50**	154.80	118.00 Enter Buffer	
	151.29	495.87	11700.00	8663.07	177.00	**156.10**	119.00 Enter Minor	
	146.39	492.88	11800.00	8739.67	178.50	**157.40**	120.00 Exit Minor	
S-7	60.06	68.73	1100.00	1099.98	17.60	16.50	13.00	FLOW
S-71	11.18	17.29	800.00	799.99	12.80	12.00	9.60	MINOR
	11.18	17.29	800.00	799.99	**12.80**	12.00	9.60 Enter Buffer	
	11.18	17.29	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	12.02	19.08	900.00	899.99	14.40	**13.50**	10.80 Exit Minor	
	12.02	19.08	900.00	899.99	**14.40**	13.50	10.80 Exit Buffer	
S-75	8.02	14.07	800.00	799.99	12.80	12.00	9.60	MAJOR
	8.48	13.65	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	8.48	13.65	700.00	699.99	11.20	**10.50**	8.40 Enter Minor	
	8.02	14.07	800.00	799.99	12.80	12.00	**9.60** Enter Major	
	9.25	16.18	900.00	899.99	14.40	13.50	**10.80** Exit Major	
	9.25	16.18	900.00	899.99	14.40	**13.50**	10.80 Exit Minor	
	9.25	16.18	900.00	899.99	**14.40**	13.50	10.80 Exit Buffer	
S-13	18.57	28.10	1200.00	1199.98	19.20	18.00	14.00	BUFFER
	18.57	28.10	1200.00	1199.98	**19.20**	18.00	14.00 Enter Buffer	

	18.57	28.10	1200.00	1199.98	**19.20**	18.00	14.00 Exit Buffer	
S-15	19.38	27.18	1000.00	999.99	16.00	15.00	12.00	FLOW
S-16	34.38	46.88	1500.00	1499.97	24.00	22.50	17.00	FLOW
S-58	34.38	46.88	1500.00	1499.97	24.00	22.50	17.00	FLOW
S-17	13.12	20.04	900.00	899.99	14.40	13.50	10.80	MINOR
	13.12	20.04	900.00	899.99	**14.40**	13.50	10.80 Enter Buffer	
	13.12	20.04	900.00	899.99	14.40	**13.50**	10.80 Enter Minor	
	14.65	22.45	1000.00	999.99	16.00	**15.00**	12.00 Exit Minor	
	14.65	22.45	1000.00	999.99	**16.00**	15.00	12.00 Exit Buffer	
S-19	-7.80	12.21	2400.00	2399.96	37.50	35.20	26.00	MAJOR
	15.02	23.70	1100.00	1099.98	**17.60**	16.50	13.00 Enter Buffer	
	15.02	23.70	1100.00	1099.98	17.60	**16.50**	13.00 Enter Minor	
	12.76	22.33	1200.00	1199.98	19.20	18.00	**14.00** Enter Major	
	20.67	42.46	2600.00	2599.93	40.50	37.80	**28.00** Exit Major	
	33.01	55.74	2700.00	2699.60	42.00	**39.10**	29.00 Exit Minor	
	41.46	65.15	2800.00	2798.61	**43.50**	40.40	30.00 Exit Buffer	
S-2	58.91	73.70	1800.00	1799.96	28.50	27.00	20.00	FLOW
S-23	8.95	16.74	1000.00	999.99	16.00	15.00	12.00	MAJOR
	11.10	16.27	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	10.21	16.28	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	9.52	16.46	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	10.77	19.44	1100.00	1099.98	17.60	16.50	**13.00** Exit Major	
	10.77	19.44	1100.00	1099.98	17.60	**16.50**	13.00 Exit Minor	
	18.47	28.02	1200.00	1199.98	**19.20**	18.00	14.00 Exit Buffer	
S-23ST	8.95	16.74	1000.00	999.99	16.00	15.00	12.00	MAJOR
	11.10	16.27	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	10.21	16.28	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	9.52	16.46	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	10.77	19.44	1100.00	1099.98	17.60	16.50	**13.00** Exit Major	
	10.77	19.44	1100.00	1099.98	17.60	**16.50**	13.00 Exit Minor	
	18.47	28.02	1200.00	1199.98	**19.20**	18.00	14.00 Exit Buffer	
S-24	74.86	81.77	900.00	899.99	14.40	13.50	10.80	FLOW
S-27	17.17	23.22	800.00	799.99	12.80	12.00	9.60	FLOW
S-29	20.67	25.84	700.00	699.99	11.20	10.50	8.40	FLOW
S-30	62.45	151.74	5400.00	4935.55	82.50	74.20	56.00	MINOR
	68.19	154.74	5300.00	4866.16	**81.00**	72.90	55.00 Enter Buffer	
	68.19	154.74	5300.00	4866.16	81.00	**72.90**	55.00 Enter Minor	
	72.06	164.15	5500.00	5001.68	84.00	**75.50**	57.00 Exit Minor	
	72.06	164.15	5500.00	5001.68	**84.00**	75.50	57.00 Exit Buffer	
S-45	21.05	28.85	1000.00	999.99	16.00	15.00	12.00	FLOW
S-31	24.78	31.71	900.00	899.99	14.40	13.50	10.80	FLOW
S-32	55.27	65.68	1300.00	1299.98	20.80	19.50	15.00	FLOW
S-34	87.01	89.57	400.00	400.00	6.40	6.00	4.80	FLOW
S-35	30.83	38.62	1000.00	999.99	16.00	15.00	12.00	FLOW

S-38	73.78	81.56	1000.00	999.99	16.00	15.00	12.00	FLOW
S-41	41.34	47.39	800.00	799.99	12.80	12.00	9.60	FLOW
S-79OH	41.34	47.39	800.00	799.99	12.80	12.00	9.60	FLOW
S-79ST	41.34	47.39	800.00	799.99	12.80	12.00	9.60	FLOW
S-43	20.85	27.78	900.00	899.99	14.40	13.50	10.80	FLOW
S-6	73.96	80.01	800.00	799.99	12.80	12.00	9.60	FLOW
S-8	70.48	78.26	1000.00	999.99	16.00	15.00	12.00	FLOW
S-87	22.88	28.06	700.00	699.99	11.20	10.50	8.40	FLOW
S-89	18.06	22.36	600.00	600.00	9.60	9.00	7.20	FLOW
S-9	71.13	78.05	900.00	899.99	14.40	13.50	10.80	FLOW
S-91OH	6.26	28.19	2500.00	2499.96	39.00	36.50	27.00	MAJOR
	10.81	19.11	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	10.02	19.22	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	9.48	19.55	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	25.87	49.84	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	25.87	49.84	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	44.95	69.63	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	
S-91ST	6.26	28.19	2500.00	2499.96	39.00	36.50	27.00	MAJOR
	10.81	19.11	700.00	699.99	**11.20**	10.50	8.40 Enter Buffer	
	10.02	19.22	800.00	799.99	12.80	**12.00**	9.60 Enter Minor	
	9.48	19.55	900.00	899.99	14.40	13.50	**10.80** Enter Major	
	25.87	49.84	2800.00	2798.61	43.50	40.40	**30.00** Exit Major	
	25.87	49.84	2800.00	2798.61	43.50	**40.40**	30.00 Exit Minor	
	44.95	69.63	2900.00	2896.46	**45.00**	41.70	31.00 Exit Buffer	

SANTA CLARA FIELD S65 ST03

Mud Weight vs. TVD Depth



Operator:	Nuevo Energy Company	**Spud Date:**	2001
Field:	Santa Clara Field	**KB:**	107'
Well:	S65-RD	**County:**	Federal Waters
Location:	OCS-P 0216		
API#:	Not Assigned Yet	**Geological Marker: Lwr Repetto**	

Conductor:
16" @ 1708' MD/TVD
Cemented to Surface

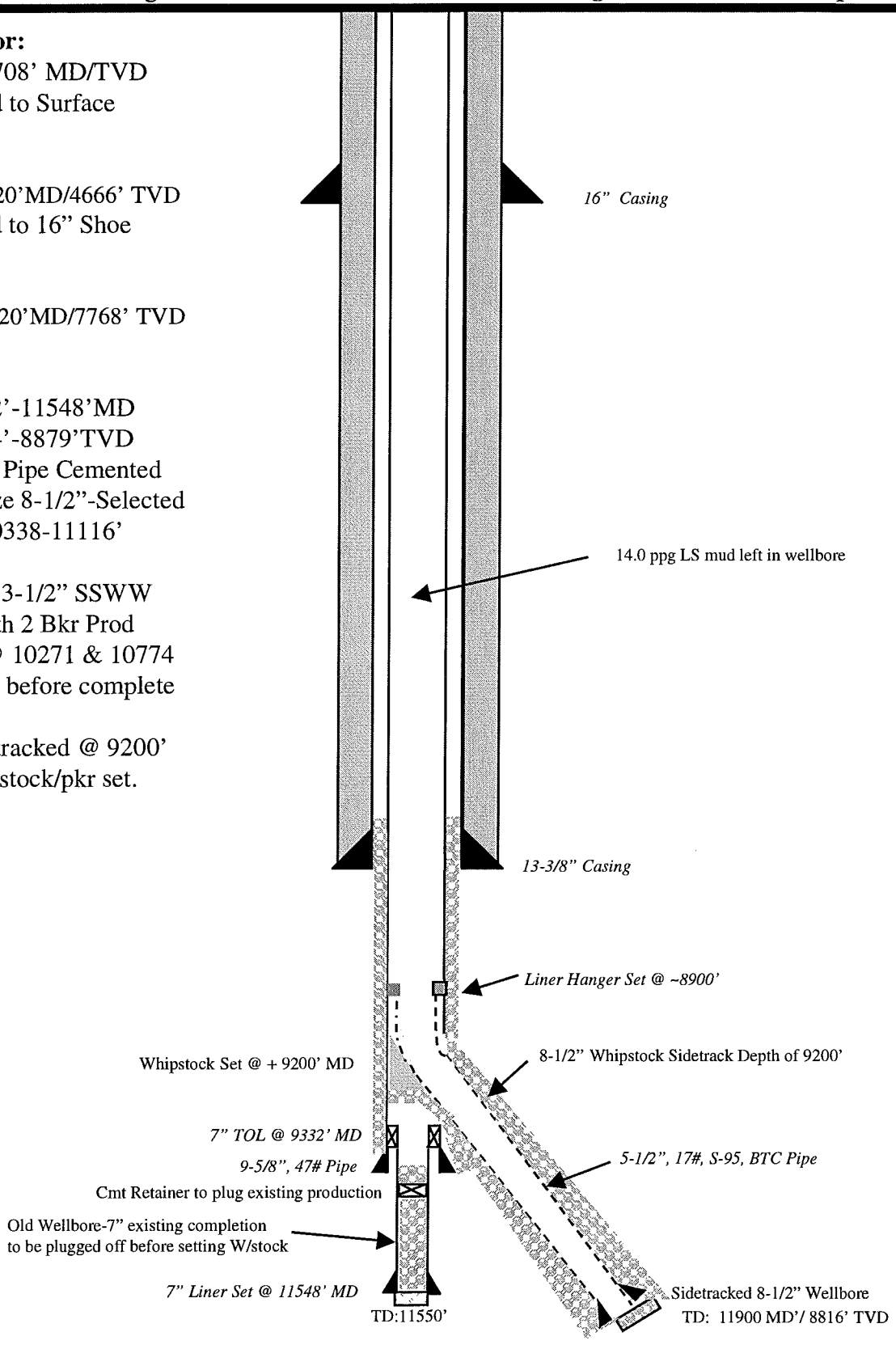
Casing:
13-3/8"5020'MD/4666' TVD
Cemented to 16" Shoe

Casing:
9-5/8@ 9820'MD/7768' TVD

Liner:
7"@ 9332'-11548'MD
7"@ 7454'-8879'TVD
29#, S-95 Pipe Cemented
in hole size 8-1/2"-Selected
Perfs F/10338-11116'

Currently 3-1/2" SSWW
screen with 2 Bkr Prod
packers @ 10271 & 10774
-be pulled before complete

Well sidetracked @ 9200'
with whipstock/pkr set.



OCS-P0216
PLATFORM GILDA
WELL S-65 ST01
LOCATION OF WELL

AT SURFACE:	7902' FEL AND 3517' FSL
Lambert Cal 6 Coordinates	X = 1041698 Y = 747997
KICKOFF POINT:	7330' TVD / 9200' MD 7008' FWL AND 8024' FNL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1040768 Y = 752296
TARGET NO. 1: LP "L" ZONE	8205' TVD / 11102' MD 6252' FWL & 6561' FNL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1040012 Y = 753759
TARGET NO. 2: LP "M" ZONE	8307' TVD / 11235' MD 6470' FNL & 6240' FWL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1040000 Y = 753850
TARGET NO. 3: LP "N" ZONE	8559' TVD / 11564' MD 6259' FNL & 6224' FWL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1039984 Y = 754061
BOTTOM HOLE LOCATION:	8816' TVD / 11900' MD 6044' FNL & 6208' FWL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1039984 Y = 754061

Note: North Reference is "True North".

PLATFORM GILDA
S-65 ST01 DRILLING PROGRAM

March 22, 2001

Proposed TD: 8816' TVD / 11900' MD

Surface Location: Slot No. 24
X = 1041698 Y = 747997 Cal Lambert Zone VI
7902' FEL 3517' FSL

Subsurface Location: 6044' FNL & 6208' FWL of OCS P-0216 @ 8816' TVD/11900' MD
X = 1039984 Y = 754061 3614' FEL & 6352' FNL

Elevation: 205' WD, 107' Above MLLW
KB Elevation: 312'

OBJECTIVES - S-65 ST01:

Markers	VSS	TVD	MD	Est. Press. (psi)
LP-E	Above KOP	N/A	N/A	N/A
LP-F	-7336	7443	9400	2200-2500
LP-G	-7418'	7525'	9570	3500-4000
LP-H	-7517'	7624'	9825	3500-4000
LP-I	-7630'	7737'	10210	3500-4000
LP-J	-7756'	7863'	10533	NA
LP-K	-7890'	7997'	10783	4500-5000
LP-L	-8098'	8205'	11102'	4500-5000
LP-M	-8200'	8307'	11235'	4500-5000
LP-N	-8452'	8559'	11564'	4500-5000
TD	-8709'	8816'	11900'	4500-5350

Existing Csg/Liner/Tbg				Measured Depth
20"	106#	Gr 'B'	RL-4S	0 - 713'
16"	75#	X-52	VP-3	0 - 1708'
13-3/8"	68#	K-55	ASL	0 -- 5020'
9 5/8"	47#	N-80	8rd	0 - 9831'
7"	29.0#	S -95	8rd	9346' -11548'
3-1/2"	9.3#	N-80	SSWW/Blk 'CS'	11127' - 10275'
*2 7/8"	6.5#	N-80	EUE Tbg	Set F/52' elev (tbg hgr) to 10196' MD

*Tubing Hanger was set in tension with 10k#'s over string weight

Existing Production Packer
Baker 7" FB-1 Packer set @ 10196' MD

Tubular Dimensional Data
9-5/8", 47#, N-80, 8RD - 8.681" ID, 8.525" Drift
7", 29#, S-95, 8RD — 6.184" ID, 6.059" Drift
2-7/8", 6.5#, N-80, EUE — 2.441" ID, 2.347" Drift

Previous Shoe, TOL, and Casing Tests
5 ft new form.@ 9865' MD/7735' TVD - Original LOT = 17.2 ppg
7" liner lap @ 9332' MD/6762' TVD-Original lap test = 2500 psi w/8.7# Sea H_2O
Last Recorded 9-5/8" csg/lap test = 1000 psig w/13.9 CaBr packer fluid (3/22/86)

Tailpipe Assembly below the Existing Production Packer
34.69' of extension/tailpipe includes "XN" nipple located at 10225' MD below the top of the 7" Baker FB-1 packer located at 10196' MD.

Perforations (all depths MD)

U.Zone Perforations	L.Zone Perforations
10338-10376'	**10910-11116'**
10420-10460'	
10490-10754'	

- Both the upper and lower zones have 3-1/2 SSWW Screens gravel packed with 16 - 30m range gravel
- Completion Fluid left in the wellbore is 8.7 ppg seawater (completion report dated 03-23-86 - UNOCAL).

PROCEDURE TO SECURE/DECOMMISSION & SIDETRACT S-65 WELLBORE

1. Ensure SSSV is in the open position. RU 0.092" OD wireline unit with lubricator. Test lubricator. Make a gauge ring run to a depth above the production packer @ ± 10180' MD. If the gauge ring run is successful, RU EWL unit. PU and RIH witha 1-9/16" through tubing gun. Attempt to perforate above the "FB-1" packer @ ±10180'. Pressure up on tubing and check for communication on the tubing/casing annulus and vice versa to confirm successful perforating operation. RD EWL.
2. Skid Torch Rig No. 10 and TESCO electric top drive over slot #24, Well #S-65. Transfer weighted (±13.5 ppg) "LSND" mud from workboat to rig. Check tubing and casing pressures.
3. Kill the well either by circulating through the tubing/casing annulus or "bullheading" the weighted mud, as per Step 2 above, down the tubing string and into the formation (whichever method is appropiate for wellbore conditions at the time).
4. Close the SSSV. Install a BPV in the tubing hanger and ND tree. NU a 13-5/8", Class IV, 5M BOP. Retrieve BPV. Pressure SSSV to open position. Test pipe and blind rams to 250/5000 psi and the annular preventer to 250/3500 psi in accordance with Field Rules and MMS regulations.
5. Pull all tubing, production packer, and all associated accessories from the wellbore (except for the gravel packed SSWW screens and accessories across from the gravel packed intervals).
6. RIH with tandem 9-5/8", 47# and 7", 29# scrapers. The lower scraper should be spaced out to either the top of the SC-1L packer at 10271' MD or to the 2-7/8" tbg cut at + 10-180' depending on the results of Step #5 above. The top scraper is to be spaced out to the top of the 7" liner @±9346' MD. Circulate out a minimum of one complete "bottoms up" circulation. POH and LD scrapers.
7. RU EWL. Run a Multi-finger 9-5/8" casing caliper profile tool and log the 9-5/8" casing from the 7" TOL @ 9346' MD back to the casing hanger at the surface. POH. RD EWL.
8. If the production packer, as in step 5 above, has been successfully retrieved, then PU a 7" cement retainer. If the tubing in Step #5 had to be cut above the production packer (to retrieve the production string), then pick up a 7" bridge plug. RIH. Set either the cement retainer between 50 and 100 feet of the top perforation (10238-10288' MD), or the bridge plug within 150' of the top perforation using tubing measurements (≥ 10188' MD). Set down 15k# weight to verify retainer or bridge plug is set prior to cementing. For the method chosen for isolation of the perforations, pump the required amount of cement. If the bridge plug is used, this would require 50 linear feet of

cement above the plug. Or if the retainer is used, enough volume to place the theoretical base of cement 100 linear feet below the bottom perforation and 50 linear feet of cement above the top of the retainer would be required.

Note: MMS to be given 24 hrs advance notice of the plugging job in Step 11 to allow for ample opportunity to witness if desired.

9. MU and RIH with 9-5/8" whipstock BHA with one trip window milling system. Orient and set whipstock. Shear off and cut window from ~9200' to ~9240' MD. Circulate bottoms up. POH.

   Note: High side of the wellbore, in conjunction with the MWD, can be used for directional control until the survey is free from magnetic interference.

10. MU and RIH with 8-1/2" bit and steerable directional assembly. Directionally drill from KOP of 9200' MD/7330' TVD to ±9250' MD/7360' TVD as per directional program. (NOTE: Do not drill more than 50' of new open hole without conducting casing seat test). Conduct leak-off test (LOT). Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. Record the mud weight used and leak-off test pressure on both the TOC drilling report and the IADC report. Directionally drill to ±11,900' MD/8816' TVD as per attached directional plan. If a bit trip is timely near ~11,200' MD, it may be possible to finish the 8-1/2" hole with a packed hole conventional rotary assembly. Discuss with directional service hand at the location.

11. POOH. PU an 8-1/2" hole opener and RIH. Open hole from ±9200' to 11,900' MD. Circulate bottoms up. POH.

12. Circulate and condition mud. Make a wiper trip to the 9-5/8" casing window. Circulate and condition mud. POH for logs.

13. RU EWL unit. Log the 8-1/2" wellbore as per attached logging program using the tubing conveyed method. RD EWL unit.

14. Make a conditioning trip with an 8-1/2" bit in preparation for the liner.

15. Rig up and run 5-1/2", 17#/ft, S-95, LTC liner, float equipment, and liner hanger. The liner hanger will be equipped with a tie-back extension. TIH with liner to TD. Cement the liner as per attached cement program.

16. POOH 10 stands and reverse out. POOH. LD liner setting tools.

17. RIH with 8-1/2" bit and drill cement to the TOL @ ± 8900' MD/7146' TVD. Circulate until cuttings clear shaker. Close the annular preventer and test the TOL to ± 1900 psi. POOH. LD DC's.

18. PU 4-3/4" DC's and 6-1/8" bit. RIH to TOL. Clean out 5-1/2" liner to the top of the float collar at ± 11815' MD.

19. Displace the drilling fluid in the production liner/casing with a CaBr completion fluid. POOH.

20. Begin completion operations.

OCS-P0216
PLATFORM GILDA
WELL S-65 ST01
GENERAL COMPLETION PROCEDURE

Tubular Capacity

	Size	Interval	Wt	I.D.	Drift	Bbl/ft
Interm.Csg(Exstg)	9-5/8	Surf- ±9200'MD	47.0	8.681	8.525	0.0732
Production Lnr.	5-1/2	*8900' - 11,900'	17.0	4.892	4.767	0.0220
Prod. Tbg.	2-7/8	Surf - 11,900'	6.50	2.441	2.347	0.00579

* Estimated

1. Rig to be placed over Slot #24, Well S65-St01. Hook up pump & filtration skid.
2. Test BOPE to MMS specifications.
3. RU wireline unit. Run CBL across 5-1/2" liner. Squeeze cement as required.
4. RIH with scraper on new 2-7/8", 6.5#, N-80 tubing to E.D. (est. ~11,820'). Scrape casing and circulate/filter until completion fluid is of desired clarity. POH with tubing.
5. RIH with TCP assembly. Perforate the lower productive (possibly M or N or M & N) interval. POH with perforating assembly.
6. RIH with acidizing tools. Acidize new perforations.
7. RIH with gravel pack assembly, including 3-1/2" screen and blank below SC-1 (or equivalent) gravel pack packer.
8. Frac pack the lower productive zone. POH with 2-7/8" tubing and wash pipe.
9. Repeat steps #5-8 for the upper (L or M or L & M) zone/s.
10. RIH with electrical submergible pump/s on 2-7/8" tubing.
11. Land hanger. ND BOPE. NU tree.
12. Turn well to production. Test well and report test information daily until otherwise notified.

SANTA CLARA FIELD OCS-P0216

PLATFORM GILDA

WELL S-65 ST-01

CASING DESIGN

Size	Interval		TVD	WT	Description		Min. Cplg. Strength	Pipe Body Strength	TDF Cplg	TDF Pipe	Collapse Pressure at Bottom	Collapse Resistence Tension	CDF	Burst Pressure	Min. Int. Yield	BDF
		Btm		lb/ft	Grade	Conn	Klbs	Klbs			Psi	Psi		Psi	Psi	
9-5/8"	0	9200	7330	47.0	N-80	LTC	Not Applicable - Cemented in Place				3427	4760	1.39	5345	6870	1.29
5-1/2"	8900	11900	8816	17	S-95	BTC	498	471	9.76	9.24	6418	8580	1.34	4487	9190	2.05

Producing Case

SANTA CLARA FIELD OCS-P0216

PLATFORM GILDA

WELL S-65 ST-01

CASING DESIGN

9-5/8" Intermediate Casing String – Drilling through Whipstock Window Case

Effective Csg Window Depth is 8800' MD/ 6687' TVD (Existing String)

Casing: 9-5/8", 47#/ft, N-80, LT&C

Collapse

Collapse Rating 4760 psi

Assume pipe is evacuated with 0.115 psi/ft gradient gas inside.

This string of 9-5/8" casing was set with 11.4 ppg MW in 1986.

Pm = 7330'(11.2)(.052) = 4270 psi Gg = (0.115*7330)= 843 psi

Pc = 4270 – 843 = 3427 psi

S_{FC} = 4760/3427 = 1.39

Burst

Burst rating 6870 psi

Max Anticipated MW to drill out – 14.0 ppg

MASP= 2713 psi (frac.press. -9-5/8" window w/ 1/3rd evacuation @TD – 7730' TVD)

1st calculate MASP to break down shoe with 1/3rd of wellbore evacuated with gas, assuming 0.115 psi/ft gas gradient and 2/3rd full of mud.

Upper one third of wellbore gas-filled = 8816*0.333=2936 ft

Fracture Pressure at 7330' TVD = 6250 psi

MASP = 6250-((2936)(0.115)-(0.052*14.0*(7330-2936)) = 2713 psi

1/3 of BHP at 8816' TVD = (0.052*12.0*8816) *0.333 = 1832 psi

Therefore the greater value of 2713 psi is utilized

S_{FB} = 6870/2713 = 2.53

Tension Rating

Not applicable. Existing pipe already cemented in place.

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S65 ST-01 REDRILL

CASING DESIGN

9-5/8" Intermediate Casing String – Producing Case

Effective TOL Setting Depth: 8900'MD/7146' TVD (5-1/2" production)

Existing Casing: 9-5/8", 47#/ft, N-80, LT&C

Collapse

- Collapse Rating 4760 psi
- Assume pipe is evacuated with only 0.115 psi/ft gas gradient inside.
- Conditions are the same as assumed for the drilling case as this is an existing string set and cemented in 1986.

S_{FC} = 1.22

Burst

Burst rating 6870 psi

Production packer setting depth = 8250' TVD

MASP = BHP at total depth less the gas gradient (tubing leak at surface)

MASP = (.052)(12.0)(8816) – (0.115)(8816)

MASP = 4487 psi

$S_{FB\ TOP}$ = 6870/4487 psi = 1.53

Burst Pressure at Bottom = (MASP + Hydrostatic Comp. Fluid) – Pore pressure backup.

Burst Pressure at Bottom = (4487+((.052*14.0*8250)-(0.52)(12.0)(8250)))

Burst Pressure at Bottom = 5345 psi

$S_{FB\ BTM}$ = 6870/5345 PSI = 1.29

Tension Factor

Not applicable. Existing pipe already cemented in place.

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S-65 ST-01

CASING DESIGN

5-1/2", 17.0#/ft, S-95, BTC Liner with Tieback Receptacle

Effective Setting Depth is 11900' MD/ 8816' TVD

Top of Liner to be at ±8900' MD / 6481' TVD

Estimated Top of Cement is 8900' MD

Collapse

Maximum Mud weight for the 5-1/2" casing interval is 14.0 ppg

P_C = (8816)(14.0 ppg)(.052) = 6418 psi

S_{FC} = 8580 psi / 6418 psi = 1.34

Burst

Anticipated WHP = (.052)(12.0)(8816)-(0.115)(8816) = 4487 psi

S_{FB} = 9190 psi / 4487 psi = 2.05

Tensile

Buoy Weight = (17.0)(8816-7146)(1-0.7861) = 6073#'s

5-1/2", 17#, S-95, BTC — Joint = 498,000#

Body = 471,000#

Design Factor with Buoyancy

S_{FJT} = 498,000# /(((17)(11900-8900))-6073) = 11.08

S_{FB} = 471,000# /(((17)(11900-8900))-6073) = 10.48

Design Factor Ignoring Buoyancy

S_{FJT} = 498,000# /(3000 ft x 17#'s/ft) = 9.76

S_{FB} = 471,000# /(3000 ft x 17#'s/ft) = 9.24

Maximum Overpull w/ Safety Factor - Ignoring Buoyancy

Jt = 498,000# /2 - 51,000# = 198,000#'s

OCS-P0216
PLATFORM GILDA
WELL S65 ST-01 I
CEMENT SLURRY DESIGN

ABANDONMENT PLUG (Plug Perforations inside 7" Liner) w/Cement Retainer

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft	Volume Factor		Amount and Type of Cement
*1	118	1.15	=	105 sacks Class G Cement + 0.2 gal/sx dispersant + 0.1 gal/sx retarder
2	10.5	1.15	=	10sacks (Use minimum of 20 sx) to set 50 linear ft. of Class G Cement + 0.2 gal/sx dispersant + 0.1 gal/sx retarder

* 566 linear ft.below cement retainer (retainer set 50' above top perf)

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Plug Geometry

	Plug Top		Plug Bottom	
1 & 2	10238 ft	to	10854 ft	with 6.184 inch ID Casing

Note: Actual Volumes and Additive Concentrations are subject to refinement pending results of laboratory tests and wellbore temperatures realized

OCS-P0216
PLATFORM GILDA
WELL S65 ST-01
CEMENT SLURRY DESIGN

ALTERNATIVE WITH BRIDGE PLUG ISOLATION OF PRODUCTION ZONE

ABANDONMENT PLUG (Set a Bridge Plug Inside 7" Liner within 150 ft of the top Perforation with a minimum volume of 50 cubic feet of cement dropped on top)

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft	Volume Factor		Amount and Type of Cement
1	10.5	1.15	=	10sacks (Use minimum of 20 sx) to set 50 linear ft. of Class G Cement + 0.2 gal/sx dispersant + 0.1 gal/sx retarder

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Cement Plug Geometry

	Plug Top		Plug Bottom	
1	10238 ft	to	10288 ft	with 6.184 inch ID Casing

Note: Actual Volumes and Additive Concentrations are subject to refinement pending results of laboratory tests and wellbore temperatures realized

OCS-P0216
PLATFORM GILDA
WELL S65 ST-01 Re-drill
CEMENT SLURRY DESIGN

5-1/2" LINER

FLUID SPECIFICATIONS

Weighted Spacer — **30.0 bbls Mudpush XT mixed @ 14.5 ppg**

Fluid	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
Lead Slurry	904	/	1.16	=	780 sacks Class G Cement + 0.40% turbulence inducer + 0.30% fluid loss additive + 0.2% dispersant + 0.2% de-foamer

***Displacement** — **158 bbls MUD @ 14.0 ppg**

***Assumes liner run on 5", 19.5# DP with TOL to be @ 8900') to be verified with the cementing and liner service representatives on the wellsite**

Cement Properties

	Slurry No. 1
Slurry Weight (ppg)	15.8
Slurry Yield (cf/sack)	1.16
Amount of Mix Water (gps)	5.07

Note: Actual Volumes and Additive Concentrations are subject to refinement pending results of laboratory tests and electric wireline logging results

OCS-P0216
PLATFORM GILDA
WELL S-65 ST01
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
9200' - 11900'	AIT/GR/NEUTRON/DENSITY/GR
9200' - 11900'	DIPOLE SONIC/CMR

Mud Logs

Interval (MD)	
9200' - 11900'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

FORMATION	MD (FT)	TVD (FT)	SUBSEA (FT)
LP "L"	11102	8205	-8908
LP "M"	11235	8307	-8200
LP "N"	11564	8559	-8452
TD	11900	8816	-8709

OCS-P0216
PLATFORM GILDA
WELL S65 ST-01
BOP PROGRAM

9 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 5000 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi
7 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi /5000 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which will be after the tree is removed and the BOPE is NU and @ 14 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-65 ST-01
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Shut down the pump and verify well flow.
2. Position tool joint above the rotary table.
3. Open the choke line.
4. Close in pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the pipe rams.
6. Close choke line, install the kelly or top drive, and open safety valve.
7. Read the shut in casing and drill pipe pressure.
8. If necessary, and the string is "pipe light" or near balance point, pump a sufficient amount of fluid down the drill pipe and /or kill line to bring the SICP to a lower value (in any instance do not exceed MASP).
9. Close the annular preventer.
10. Open the pipe rams, remove the kelly. Install IBOP above the safety valve. Ensure that the safety valve is in open position prior to stripping in hole.
11. Strip in the hole while monitoring the shut in casing pressure. If casing Pressure rises and string is near the "balance" point again repeat steps 4-10. (For step 7, the SIDPP will have to be determined by slowly bringing the pump on line and observing slight pressure increase when IBOP opens).
12. Once on bottom, follow the normal kill procedure.

OCS-P0216
PLATFORM GILDA
WELL S-65 ST-01
H_2S CONTINGENCY PLAN

- **Probability:** Prior to the initiation of water injection, no hydrogen sulfide had ever been encountered in the Upper or Lower Repetto formations at any point in time. Only in recent production operations have occasional traces of hydrogen sulfide been detected. This is a result of the degeneration of microbes in the source water since injection has been initiated. As our selected sidetrack point is a considerable distance below the known oil/water contact point, we do not anticipate encountering even trace amounts of hydrogen sulfide.

- **Contingency Plan:** Nuevo Energy Company will follow the "Contingency Plan for Hydrogen Sulfide and Sulfer Dioxide". Prepared by Torch Operating Company, a copy is on file with the MMS Camarillo, CA office.

- **Early Detection:** As per the mud program attached in the MMS Sundry application, the alkalinity of the drilling fluid will be maintained at all times above neutral at a PH between 8.5-9.0 value. Hydrogen sulfide gas can be identified by reduction of pH of the mud (ie. since the H2S is an acid gas, the pH of the mud is quickly reduced by neutralization of OH-). Frequent property checks/tests of mud alkalinity will be conducted by the mud engineer at the site. He will monitor for possible hydrogen sulfide presence. In addition, a Garrett gas train will be kept at the location and used on a regular basis to monitor for the presence of hydrogen sulfide gas.

- **Personnel Protection Equipment Measures:** Additional air packs will be provided for the extra personnel on board the platform during the activity period to comply with the Contingency Plan.

- **Personnel Training:** An orientation, including an initial H_2S training program, will be provided for all personnel arriving at Platform Gilda

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA

WELL S65 ST-01

ANTICIPATED PRESSURES and MINIMUM MUD REQUIREMENTS

Depth	Hole Size	Csg Size	Casing Depth (MD)	Casing Depth (TVD)	Expected Frac Gradient	Expected Pressure Gradient	Maximum Mud Weight	Maximum Anticipated Surface Pressure	Criteria	Barite 100 lb sacks	XCD Polymer 25 lb sacks	Scavenger 50 lb sacks
Feet	Inches	Inches	Feet	Feet	psi/ft	psi/ft	ppg	psi		Minimum Mud Materials Required on Board		
* 0-9200	12.25	9.625	9200	7330	0.87	0.468	14.0	2713	1	500	80	0
9200-11900'	8.5	5-1/2" Liner	11900	8816	0.89	0.624	14.0	4487	2	500	80	0

Criteria 1 Maximum anticipated surface pressure is pressure required to breakdown casing shoe with hole 1/3 full of gas and 2/3 full of mud at next casing point, or 1/3 of BHP at next casing point, whichever is greater.

Criteria 2 BHP – Gas Gradient (.115 psi/ft).

*Existing casing with window cut.

500 bbls active tank volume and 400 bbls reserve tank volume

Efforts at all times to keep active tank as close to "topped off" status as practically possible.



Spud
2-2-86
LA 6862

API# 0431120616*
Los Angeles Block 6862
Well# S065 - Lease# P00216
DCOR, L.L.C.

— Directional Survey

— No Directional Survey

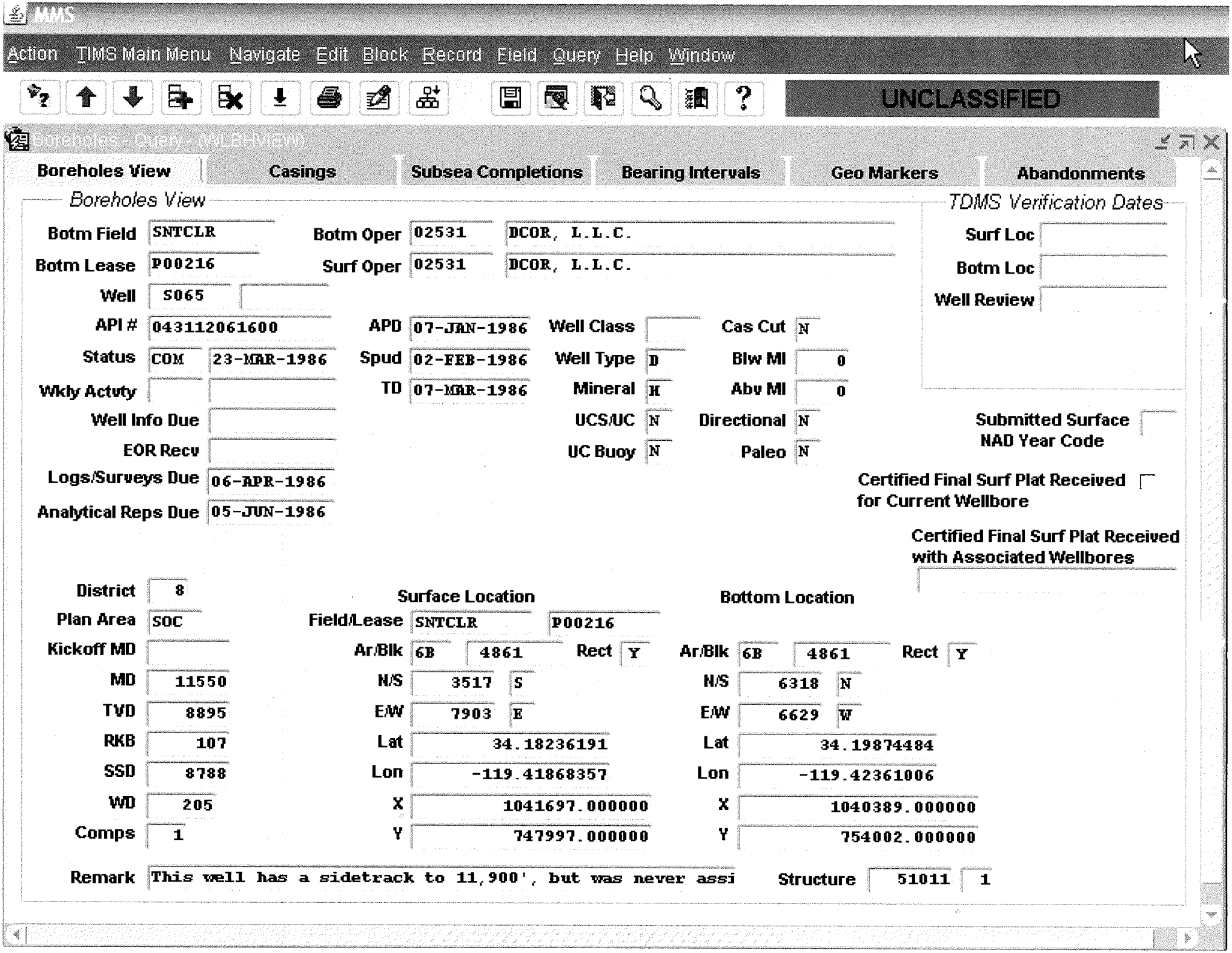
BP @ 9212'
5-25-01

11550' MD
8895.97 TVD
3-7-86
'70'
ST00BP00
LA 6862

11920' MD
? TVD
6-7-01
'00'
ST01B00
LA 6862

October 2011

This well shows several sidetracks within the file, however, BSEE only has one final directional down to 11,550' MD, which corresponds to the Original Hole. The sidetrack is 11,900' MD, which is within 500' of the original and hence the reason a new API number was never assigned to the well in the first place.


MMS
Action TIMS Main Menu Navigate Edit Block Record Field Query Help Window
UNCLASSIFIED
Boreholes - Query - (WLSH-VIEW)
Boreholes View
Casings
Subsea Completions
Bearing Intervals
Geo Markers
Abandonments
Boreholes View
Botm Field SNTCLR
Botm Oper 02531 DCOR, L.L.C.
Botm Lease P00216
Surf Oper 02531 DCOR, L.L.C.
Well S065
API # 043112061600
APD 07-JAN-1986
Well Class
Cas Cut N
Status COM 23-MAR-1986
Spud 02-FEB-1986
Well Type D
Blw Ml 0
Wkly Actvty
TD 07-MAR-1986
Mineral H
Abv Ml 0
Well Info Due
UCS/UC N
Directional N
EOR Recv
UC Buoy N
Paleo N
Logs/Surveys Due 06-APR-1986
Analytical Reps Due 05-JUN-1986
TDMS Verification Dates
Surf Loc
Botm Loc
Well Review
Submitted Surface NAD Year Code
Certified Final Surf Plat Received for Current Wellbore
Certified Final Surf Plat Received with Associated Wellbores
District 8
Plan Area SOC
Kickoff MD
MD 11550
TVD 8895
RKB 107
SSD 8788
WD 205
Comps 1
Surface Location
Field/Lease SNTCLR P00216
Ar/Blk 6B 4861 Rect Y
N/S 3517 S
E/W 7903 E
Lat 34.18236191
Lon -119.41868357
X 1041697.000000
Y 747997.000000
Bottom Location
Ar/Blk 6B 4861 Rect Y
N/S 6318 N
E/W 6629 W
Lat 34.19874484
Lon -119.42361006
X 1040389.000000
Y 754002.000000
Remark This well has a sidetrack to 11,900', but was never assi
Structure 51011 1

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: September 30, 2002

1. 1ST COMP. / RECOMPLETION / ABANDONMENT / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-20616-01/S01	S-65 ST 1	Nuevo Energy 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01546

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1039943 Y=754306 6309 North & 1754 West of surface	P-0216	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=1039973 Y=754109 X=1040001 Y=753923	P-0216	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
Com/Pow	08/11/01		5/12/01

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
5/25/2001	8/11/01	MD 11,833' TVD 8,822'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
11,640'	11,648		
11,314'	11,384'		

RECEIVED
OCT 28 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	Lower Repetto

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
30"	20"	106#	Gr B	713'	Class G W/additives	826'
20"	16"	75#	X-52	1708'	Class G W/additives	
18"	13 3/8"	68#	K-55	5020'	Class G W/additives	1664
14"	9 5/8"	47#	N-80	9831'	Class G W/additives	1877
9"	7"	29#	S-95	11,548'	Class G W/additives	

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
	2 7/8"	6.5#	N-80	10974	544'

FORM MMS -125 (September 1999) (Replaces all previous editions of Form MMS-125, which will not be used)

Releasable to public
Name: SRH **Date:** 5/13/13

WELL SUMMARY REPORT (continued)

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
8 5/8"	5.5"	17#	S-95	8,900'	11,900'	Class G W/add.	758 Ft^3
9"	7"	29"	S-95	9332'	11,548'	Class G W/add.	

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
11,664'	11,818'	Cement	75 SX
11,564'	11,664'	Cement	125 SX
11,406'	11,564'	Cement	20 Bbls
11,206'	11,406'	Cement	41 Bbls
11,640'	11,671'	Acid	23 Bbls
11,314'	11,384'	Fracture	7000# sand, 299 Bbls Gel

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

Dipole Shear Sonic P&S & dipole modes 5", EMS six arm caliper 5", Inclinometer survey W/caliper 2", Ultrasonic imager-Cement Bond VDL Ultrasonic imager-Gamma ray/CCL, Plug Setting Pass Correlation/CCL, Platform Express Density-Neutron 5", Platform Express Array Indu sonic imager-cement/casing evaluation-Gamma ray/CCL, Cement Bod Log-Gamma Ray Correlation (ON TLC), Combinable Magnetic Resc Ultrasonic imager-LQC.

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

79. FORMATION	TOP 80. MD	TOP 81. TVD	BOTTOM 82. MD	BOTTOM 83. TVD	84. DESCRIPTION, CONTENTS, ETC.
Lower Repetto	10697		11,833'		

85. GEOLOGIC MARKERS	TOP 86. MD	TOP 87. TVD	85. GEOLOGIC MARKERS	TOP 86. MD	TOP 87. TVD
LP-K	10,697'				
LP-L	11,092'				
LP-M	11,240'				
LP-N	11,606'				

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
Richard F. Garcia	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
Richard F. Garcia	10/24/2002

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

RE-COMPLETION SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-65

REPORT DATE : 5/12/01 MD : _____ TVD : _____ DAYS : 0 MW : _____ VISC : _____

DAILY DETAILS : STARTED RIG TIME ON WELL S-65 ST-01 AT 08:00 5/11/01. WHILE PREPARING RIG TO SKID, INSTALLED NEW TIE-DOWN BOLTS ON DRAWWORKS, ALIGNED AUXILIARY BRAKE TO DRAWWORKS. RIGGED DOWN TOP DRIVE ELECTRICAL LINES, CLEARED SKID AREA ON DRILL DECK, REMOVED FLOW LINE. REMOVED DRAWWORKS COVERS AND PUT SEALANT BETWEEN COVER TO STOP LEAKS.

REPORT DATE : 5/13/01 MD : _____ TVD : _____ DAYS : _____ MW : _____ VISC : _____

DAILY DETAILS : MOVED TOP DRIVE LINES FROM SOUTH SIDE OF DERRICK TO NORTH SIDE. INSTALLED LARGER TIE-DOWN BOLTS ON AUXILIARY BRAKE. PULLED ELECTRICAL LINE UP. SKID RIG.

REPORT DATE : 5/14/01 MD : _____ TVD : _____ DAYS : _____ MW : _____ VISC : _____

DAILY DETAILS : SKID RIG AND PIPE RACK FROM S-44 TO S-65. CENTERED BOTTOM SECTION. (NORTH AND SOUTH). PREPPING TOP SECTION TO SKID AND CENTER OVER WELL. (EAST AND WEST).

REPORT DATE : 5/15/01 MD : _____ TVD : _____ DAYS : _____ MW : 12.6 VISC : 44

DAILY DETAILS : CENTERED TOP SECTION OVER WELL. RAN ELECTRICAL LINE. INSTALL "V" DOOR, AND FLOW LINE. P/U 2 7/8" TUBING AND SCREWED INTO TREE. PUMPED DOWN TUBING WITH 13.2 PPG MUD. INITIAL 1.2 BPM WITH 2300 PSI. FINAL 2.1 BPM WITH 2350 PSI. STOP PUMP-PRESSURE BLED BACK TO 1500 PSI. BLED PRESSURE OFF. NO FLOW. MONITOR WELL FOR FLOW.

REPORT DATE : 5/16/01 MD : _____ TVD : _____ DAYS : _____ MW : 12.6 VISC : 44

DAILY DETAILS : CONTINUE MONITORING WELL FOR FLOW. NIPPLE DOWN TREE. PLUGGED SUBSURFACE LINES. NIPPLE UP BOPE. CHANGED PIPE RAMS TO 2 7/8". MAKE UP TEST TOOLS. DOWELL'S PRESSURE RECORDER FAILED. REPLACED SAME. TESTING AT 06:00.

REPORT DATE : 5/17/01 MD : 0 TVD : 0 DAYS : _____ MW : 13.2 VISC : 47

DAILY DETAILS : TEST ALL RAMS AND VALVES TO 250/5000 PSI. ANNULAR PREVENTER TO 250/3500 PSI. PULL TEST PLUG. BACK TUBING HANGER, TIE-DOWN BOLTS OUT. UNSEAT TUBING HANGER AND PICKED UP APP. 10'-12' WITH ANNULAR PREVENTER CLOSED AROUND TUBING. STARTED PUMP AND PRESSURED UP TO 1000 PSI. STOPPED PUMP, PRESSURE AT 800 PSI. PULLED UP TO GET OUT OF PACKER. PRESSURE DROPPED IN TUBING ASSISTING TUBING OUT OF HOLE. TUBING WENT ON VACUUM WITH OIL RETURN TO SURFACE AND ROUTED TO PRODUCTION. LAID PUP JTS DOWN. BROKE CIRCULATION. CIRCULATED 13.2 PPG AROUND FROM 10200' AT 2.5 BPM. STOP PUMPING WITH 172 BBLS TO GO. SHORE BASE (MANDALAY) UNABLE TO RECEIVE ADDITIONAL FLUID. BUILD VOLUME WHILE WAITING TO PUMP ADDITIONAL RETURNS TO PRODUCTION. CONTINUE PUMPING AT 2.5 BPM RETURNS GOING TO PRODUCTION.

REPORT DATE : 5/18/01 MD : 10,196 TVD : 0 DAYS : 3 MW : 13.2 VISC : 44

DAILY DETAILS : CONTINUE DISPLACING WELL WITH 13.2 PPG MUD. BUILD MUD VOLUME. POOH. L/D TUBING HANGER AND BPV. POOH SPOOLING CONTROL LINES TO INJECTION MANDREL, SSSV, AND PRESSURE VALVE. POOH L/D 2 7/8" TUBING.

REPORT DATE : 5/19/01 MD : 10,196 TVD : 0 DAYS : 4 MW : 13.2 VISC : 47

DAILY DETAILS : CONTINUE TO POOH L/D TUBING. DRUG TEST ONCOMING AND OFFGOING CREW. ALL PASSED. POOH L/D TUBING, PRUETT PRESSURE MANDREL, SEAL ASSEMBLY. INSTALLED TEST PLUG. CHANGED BOTTOM RAMS TO 5" RAMS. TEST RAM TO 250 / 5000 PSI. GOOD. PULLED TEST PLUG AND INSTALLED WEAR BUSHING. P/U 8 1/2" BIT AND 9 5/8" CASING SCRAPER AND RIH. BROKE CIRC AT 3590'. RIH TO 7165'. P/U 70 JTS. TAGGED TOP OF LINER AT 9332'. CIRCULATED BOTTOMS UP AND CONDITIONED MUD AT 9332'.

REPORT DATE : 5/20/01 MD : 10,196 TVD : 0 DAYS : 5 MW : 13.2 VISC : 49

DAILY DETAILS : CIRCULATE AND CONDITION MUD AT 9332', TOP OF LINER. POOH WITH 9 5/8" CASING SCRAPER. L/D SAME. M/U AND RIH WITH 7" CASING SCRAPER TO 10196'. CIRCULATE BOTTOMS UP AND PUMP SLUG. POOH WITH 7" CASING SCRAPER TO 3500'. SLIP AND CUT 150' OF DRILL LINE. CONTINUE POOH. L/D CASING SCRAPER. M/U AND RIH WITH 7" 29# HYDRAULIC-SET PERMANENT BRIDGE PLUG ON 3 1/2" DP.

REPORT DATE : 5/21/01 MD : 9,950 TVD : 0 DAYS : 6 MW : 12.9 VISC : 49

DAILY DETAILS : CONTINUE RIH WITH PERMANENT BRIDGE PLUG. TAGGED FB-1 PACKER AT 10,196'. PICKED UP 6'. DROPPED BALL. SET BRIDGE PLUG AT 10,190'. RELEASED FROM BRIDGE PLUG AND SET 15K DOWN. PICKED UP 3'. R/U DOWELL AND TEST SURFACE LINE TO 3000 PSI. PUMP 10 BBLS OF CLASS "G" WITH ADDITIVES. DISPLACE WITH 164 BBLS OF MUD. CIP 12:20 5/20/01. APPOX TOP OF CEMENT AT 9950'. REVERSE CIRCULATED 2 DRILL PIPE VOLUMES. POOH AND L/D SETTING TOOL. RIGGED UP SCHLUMBERGER WIRELINE AND LUBRICATOR. RIH WITH USIT TOOL. TAGGED TOP OF LINER AT 9335' (WIRELINE MEASUREMENT). LOGGING USIT FROM 9335'.

REPORT DATE : 5/22/01 MD : 9,216 TVD : _____ DAYS : 7 MW : 13.2 VISC : 48

DAILY DETAILS : CONTINUE RUNNING USIT LOG TO SURFACE. RAN AND SET 9 5/8" BRIDGE PLUG AT 9211', WIRELINE MEASUREMENT. RIH AND POOH, LAYING DOWN 3 1/2" DRILL PIPE. P/U 30 JTS OF 5" HWDP. MEASURED AND DRIFTED. RIH. SLM TAGGED BRIDGE PLUG AT 9216', DRILL PIPE MEASUREMENT. NEW PLUG BACK DEPTH. DROPPED RABBIT AND PUMP SLUG. POOH 20 STANDS. P/U 34 JOINT 5" DRILL PIPE. POOH TO RUN WHIPSTOCK.

REPORT DATE : 5/23/01 MD : 9,216 TVD : _____ DAYS : 8 MW : 13.2 VISC : 49

DAILY DETAILS : TRIP OUT WITH BHA. PICK UP WINDOW MILLING TOOLS. TRIP IN WITH WHIPSTOCK. RIG UP GYRO. RUN IN WITH GYRO, ORIENT WHIPSTOCK. CIRCULATE WHIPSTOCK COULD BE PARTIALLY SET. ORIENT WHIPSTOCK. TRY TO SET WHIPSTOCK, NEG 9166'. SET DOWN ON WHIPSTOCK DID NOT SEE PIN SHEAR. PULL WHIPSTOCK BACK UP, CAME FREE. TRIP OUT WITH WHIPSTOCK.

REPORT DATE : 5/24/01 MD : 9,206 TVD : _____ DAYS : 9 MW : 13.2 VISC : 50

DAILY DETAILS : TRIP OUT 40 TO 50K DRAG. WAIT ON FISHING TOOLS. MAKE UP FISHING TOOLS. RUN IN TAG FISH AT 127' DOWN FIRST TRY WITH BOX & TAP OVERSHOT NEG CHANGE TO A REG OVERSHOT, TAG FISH, PULL OUT AND LAY DOWN SAME. MAKE UP BIT & SCRAPER, TRIP IN. CIRCULATE, NO FILL, TD 9206'. WIPER TRIP/SHORT TRIP. CIRCULATE FOR WHIPSTOCK. TRIP OUT. MAKE UP TOOLS & WHIPSTOCK. TRIP IN WITH WHIPSTOCK.

REPORT DATE : 5/25/01 MD : 9,212 TVD : _____ DAYS : 10 MW : 13.3 VISC : 55

DAILY DETAILS : TRIP IN WITH WHIPSTOCK. RIG UP GYRO, ORIENT WHIPSTOCK. SET WHIPSTOCK 299 AZ 44 DEG LEFT TO HIGH SIDE. MILL WINDOW, TOP 9181', BOTTOM 9197'. MILL TO 9212'. CIRCULATE BOTTOMS UP.

REPORT DATE : 5/26/01 MD : 9,212 TVD : 7,329 DAYS : 11 MW : 13.2 VISC : 55

DAILY DETAILS : CIRC & COND MUD, FIT TEST 650 PSI 15# EQUIV. TRIP OUT, LAY DOWN MILLING ASSEMBLY. CLEAN MUD TANKS. MIX MUD . MAKE UP BHA. PICK UP HWDP JARS & DRILL PIPE. TRIP IN WT UP MUD.

REPORT DATE : 5/27/01 MD : 9,452 TVD : 7,530 DAYS : 12 MW : 13.3 VISC : 55

DAILY DETAILS : TRIP IN TO 9212'. WT UP MUD TO 13.2. CIRCULATE, CHANGE WELL OVER. MIX SURFACE VOL, PREHYDRATE GEL, WT UP TO 13.2. DRILL, ROTATE SLIDE FROM 9212' TO 9452'.

REPORT DATE : 5/28/01 MD : 10,095 TVD : 7,750 DAYS : 13 MW : 13.2 VISC : 54

DAILY DETAILS : DRILL ROTATE & SLIDE FROM 9452' TO 9545'. CIRCULATE FOR TRIP. WIPER TRIP/SHORT TRIP, TIGHT GETTING THRU SHOE. DRILL ROTATE & SLIDE FROM 9545' TO 9828'. CIRCULATE FOR TRIP. WIPER TRIP/SHORT TRIP TO SHOE, CAME THRU SHOE OK. SERVICE RIG AND TOP DRIVE. TRIP IN. DRILL ROTATE & SLIDE FROM 9828' TO 10095'.

REPORT DATE : 5/29/01 MD : 10,832 TVD : 8,066 DAYS : 14 MW : 13.2 VISC : 57

DAILY DETAILS : DRILL ROTATE & SLIDE FROM 10092' TO 10298'. CIRCULATE FOR WIPER WIPER TRIP/SHORT TRIP BACK REAM F/ 10015' TO 9921'. DRILL ROTATE & SLIDE 10298' TO 10578'. WIPER TRIP/SHORT TRIP. DRILL ROTATE & SLIDE 10578' TO 10832'.

REPORT DATE : 5/30/01 MD : 10,965 TVD : 8,078 DAYS : 15 MW : 13.2 VISC : 60

DAILY DETAILS : DRILL ROTATE SLIDE F 10832' TO 10896'. CIRCULATE. WIPER TRIP/SHORT TRIP TO SHOE. SERVICE RIG & TOP DRIVE. WIPER TRIP/SHORT TRIP IN. DRILL ROTATE & SLIDE F/ 10896' TO 10965'. CIRCULATE FOR TRIP. TRIP FOR BIT. PULL WEAR BUSHING. RIG UP DOWELL. TEST BOP 250 LOW TO 5000 HIGH. RIG DOWN DOWELL. INSTALL WEAR BUSHING. TRIP IN BHA.

REPORT DATE : 5/31/01 MD : 11,220 TVD : _____ DAYS : 16 MW : 13.2 VISC : 50

DAILY DETAILS : SLIP & CUT DRILL LINE. TRIP IN TO 10674'. WASH/REAM F/ 10674' TO 10965', NO FILL. DRILL ROTATE & SLIDE F/ 10965' TO 11149'. WIPER TRIP/SHORT TRIP. DRILL ROTATE & SLIDE F/ 11149' TO 11220'.

REPORT DATE : 6/1/01 MD : 11,395 TVD : 8,345 DAYS : 17 MW : 13.2 VISC : 65

DAILY DETAILS : DRIL ROTATE F 11220' T 11301' CIRC FOR TRIP WIPER TRIP/SHORT TRIP 11220' T 10720' REPLACE SUB ON TOPDRIVE TAG BOTTOM NO FILL LOST LAND POWER RUNING ON BACK UP POWER TRIP OUT TO SHOE 9200' TRIP IN DRLG ROTATE F 11301' T 11395' CIRC MIX PILL & PUMP

REPORT DATE : 6/2/01 MD : 11,395 TVD : 8,345 DAYS : 18 MW : 13.2 VISC : 62

DAILY DETAILS : TRIP OUT ALL THREE CONES GONE, TIME ON BIT 33.5 HRS & 430'. LAY DOWN MOTOR, MAKE UP BIT, TRIP IN TO 11245'. CIRC TO BOTTOM (11,395'), NO FILL. ROTATE TAG CONES, WORK BIT, MIX PILL & PUMP. TRIP OUT FOR REVERSE CIRCLATING SUB. MAKE UP REVERSE CIRCLATING SUB, TRIP IN. BREAK CIRC, DROP BALL, WORK REVERSE CIRCULATING SUB.

REPORT DATE : 6/3/01 MD : 11,395 TVD : 8,345 DAYS : 19 MW : 13.2 VISC : 62

DAILY DETAILS : CIRC, TAG BOTTOM, WORK REV CIRC TOOL. TRIP OUT, BREAK DOWN TOOLS NO CONES REDRESS SERVICE RIG. MAKE UP REV TOOLS. TRIP IN. CIRC, TAG BOTTOM, WORK REV CIRC TOOL. TRIP OUT, BREAK DOWN TOOLS, NO CONES. LAY DOWN TOOLS, MAKE UP DRILLING ASSEMBLY BHA, LEAVE OUT MOTOR. TRIP IN.

REPORT DATE : 6/4/01 MD : 11,422 TVD : 8,345 DAYS : 20 MW : 13.2 VISC : 61

DAILY DETAILS : TRIP IN WITH BIT AND DRILLING ASSEMBLY. WORK PASSED JUNK. DRLG F/ 11395' TO 11412', TOP DRIVE DOWN. EQUIPMENT FAILURE, WORK ON TOP DRIVE, CIRC WORK PIPE. DRILL ROTATE TRY TO WORK PASSED JUNK, HOLE MADE F/ 11412' TO 11422', TOP DRIVE DOWN. HOLE CONDITIONS & EQUIPMENT FAILURE, CIRC, MIX AND PUMP PILL. TRIP OUT. WORK ON TOP DRIVE CHANGE OUT ELECTRICAL CORDS. MAKE UP JUNK BASKET, LOAD MWD AND TEST, TRIP IN BHA. SLIP & CUT DRLG LINE. TRIP IN TO SHOE, FILL PIPE, WORK TOP DRIVE. DRILL PIPE PLUGGED. TRIP OUT.

REPORT DATE : 6/5/01 MD : 11,422 TVD : _____ DAYS : 21 MW : 13.2 VISC : 68

DAILY DETAILS : TRIP OUT FOR PLUGGED PIPE. TOP OF MONEL PLUGGED & FLOAT SUB. CHECK ALL TOOLS. TRIP IN ONE JOINT OF HWDP. PLUGGED. CHANGED OUT TRIP IN 20 STANDS. FOUND CEMENT BUILT UP IN TOOL JOINTS. TRIP OUT CLEANING OUT TOOL JOINTS. LAY DOWN MWD & FLOAT SUB. PULL JETS OUT OF BIT. TRIP IN CLEANING TOOL JOINTS. CIRC AT SHOE. TRIP IN TO 11250'. CIRC. GET UP & DOWN WT & TORQUE TRIP IN. FILL PIPE CLEAN 10' TO BOTTOM. LITTLE TORQUE OFF BOTTOM. DRLG AHEAD FROM 11422' TO 11534'.

REPORT DATE : 6/6/01 MD : 11,649 TVD : _____ DAYS : 22 MW : 13.2 VISC : 52

DAILY DETAILS : DRILL FROM 11534' TO 11538'. CIRCULATED. POOH TO CHECK BIT. BIT HAD LOCKED UP. CLEANED JUNK BASKET. VERY LITTLE JUNK IN BASKET. R.I.H. WITH BIT AND JUNK BASKET TO 2000'. SERVICE RIG AND TOP DRIVE. POOH. CHANGED BIT TO A SHORTER TOOTH BIT. RIH TO 11538'. TAGGED BOTTOM AND WORKED JUNK BASKET. DRILL FROM 11538' TO 11649'. NO TORQUE. NO DRAG. WORKED JUNK BASKET AFTER 30' AND ON CONNECTION.

REPORT DATE : 6/7/01 MD : 11,850 TVD : _____ DAYS : 23 MW : 13.2 VISC : 59

DAILY DETAILS : DRILL FROM 11,649' TO 11,722'. CIRCULATED BOTTOMS UP FOR LOGGERS. MADED UP AND DROPPED SINGLE SHOT SURVEY. POOH. CLEANED OUT JUNK BASKET. VERY LITTLE JUNK. MADE UP BIT AND JUNK BASKET. SERVICE RIG AND TOP DRIVE. RIH TO 11,722'. WORKED JUNK BASKET. DRILL FROM 11,722' TO 11,850'. WORKING JUNK BASKET ON CONNECTIONS.

REPORT DATE : 6/8/01 MD : 11,920 TVD : 8,822 DAYS : 24 MW : 13.2 VISC : 49

DAILY DETAILS : DRILL FROM 11,850' TO 11,920'. TD AT 15:00, 6/7/01. CIRCULATED BOTTOMS UP FOR LOGGERS. WIPED HOLE TO SHOE. TIGHT FROM 11,660' TO 11,650'. P/U TOP DRIVE AND UP REAMED OUT. WORKED PIPE THROUGH OKAY. CIRCULATED AND CONDITION MUD FOR LOGS. DROPPED SURVEY AND PUMPED DOWN. POOH FOR LOGS. TIGHT FROM 11,815' TO 11,810'. UP REAMED THROUGH OKAY. RETRIEVE SURVEY BARREL. SURVEY NO GOOD. L/D MONEL COLLARS. RIGGED UP SCHLUMBERGER.

TVD

REPORT DATE : 6/9/01 MD : 11,920 TVD : 8,822 DAYS : 25 MW : 13.2 VISC : 46

DAILY DETAILS : RIH WITH PLATFORM EXPRESS-CMR ON 5" DRILL PIPE TO 9159'. R/U SCHLUMBERGER. CIRC. M/U SIDE ENTRY SUB AND RIH WITH WIRELINE. ATTEMPT TO LATCH WIRELINE TO PLATFORM EXPRESS. NO GOOD. POOH WITH WIRELINE. R/U AND REVERSE CIRCULATED 1 1/2 DRILL PIPE VOLUME. M/U SIDE ENTRY SUB AND RIH WITH WIRELINE. ATTEMP TO LATCH PLATFORM EXPRESS. NO GOOD. POOH WITH WIRELINE. POOH WITH 5" D.P. INSPECT TOOL. MALE PRONG ON LOGGING TOOL BENT. CHANGED OUT TOOL. RIH WITH PLATFORM EXPRESS-CMR ON 5" DRILL PIPE TO 9159'.

REPORT DATE : 6/10/01 MD : 11,920 TVD : 8,822 DAYS : 26 MW : 13.2 VISC : 54

DAILY DETAILS : CONTINUE RIH WITH PLATFORM EXPRESS-CMR ON 5" D.P. TO 9159'. M/U SIDE ENTRY AND RIH WITH WIRELINE. LATCH WET CONNECT. GOOD. LOGGED DOWN FROM 9183' TO 11,897'. LOGGED PLATFORM EXPRESS-CMR UP FROM 11,897' TO 9183'. L/D SIDE ENTRY SUB AND POOH WITH WIRELINE. POOH WITH LOGGING TOOL ON 5" DP. R/D SCHLUMBERGER. SERVICED RIG AND CHANGED SWIVEL PACKING.

REPORT DATE : 6/11/01 MD : 11,920 TVD : 8,822 DAYS : 27 MW : 13.2 VISC : 58

DAILY DETAILS : CONTINUE CHANGING WASHPIPE IN SWIVEL. P/U BIT AND STAB. RIH WITH HWDP. SLIP AND CUT DRILL LINE. RIH TO 11920'. NO FILL. CIRCULATED AND CONDITION MUD AT 11920'. POOH. PUMP AND ROTATED OUT FROM 11822' TO 11640'. M/U DSI-EMS-GPIT ON 5" DRILL PIPE. RIH WITH LOGGING TOOL ON 5" DP TO 9159'.

REPORT DATE : 6/12/01 MD : 11,920 TVD : _____ DAYS : 28 MW : 13.2 VISC : 56

DAILY DETAILS : R/U SCHLUMBERGER SIDE ENTRY SUB AND RIH WITH WIRELINE. ATTEMPT TO LATCH WET CONNECT. NO GOOD. POOH W/ WIRELINE. R/D SCHLUMBERGER. POOH WITH DRILL PIPE AND LOGGING TOOL. MALE PRONG ON LOGGING TOOL BENT. CHANGED OUT. RIH TO 9159'. R/U SIDE ENTRY SUB AND RIH WITH WIRELINE. LATCHED ONTO LOGGING TOOL. LOGGED DOWN AND UP WITH DSI-EMS-GPIT FROM 9181' TO 11903' TO 9181'. POOH WITH WIRELINE. L/D SIDE ENTRY SUB. R/D SCHLUMBERGER. R/U TO L/D 5" DRILL PIPE. NOTE: LOGGING TOOL SHOWED BOTTOM HOLE LOCATION AT AZIMUTH 349.34 DEG, DEVIATION 39.2 DEG, AT 11, 903.

REPORT DATE : 6/13/01 MD : 11,920 TVD : 8,822 DAYS : 29 MW : 13.2 VISC : 57

DAILY DETAILS : L/D 6,311' OF 5" DRILL PIPE TO BE RABBITED. POOH AND L/D LOGGING TOOL. PULLED WEAR BUSHING AND INSTALLED TEST PLUG. CHANGED TOP PIPE RAMS FROM 2-7/8" X 5" TO 5". CHANGED BOTTOM PIPE RAMS TO 2 7/8" X 5". TEST ALL RAMS AND VALVES TO 250 / 5000 PSI. ANNULAR PREVENTER TO 250/3500 PSI.

REPORT DATE : 6/14/01 MD : 11,920 TVD : 8,822 DAYS : 30 MW : 13.2 VISC : 64

DAILY DETAILS : CONTINUE TESTING ALL RAMS AND VALVES TO 250 / 5000 PSI. PULLED TEST PLUG AND INSTALLED WEAR BUSHING. RIH WITH BIT AND BHA. RAN 27 STANDS FROM DERRICK. P/U 8059' OF 5" DRILL PIPE. CIRCULATED AND CONDITION MUD. WIPED HOLE TO SHOE. CIRCULATED AND CONDITION MUD TO RUN LINER. DROPPED RABBIT. POOH TO RUN CASING.

REPORT DATE : 6/15/01 MD : 11,920 TVD : _____ DAYS : 31 MW : 13.2 VISC : 64

DAILY DETAILS : CONTINUE POOH TO RUN LINER. STOPPED DRILLING TIME AT 08:00 6/14/01. FINAL REPORT.

REPORT DATE : 6/15/01 MD : 11,920 TVD : 8,825 DAYS : 31 MW : 13.2 VISC : 52

DAILY DETAILS : RIG UP CASING CREW. PICK UP 65 JOINTS OF 5-1/2", 17#, S-95, LTC LINER. MAKE UP BAKER LINER HANGER AND RUNING TOOL. RIH WITH 5-1/2" LINER ON 5" DP TO 9181'. FILLING PIPE WHILE RUNNING IN. CIRCULATED AT SHOE. TRIP IN WITH LINER TAG BOTTOM PICK UP 5'. CIRCULATE LINER. DROP BALL, SET LINER. RELEASED FROM LINER. R/U DOWELL LINES AND SURFACE TEST TO 5000 PSI. DOWELL PRESSURED UP TO 4400 PSI. BALL DID NOT SHEAR. BLED OFF. PRESSURED UP TO 5000 PSI THREE TIMES. BALL DID NOT SHEAR. PRESSURED UP TO 5500 PSI. BALL DID NOT SHEAR. BLED PRESSURE OFF. CONTINUE PRESSURING UP AND BLEEDING OFF TO 5500 PSI NUMEROUS TIMES. TRIED ONE TIME TO 6000 PSI.

REPORT DATE : 6/16/01 MD : 11,920 TVD : 8,822 DAYS : 32 MW : 13.2 VISC : 58

DAILY DETAILS : DISCUSSED SITUATION WITH ENGINEER AND MANAGER. SERVICE RIG AND ADJUSTED CLUTCH. POOH LINER SLOW. STOOD TOP DRIVE HEAD IN DERRICK. MIX AND PUMP SLUG. POOH AND L/D LINER RUNNING TOOL. MEASURED AND P/U 81 JOINTS OF 2-7/8" TUBING. POOH WITH TUBING. P/U 21 JOINTS OF 3-1/8" DRILL COLLARS. RIH WITH 4-3/4" BIT AND 2-7/8" TUBING ON 5" DRILL PIPE.

REPORT DATE : 6/17/01 MD : 11,920 TVD : 8,822 DAYS : 33 MW : 13.2 VISC : 59

DAILY DETAILS : DRILL WIPER PLUG AND LANDING COLLAR AT 11,813'. DRILL ON JUNK ON TOP OF FLOAT COLLAR AT 11,861'. PUMP HI-VIS SWEEPS. PUMPED TWO HI-VIS SWEEPS BACK TO BACK. CIRCULATED BOTTOMS UP. POOH 85 STANDS. SLIP AND CUT DRILL LINE. L/D 27 JOINTS OF 5" DRILL PIPE TO BE RATTLED. CHANGED HANDLING TOOLS AND POOH WITH 2-7/8" TUBING. L/D 21 JOINTS OF 3-1/8" DRILL COLLARS. WOULD NOT RACK IN DERRICK SAFELY. P/U BAKER SEAL ASSEMBLY AND PICKING UP 5" DRILL PIPE.

REPORT DATE : 6/18/01 MD : 11,920 TVD : 8,822 DAYS : 34 MW : 13.2 VISC : 55

DAILY DETAILS : CONTINUE PICKING UP 5" DRILL PIPE. RIH SLOW. CIRC AT TOP OF LINER (8887'). STABBED INTO LINER WITH SEAL ASSEMBLY AND LOCATED LINER TOP WITH LOCATOR. INITIAL PRESSURE TO BREAK CIRCULATION. 2800 PSI AT 1 BPM. SLOWLY INCREASED PUMP ONCE MUD STARTED MOVING-4.5 BPM UNTIL OPEN HOLE VOLUME WAS INSIDE 9-5/8". INCREASED PUMP TO 6 BPM UNTIL BOTTOMS UP. INCREASED TO 7.5 BPM FOR 30 MIN AT 1300 PSI. R/U DOWELL LINES AND TEST TO 4500 PSI. HELD SAFETY MEETING. PUMP 20 BBLS OF CW100, 30 BBLS OF MUD PUSH XT, FOLLOWED BY 758 SACKS OF CLASS "G" PLUS ADDITIVES. DISPLACED WITH 197 BBLS OF MUD. DID NOT SEE DART LATCH WIPER PLUG. DID NOT BUMP PLUG. FLOATS NOT HOLDING 100%. C.I.P. AT 17:55 6/17/01. SET LINER PACKER. PULLED OUT OF LINER. PULLED 10 STANDS. REVERSE CIRCULATED 2 DRILL PIPE VOLUMES. 23 BBLS OF CEMENT TO SURFACE. POOH WITH SEAL ASSEMBLY AND L/D SAME. P/U 8 1/2" BIT AND BHA. RIH. TAGGED TOP OF LINER AT 8887'. CIRCULATING BOTTOM UP.

REPORT DATE : 6/19/01 MD : 11,920 TVD : 8,822 DAYS : 35 MW : 13.2 VISC : 54

DAILY DETAILS : CIRCULATE. PERFORM CIT TEST 1335# WITH 13.2 MUD EMW 16.7. TRIP OUT 94 STANDS. LD/PU DRILL PIPE & BHA. SERVICE RIG. MAKE UP WSO TOOLS. TRIP IN FILL PIPE WITH SEA WATER EVERY 10 STANDS 47 - STANDS 4478'. SET PACKER AT 8841', TEST LINER TOP. PULL PACKER FREE TRIP OUT.

REPORT DATE : 6/20/01 MD : 11,920 TVD : 8,822 DAYS : 36 MW : 13.2 VISC : 46

DAILY DETAILS : TRIP OUT, LAY DOWN TEST TOOLS. MAKE UP MOTOR & MILL, TRIP IN, TAG CEMENT AT 11154'. DRILL CEMENT/FROM 11154' TO 11271'. TRIP OUT. CIRCULATE, DROP BALL, SHIFT SLEVE PUMP PILL. TRIP OUT. REPAIR HYD UNIT. TRIP OUT.

REPORT DATE : 6/21/01 MD : 11,920 TVD : 8,822 DAYS : 37 MW : 13.2 VISC : 59

DAILY DETAILS : TRIP OUT FOR BHA, LAY DOWN MOTOR. SERVICE RIG. PU/LD BHA & TOOLS, BIT & 3 1/8" DC. TRIP IN TO DRLG CEMENT. DRILL CEMENT FROM 11271' TO 11818'. CIRCULATE BOTTOMS UP. TRIP OUT TO TOP OF LINER 8887'. PERFORM CIT TEST 1835 PSI WITH 13.2 MUD EMW 18+. TRIP OUT FOR SCRAPER.

REPORT DATE : 6/22/01 MD : 11,920 TVD : 8,822 DAYS : 38 MW : 13.2 VISC : 69

DAILY DETAILS : TRIP OUT FOR SCRAPER. SERVICE RIG. TRIP OUT FOR SCRAPER. PU/LD BHA LAY DOWN 3-1/8" DC'S. MAKE UP SCRAPER. TRIP IN TAG BOTTOM AT 11818'. CIRCULATE BOTTOMS UP. CUT DRLG LINE. SHORT TRIP-9 STANDS FROM 11818' TO 10963'. CIRCULATE WELL CLEAN. TRIP OUT FOR LOGS. RIG UP SCHLUMBERGER.

REPORT DATE : 6/23/01 MD : 11,920 TVD : 8,822 DAYS : 39 MW : 13.2 VISC : 69

DAILY DETAILS : RIG UP SCHUMBERGER. MAKE UP TOOLS USIT-NEU-GR CCL-LOGS. TRIP IN WITH TOOLS TO 8793' FILLING PIPE EVERY 10 STANDS. RIG UP SIDE ENTRY SUB AND SHEAVES. RUN IN WITH SCHUMBERGER LATCH UP TOOL. LOGGING FROM 8802' TO 11801'. LOG OUT 11801' TO 8802'. PULL WIRELINE OUT.

REPORT DATE : 6/24/01 MD : 11,920 TVD : 8,822 DAYS : 40 MW : 13.2 VISC : 69

DAILY DETAILS : RIG DOWN SCHLUMBERGER. TRIP OUT WITH LOGS. LAY DOWN LOGGING TOOLS. TRIP IN S-L-M. CIRCULATE COND MUD. TRIP OUT FOR PERF GUNS. MAKE UP GUNS. TRIP IN.

REPORT DATE : 6/25/01 MD : 11,920 TVD : 8,822 DAYS : 41 MW : 13.2 VISC : 50

DAILY DETAILS : TRIP IN TO 11680'. CIRCULATE. FIRE GUNS FROM 11680' TO 11682'. CIRCULATE PUMP PILL. TRIP OUT FOR CEMENT RETAINER. LAY DOWN GUN MAKE UP CEMENT RETAINER. TRIP IN WITH CEMENT RETAINER. RUNNING ON BACK-UP GEN. SET CEMENT RETAINER AND TEST AT 11664'. CIRCULATE & COND MUD. WAIT ON SCHLUMBERGER. CEMENTERS CIRCULATE & COND MUD. RIG UP SCHLUMBERGER. HELD SAFETY MEETING. STING INTO RETAINER. PRESS TEST LINES TO 3500PSI. BRAKE DOWN RATE 1/2 BBL1000PSI-11/2BBL2000PSI-21/2BBL3200PSI-FOR 20BLLS. WATER INJ PUMP BAD IN CEMENT UNIT NEED TO REPLACE BEFORE CEMENTING.

REPORT DATE : 6/26/01 MD : 11,920 TVD : 8,822 DAYS : 42 MW : 13.2 VISC : 52

DAILY DETAILS : WORK ON CEMENT UNIT SAFETY MEETING TEST LINES TO 3500PSI MIX & PUMP 75 SKS CLASS G CEMENT 15.8# 1.19 YIELD 16BBLS DISPLACE 140BBLS STING INTO RETAINER SQUEEZE 21BBLS INTO FORMATION 2 BBLS A MIN 2700PSI SHUT DOWN PRESS STAYED AT 2000PSI STING OUT OF RETAINER REV CIRC TRIP OUT LAY DOWN RUNING TOOLS MAKE UP GUNS TRIP IN TO 11584' CIRCULATE PUMP DOWN BALL FIRE GUNS AT 11584' TO 11586' PUMP PILL TRIP OUT LAY DOWN GUNS MAKE UP RETAINER TRIP IN AND SET RETAINER AT 11564' AND TEST CIRCULATE RIG UP SCHLUMBERGER SAFETY MEETING TEST LINES TO 4000PSI STING INTO RETAINER BRAKE DOWN FORMATION RATE 1/2BBL 1200- 11/2BBL2400-2BBL2600-21/2BBL2700-3BBLS3200 PUMPED 20BBLS BLEED DOWN PRESS STING OUT CIRC

REPORT DATE : 6/27/01 MD : 11,920 TVD : 8,822 DAYS : 43 MW : 13.3 VISC : 47

DAILY DETAILS : MIX AND PUMP 125 SKS CLASS "G" CEMENT 15.8# 1.19 YIELD 26BBLS DISPLACE 130BBLS. STING INTO RETAINER. SQUEEZE 30BBLS INTO FORMATION AT 2BBL/MIN STARTING AT 2200 PSI. SLOWED DOWN TO1BBL/MIN. SHUT DOWN AT 3300 PSI. PRESS CAME DOWN TO 2750 PSI. STING OUT OF RETAINER. REV CIRC. TRIP OUT. LAY DOWN TOOLS. MAKE UP GUNS. TRIP IN TBG. CIRCULATE COND MUD. SLIP & CUT DRLG LINE TRIP IN TO11428'. CIRCULATE PUMP DOWN. BALL FIRE GUNS AT 11426' TO 11428'. CIRCULATE BOTTOMS UP. PUMP PILL. TRIP OUT. LAY DOWN TOOLS. MAKE UP RETAINER. TRIP IN.

REPORT DATE : 6/28/01 MD : 11,920 TVD : 8,822 DAYS : 44 MW : 13.2 VISC : 42

DAILY DETAILS : TRIP IN WITH RETAINER. SET AT 11406' AND TEST. CIRC. RIG UP SCHLUMBERGER. SAFETY MEETING. TEST LINES TO 4000 PSI. STING INTO RETAINER. BRAKE DOWN FORMATION. 1/2 BBL 1900PSI,1-1/2BBL, 3150 PUMPED 20 BBLS. BLEED DOWN. PRESS STING OUT. MIX AND PUMP 100 SKS CLASS "G" CEMENT 15.8# 1.19 YIELD 21 BBLS. DISPLACE 132 BBLS. STING INTO RETAINER. SQUEEZE 25 BBLS INTO FORMATION AT 11/2 BBLS A MIN. STARTING AT 3100 PSI. SHUT DOWN AT 3250 PSI PRESS CAME DOWN TO 2550 PSI. STING OUT OF RETAINER. REV CIRC. TRIP OUT LAY DOWN TOOLS RIG UP SCHLUMBERGER. PULL WEAR BUSHING. INSTALL TEST PLUG. TEST BOPS 250 PSI, LOW 5000 PSI HIGH. RIG DOWN. PULL TEST PLUG. INSTALL WEAR BUSHING. MAKE UP PERF GUNS TRIP INTO 11228'.

REPORT DATE : 6/29/01 MD : 11,920 TVD : 8,822 DAYS : 45 MW : 13.2 VISC : 48

DAILY DETAILS : TRIP IN WITH PERF GUNS TO 11228'. CIRC PUMP DOWN. BALL FIRE GUNS AT 11226' TO 11228'. TRIP OUT 30 STANDS WELL TUBING. CIRC BOTTOMS UP. PUMP PILL. TRIP OUT. LAY OUT TOOLS. MAKE UP RETAINER. TRIP IN SET AT 11206' AND TEST. CIRC. RIG UP SCHLUMBERGER. SAFETY MEETING. TEST LINES TO 4000 PSI. STING INTO RETAINER. BRAKE DOWN FORMATION. 1/2BBL1400-11/2BBL2500-2BBL2900-21/2BBL3200-BLEED DOWN PRESS PUMPED 10BBLS STING OUT OF RETAINER MIX AND PUMP 195SKS CLASS "G" CEMENT 15.8#. 1.19. YIELD 41BBLS. DISPLACE 106 BBLS. STING INTO RETAINER. SQUEEZE 41 BBLS INTO FORMATION AT 2 BBL/MIN. 2700 PSI BUILT TO 3000 PSI. 5 BBLS AT 1 BBL/MIN. 2650 PSI. SHUT DOWN AT 2400 PSI. PRESS FELL TO 2050 PSI. STING OUT OF RETAINER. REV CIRC. WOC. PUMP PILL. TRIP OUT. LAY DOWN TOOLS. WOC. MAKE UP BIT. PICKUP 21 3-1/8" DC'S. WOC. TRIP IN. WOC.

REPORT DATE : 6/30/01 MD : 11,920 TVD : 8,822 DAYS : 46 MW : 13.3 VISC : 46

DAILY DETAILS : TRIP INTO TOP OF LINER 8887'. WOC. WAIT ON CEMENT. WORK ON BRIDAL LINE, SHEAVES, POCKETS & DERRICK PINS & BOLTS. TRIP IN. TAG RETAINER AT 11194'. DRLG RETAINER AT 11194'. 8' OF CEMENT TEST TO 2000 PSI. OK- RUN IN. TAG CEMENT 2' OF CEMENT ON TOP OF RETAINER AT 11406'. 10' CEMENT UNDER RETAINER. TEST 2000 PSI. OK - RUN IN. TAG 3' OF CEMENT ON TOP OF RETAINER AT 11564'. DRILLING CEMENT AND PUSHING PARTS OF RETAINER PIPE TORQUED UP. LOSS OF PRESS. TRIP OUT FOR LOSS OF WT & PUMP PRESS. TWISTED OFF 2-7/8" PH6 TBG 3' DOWN FROM TOOL JOINT. TOP OF FISH 8069'. LAY DOWN THREE BENT JOINTS. SERVICE RIG. WAIT ON FISHING TOOLS. MAKE UP TOOLS. TRIP IN. TAG FISH AT 8069'. WORK OVERSHOT OVER FISH. TRIP OUT WITH FISH.

REPORT DATE : 7/1/01 MD : 11,920 TVD : 8,822 DAYS : 47 MW : 13.3 VISC : 46

DAILY DETAILS : TRIP OUT WITH FISH & LAY DOWN. LAY DOWN 100 JOINTS OF TBG- SOME BENT TRIP OUT DC'S. CHANGE BITS. TRIP IN DC' S. PICK UP 78 JOINTS OF PH6 8.6# . TRIP TRIP IN TO 11580'. TAG CEMENT. DRLG 6' OF CEMENT. CIRC TEST PERF TO 2000 PSI. OK-RUN IN TAG RETAINER ON CEMENT ON TOP DRLG RETAINER. 6' OF CEMENT. CIRC TEST PERF TO 2000 PSI. OK-RUN IN TAG CEMENT AT 11818'. DRLG CEMENT TO 11825'. CIRC PUMP PILL. TRIP OUT FOR SCRAPER.

REPORT DATE : 7/2/01 MD : 11,920 TVD : 8,822 DAYS : 48 MW : 13.4 VISC : 45

DAILY DETAILS : TRIP OUT FOR SCRAPER. LAY DOWN 3-1/8" DC'S. ONE CONE OFF BIT. MAKE UP BIT & SCRAPER. TRIP IN TBG. PICK UP 21 JOINTS OF TBG. TRIP IN. TAG BOTTOM AT 11833' . CIRC FOR LOGS. CUT DRLG LINE. PUMP PILL. TRIP OUT FOR LOGS. DROP RABBIT. PICK UP LOGGING TOOLS. TRIP IN WITH TOOLS. FILL PIPE EVERY 10 STANDS.

REPORT DATE : 7/3/01 MD : 11,920 TVD : _____ DAYS : 49 MW : 13.4 VISC : 45

DAILY DETAILS : RIG UP SCHLUMBERGER. RUN IN WITH SCHLUMBERGER. LATCH IN TOOL. LATCH IN CHECK TOOLS. NOT WORKING. WAIT ON COMPUTER TOOLS. DIDN'T FIX THE PROBLEM. UNLATCH, PULL WIRELINE OUT REHEAD. WIRELINE FIXED PROBLEM. RUN IN WITH WIRELINE. LATCH UP. RUN IN WITH LOGGING TOOLS AND WIRE LINE. CORRELATE LOGS. LOG OUT. TOOLS QUIT WORKING. GOT 90' OF LOG. START TRIP OUT. TIGHT AT 11025'. WORK PIPE. COULD BE CENTRALIZERS HANGING UP. TRIP OUT. GOT TO SIDE ENTRY. TRY TO UNLATCH CABLE, PARTED AT SIDE. RETRY SUB. PULL 2 STANDS. RETRIEVE WIRE LINE. TIE LOGGING LINE. WORK LINE OVER SHEAVES. UNLATCH. PULL OUT WITH WIRE LINE.

REPORT DATE : 7/4/01 MD : 11,920 TVD : 8,822 DAYS : 50 MW : 13.2 VISC : 46

DAILY DETAILS : PULL OUT OF HOLE WITH WIRELINE. TRIP OUT WITH TOOLS. WORK ON SCHLUMBERGER TOOLS. TRIP IN WITH LOGGING TOOLS. FILL EVERY 10 STANDS. RUNNING ON BACK UP POWER. RIG UP SCHLUMBERGER SHEAVES. RUN IN WITH WIRE LINE. LATCH IN. MIX AND PUMP PILL. LOGGING. RIG DOWN SCHLUMBERGER.

REPORT DATE : 7/5/01 MD : 11,920 TVD : 8,822 DAYS : 51 MW : 8.5 VISC : 27

DAILY DETAILS : RIG DOWN SCHLUMBERGER. TRIP OUT WITH LOGGING TOOLS. LAY DOWN LOGGING TOOLS. TRIP IN OPEN ENDED TO CIRC. CHANGE WELL OVER SERVICE RIG. WORK ON HIGH CLUCH. CIRC. CHANGE WELL OVER TO SEA WATER. CLEAN MUD TANKS AND RIG FOR COMPLETION.

REPORT DATE : 7/6/01 MD : 11,920 TVD : 8,822 DAYS : 52 MW : 8.5 VISC : 27

DAILY DETAILS : CIRCULATE. CLEAN SURFACE EQUIP AND ECI TANK. TRIP OUT FOR BRUSHES. MAKE UP SCRAPERS AND BRUSHES.

REPORT DATE : 7/7/01 MD : 11,920 TVD : 8,822 DAYS : 53 MW : 8.5 VISC : 27

DAILY DETAILS : MAKE UP SCRAPERS AND BRUSHES. TRIP IN TBG. WRONG XO SUB. WAIT ON SUB. CLEAN SURFACE EQUIP. TRIP IN. CIRC 5-1/2" LINER. SET DOWN ON MFCT. CIRC 9-5/8" CASING. TRIP OUT TO LINER TOP. CIRC. WASH LINER TOP. TRIP TO BOTTOM. CIRC. PUMP CAUSTIC PILL LONG WAY. REV CIRC A CAUSTIC PILL. PUMP SOAP PILL LONG WAY.

REPORT DATE : 7/8/01 MD : 11,920 TVD : 8,822 DAYS : 54 MW : 13.3 VISC : 27

DAILY DETAILS : CIRCULATE PUMP PILLS. CLEAN FLOW LINES. CIRCULATE HIGH VIS PILL. CHANGE OVER TO CaBr 13.4. TRIP OUT WITH BRUSHES. LAY DOWN TOOLS. TRIP OUT WITH TBG. REPAIR HYD HOSE. TRIP OUT WITH TBG. LAY DOWN TOOLS. MAKE UP TOOLS. SUMP PACKER. WORK ON HYD UNIT. TRIP IN WITH PACKER. RIG UP SCHLUMBERGER.

REPORT DATE : 7/9/01 MD : 11,920 TVD : 8,822 DAYS : 55 MW : 13.3 VISC : 27

DAILY DETAILS : RIG UP SCHLUMBERGER. RUN IN HOLE. TOOL FAILURE, PULL OUT OF HOLE. CHANGE TOOLS. RUN IN HOLE. TOOL FAILURE. PULL OUT. REWIRE LOGGING HEAD. RUN IN. DO CORRELATION LOG 11' OFF. PULL OUT. PICK UP PUP JOINT. RUN IN LOG ON DEPTH. PULL OUT. RIG DOWN SCHLUMBERGER. DROP BALL. TRY SETING SUMP PACKER BALL. WOULD NOT SEAT. REV CIRC PIPE. TRY TO RESEAT BALL. NEG. TRIP OUT TO INSPECT PACKER. PACKER MISSING SCALE AND PERF JUNK IN SEAT & ON TOP OF BALL. MAKE UP SCRAPER. TRIP IN.

REPORT DATE : 7/10/01 MD : 11,920 TVD : 8,822 DAYS : 56 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE TO RIH WITH 5-1/2" CASING SCRAPER. RIH TO 11,673'. DID NOT TAG SUMP PACKER. RIGGED UP AND REVERSED CIRCULATED. POOH WITH CASING SCRAPER. CHANGED GAUGES ON TUBING TONGS. RIH WITH OPEN ENDED TUBING. TIGHTEN EACH JOINT. CHANGED OUT HYD POWER UNIT. POOH WITH TUBING. PICKED UP 5-1/2" SUMP PACKER AND RUNNING TOOL. RIH ON 2-7/8" TUBING AND 5" DRILL PIPE TO 11,658'. BROKE CIRC AND DROPPED BALL.

REPORT DATE : 7/11/01 MD : 11,833 TVD : 8,822 DAYS : 57 MW : 13.4 VISC : 29

DAILY DETAILS : PRESSURED UP AND SET SUMP PACKER AT 11,658'. PULLED 30K UP AND SET 20K DOWN ON PACKER. PULLED UP AND RELEASED FROM PACKER. PUMP PRESSURE DID NOT DROP. BLED OFF PRESSURE. R/U AND ATTEMPT TO REVERSE CIRCULATE. 1500 PSI AT 1/2 BPM. NO GOOD. POOH WITH PACKER. RUNNING TOOL. L/D RUNNING TOOL. SOME DEBRIS IN RUNNING TOOL. PULLED WEAR BUSHING. RAN TEST PLUG. DID NOT HOLD. PULLED AND CHANGED O-RING. SET TEST PLUG. STARTED TESTING BOP. DOWELL CHART NOT WORKING. CHANGED CHART. NO GOOD. CHECKED AND CLEAN PRESS SENSOR. NO GOOD. CHANGED HOSE TO CHART. GOOD. TEST ANNULAR PREVENTER TO 250 - 3500 PSI. GOOD. TEST LOWER PIPE RAMS TO 250 - 5000 PSI. GOOD. TEST UPPER PIPE RAMS. NO GOOD. OPENED BONNET AND INSPECTED RAM. DID NOT SEE ANYTHING WRONG. CHANGED RAMS. RETESTED. NO GOOD. CONTINUE TESTING B.O.P.E. TO 250 - 5000 PSI.

REPORT DATE : 7/12/01 MD : 11,833 TVD : 8,822 DAYS : 58 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE TESTING BOP. TEST LOWER PIPE RAMS ON 2-7/8" TUBING AND 2-7/8" IBOP AND TIW VALVE TO 250 - 5000 PSI. GOOD. TEST ANNULAR PREVENTER ON 2-7/8" TBG TO 250 - 3500 PSI. GOOD. L/D 2 7/8" TEST PIPE AND P/U 5" TEST PIPE. CLEANED 5" PIPE RAMS AND RAM HOUSING. HYDRIL SERVICE REP INSPECTED AND CHANGED RUBBERS ON RAM AND INSTALLED. TEST UPPER PIPE RAM. NO GOOD. OPENED ONE BONNET FOR PIPE RAM. FUNCTIONED RAMS. OBSERVED RAM IN HOUSING. DID NOT SHOW ANY COMPRESSION ON SEALS. NOTIFIED MMS, DALE ROBERTS, OF CHANGING OUT 13-5/8" X 5K DOUBLE GATE AND SETTING STORM PACKER AT +/- 665'. SLIP & CUT DRILL LINE. DRAIN FRESH WATER IN RISER AND PULLED TEST PLUG. PREPARE TO NIPPLE DOWN BOP. RIH WITH 9-5/8" 47# BRIDGE PLUG TO 665'. WOULD NOT SET. POOH. CHECK AND RIH TO 665'. WOULD NOT SET. CALLED MMS, DALE ROBERTS, PACKER WAS NOT REQUIRED SINCE WELL WAS NOT OPEN. POOH AND L/D BRIDGE PLUG. NIPPLE DOWN BOP TO CHANGE DOUBLE GATE RAMS.

REPORT DATE : 7/13/01 MD : 11,833 TVD : 8,822 DAYS : 59 MW : 13.4 VISC : 29

DAILY DETAILS : NIPPLE DOWN B.O.P. NIPPLE UP B.O.P. (CHANGED OUT DOUBLE GATE RAMS). TEST B.O.P. TEST BLIND RAMS AND 5" DRILL PIPE RAMS TO 250 - 5000 PSI. GOOD. TEST ANNULAR PREVENTER TO 250 - 3500 PSI. GOOD. PULLED TEST PLUG. INSTALLING WEAR BUSHING.

REPORT DATE : 7/14/01 MD : 11,833 TVD : 8,822 DAYS : 60 MW : 13.4 VISC : 29

DAILY DETAILS : INSTALLED WEAR BUSHING. MADE UP SUMP PACKER LATCH-IN TOOL AND RIH. LATCHED INTO PACKER AT 11,658' (WIRELINE MEASURE). 11,673' DP MEASUREMENT. PICKED UP AND UNLATCHED. REVERSED HOLE CLEAN FROM 11,673'. (11,658' W/L MEASUREMENT). POOH WITH LATCH-IN TOOL. REGULATOR CONTROLING DIVERTER AND ALL GAUGES FOR REMOTE CONTROL ON RIG FLOOR WENT OUT. CONTINUE POOH. INSTALLED THREE-WAY VALVE ON CROWN-O-MATIC. CHANGED REGULATOR AND CONTROL LINE FOR DIVERTER.

REPORT DATE : 7/15/01 MD : 11,833 TVD : 8,822 DAYS : 61 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE WORKING ON KOOMEY UNIT. FIXED PRESSURE TO DIVERTER. P/U PERF GUNS AND RIH TO 9647'. GUNS SET DOWN. TRIED TO WORK GUNS PASS OBSTACLE. POOH WITH PERF GUNS. RIH WITH 4 3/4" BIT TO 11,673' (TOP OF SUMP PACKER) DID NOT TAG ANYTHING AT 9647'. ROTATE WITH 500# ON BIT. REVERSED CIRCULATED TWO DRILL PIPE VOLUMES. POOH WITH 4 3/4" BIT.

REPORT DATE : 7/16/01 MD : 11,833 TVD : 8,822 DAYS : 62 MW : 13.4 VISC : 29

DAILY DETAILS : POOH L/D 4 3/4" BIT. P/U PERF GUNS AND RIH TO 11,673' (MEASURED DEPTH). TAGGED TOP OF SUMP PACKER WITH SEAL ASSEMBLY. UNABLE TO WORK INTO PACKER AND LATCH. DROPPED BALL. HELD SAFETY MEETING. PRESSURED UP AND FIRED GUNS. PERFORATED 12 SPF, 12 GM, RDX, .062 DIA. BOTTOM PERF AT 11,648' W/L DEPTH. TOP PERF AT 11,640' W/L DEPTH. MONITOR WELL. OKAY. POOH WITH GUNS. L/D SAME. RIH WITH 4 3/4" BIT AND 5 1/2" 17# CASING SCRAPER TO 11,673'. WORKED SCRAPER FROM 11,673' TO 11,640' (MEASURED DEPTH). REVERSED CIRCULATED HOLE CLEAN.

REPORT DATE : 7/17/01 MD : 11,833 TVD : 8,822 DAYS : 63 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE REVERSE CIRCULATING HOLE CLEAN. POOH WITH SCRAPER. L/D SAME. PICKED UP AND RIH WITH SUPERMAX 12 GAUGE 316SS/140 WIRE PRODUCTION SCREEN. TAGGED SUMP PACKER AT 11,673' (11,658 WIRELINE DEPTH) WITH BULL PLUG. SPACED OUT AND CHANGED OUT ELEVATOR BAILS. R/U DOWELL SURFACE MANIFOLD. DROP BALL. TEST SURFACE LINES. HELD SAFETY MEETING. SET PACKER. TOP OF PACKER AT 11,408'. GRAVEL PACK PORT AT 11,418'. TOP OF SCREEN AT 11,640'. BOTTOM OF SCREEN AT 11,671'.

REPORT DATE : 7/18/01 MD : 11,833 TVD : 8,822 DAYS : 64 MW : 13.4 VISC : 29

DAILY DETAILS : PRESS TEST TO 5000, SET PACKER. CIRCULATE & SPOT 23 BBLS OF ACID. DISPLACE WITH 5 BBLS OF WATER, REV CIRC OUT ACID. HELD SAFETY MEETING. TEST LINES TO 5000. START DATA FRAC, ONE TURBO UNIT DOWN TRYING TO SQUEEZE 1 BBL/MIN 4950 PSI, REV OUT FRAC FLUID. PUMP INTO FORMATION WITH CALCIUM BROMIDE WATER 2700 PSI 3 BBLS/MIN. STING INTO PACKER, PUMP INTO FORMATION WITH 20 BBLS OF LINEAR GEL WITH . 5 PPG SAND FOLLOWED BY 10 BBLS OF LINEAR GEL & DISPLACED WITH CALCIUM BROMIDE WATER. FORMATION PRESSURED UP TO 5500 PSI WHEN SAND GOT ON PERFORATIONS. ATTEMPT TO CIRC THROUGH SCREEN, COULD NOT CIRC INDICATING SAND PACKED AROUND SCREEN. UNSTING REV CIRC GRAVEL PACK. RIG DOWN TOOLS, MONITOR WELL. CIRCULATE TBG. TRIP OUT WITH TOOLS, LAY DOWN SAME. CUT DRLG LINE.

REPORT DATE : 7/19/01 MD : 11,833 TVD : 8,822 DAYS : 65 MW : 13.4 VISC : 29

DAILY DETAILS : SLIP & CUT DRILL LINE. SERVICE RIG. RU/RD SERVICE TOOLS PERF GUNS. TRIP IN WITH GUNS. SET PACKER PLUG 11398', SPACE OUT, CIRC DOWN BALL, FIRE GUNS FROM 11314' TO 11384'. MONITOR WELL. TRIP OUT. RU/RD SERVICE TOOLS, LAY DOWN GUNS. RU/RD SERVICE TOOLS SCRAPER & RETRIEVING TOOL FOR PACKER PLUG. WRONG XO SUB, WAIT ON SUB. TRIP INTO 11380'.

REPORT DATE : 7/20/01 MD : 11,833 TVD : 8,822 DAYS : 66 MW : 13.4 VISC : 29

DAILY DETAILS : TRIP IN TO 11390'. CIRCULATE, FILTER FLUID, RAN OUT OF FLUID. ADDED ONE MORE POD FILTERING UNIT. CLEANING FILTER UNIT EVERY 40 TO 50 BBLS, VERY DIRTY. CIRCULATE, FILTER FLUID, RAN OUT OF FILTERED FLUID TO PUMP. FILTERING FLUID.

REPORT DATE : 7/21/01 MD : 11,833 TVD : 8,822 DAYS : 67 MW : 13.4 VISC : 29

DAILY DETAILS : CIRCULATE/FILTER FLUID LATCH ONTO PACKER PLUG. REV CIRC. MIX AND PUMP PILL. CIRC & CLEAN FLUID.

REPORT DATE : 7/22/01 MD : 11,833 TVD : 8,822 DAYS : 68 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE TO REV CIRC. TRIP OUT FOR LINER. MAKE UP LINER. TRIP IN WITH LINER TO 11408'. SPACE OUT, STING INTO PACKER, DROP BALL. RIG UP SCHLUMBERGER. HOLD JSA WITH ALL PERSONNEL. PRESSURE TEST LINES TO 5000 PSI. BLEED OFF PRESSURE UP TO 2200 PSI ON TBG. BLEED OFF TO 750 PRESSURE. TEST BACK SIDE TO 1000 PSI, BLEED OFF. SET PACKER. PULL UP TO CIRC. CIRC SALT WATER DOWN ONE TBG VOLUME, CLOSE PACKER. PRESSURE TEST LINES TO 5000 PSI. SHUT ANNULAR, PRESSURE UP BACK SIDE 1000 PSI, PREFORM DATA FRAC. DO BREAK DOWN AND STOP RATE TEST WITH 4% KCL WATER. 6 BPM AT 5500 PSI. PUMP 100 BBL 30PPG GELLED CROSS LINK DATA FRAC. ISIP 2256 WITH CALCIUM BROMIDE WATER AS DISPLACEMENT FLUID.

REPORT DATE : 7/23/01 MD : 11,833 TVD : 8,822 DAYS : 69 MW : 13.4 VISC : 29

DAILY DETAILS : BLEED OFF BACK SIDE. FILTER FLUID, FRAC FLUID BAD. TRANSFER TO MUD TANKS. CLEAN ECI TANK. WAIT ON WATER AND KCL. MIX KCL. FILL TBG WITH SEA WATER, 150 BBLS. HELD SAFETY MEETING. FRAC WELL. PUMPED 70 BBL 30PPG CROSS LINKED GEL PAD FOLLOWED BY 40 BBL 1PPG SAND SLURRY, 19 BBL 3PPG SLURRY, 28 BBL 3PPG SAND SLURRY, 35 BBL 5PPG SAND SLURRY, 91 BBL 6PPG SAND SLURRY, 31 BBL 7PPG SAND SLURRY, 32 BBL 8PPG SAND SLURRY, 50 BBL 9PPG, SAND SLURRY, AND 70 BBL 10 PPG SAND SLURRY. TREATED AT 8 BPM AT 6000 PSI. WELL SCREENED OUT AT 8000 PSI WITH ALL OF 4PPG SAND SLURRY ON IN PERFORATIONS. ESTIMATE 7000 LBS OF SAND IN PERFORATIONS AND 299 BBL TOTAL FLUID PUMPED WHEN SCREEN OUT OCCURRED. BLED WELL TO 5000 PSI. REPRESSURE TO 8000 PSI WITH 1/2 BBL FLUID.
REV CIRC. MONITOR WELL. RIG DOWN SCHLUMBERGER. PULL TWO STANDS, CHANGE OUT BAILS. LAY DOWN PIPE.

REPORT DATE : 7/24/01 MD : 11,833 TVD : 8,822 DAYS : 70 MW : 13.4 VISC : 29

DAILY DETAILS : LAY DOWN 5" PIPE. LOAD BOAT. LAY DOWN 5" PIPE. LAY DOWN TBG. WORK ON TONGS. LAY DOWN TBG & TOOLS. PICK UP PRODUCTION TBG.

REPORT DATE : 7/25/01 MD : 11,833 TVD : 8,822 DAYS : 71 MW : 13.4 VISC : 29

DAILY DETAILS : PICK UP 2 7/8" TBG. TRIP OUT FOR PUMP SLM. PICK UP 15 MORE JOINTS OF TBG. TRIP OUT. RU/RD SERVICE TOOLS. TRIP IN HYDRO TESTING TBG TO 3500 PSI. MAKE UP PUMP.

REPORT DATE : 7/26/01 MD : 11,833 TVD : 8,822 DAYS : 72 MW : 13.4 VISC : 29

DAILY DETAILS : MAKE UP PUMP, ELEC LINE, CHEM LINE, PRUITT CHAMBER, HYDRO TEST. H2-S ALARM, CLEAR FLOOR. WORK ON SPOOLER. TRIP IN WITH PRODUCTION STRING. WORKING RE-ENTRY GUIDE INTO LINER TOP. TRIP IN WITH PRODUCTION. RIG UP TO SPLICE LINE.

REPORT DATE : 7/27/01 MD : 11,833 TVD : 8,822 DAYS : 73 MW : 13.4 VISC : 29

DAILY DETAILS : PICK UP SSSV. START SPLICE. WAIT ON VARIANCE FROM MMS. SPLICE LINE. MAKE UP CHEMICAL LINES. TRIP IN WITH PRODUCTION AND HYDRO TEST TO 3500 PSI. MAKE UP TBG HANGER. PLUG IN MAKE UP CHEMICAL LINES. INSTALL BACK PRESS VALVE. RUN IN AND LAND TBG HANGER. SSSV AT 525'. PRUETT CHAMBER AT 5868'. PUMPS AT 6012' AND 6030' R-NIPPLE AT 10874'. RE-ENTRY GUIDE AT 10970'. NIPPLE DOWN BOPS. NIPPLE UP TREE AND TEST.

REPORT DATE : 7/28/01 MD : 11,833 TVD : 8,822 DAYS : 74 MW : 13.4 VISC : 29

DAILY DETAILS : NIPPLE UP TREE & TEST. RIG DOWN FOR MOVE TO S-44 AT 16:00 HRS 7/27/01. WAITING ON COIL TBG UNIT TO BREAK CERAMIC DISK TO PUT ON PRODUCTION.

REPORT DATE : 8/8/01 MD : 11,833 TVD : 8,822 DAYS : 75 MW : VISC :

DAILY DETAILS : R/U COIL TUBING UNIT ON WELL S-65. TEST COIL TUBING TO 3000 PSI. TEST LUBRICATOR TO 3000 PSI. OPEN WELL AND RIH WITH 1 1/2" COIL TUBING PUMPING 1/2 BPM. BROKE FLAPPER WITH HIP TRIPPER. POOH WITH COIL TUBING.

REPORT DATE : 8/9/01 MD : 11,833 TVD : 8,822 DAYS : 76 MW : _____ VISC : _____

DAILY DETAILS : POOH AND R/D COIL TUBING. R/U WIRELINE. RIH W/ 2.30" RING GAUGE STOPPED AT 534'. POOH. RIH W/ 2.29" RING GAUGE TO 6200'. POOH. CHANGED CRANE HOLDING UP LUBRICATOR. RIH W/ "F" COLLAR STOP AND SET AT 6098'. POOH. R/D WIRELINE. R/U DOWELL. PUMPED 36 BBLS OF SEAWATER DOWN TUBING AT 1/2 BPM. R/D DOWELL. R/U WIRELINE. RIH W/ D&D BRIDGE PLUG AND SET AT 6068'. POOH. RIH W/ 2.313" "X" PLUG AND SET AT 534'. POOH. R/D WIRELINE. R/U DOWELL. PRESSURED UP AGAINST "X" PLUG TO SET"RDH" PACKER. PLUG WOULD NOT HOLD. R/D DOWELL. R/U WIRELINE. RIH AND RETRIEVED "X" PLUG. CHANGED PLUGS. RIH AND SET BLANK PLUG IN "X" NIPPLE AT 534'. POOH. R/D WIRELINE. R/U DOWELL. PRESSURED UP TO 2500 PSI FOR 15 MIN AND SET PACKER. R/D DOWELL. R/U WIRELINE AND RIH AND RETRIEVED BLANK PLUG. R/D WIRELINE. TURNED WELL OVER TO PRODUCTION. 8/9/01FINAL REPORT.

REPORT DATE : 8/10/01 MD : 11,833 TVD : 8,822 DAYS : 77 MW : _____ VISC : _____

DAILY DETAILS : WELL WENT ON VACUUM, DECISION WAS MADE TO SET ANOTHER PLUG ON BOTTOM. HELD SAFETY MEETING. R/U AND TEST LUBRICATOR. RIH WITH EQUALIZING PRONG TO D&D PLUG. EQUALIZED PRESSURE ACROSS BRIDGE PLUG. POOH. RIH WITH RETRIVING TOOL. LATCHED D&D PLUG. POOH VERY TIGHT. PLUG STOPPED 20' ABOVE SCSSV AT 495'. JARRING ON PLUG.

REPORT DATE : 8/11/01 MD : 11,833 TVD : 8,822 DAYS : 78 MW : _____ VISC : _____

DAILY DETAILS : CONTINUE JARRING ON FISH AT 495'. PULLED LOOSE. POOH. FISHING TOOL PARTED. WAIT ON FISHING TOOLS. RIH WITH GUTTED "JDC" AND LATCHED FISH. PULLED AND RECOVERED FIRST FISHING TOOL. PLUG STILL IN HOLE. RIH W/ IMPRESSION BLOCK. POOH. RIH W/ EQUALIZING PRONG. JARRED, DID NOT PULL PLUG. POOH. RIH W/ LONGER EQUALIZING PRONG. EQUALIZED PRESSURE. POOH W/ D&D PLUG. RIH W/ 2.29" GAUGE RING TO 6098'. POOH. RIH AND SET "W" CIRCULATING PLUG AT 6087'. POOH. RIH AND SET "X" PLUG AT 534'. POOH. PRESSURED UP ON RDH PACKER TO SET. RIH W/ RETRIEVING TOOL AND RETRIEVED "X" PLUG. TURN OVER TO PRODUCTION, 06:00, 8/11/01. NOTE: REVISED.

Gilda S-65

Current Schematic

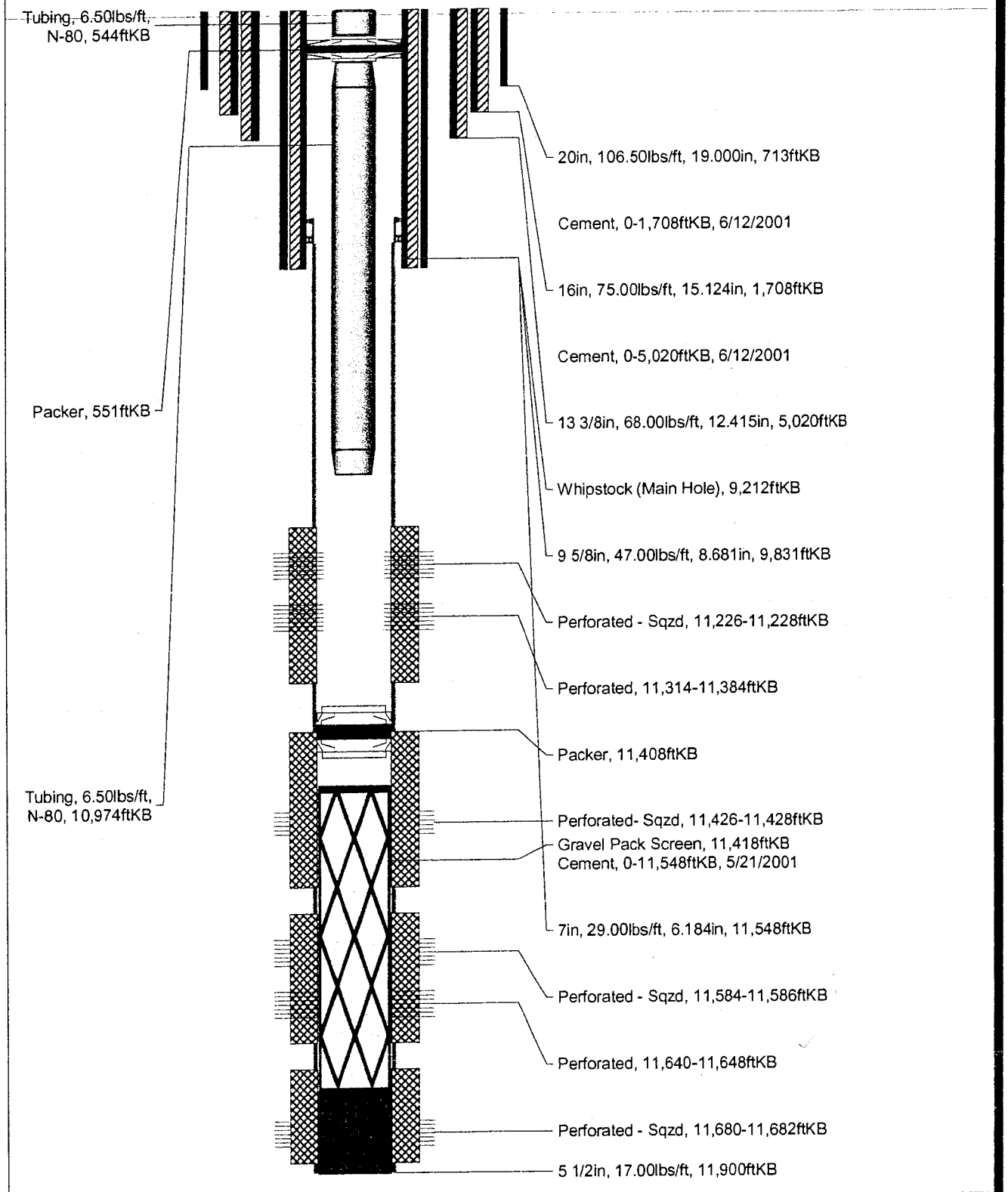
API	Field Name	Operator	State	Lease
0431120616	Santa Clara	Nuevo Energy	California	OCS P-0216

Comment

Total Depth (ftKB): 11,833.0

ST 01: 7/28/2001

Schematic - Actual



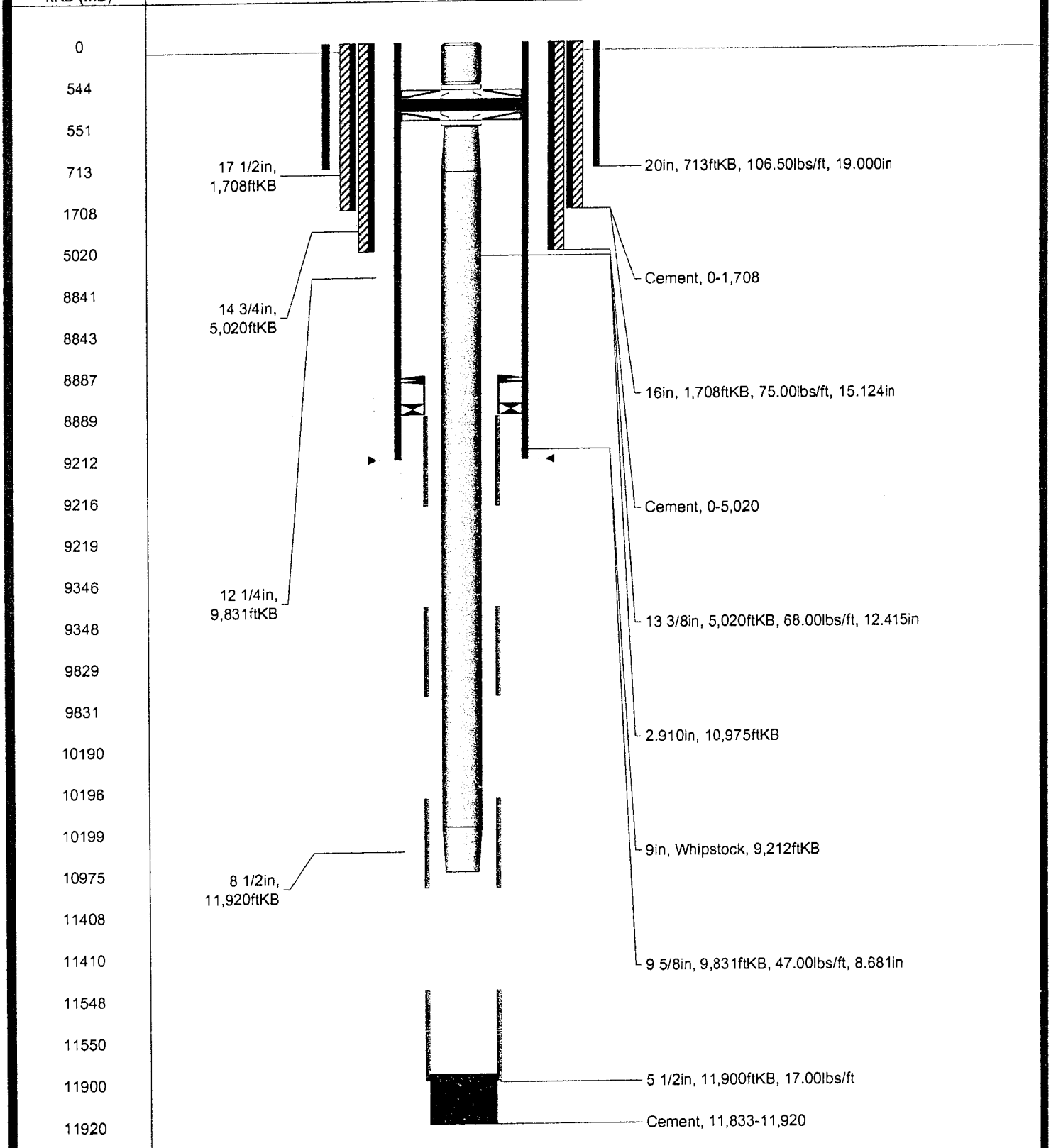
Gilda S-65

Current Schematic

API/UWI	Field Name	Area	Operator	County	State/Province
0431120616	Santa Clara	6B	Nuevo Energy	Federal Waters	California

KB Elevation (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Spud Date
107.00					5/12/01

ST 01: 8/10/01



MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

PUBLIC INFORMATION

OMB No. 1010-0046
Expiration Date: September 30, 2002

1. 1ST COMP. / RECOMPLETION / ABANDONMENT / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-20616-01/S01	S-65 ST 1	Nuevo Energy 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01546

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1039943 Y=754306 6309 North & 1754 West of surface	P-0216	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=1039973 Y=754109 X=1040001 Y=753923	P-0216	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
Com/Pow	08/11/01		5/12/01

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
5/25/2002	8/11/01	MD 11,833' TVD 8,822'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
11,640'	11,648		
11,314'	11,384'		

RECEIVED
OCT 28 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	Lower Repetto

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
30"	20"	106#	Gr B	713'	Class G W/additives	826'
20"	16"	75#	X-52	1708'	Class G W/additives	
18"	13 3/8"	68#	K-55	5020'	Class G W/additives	1664
14"	9 5/8"	47#	N-80	9831'	Class G W/additives	1877
9"	7"	29#	S-95	11,548'	Class G W/additives	

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
	2 7/8"	6.5#	N-80	10974	544'

FORM MMS -125 (September 1999) (Replaces all previous editions of Form MMS-125, which will not be used)

WELL SUMMARY REPORT (continued)

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
8 5/8"	5.5"	17#	S-95	8,900'	11,900'	Class G W/add.	758 Ft^3
9"	7"	29"	S-95	9332'	11,548'	Class G W/add.	

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
11,664'	11,818'	Cement	75 SX
11,564'	11,664'	Cement	125 SX
11,406'	11,564'	Cement	20 Bbls
11,206'	11,406'	Cement	41 Bbls
11,640'	11,671'	Acid	23 Bbls
11,314'	11,384'	Fracture	7000# sand, 299 Bbls Gel

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

Dipole Shear Sonic P&S & dipole modes 5", EMS six arm caliper 5", Inclinometer survey W/caliper 2", Ultrasonic imager-Cement Bond VDL Ultrasonic imager-Gamma ray/CCL, Plug Setting Pass Correlation/CCL, Platform Express Density-Neutron 5", Platform Express Array Indu sonic imager-cement/casing evaluation-Gamma ray/CCL, Cement Bod Log-Gamma Ray Correlation (ON TLC), Combinable Magnetic Resc Ultrasonic imager-LQC.

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
Lower Repetto	10697		11,833'		

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
LP-K	10,697'				
LP-L	11,092'				
LP-M	11,240'				
LP-N	11,606'				

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Richard F. Garcia	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
Richard F. Garcia	10/24/2002

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

RE-COMPLETION SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-65

REPORT DATE : 5/12/01 MD : _____ TVD : _____ DAYS : 0 MW : _____ VISC : _____

DAILY DETAILS : STARTED RIG TIME ON WELL S-65 ST-01 AT 08:00 5/11/01. WHILE PREPARING RIG TO SKID, INSTALLED NEW TIE-DOWN BOLTS ON DRAWWORKS, ALIGNED AUXILIARY BRAKE TO DRAWWORKS. RIGGED DOWN TOP DRIVE ELECTRICAL LINES, CLEARED SKID AREA ON DRILL DECK, REMOVED FLOW LINE. REMOVED DRAWWORKS COVERS AND PUT SEALANT BETWEEN COVER TO STOP LEAKS.

REPORT DATE : 5/13/01 MD : _____ TVD : _____ DAYS : _____ MW : _____ VISC : _____

DAILY DETAILS : MOVED TOP DRIVE LINES FROM SOUTH SIDE OF DERRICK TO NORTH SIDE. INSTALLED LARGER TIE-DOWN BOLTS ON AUXILIARY BRAKE. PULLED ELECTRICAL LINE UP. SKID RIG.

REPORT DATE : 5/14/01 MD : _____ TVD : _____ DAYS : _____ MW : _____ VISC : _____

DAILY DETAILS : SKID RIG AND PIPE RACK FROM S-44 TO S-65. CENTERED BOTTOM SECTION. (NORTH AND SOUTH). PREPPING TOP SECTION TO SKID AND CENTER OVER WELL. (EAST AND WEST).

REPORT DATE : 5/15/01 MD : _____ TVD : _____ DAYS : _____ MW : 12.6 VISC : 44

DAILY DETAILS : CENTERED TOP SECTION OVER WELL. RAN ELECTRICAL LINE. INSTALL "V" DOOR, AND FLOW LINE. P/U 2 7/8" TUBING AND SCREWED INTO TREE. PUMPED DOWN TUBING WITH 13.2 PPG MUD. INITIAL 1.2 BPM WITH 2300 PSI. FINAL 2.1 BPM WITH 2350 PSI. STOP PUMP-PRESSURE BLED BACK TO 1500 PSI. BLED PRESSURE OFF. NO FLOW. MONITOR WELL FOR FLOW.

REPORT DATE : 5/16/01 MD : _____ TVD : _____ DAYS : _____ MW : 12.6 VISC : 44

DAILY DETAILS : CONTINUE MONITORING WELL FOR FLOW. NIPPLE DOWN TREE. PLUGGED SUBSURFACE LINES. NIPPLE UP BOPE. CHANGED PIPE RAMS TO 2 7/8". MAKE UP TEST TOOLS. DOWELL'S PRESSURE RECORDER FAILED. REPLACED SAME. TESTING AT 06:00.

REPORT DATE : 5/17/01 MD : 0 TVD : 0 DAYS : _____ MW : 13.2 VISC : 47

DAILY DETAILS : TEST ALL RAMS AND VALVES TO 250/5000 PSI. ANNULAR PREVENTER TO 250/3500 PSI. PULL TEST PLUG. BACK TUBING HANGER, TIE-DOWN BOLTS OUT. UNSEAT TUBING HANGER AND PICKED UP APP. 10'-12' WITH ANNULAR PREVENTER CLOSED AROUND TUBING. STARTED PUMP AND PRESSURED UP TO 1000 PSI. STOPPED PUMP, PRESSURE AT 800 PSI. PULLED UP TO GET OUT OF PACKER. PRESSURE DROPPED IN TUBING ASSISTING TUBING OUT OF HOLE. TUBING WENT ON VACUUM WITH OIL RETURN TO SURFACE AND ROUTED TO PRODUCTION. LAID PUP JTS DOWN. BROKE CIRCULATION. CIRCULATED 13.2 PPG AROUND FROM 10200' AT 2.5 BPM. STOP PUMPING WITH 172 BBLS TO GO. SHORE BASE (MANDALAY) UNABLE TO RECEIVE ADDITIONAL FLUID. BUILD VOLUME WHILE WAITING TO PUMP ADDITIONAL RETURNS TO PRODUCTION. CONTINUE PUMPING AT 2.5 BPM RETURNS GOING TO PRODUCTION.

REPORT DATE : 5/18/01 MD : 10,196 TVD : 0 DAYS : 3 MW : 13.2 VISC : 44

DAILY DETAILS : CONTINUE DISPLACING WELL WITH 13.2 PPG MUD. BUILD MUD VOLUME. POOH. L/D TUBING HANGER AND BPV. POOH SPOOLING CONTROL LINES TO INJECTION MANDREL, SSSV, AND PRESSURE VALVE. POOH L/D 2 7/8" TUBING.

REPORT DATE : 5/19/01 MD : 10,196 TVD : 0 DAYS : 4 MW : 13.2 VISC : 47

DAILY DETAILS : CONTINUE TO POOH L/D TUBING. DRUG TEST ONCOMING AND OFFGOING CREW. ALL PASSED. POOH L/D TUBING, PRUETT PRESSURE MANDREL, SEAL ASSEMBLY. INSTALLED TEST PLUG. CHANGED BOTTOM RAMS TO 5" RAMS. TEST RAM TO 250 / 5000 PSI. GOOD. PULLED TEST PLUG AND INSTALLED WEAR BUSHING. P/U 8 1/2" BIT AND 9 5/8" CASING SCRAPER AND RIH. BROKE CIRC AT 3590'. RIH TO 7165'. P/U 70 JTS. TAGGED TOP OF LINER AT 9332'. CIRCULATED BOTTOMS UP AND CONDITIONED MUD AT 9332'.

REPORT DATE : 5/20/01 MD : 10,196 TVD : 0 DAYS : 5 MW : 13.2 VISC : 49

DAILY DETAILS : CIRCULATE AND CONDITION MUD AT 9332', TOP OF LINER. POOH WITH 9 5/8" CASING SCRAPER. L/D SAME. M/U AND RIH WITH 7" CASING SCRAPER TO 10196'. CIRCULATE BOTTOMS UP AND PUMP SLUG. POOH WITH 7" CASING SCRAPER TO 3500'. SLIP AND CUT 150' OF DRILL LINE. CONTINUE POOH. L/D CASING SCRAPER. M/U AND RIH WITH 7" 29# HYDRAULIC-SET PERMANENT BRIDGE PLUG ON 3 1/2" DP.

REPORT DATE : 5/21/01 MD : 9,950 TVD : 0 DAYS : 6 MW : 12.9 VISC : 49

DAILY DETAILS : CONTINUE RIH WITH PERMANENT BRIDGE PLUG. TAGGED FB-1 PACKER AT 10,196'. PICKED UP 6'. DROPPED BALL. SET BRIDGE PLUG AT 10,190'. RELEASED FROM BRIDGE PLUG AND SET 15K DOWN. PICKED UP 3'. R/U DOWELL AND TEST SURFACE LINE TO 3000 PSI. PUMP 10 BBLS OF CLASS "G" WITH ADDITIVES. DISPLACE WITH 164 BBLS OF MUD. CIP 12:20 5/20/01. APPOX TOP OF CEMENT AT 9950'. REVERSE CIRCULATED 2 DRILL PIPE VOLUMES. POOH AND L/D SETTING TOOL. RIGGED UP SCHLUMBERGER WIRELINE AND LUBRICATOR. RIH WITH USIT TOOL. TAGGED TOP OF LINER AT 9335' (WIRELINE MEASUREMENT). LOGGING USIT FROM 9335'.

REPORT DATE : 5/22/01 MD : 9,216 TVD : _____ DAYS : 7 MW : 13.2 VISC : 48

DAILY DETAILS : CONTINUE RUNNING USIT LOG TO SURFACE. RAN AND SET 9 5/8" BRIDGE PLUG AT 9211', WIRELINE MEASUREMENT. RIH AND POOH, LAYING DOWN 3 1/2" DRILL PIPE. P/U 30 JTS OF 5" HWDP. MEASURED AND DRIFTED. RIH. SLM TAGGED BRIDGE PLUG AT 9216', DRILL PIPE MEASUREMENT. NEW PLUG BACK DEPTH. DROPPED RABBIT AND PUMP SLUG. POOH 20 STANDS. P/U 34 JOINT 5" DRILL PIPE. POOH TO RUN WHIPSTOCK.

REPORT DATE : 5/23/01 MD : 9,216 TVD : _____ DAYS : 8 MW : 13.2 VISC : 49

DAILY DETAILS : TRIP OUT WITH BHA. PICK UP WINDOW MILLING TOOLS. TRIP IN WITH WHIPSTOCK. RIG UP GYRO. RUN IN WITH GYRO, ORIENT WHIPSTOCK. CIRCULATE WHIPSTOCK COULD BE PARTIALLY SET. ORIENT WHIPSTOCK. TRY TO SET WHIPSTOCK, NEG 9166'. SET DOWN ON WHIPSTOCK DID NOT SEE PIN SHEAR. PULL WHIPSTOCK BACK UP, CAME FREE. TRIP OUT WITH WHIPSTOCK.

REPORT DATE : 5/24/01 MD : 9,206 TVD : _____ DAYS : 9 MW : 13.2 VISC : 50

DAILY DETAILS : TRIP OUT 40 TO 50K DRAG. WAIT ON FISHING TOOLS. MAKE UP FISHING TOOLS. RUN IN TAG FISH AT 127' DOWN FIRST TRY WITH BOX & TAP OVERSHOT NEG CHANGE TO A REG OVERSHOT, TAG FISH, PULL OUT AND LAY DOWN SAME. MAKE UP BIT & SCRAPER, TRIP IN. CIRCULATE, NO FILL, TD 9206'. WIPER TRIP/SHORT TRIP. CIRCULATE FOR WHIPSTOCK. TRIP OUT. MAKE UP TOOLS & WHIPSTOCK. TRIP IN WITH WHIPSTOCK.

REPORT DATE : 5/25/01 MD : 9,212 TVD : _____ DAYS : 10 MW : 13.3 VISC : 55

DAILY DETAILS : TRIP IN WITH WHIPSTOCK. RIG UP GYRO, ORIENT WHIPSTOCK. SET WHIPSTOCK 299 AZ 44 DEG LEFT TO HIGH SIDE. MILL WINDOW, TOP 9181', BOTTOM 9197'. MILL TO 9212'. CIRCULATE BOTTOMS UP.

REPORT DATE : 5/26/01 MD : 9,212 TVD : 7,329 DAYS : 11 MW : 13.2 VISC : 55

DAILY DETAILS : CIRC & COND MUD, FIT TEST 650 PSI 15# EQUIV. TRIP OUT, LAY DOWN MILLING ASSEMBLY. CLEAN MUD TANKS. MIX MUD . MAKE UP BHA. PICK UP HWDP JARS & DRILL PIPE. TRIP IN WT UP MUD.

REPORT DATE : 5/27/01 MD : 9,452 TVD : 7,530 DAYS : 12 MW : 13.3 VISC : 55

DAILY DETAILS : TRIP IN TO 9212'. WT UP MUD TO 13.2. CIRCULATE, CHANGE WELL OVER. MIX SURFACE VOL, PREHYDRATE GEL, WT UP TO 13.2. DRILL, ROTATE SLIDE FROM 9212' TO 9452'.

REPORT DATE : 5/28/01 MD : 10,095 TVD : 7,750 DAYS : 13 MW : 13.2 VISC : 54

DAILY DETAILS : DRILL ROTATE & SLIDE FROM 9452' TO 9545'. CIRCULATE FOR TRIP. WIPER TRIP/SHORT TRIP, TIGHT GETTING THRU SHOE. DRILL ROTATE & SLIDE FROM 9545' TO 9828'. CIRCULATE FOR TRIP. WIPER TRIP/SHORT TRIP TO SHOE, CAME THRU SHOE OK. SERVICE RIG AND TOP DRIVE. TRIP IN. DRILL ROTATE & SLIDE FROM 9828' TO 10095'.

REPORT DATE : 5/29/01 MD : 10,832 TVD : 8,066 DAYS : 14 MW : 13.2 VISC : 57

DAILY DETAILS : DRILL ROTATE & SLIDE FROM 10092' TO 10298'. CIRCULATE FOR WIPER WIPER TRIP/SHORT TRIP BACK REAM F/ 10015' TO 9921'. DRILL ROTATE & SLIDE 10298' TO 10578'. WIPER TRIP/SHORT TRIP. DRILL ROTATE & SLIDE 10578' TO 10832'.

REPORT DATE : 5/30/01 MD : 10,965 TVD : 8,078 DAYS : 15 MW : 13.2 VISC : 60

DAILY DETAILS : DRILL ROTATE SLIDE F 10832' TO 10896'. CIRCULATE. WIPER TRIP/SHORT TRIP TO SHOE. SERVICE RIG & TOP DRIVE. WIPER TRIP/SHORT TRIP IN. DRILL ROTATE & SLIDE F/ 10896' TO 10965'. CIRCULATE FOR TRIP. TRIP FOR BIT. PULL WEAR BUSHING. RIG UP DOWELL. TEST BOP 250 LOW TO 5000 HIGH. RIG DOWN DOWELL. INSTALL WEAR BUSHING. TRIP IN BHA.

REPORT DATE : 5/31/01 MD : 11,220 TVD : _____ DAYS : 16 MW : 13.2 VISC : 50

DAILY DETAILS : SLIP & CUT DRILL LINE. TRIP IN TO 10674'. WASH/REAM F/ 10674' TO 10965', NO FILL. DRILL ROTATE & SLIDE F/ 10965' TO 11149'. WIPER TRIP/SHORT TRIP. DRILL ROTATE & SLIDE F/ 11149' TO 11220'.

REPORT DATE : 6/1/01 MD : 11,395 TVD : 8,345 DAYS : 17 MW : 13.2 VISC : 65

DAILY DETAILS : DRIL ROTATE F 11220' T 11301' CIRC FOR TRIP WIPER TRIP/SHORT TRIP 11220' T 10720' REPLACE SUB ON TOPDRIVE TAG BOTTOM NO FILL LOST LAND POWER RUNING ON BACK UP POWER TRIP OUT TO SHOE 9200' TRIP IN DRLG ROTATE F 11301' T 11395' CIRC MIX PILL & PUMP

REPORT DATE : 6/2/01 MD : 11,395 TVD : 8,345 DAYS : 18 MW : 13.2 VISC : 62

DAILY DETAILS : TRIP OUT ALL THREE CONES GONE, TIME ON BIT 33.5 HRS & 430'. LAY DOWN MOTOR, MAKE UP BIT, TRIP IN TO 11245'. CIRC TO BOTTOM (11,395'), NO FILL. ROTATE TAG CONES, WORK BIT, MIX PILL & PUMP. TRIP OUT FOR REVERSE CIRCLATING SUB. MAKE UP REVERSE CIRCLATING SUB, TRIP IN. BREAK CIRC, DROP BALL, WORK REVERSE CIRCULATING SUB.

REPORT DATE : 6/3/01 MD : 11,395 TVD : 8,345 DAYS : 19 MW : 13.2 VISC : 62

DAILY DETAILS : CIRC, TAG BOTTOM, WORK REV CIRC TOOL. TRIP OUT, BREAK DOWN TOOLS NO CONES REDRESS SERVICE RIG. MAKE UP REV TOOLS. TRIP IN. CIRC, TAG BOTTOM, WORK REV CIRC TOOL. TRIP OUT, BREAK DOWN TOOLS, NO CONES. LAY DOWN TOOLS, MAKE UP DRILLING ASSEMBLY BHA, LEAVE OUT MOTOR. TRIP IN.

REPORT DATE : 6/4/01 MD : 11,422 TVD : 8,345 DAYS : 20 MW : 13.2 VISC : 61

DAILY DETAILS : TRIP IN WITH BIT AND DRILLING ASSEMBLY. WORK PASSED JUNK. DRLG F/ 11395' TO 11412', TOP DRIVE DOWN. EQUIPMENT FAILURE, WORK ON TOP DRIVE, CIRC WORK PIPE. DRILL ROTATE TRY TO WORK PASSED JUNK, HOLE MADE F/ 11412' TO 11422', TOP DRIVE DOWN. HOLE CONDITIONS & EQUIPMENT FAILURE, CIRC, MIX AND PUMP PILL. TRIP OUT. WORK ON TOP DRIVE CHANGE OUT ELECTRICAL CORDS. MAKE UP JUNK BASKET, LOAD MWD AND TEST, TRIP IN BHA. SLIP & CUT DRLG LINE. TRIP IN TO SHOE, FILL PIPE, WORK TOP DRIVE. DRILL PIPE PLUGGED. TRIP OUT.

REPORT DATE : 6/5/01 MD : 11,422 TVD : _____ DAYS : 21 MW : 13.2 VISC : 68

DAILY DETAILS : TRIP OUT FOR PLUGGED PIPE. TOP OF MONEL PLUGGED & FLOAT SUB. CHECK ALL TOOLS. TRIP IN ONE JOINT OF HWDP. PLUGGED. CHANGED OUT TRIP IN 20 STANDS. FOUND CEMENT BUILT UP IN TOOL JOINTS. TRIP OUT CLEANING OUT TOOL JOINTS. LAY DOWN MWD & FLOAT SUB. PULL JETS OUT OF BIT. TRIP IN CLEANING TOOL JOINTS. CIRC AT SHOE. TRIP IN TO 11250'. CIRC. GET UP & DOWN WT & TORQUE TRIP IN. FILL PIPE CLEAN 10' TO BOTTOM. LITTLE TORQUE OFF BOTTOM. DRLG AHEAD FROM 11422' TO 11534'.

REPORT DATE : 6/6/01 MD : 11,649 TVD : _____ DAYS : 22 MW : 13.2 VISC : 52

DAILY DETAILS : DRILL FROM 11534' TO 11538'. CIRCULATED. POOH TO CHECK BIT. BIT HAD LOCKED UP. CLEANED JUNK BASKET. VERY LITTLE JUNK IN BASKET. R.I.H. WITH BIT AND JUNK BASKET TO 2000'. SERVICE RIG AND TOP DRIVE. POOH. CHANGED BIT TO A SHORTER TOOTH BIT. RIH TO 11538'. TAGGED BOTTOM AND WORKED JUNK BASKET. DRILL FROM 11538' TO 11649'. NO TORQUE. NO DRAG. WORKED JUNK BASKET AFTER 30' AND ON CONNECTION.

REPORT DATE : 6/7/01 MD : 11,850 TVD : _____ DAYS : 23 MW : 13.2 VISC : 59

DAILY DETAILS : DRILL FROM 11,649' TO 11,722'. CIRCULATED BOTTOMS UP FOR LOGGERS. MADED UP AND DROPPED SINGLE SHOT SURVEY. POOH. CLEANED OUT JUNK BASKET. VERY LITTLE JUNK. MADE UP BIT AND JUNK BASKET. SERVICE RIG AND TOP DRIVE. RIH TO 11,722'. WORKED JUNK BASKET. DRILL FROM 11,722' TO 11,850'. WORKING JUNK BASKET ON CONNECTIONS.

REPORT DATE : 6/8/01 MD : 11,920 TVD : 8,822 DAYS : 24 MW : 13.2 VISC : 49

DAILY DETAILS : DRILL FROM 11,850' TO 11,920'. TD AT 15:00, 6/7/01. CIRCULATED BOTTOMS UP FOR LOGGERS. WIPED HOLE TO SHOE. TIGHT FROM 11,660' TO 11,650'. P/U TOP DRIVE AND UP REAMED OUT. WORKED PIPE THROUGH OKAY. CIRCULATED AND CONDITION MUD FOR LOGS. DROPPED SURVEY AND PUMPED DOWN. POOH FOR LOGS. TIGHT FROM 11,815' TO 11,810'. UP REAMED THROUGH OKAY. RETRIEVE SURVEY BARREL. SURVEY NO GOOD. L/D MONEL COLLARS. RIGGED UP SCHLUMBERGER.

REPORT DATE : 6/9/01 MD : 11,920 TVD : 8,822 DAYS : 25 MW : 13.2 VISC : 46

DAILY DETAILS : RIH WITH PLATFORM EXPRESS-CMR ON 5" DRILL PIPE TO 9159'. R/U SCHLUMBERGER. CIRC. M/U SIDE ENTRY SUB AND RIH WITH WIRELINE. ATTEMPT TO LATCH WIRELINE TO PLATFORM EXPRESS. NO GOOD. POOH WITH WIRELINE. R/U AND REVERSE CIRCULATED 1 1/2 DRILL PIPE VOLUME. M/U SIDE ENTRY SUB AND RIH WITH WIRELINE. ATTEMP TO LATCH PLATFORM EXPRESS. NO GOOD. POOH WITH WIRELINE. POOH WITH 5" D.P. INSPECT TOOL. MALE PRONG ON LOGGING TOOL BENT. CHANGED OUT TOOL. RIH WITH PLATFORM EXPRESS-CMR ON 5" DRILL PIPE TO 9159'.

REPORT DATE : 6/10/01 MD : 11,920 TVD : 8,822 DAYS : 26 MW : 13.2 VISC : 54

DAILY DETAILS : CONTINUE RIH WITH PLATFORM EXPRESS-CMR ON 5" D.P. TO 9159'. M/U SIDE ENTRY AND RIH WITH WIRELINE. LATCH WET CONNECT. GOOD. LOGGED DOWN FROM 9183' TO 11,897'. LOGGED PLATFORM EXPRESS-CMR UP FROM 11,897' TO 9183'. L/D SIDE ENTRY SUB AND POOH WITH WIRELINE. POOH WITH LOGGING TOOL ON 5" DP. R/D SCHLUMBERGER. SERVICED RIG AND CHANGED SWIVEL PACKING.

REPORT DATE : 6/11/01 MD : 11,920 TVD : 8,822 DAYS : 27 MW : 13.2 VISC : 58

DAILY DETAILS : CONTINUE CHANGING WASHPIPE IN SWIVEL. P/U BIT AND STAB. RIH WITH HWDP. SLIP AND CUT DRILL LINE. RIH TO 11920'. NO FILL. CIRCULATED AND CONDITION MUD AT 11920'. POOH. PUMP AND ROTATED OUT FROM 11822' TO 11640'. M/U DSI-EMS-GPIT ON 5" DRILL PIPE. RIH WITH LOGGING TOOL ON 5" DP TO 9159'.

REPORT DATE : 6/12/01 MD : 11,920 TVD : _____ DAYS : 28 MW : 13.2 VISC : 56

DAILY DETAILS : R/U SCHLUMBERGER SIDE ENTRY SUB AND RIH WITH WIRELINE. ATTEMPT TO LATCH WET CONNECT. NO GOOD. POOH W/ WIRELINE. R/D SCHLUMBERGER. POOH WITH DRILL PIPE AND LOGGING TOOL. MALE PRONG ON LOGGING TOOL BENT. CHANGED OUT. RIH TO 9159'. R/U SIDE ENTRY SUB AND RIH WITH WIRELINE. LATCHED ONTO LOGGING TOOL. LOGGED DOWN AND UP WITH DSI-EMS-GPIT FROM 9181' TO 11903' TO 9181'. POOH WITH WIRELINE. L/D SIDE ENTRY SUB. R/D SCHLUMBERGER. R/U TO L/D 5" DRILL PIPE. NOTE: LOGGING TOOL SHOWED BOTTOM HOLE LOCATION AT AZIMUTH 349.34 DEG, DEVIATION 39.2 DEG, AT 11, 903.

REPORT DATE : 6/13/01 MD : 11,920 TVD : 8,822 DAYS : 29 MW : 13.2 VISC : 57

DAILY DETAILS : L/D 6,311' OF 5" DRILL PIPE TO BE RABBITED. POOH AND L/D LOGGING TOOL. PULLED WEAR BUSHING AND INSTALLED TEST PLUG. CHANGED TOP PIPE RAMS FROM 2-7/8" X 5" TO 5". CHANGED BOTTOM PIPE RAMS TO 2 7/8" X 5". TEST ALL RAMS AND VALVES TO 250 / 5000 PSI. ANNULAR PREVENTER TO 250/3500 PSI.

REPORT DATE : 6/14/01 MD : 11,920 TVD : 8,822 DAYS : 30 MW : 13.2 VISC : 64

DAILY DETAILS : CONTINUE TESTING ALL RAMS AND VALVES TO 250 / 5000 PSI. PULLED TEST PLUG AND INSTALLED WEAR BUSHING. RIH WITH BIT AND BHA. RAN 27 STANDS FROM DERRICK. P/U 8059' OF 5" DRILL PIPE. CIRCULATED AND CONDITION MUD. WIPED HOLE TO SHOE. CIRCULATED AND CONDITION MUD TO RUN LINER. DROPPED RABBIT. POOH TO RUN CASING.

REPORT DATE : 6/15/01 MD : 11,920 TVD : _____ DAYS : 31 MW : 13.2 VISC : 64

DAILY DETAILS : CONTINUE POOH TO RUN LINER. STOPPED DRILLING TIME AT 08:00 6/14/01. FINAL REPORT.

REPORT DATE : 6/15/01 MD : 11,920 TVD : 8,825 DAYS : 31 MW : 13.2 VISC : 52

DAILY DETAILS : RIG UP CASING CREW. PICK UP 65 JOINTS OF 5-1/2", 17#, S-95, LTC LINER. MAKE UP BAKER LINER HANGER AND RUNING TOOL. RIH WITH 5-1/2" LINER ON 5" DP TO 9181'. FILLING PIPE WHILE RUNNING IN. CIRCULATED AT SHOE. TRIP IN WITH LINER TAG BOTTOM PICK UP 5'. CIRCULATE LINER. DROP BALL, SET LINER. RELEASED FROM LINER. R/U DOWELL LINES AND SURFACE TEST TO 5000 PSI. DOWELL PRESSURED UP TO 4400 PSI. BALL DID NOT SHEAR. BLED OFF. PRESSURED UP TO 5000 PSI THREE TIMES. BALL DID NOT SHEAR. PRESSURED UP TO 5500 PSI. BALL DID NOT SHEAR. BLED PRESSURE OFF. CONTINUE PRESSURING UP AND BLEEDING OFF TO 5500 PSI NUMEROUS TIMES. TRIED ONE TIME TO 6000 PSI.

REPORT DATE : 6/16/01 MD : 11,920 TVD : 8,822 DAYS : 32 MW : 13.2 VISC : 58

DAILY DETAILS : DISCUSSED SITUATION WITH ENGINEER AND MANAGER. SERVICE RIG AND ADJUSTED CLUTCH. POOH LINER SLOW. STOOD TOP DRIVE HEAD IN DERRICK. MIX AND PUMP SLUG. POOH AND L/D LINER RUNNING TOOL. MEASURED AND P/U 81 JOINTS OF 2-7/8" TUBING. POOH WITH TUBING. P/U 21 JOINTS OF 3-1/8" DRILL COLLARS. RIH WITH 4-3/4" BIT AND 2-7/8" TUBING ON 5" DRILL PIPE.

REPORT DATE : 6/17/01 MD : 11,920 TVD : 8,822 DAYS : 33 MW : 13.2 VISC : 59

DAILY DETAILS : DRILL WIPER PLUG AND LANDING COLLAR AT 11,813'. DRILL ON JUNK ON TOP OF FLOAT COLLAR AT 11,861'. PUMP HI-VIS SWEEPS. PUMPED TWO HI-VIS SWEEPS BACK TO BACK. CIRCULATED BOTTOMS UP. POOH 85 STANDS. SLIP AND CUT DRILL LINE. L/D 27 JOINTS OF 5" DRILL PIPE TO BE RATTLED. CHANGED HANDLING TOOLS AND POOH WITH 2-7/8" TUBING. L/D 21 JOINTS OF 3-1/8" DRILL COLLARS. WOULD NOT RACK IN DERRICK SAFELY. P/U BAKER SEAL ASSEMBLY AND PICKING UP 5" DRILL PIPE.

REPORT DATE : 6/18/01 MD : 11,920 TVD : 8,822 DAYS : 34 MW : 13.2 VISC : 55

DAILY DETAILS : CONTINUE PICKING UP 5" DRILL PIPE. RIH SLOW. CIRC AT TOP OF LINER (8887'). STABBED INTO LINER WITH SEAL ASSEMBLY AND LOCATED LINER TOP WITH LOCATOR. INITIAL PRESSURE TO BREAK CIRCULATION. 2800 PSI AT 1 BPM. SLOWLY INCREASED PUMP ONCE MUD STARTED MOVING-4.5 BPM UNTIL OPEN HOLE VOLUME WAS INSIDE 9-5/8". INCREASED PUMP TO 6 BPM UNTIL BOTTOMS UP. INCREASED TO 7.5 BPM FOR 30 MIN AT 1300 PSI. R/U DOWELL LINES AND TEST TO 4500 PSI. HELD SAFETY MEETING. PUMP 20 BBLS OF CW100, 30 BBLS OF MUD PUSH XT, FOLLOWED BY 758 SACKS OF CLASS "G" PLUS ADDITIVES. DISPLACED WITH 197 BBLS OF MUD. DID NOT SEE DART LATCH WIPER PLUG. DID NOT BUMP PLUG. FLOATS NOT HOLDING 100%. C.I.P. AT 17:55 6/17/01. SET LINER PACKER. PULLED OUT OF LINER. PULLED 10 STANDS. REVERSE CIRCULATED 2 DRILL PIPE VOLUMES. 23 BBLS OF CEMENT TO SURFACE. POOH WITH SEAL ASSEMBLY AND L/D SAME. P/U 8 1/2" BIT AND BHA. RIH. TAGGED TOP OF LINER AT 8887'. CIRCULATING BOTTOM UP.

REPORT DATE : 6/19/01 MD : 11,920 TVD : 8,822 DAYS : 35 MW : 13.2 VISC : 54

DAILY DETAILS : CIRCULATE. PERFORM CIT TEST 1335# WITH 13.2 MUD EMW 16.7. TRIP OUT 94 STANDS. LD/PU DRILL PIPE & BHA. SERVICE RIG. MAKE UP WSO TOOLS. TRIP IN FILL PIPE WITH SEA WATER EVERY 10 STANDS 47 - STANDS 4478'. SET PACKER AT 8841', TEST LINER TOP. PULL PACKER FREE TRIP OUT.

REPORT DATE : 6/20/01 MD : 11,920 TVD : 8,822 DAYS : 36 MW : 13.2 VISC : 46

DAILY DETAILS : TRIP OUT, LAY DOWN TEST TOOLS. MAKE UP MOTOR & MILL, TRIP IN, TAG CEMENT AT 11154'. DRILL CEMENT/FROM 11154' TO 11271'. TRIP OUT. CIRCULATE, DROP BALL, SHIFT SLEVE PUMP PILL. TRIP OUT. REPAIR HYD UNIT. TRIP OUT.

REPORT DATE : 6/21/01 MD : 11,920 TVD : 8,822 DAYS : 37 MW : 13.2 VISC : 59

DAILY DETAILS : TRIP OUT FOR BHA, LAY DOWN MOTOR. SERVICE RIG. PU/LD BHA & TOOLS, BIT & 3 1/8" DC. TRIP IN TO DRLG CEMENT. DRILL CEMENT FROM 11271' TO 11818'. CIRCULATE BOTTOMS UP. TRIP OUT TO TOP OF LINER 8887'. PERFORM CIT TEST 1835 PSI WITH 13.2 MUD EMW 18+. TRIP OUT FOR SCRAPER.

REPORT DATE : 6/22/01 MD : 11,920 TVD : 8,822 DAYS : 38 MW : 13.2 VISC : 69

DAILY DETAILS : TRIP OUT FOR SCRAPER. SERVICE RIG. TRIP OUT FOR SCRAPER. PU/LD BHA LAY DOWN 3-1/8" DC'S. MAKE UP SCRAPER. TRIP IN TAG BOTTOM AT 11818'. CIRCULATE BOTTOMS UP. CUT DRLG LINE. SHORT TRIP-9 STANDS FROM 11818' TO 10963'. CIRCULATE WELL CLEAN. TRIP OUT FOR LOGS. RIG UP SCHLUMBERGER.

REPORT DATE : 6/23/01 MD : 11,920 TVD : 8,822 DAYS : 39 MW : 13.2 VISC : 69

DAILY DETAILS : RIG UP SCHUMBERGER. MAKE UP TOOLS USIT-NEU-GR CCL-LOGS. TRIP IN WITH TOOLS TO 8793' FILLING PIPE EVERY 10 STANDS. RIG UP SIDE ENTRY SUB AND SHEAVES. RUN IN WITH SCHUMBERGER LATCH UP TOOL. LOGGING FROM 8802' TO 11801'. LOG OUT 11801' TO 8802'. PULL WIRELINE OUT.

REPORT DATE : 6/24/01 MD : 11,920 TVD : 8,822 DAYS : 40 MW : 13.2 VISC : 69

DAILY DETAILS : RIG DOWN SCHLUMBERGER. TRIP OUT WITH LOGS. LAY DOWN LOGGING TOOLS. TRIP IN S-L-M. CIRCULATE COND MUD. TRIP OUT FOR PERF GUNS. MAKE UP GUNS. TRIP IN.

REPORT DATE : 6/25/01 MD : 11,920 TVD : 8,822 DAYS : 41 MW : 13.2 VISC : 50

DAILY DETAILS : TRIP IN TO 11680'. CIRCULATE. FIRE GUNS FROM 11680' TO 11682'. CIRCULATE PUMP PILL. TRIP OUT FOR CEMENT RETAINER. LAY DOWN GUN MAKE UP CEMENT RETAINER. TRIP IN WITH CEMENT RETAINER. RUNNING ON BACK-UP GEN. SET CEMENT RETAINER AND TEST AT 11664'. CIRCULATE & COND MUD. WAIT ON SCHLUMBERGER. CEMENTERS CIRCULATE & COND MUD. RIG UP SCHLUMBERGER. HELD SAFETY MEETING. STING INTO RETAINER. PRESS TEST LINES TO 3500PSI. BRAKE DOWN RATE 1/2 BBL1000PSI-11/2BBL2000PSI-21/2BBL3200PSI-FOR 20BLLS. WATER INJ PUMP BAD IN CEMENT UNIT NEED TO REPLACE BEFORE CEMENTING.

REPORT DATE : 6/26/01 MD : 11,920 TVD : 8,822 DAYS : 42 MW : 13.2 VISC : 52

DAILY DETAILS : WORK ON CEMENT UNIT SAFETY MEETING TEST LINES TO 3500PSI MIX & PUMP 75 SKS CLASS G CEMENT 15.8# 1.19 YIELD 16BBLS DISPLACE 140BBLS STING INTO RETAINER SQUEEZE 21BBLS INTO FORMATION 2 BBLS A MIN 2700PSI SHUT DOWN PRESS STAYED AT 2000PSI STING OUT OF RETAINER REV CIRC TRIP OUT LAY DOWN RUNING TOOLS MAKE UP GUNS TRIP IN TO 11584' CIRCULATE PUMP DOWN BALL FIRE GUNS AT 11584' TO 11586' PUMP PILL TRIP OUT LAY DOWN GUNS MAKE UP RETAINER TRIP IN AND SET RETAINER AT 11564' AND TEST CIRCULATE RIG UP SCHLUMBERGER SAFETY MEETING TEST LINES TO 4000PSI STING INTO RETAINER BRAKE DOWN FORMATION RATE 1/2BBL 1200- 11/2BBL2400-2BBL2600-21/2BBL2700-3BBLS3200 PUMPED 20BBLS BLEED DOWN PRESS STING OUT CIRC

REPORT DATE : 6/27/01 MD : 11,920 TVD : 8,822 DAYS : 43 MW : 13.3 VISC : 47

DAILY DETAILS : MIX AND PUMP 125 SKS CLASS "G" CEMENT 15.8# 1.19 YIELD 26BBLS DISPLACE 130BBLS. STING INTO RETAINER. SQUEEZE 30BBLS INTO FORMATION AT 2BBL/MIN STARTING AT 2200 PSI. SLOWED DOWN TO1BBL/MIN. SHUT DOWN AT 3300 PSI. PRESS CAME DOWN TO 2750 PSI. STING OUT OF RETAINER. REV CIRC. TRIP OUT. LAY DOWN TOOLS. MAKE UP GUNS. TRIP IN TBG. CIRCULATE COND MUD. SLIP & CUT DRLG LINE TRIP IN TO11428'. CIRCULATE PUMP DOWN. BALL FIRE GUNS AT 11426' TO 11428'. CIRCULATE BOTTOMS UP. PUMP PILL. TRIP OUT. LAY DOWN TOOLS. MAKE UP RETAINER. TRIP IN.

REPORT DATE : 6/28/01 MD : 11,920 TVD : 8,822 DAYS : 44 MW : 13.2 VISC : 42

DAILY DETAILS : TRIP IN WITH RETAINER. SET AT 11406' AND TEST. CIRC. RIG UP SCHLUMBERGER. SAFETY MEETING. TEST LINES TO 4000 PSI. STING INTO RETAINER. BRAKE DOWN FORMATION. 1/2 BBL 1900PSI,1-1/2BBL, 3150 PUMPED 20 BBLS. BLEED DOWN. PRESS STING OUT. MIX AND PUMP 100 SKS CLASS "G" CEMENT 15.8# 1.19 YIELD 21 BBLS. DISPLACE 132 BBLS. STING INTO RETAINER. SQUEEZE 25 BBLS INTO FORMATION AT 11/2 BBLS A MIN. STARTING AT 3100 PSI. SHUT DOWN AT 3250 PSI PRESS CAME DOWN TO 2550 PSI. STING OUT OF RETAINER. REV CIRC. TRIP OUT LAY DOWN TOOLS RIG UP SCHLUMBERGER. PULL WEAR BUSHING. INSTALL TEST PLUG. TEST BOPS 250 PSI, LOW 5000 PSI HIGH. RIG DOWN. PULL TEST PLUG. INSTALL WEAR BUSHING. MAKE UP PERF GUNS TRIP INTO 11228'.

REPORT DATE : 6/29/01 MD : 11,920 TVD : 8,822 DAYS : 45 MW : 13.2 VISC : 48

DAILY DETAILS : TRIP IN WITH PERF GUNS TO 11228'. CIRC PUMP DOWN. BALL FIRE GUNS AT 11226' TO 11228'. TRIP OUT 30 STANDS WELL TUBING. CIRC BOTTOMS UP. PUMP PILL. TRIP OUT. LAY OUT TOOLS. MAKE UP RETAINER. TRIP IN SET AT 11206' AND TEST. CIRC. RIG UP SCHLUMBERGER. SAFETY MEETING. TEST LINES TO 4000 PSI. STING INTO RETAINER. BRAKE DOWN FORMATION. 1/2BBL1400-11/2BBL2500-2BBL2900-21/2BBL3200-BLEED DOWN PRESS PUMPED 10BBLS STING OUT OF RETAINER MIX AND PUMP 195SKS CLASS "G" CEMENT 15.8#. 1.19. YIELD 41BBLS. DISPLACE 106 BBLS. STING INTO RETAINER. SQUEEZE 41 BBLS INTO FORMATION AT 2 BBL/MIN. 2700 PSI BUILT TO 3000 PSI. 5 BBLS AT 1 BBL/MIN. 2650 PSI. SHUT DOWN AT 2400 PSI. PRESS FELL TO 2050 PSI. STING OUT OF RETAINER. REV CIRC. WOC. PUMP PILL. TRIP OUT. LAY DOWN TOOLS. WOC. MAKE UP BIT. PICKUP 21 3-1/8" DC'S. WOC. TRIP IN. WOC.

REPORT DATE : 6/30/01 MD : 11,920 TVD : 8,822 DAYS : 46 MW : 13.3 VISC : 46

DAILY DETAILS : TRIP INTO TOP OF LINER 8887'. WOC. WAIT ON CEMENT. WORK ON BRIDAL LINE, SHEAVES, POCKETS & DERRICK PINS & BOLTS. TRIP IN. TAG RETAINER AT 11194'. DRLG RETAINER AT 11194'. 8' OF CEMENT TEST TO 2000 PSI. OK- RUN IN. TAG CEMENT 2' OF CEMENT ON TOP OF RETAINER AT 11406'. 10' CEMENT UNDER RETAINER. TEST 2000 PSI. OK - RUN IN. TAG 3' OF CEMENT ON TOP OF RETAINER AT 11564'. DRILLING CEMENT AND PUSHING PARTS OF RETAINER PIPE TORQUED UP. LOSS OF PRESS. TRIP OUT FOR LOSS OF WT & PUMP PRESS. TWISTED OFF 2-7/8" PH6 TBG 3' DOWN FROM TOOL JOINT. TOP OF FISH 8069'. LAY DOWN THREE BENT JOINTS. SERVICE RIG. WAIT ON FISHING TOOLS. MAKE UP TOOLS. TRIP IN. TAG FISH AT 8069'. WORK OVERSHOT OVER FISH. TRIP OUT WITH FISH.

REPORT DATE : 7/1/01 MD : 11,920 TVD : 8,822 DAYS : 47 MW : 13.3 VISC : 46

DAILY DETAILS : TRIP OUT WITH FISH & LAY DOWN. LAY DOWN 100 JOINTS OF TBG- SOME BENT TRIP OUT DC'S. CHANGE BITS. TRIP IN DC' S. PICK UP 78 JOINTS OF PH6 8.6# . TRIP TRIP IN TO 11580'. TAG CEMENT. DRLG 6' OF CEMENT. CIRC TEST PERF TO 2000 PSI. OK-RUN IN TAG RETAINER ON CEMENT ON TOP DRLG RETAINER. 6' OF CEMENT. CIRC TEST PERF TO 2000 PSI. OK-RUN IN TAG CEMENT AT 11818'. DRLG CEMENT TO 11825'. CIRC PUMP PILL. TRIP OUT FOR SCRAPER.

REPORT DATE : 7/2/01 MD : 11,920 TVD : 8,822 DAYS : 48 MW : 13.4 VISC : 45

DAILY DETAILS : TRIP OUT FOR SCRAPER. LAY DOWN 3-1/8" DC'S. ONE CONE OFF BIT. MAKE UP BIT & SCRAPER. TRIP IN TBG. PICK UP 21 JOINTS OF TBG. TRIP IN. TAG BOTTOM AT 11833'. CIRC FOR LOGS. CUT DRLG LINE. PUMP PILL. TRIP OUT FOR LOGS. DROP RABBIT. PICK UP LOGGING TOOLS. TRIP IN WITH TOOLS. FILL PIPE EVERY 10 STANDS.

REPORT DATE : 7/3/01 MD : 11,920 TVD : _____ DAYS : 49 MW : 13.4 VISC : 45

DAILY DETAILS : RIG UP SCHLUMBERGER. RUN IN WITH SCHLUMBERGER. LATCH IN TOOL. LATCH IN CHECK TOOLS. NOT WORKING. WAIT ON COMPUTER TOOLS. DIDN'T FIX THE PROBLEM. UNLATCH, PULL WIRELINE OUT REHEAD. WIRELINE FIXED PROBLEM. RUN IN WITH WIRELINE. LATCH UP. RUN IN WITH LOGGING TOOLS AND WIRE LINE. CORRELATE LOGS. LOG OUT. TOOLS QUIT WORKING. GOT 90' OF LOG. START TRIP OUT. TIGHT AT 11025'. WORK PIPE. COULD BE CENTRALIZERS HANGING UP. TRIP OUT. GOT TO SIDE ENTRY. TRY TO UNLATCH CABLE, PARTED AT SIDE. RETRY SUB. PULL 2 STANDS. RETRIEVE WIRE LINE. TIE LOGGING LINE. WORK LINE OVER SHEAVES. UNLATCH. PULL OUT WITH WIRE LINE.

REPORT DATE : 7/4/01 MD : 11,920 TVD : 8,822 DAYS : 50 MW : 13.2 VISC : 46

DAILY DETAILS : PULL OUT OF HOLE WITH WIRELINE. TRIP OUT WITH TOOLS. WORK ON SCHLUMBERGER TOOLS. TRIP IN WITH LOGGING TOOLS. FILL EVERY 10 STANDS. RUNNING ON BACK UP POWER. RIG UP SCHLUMBERGER SHEAVES. RUN IN WITH WIRE LINE. LATCH IN. MIX AND PUMP PILL. LOGGING. RIG DOWN SCHLUMBERGER.

REPORT DATE : 7/5/01 MD : 11,920 TVD : 8,822 DAYS : 51 MW : 8.5 VISC : 27

DAILY DETAILS : RIG DOWN SCHLUMBERGER. TRIP OUT WITH LOGGING TOOLS. LAY DOWN LOGGING TOOLS. TRIP IN OPEN ENDED TO CIRC. CHANGE WELL OVER SERVICE RIG. WORK ON HIGH CLUCH. CIRC. CHANGE WELL OVER TO SEA WATER. CLEAN MUD TANKS AND RIG FOR COMPLETION.

REPORT DATE : 7/6/01 MD : 11,920 TVD : 8,822 DAYS : 52 MW : 8.5 VISC : 27

DAILY DETAILS : CIRCULATE. CLEAN SURFACE EQUIP AND ECI TANK. TRIP OUT FOR BRUSHES. MAKE UP SCRAPERS AND BRUSHES.

REPORT DATE : 7/7/01 MD : 11,920 TVD : 8,822 DAYS : 53 MW : 8.5 VISC : 27

DAILY DETAILS : MAKE UP SCRAPERS AND BRUSHES. TRIP IN TBG. WRONG XO SUB. WAIT ON SUB. CLEAN SURFACE EQUIP. TRIP IN. CIRC 5-1/2" LINER. SET DOWN ON MFCT. CIRC 9-5/8" CASING. TRIP OUT TO LINER TOP. CIRC. WASH LINER TOP. TRIP TO BOTTOM. CIRC. PUMP CAUSTIC PILL LONG WAY. REV CIRC A CAUSTIC PILL. PUMP SOAP PILL LONG WAY.

REPORT DATE : 7/8/01 MD : 11,920 TVD : 8,822 DAYS : 54 MW : 13.3 VISC : 27

DAILY DETAILS : CIRCULATE PUMP PILLS. CLEAN FLOW LINES. CIRCULATE HIGH VIS PILL. CHANGE OVER TO CaBr 13.4. TRIP OUT WITH BRUSHES. LAY DOWN TOOLS. TRIP OUT WITH TBG. REPAIR HYD HOSE. TRIP OUT WITH TBG. LAY DOWN TOOLS. MAKE UP TOOLS. SUMP PACKER. WORK ON HYD UNIT. TRIP IN WITH PACKER. RIG UP SCHLUMBERGER.

REPORT DATE : 7/9/01 MD : 11,920 TVD : 8,822 DAYS : 55 MW : 13.3 VISC : 27

DAILY DETAILS : RIG UP SCHLUMBERGER. RUN IN HOLE. TOOL FAILURE, PULL OUT OF HOLE. CHANGE TOOLS. RUN IN HOLE. TOOL FAILURE. PULL OUT. REWIRE LOGGING HEAD. RUN IN. DO CORRELATION LOG 11' OFF. PULL OUT. PICK UP PUP JOINT. RUN IN LOG ON DEPTH. PULL OUT. RIG DOWN SCHLUMBERGER. DROP BALL. TRY SETING SUMP PACKER BALL. WOULD NOT SEAT. REV CIRC PIPE. TRY TO RESEAT BALL. NEG. TRIP OUT TO INSPECT PACKER. PACKER MISSING SCALE AND PERF JUNK IN SEAT & ON TOP OF BALL. MAKE UP SCRAPER. TRIP IN.

REPORT DATE : 7/10/01 MD : 11,920 TVD : 8,822 DAYS : 56 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE TO RIH WITH 5-1/2" CASING SCRAPER. RIH TO 11,673'. DID NOT TAG SUMP PACKER. RIGGED UP AND REVERSED CIRCULATED. POOH WITH CASING SCRAPER. CHANGED GAUGES ON TUBING TONGS. RIH WITH OPEN ENDED TUBING. TIGHTEN EACH JOINT. CHANGED OUT HYD POWER UNIT. POOH WITH TUBING. PICKED UP 5-1/2" SUMP PACKER AND RUNNING TOOL. RIH ON 2-7/8" TUBING AND 5" DRILL PIPE TO 11,658'. BROKE CIRC AND DROPPED BALL.

REPORT DATE : 7/11/01 MD : 11,833 TVD : 8,822 DAYS : 57 MW : 13.4 VISC : 29

DAILY DETAILS : PRESSURED UP AND SET SUMP PACKER AT 11,658'. PULLED 30K UP AND SET 20K DOWN ON PACKER. PULLED UP AND RELEASED FROM PACKER. PUMP PRESSURE DID NOT DROP. BLED OFF PRESSURE. R/U AND ATTEMPT TO REVERSE CIRCULATE. 1500 PSI AT 1/2 BPM. NO GOOD. POOH WITH PACKER. RUNNING TOOL. L/D RUNNING TOOL. SOME DEBRIS IN RUNNING TOOL. PULLED WEAR BUSHING. RAN TEST PLUG. DID NOT HOLD. PULLED AND CHANGED O-RING. SET TEST PLUG. STARTED TESTING BOP. DOWELL CHART NOT WORKING. CHANGED CHART. NO GOOD. CHECKED AND CLEAN PRESS SENSOR. NO GOOD. CHANGED HOSE TO CHART. GOOD. TEST ANNULAR PREVENTER TO 250 - 3500 PSI. GOOD. TEST LOWER PIPE RAMS TO 250 - 5000 PSI. GOOD. TEST UPPER PIPE RAMS. NO GOOD. OPENED BONNET AND INSPECTED RAM. DID NOT SEE ANYTHING WRONG. CHANGED RAMS. RETESTED. NO GOOD. CONTINUE TESTING B.O.P.E. TO 250 - 5000 PSI.

REPORT DATE : 7/12/01 MD : 11,833 TVD : 8,822 DAYS : 58 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE TESTING BOP. TEST LOWER PIPE RAMS ON 2-7/8" TUBING AND 2-7/8" IBOP AND TIW VALVE TO 250 - 5000 PSI. GOOD. TEST ANNULAR PREVENTER ON 2-7/8" TBG TO 250 - 3500 PSI. GOOD. L/D 2 7/8" TEST PIPE AND P/U 5" TEST PIPE. CLEANED 5" PIPE RAMS AND RAM HOUSING. HYDRIL SERVICE REP INSPECTED AND CHANGED RUBBERS ON RAM AND INSTALLED. TEST UPPER PIPE RAM. NO GOOD. OPENED ONE BONNET FOR PIPE RAM. FUNCTIONED RAMS. OBSERVED RAM IN HOUSING. DID NOT SHOW ANY COMPRESSION ON SEALS. NOTIFIED MMS, DALE ROBERTS, OF CHANGING OUT 13-5/8" X 5K DOUBLE GATE AND SETTING STORM PACKER AT +/- 665'. SLIP & CUT DRILL LINE. DRAIN FRESH WATER IN RISER AND PULLED TEST PLUG. PREPARE TO NIPPLE DOWN BOP. RIH WITH 9-5/8" 47# BRIDGE PLUG TO 665'. WOULD NOT SET. POOH. CHECK AND RIH TO 665'. WOULD NOT SET. CALLED MMS, DALE ROBERTS, PACKER WAS NOT REQUIRED SINCE WELL WAS NOT OPEN. POOH AND L/D BRIDGE PLUG. NIPPLE DOWN BOP TO CHANGE DOUBLE GATE RAMS.

REPORT DATE : 7/13/01 MD : 11,833 TVD : 8,822 DAYS : 59 MW : 13.4 VISC : 29

DAILY DETAILS : NIPPLE DOWN B.O.P. NIPPLE UP B.O.P. (CHANGED OUT DOUBLE GATE RAMS). TEST B.O.P. TEST BLIND RAMS AND 5" DRILL PIPE RAMS TO 250 - 5000 PSI. GOOD. TEST ANNULAR PREVENTER TO 250 - 3500 PSI. GOOD. PULLED TEST PLUG. INSTALLING WEAR BUSHING.

REPORT DATE : 7/14/01 MD : 11,833 TVD : 8,822 DAYS : 60 MW : 13.4 VISC : 29

DAILY DETAILS : INSTALLED WEAR BUSHING. MADE UP SUMP PACKER LATCH-IN TOOL AND RIH. LATCHED INTO PACKER AT 11,658' (WIRELINE MEASURE). 11,673' DP MEASUREMENT. PICKED UP AND UNLATCHED. REVERSED HOLE CLEAN FROM 11,673'. (11,658' W/L MEASUREMENT). POOH WITH LATCH-IN TOOL. REGULATOR CONTROLING DIVERTER AND ALL GAUGES FOR REMOTE CONTROL ON RIG FLOOR WENT OUT. CONTINUE POOH. INSTALLED THREE-WAY VALVE ON CROWN-O-MATIC. CHANGED REGULATOR AND CONTROL LINE FOR DIVERTER.

REPORT DATE : 7/15/01 MD : 11,833 TVD : 8,822 DAYS : 61 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE WORKING ON KOOMEY UNIT. FIXED PRESSURE TO DIVERTER. P/U PERF GUNS AND RIH TO 9647'. GUNS SET DOWN. TRIED TO WORK GUNS PASS OBSTACLE. POOH WITH PERF GUNS. RIH WITH 4 3/4" BIT TO 11,673' (TOP OF SUMP PACKER) DID NOT TAG ANYTHING AT 9647'. ROTATE WITH 500# ON BIT. REVERSED CIRCULATED TWO DRILL PIPE VOLUMES. POOH WITH 4 3/4" BIT.

REPORT DATE : 7/16/01 MD : 11,833 TVD : 8,822 DAYS : 62 MW : 13.4 VISC : 29

DAILY DETAILS : POOH L/D 4 3/4" BIT. P/U PERF GUNS AND RIH TO 11,673' (MEASURED DEPTH). TAGGED TOP OF SUMP PACKER WITH SEAL ASSEMBLY. UNABLE TO WORK INTO PACKER AND LATCH. DROPPED BALL. HELD SAFETY MEETING. PRESSURED UP AND FIRED GUNS. PERFORATED 12 SPF, 12 GM, RDX, .062 DIA. BOTTOM PERF AT 11,648' W/L DEPTH. TOP PERF AT 11,640' W/L DEPTH. MONITOR WELL. OKAY. POOH WITH GUNS. L/D SAME. RIH WITH 4 3/4" BIT AND 5 1/2" 17# CASING SCRAPER TO 11,673'. WORKED SCRAPER FROM 11,673' TO 11,640' (MEASURED DEPTH). REVERSED CIRCULATED HOLE CLEAN.

REPORT DATE : 7/17/01 MD : 11,833 TVD : 8,822 DAYS : 63 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE REVERSE CIRCULATING HOLE CLEAN. POOH WITH SCRAPER. L/D SAME. PICKED UP AND RIH WITH SUPERMAX 12 GAUGE 316SS/140 WIRE PRODUCTION SCREEN. TAGGED SUMP PACKER AT 11,673' (11,658 WIRELINE DEPTH) WITH BULL PLUG. SPACED OUT AND CHANGED OUT ELEVATOR BAILS. R/U DOWELL SURFACE MANIFOLD. DROP BALL. TEST SURFACE LINES. HELD SAFETY MEETING. SET PACKER. TOP OF PACKER AT 11,408'. GRAVEL PACK PORT AT 11,418'. TOP OF SCREEN AT 11,640'. BOTTOM OF SCREEN AT 11,671'.

REPORT DATE : 7/18/01 MD : 11,833 TVD : 8,822 DAYS : 64 MW : 13.4 VISC : 29

DAILY DETAILS : PRESS TEST TO 5000, SET PACKER. CIRCULATE & SPOT 23 BBLS OF ACID. DISPLACE WITH 5 BBLS OF WATER, REV CIRC OUT ACID. HELD SAFETY MEETING. TEST LINES TO 5000. START DATA FRAC, ONE TURBO UNIT DOWN TRYING TO SQUEEZE 1 BBL/MIN 4950 PSI, REV OUT FRAC FLUID. PUMP INTO FORMATION WITH CALCIUM BROMIDE WATER 2700 PSI 3 BBLS/MIN. STING INTO PACKER, PUMP INTO FORMATION WITH 20 BBLS OF LINEAR GEL WITH . 5 PPG SAND FOLLOWED BY 10 BBLS OF LINEAR GEL & DISPLACED WITH CALCIUM BROMIDE WATER. FORMATION PRESSURED UP TO 5500 PSI WHEN SAND GOT ON PERFORATIONS. ATTEMPT TO CIRC THROUGH SCREEN, COULD NOT CIRC INDICATING SAND PACKED AROUND SCREEN. UNSTING REV CIRC GRAVEL PACK. RIG DOWN TOOLS, MONITOR WELL. CIRCULATE TBG. TRIP OUT WITH TOOLS, LAY DOWN SAME. CUT DRLG LINE.

REPORT DATE : 7/19/01 MD : 11,833 TVD : 8,822 DAYS : 65 MW : 13.4 VISC : 29

DAILY DETAILS : SLIP & CUT DRILL LINE. SERVICE RIG. RU/RD SERVICE TOOLS PERF GUNS. TRIP IN WITH GUNS. SET PACKER PLUG 11398', SPACE OUT, CIRC DOWN BALL, FIRE GUNS FROM 11314' TO 11384'. MONITOR WELL. TRIP OUT. RU/RD SERVICE TOOLS, LAY DOWN GUNS. RU/RD SERVICE TOOLS SCRAPER & RETRIEVING TOOL FOR PACKER PLUG. WRONG XO SUB, WAIT ON SUB. TRIP INTO 11380'.

REPORT DATE : 7/20/01 MD : 11,833 TVD : 8,822 DAYS : 66 MW : 13.4 VISC : 29

DAILY DETAILS : TRIP IN TO 11390'. CIRCULATE, FILTER FLUID, RAN OUT OF FLUID. ADDED ONE MORE POD FILTERING UNIT. CLEANING FILTER UNIT EVERY 40 TO 50 BBLS, VERY DIRTY. CIRCULATE, FILTER FLUID, RAN OUT OF FILTERED FLUID TO PUMP. FILTERING FLUID.

REPORT DATE : 7/21/01 MD : 11,833 TVD : 8,822 DAYS : 67 MW : 13.4 VISC : 29

DAILY DETAILS : CIRCULATE/FILTER FLUID LATCH ONTO PACKER PLUG. REV CIRC. MIX AND PUMP PILL. CIRC & CLEAN FLUID.

REPORT DATE : 7/22/01 MD : 11,833 TVD : 8,822 DAYS : 68 MW : 13.4 VISC : 29

DAILY DETAILS : CONTINUE TO REV CIRC. TRIP OUT FOR LINER. MAKE UP LINER. TRIP IN WITH LINER TO 11408'. SPACE OUT, STING INTO PACKER, DROP BALL. RIG UP SCHLUMBERGER. HOLD JSA WITH ALL PERSONNEL. PRESSURE TEST LINES TO 5000 PSI. BLEED OFF PRESSURE UP TO 2200 PSI ON TBG. BLEED OFF TO 750 PRESSURE. TEST BACK SIDE TO 1000 PSI, BLEED OFF. SET PACKER. PULL UP TO CIRC. CIRC SALT WATER DOWN ONE TBG VOLUME, CLOSE PACKER. PRESSURE TEST LINES TO 5000 PSI. SHUT ANNULAR, PRESSURE UP BACK SIDE 1000 PSI, PREFORM DATA FRAC. DO BREAK DOWN AND STOP RATE TEST WITH 4% KCL WATER. 6 BPM AT 5500 PSI. PUMP 100 BBL 30PPG GELLED CROSS LINK DATA FRAC. ISIP 2256 WITH CALCIUM BROMIDE WATER AS DISPLACEMENT FLUID.

REPORT DATE : 7/23/01 MD : 11,833 TVD : 8,822 DAYS : 69 MW : 13.4 VISC : 29

DAILY DETAILS : BLEED OFF BACK SIDE. FILTER FLUID, FRAC FLUID BAD. TRANSFER TO MUD TANKS. CLEAN ECI TANK. WAIT ON WATER AND KCL. MIX KCL. FILL TBG WITH SEA WATER, 150 BBLS. HELD SAFETY MEETING. FRAC WELL. PUMPED 70 BBL 30PPG CROSS LINKED GEL PAD FOLLOWED BY 40 BBL 1PPG SAND SLURRY, 19 BBL 3PPG SLURRY, 28 BBL 3PPG SAND SLURRY, 35 BBL 5PPG SAND SLURRY, 91 BBL 6PPG SAND SLURRY, 31 BBL 7PPG SAND SLURRY, 32 BBL 8PPG SAND SLURRY, 50 BBL 9PPG, SAND SLURRY, AND 70 BBL 10 PPG SAND SLURRY. TREATED AT 8 BPM AT 6000 PSI. WELL SCREENED OUT AT 8000 PSI WITH ALL OF 4PPG SAND SLURRY ON IN PERFORATIONS. ESTIMATE 7000 LBS OF SAND IN PERFORATIONS AND 299 BBL TOTAL FLUID PUMPED WHEN SCREEN OUT OCCURRED. BLED WELL TO 5000 PSI. REPRESSURE TO 8000 PSI WITH 1/2 BBL FLUID.
REV CIRC. MONITOR WELL. RIG DOWN SCHLUMBERGER. PULL TWO STANDS, CHANGE OUT BAILS. LAY DOWN PIPE.

REPORT DATE : 7/24/01 MD : 11,833 TVD : 8,822 DAYS : 70 MW : 13.4 VISC : 29

DAILY DETAILS : LAY DOWN 5" PIPE. LOAD BOAT. LAY DOWN 5" PIPE. LAY DOWN TBG. WORK ON TONGS. LAY DOWN TBG & TOOLS. PICK UP PRODUCTION TBG.

REPORT DATE : 7/25/01 MD : 11,833 TVD : 8,822 DAYS : 71 MW : 13.4 VISC : 29

DAILY DETAILS : PICK UP 2 7/8" TBG. TRIP OUT FOR PUMP SLM. PICK UP 15 MORE JOINTS OF TBG. TRIP OUT. RU/RD SERVICE TOOLS. TRIP IN HYDRO TESTING TBG TO 3500 PSI. MAKE UP PUMP.

REPORT DATE : 7/26/01 MD : 11,833 TVD : 8,822 DAYS : 72 MW : 13.4 VISC : 29

DAILY DETAILS : MAKE UP PUMP, ELEC LINE, CHEM LINE, PRUITT CHAMBER, HYDRO TEST. H2-S ALARM, CLEAR FLOOR. WORK ON SPOOLER. TRIP IN WITH PRODUCTION STRING. WORKING RE-ENTRY GUIDE INTO LINER TOP. TRIP IN WITH PRODUCTION. RIG UP TO SPLICE LINE.

REPORT DATE : 7/27/01 MD : 11,833 TVD : 8,822 DAYS : 73 MW : 13.4 VISC : 29

DAILY DETAILS : PICK UP SSSV. START SPLICE. WAIT ON VARIANCE FROM MMS. SPLICE LINE. MAKE UP CHEMICAL LINES. TRIP IN WITH PRODUCTION AND HYDRO TEST TO 3500 PSI. MAKE UP TBG HANGER. PLUG IN MAKE UP CHEMICAL LINES. INSTALL BACK PRESS VALVE. RUN IN AND LAND TBG HANGER. SSSV AT 525'. PRUETT CHAMBER AT 5868'. PUMPS AT 6012' AND 6030' R-NIPPLE AT 10874'. RE-ENTRY GUIDE AT 10970'. NIPPLE DOWN BOPS. NIPPLE UP TREE AND TEST.

REPORT DATE : 7/28/01 MD : 11,833 TVD : 8,822 DAYS : 74 MW : 13.4 VISC : 29

DAILY DETAILS : NIPPLE UP TREE & TEST. RIG DOWN FOR MOVE TO S-44 AT 16:00 HRS 7/27/01. WAITING ON COIL TBG UNIT TO BREAK CERAMIC DISK TO PUT ON PRODUCTION.

REPORT DATE : 8/8/01 MD : 11,833 TVD : 8,822 DAYS : 75 MW : VISC :

DAILY DETAILS : R/U COIL TUBING UNIT ON WELL S-65. TEST COIL TUBING TO 3000 PSI. TEST LUBRICATOR TO 3000 PSI. OPEN WELL AND RIH WITH 1 1/2" COIL TUBING PUMPING 1/2 BPM. BROKE FLAPPER WITH HIP TRIPPER. POOH WITH COIL TUBING.

REPORT DATE : 8/9/01 MD : 11,833 TVD : 8,822 DAYS : 76 MW : _____ VISC : _____

DAILY DETAILS : POOH AND R/D COIL TUBING. R/U WIRELINE. RIH W/ 2.30" RING GAUGE STOPPED AT 534'. POOH. RIH W/ 2.29" RING GAUGE TO 6200'. POOH. CHANGED CRANE HOLDING UP LUBRICATOR. RIH W/ "F" COLLAR STOP AND SET AT 6098'. POOH. R/D WIRELINE. R/U DOWELL. PUMPED 36 BBLS OF SEAWATER DOWN TUBING AT 1/2 BPM. R/D DOWELL. R/U WIRELINE. RIH W/ D&D BRIDGE PLUG AND SET AT 6068'. POOH. RIH W/ 2.313" "X" PLUG AND SET AT 534'. POOH. R/D WIRELINE. R/U DOWELL. PRESSURED UP AGAINST "X" PLUG TO SET"RDH" PACKER. PLUG WOULD NOT HOLD. R/D DOWELL. R/U WIRELINE. RIH AND RETRIEVED "X" PLUG. CHANGED PLUGS. RIH AND SET BLANK PLUG IN "X" NIPPLE AT 534'. POOH. R/D WIRELINE. R/U DOWELL. PRESSURED UP TO 2500 PSI FOR 15 MIN AND SET PACKER. R/D DOWELL. R/U WIRELINE AND RIH AND RETRIEVED BLANK PLUG. R/D WIRELINE. TURNED WELL OVER TO PRODUCTION. 8/9/01FINAL REPORT.

REPORT DATE : 8/10/01 MD : 11,833 TVD : 8,822 DAYS : 77 MW : _____ VISC : _____

DAILY DETAILS : WELL WENT ON VACUUM, DECISION WAS MADE TO SET ANOTHER PLUG ON BOTTOM. HELD SAFETY MEETING. R/U AND TEST LUBRICATOR. RIH WITH EQUALIZING PRONG TO D&D PLUG. EQUALIZED PRESSURE ACROSS BRIDGE PLUG. POOH. RIH WITH RETRIVING TOOL. LATCHED D&D PLUG. POOH VERY TIGHT. PLUG STOPPED 20' ABOVE SCSSV AT 495'. JARRING ON PLUG.

REPORT DATE : 8/11/01 MD : 11,833 TVD : 8,822 DAYS : 78 MW : _____ VISC : _____

DAILY DETAILS : CONTINUE JARRING ON FISH AT 495'. PULLED LOOSE. POOH. FISHING TOOL PARTED. WAIT ON FISHING TOOLS. RIH WITH GUTTED "JDC" AND LATCHED FISH. PULLED AND RECOVERED FIRST FISHING TOOL. PLUG STILL IN HOLE. RIH W/ IMPRESSION BLOCK. POOH. RIH W/ EQUALIZING PRONG. JARRED, DID NOT PULL PLUG. POOH. RIH W/ LONGER EQUALIZING PRONG. EQUALIZED PRESSURE. POOH W/ D&D PLUG. RIH W/ 2.29" GAUGE RING TO 6098'. POOH. RIH AND SET "W" CIRCULATING PLUG AT 6087'. POOH. RIH AND SET "X" PLUG AT 534'. POOH. PRESSURED UP ON RDH PACKER TO SET. RIH W/ RETRIEVING TOOL AND RETRIEVED "X" PLUG. TURN OVER TO PRODUCTION, 06:00, 8/11/01. NOTE: REVISED.

Gilda S-65

Current Schematic

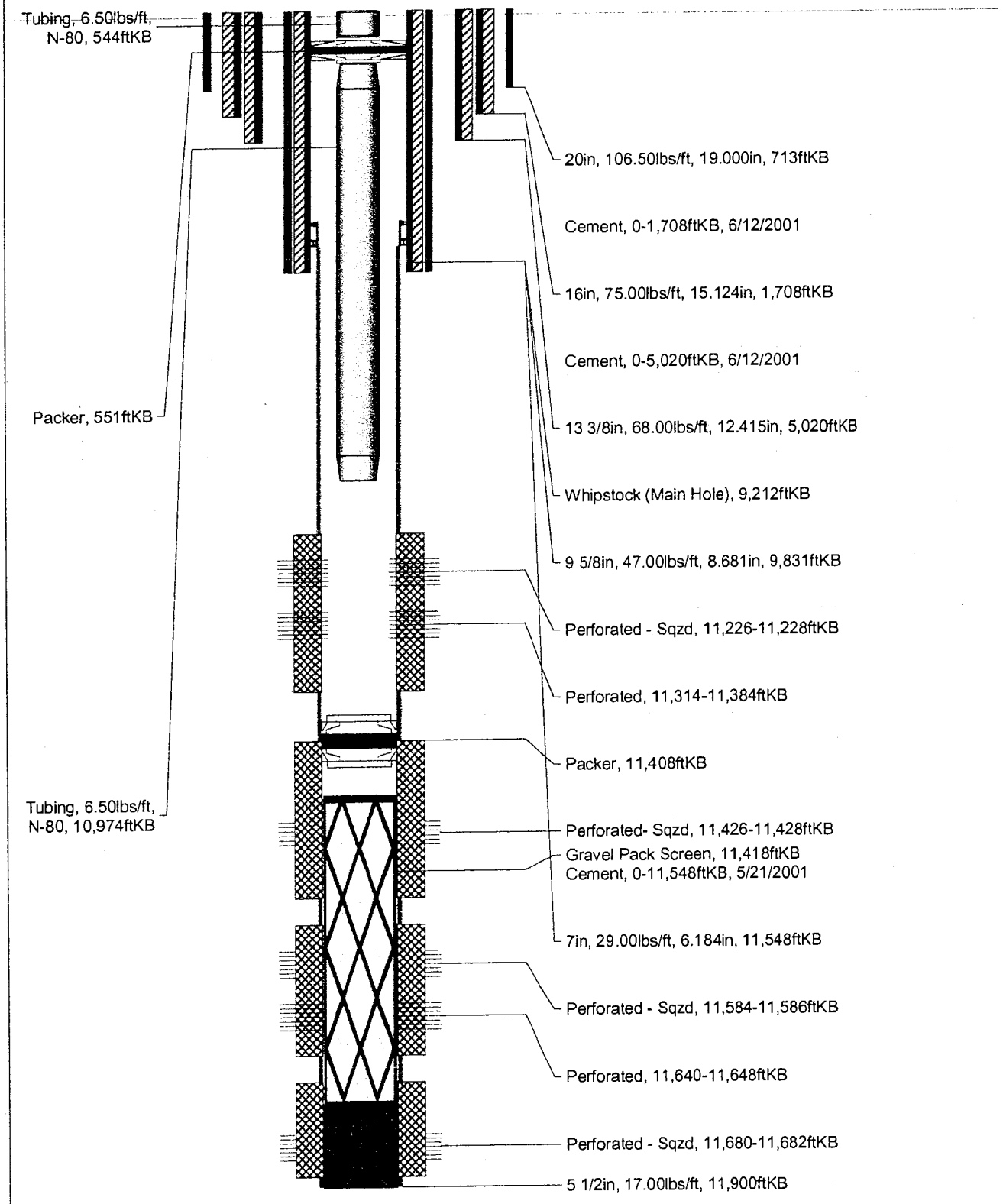
API	Field Name	Operator	State	Lease
0431120616	Santa Clara	Nuevo Energy	California	OCS P-0216

Comment

Total Depth (ftKB): 11,833.0

ST 01: 7/28/2001

Schematic - Actual



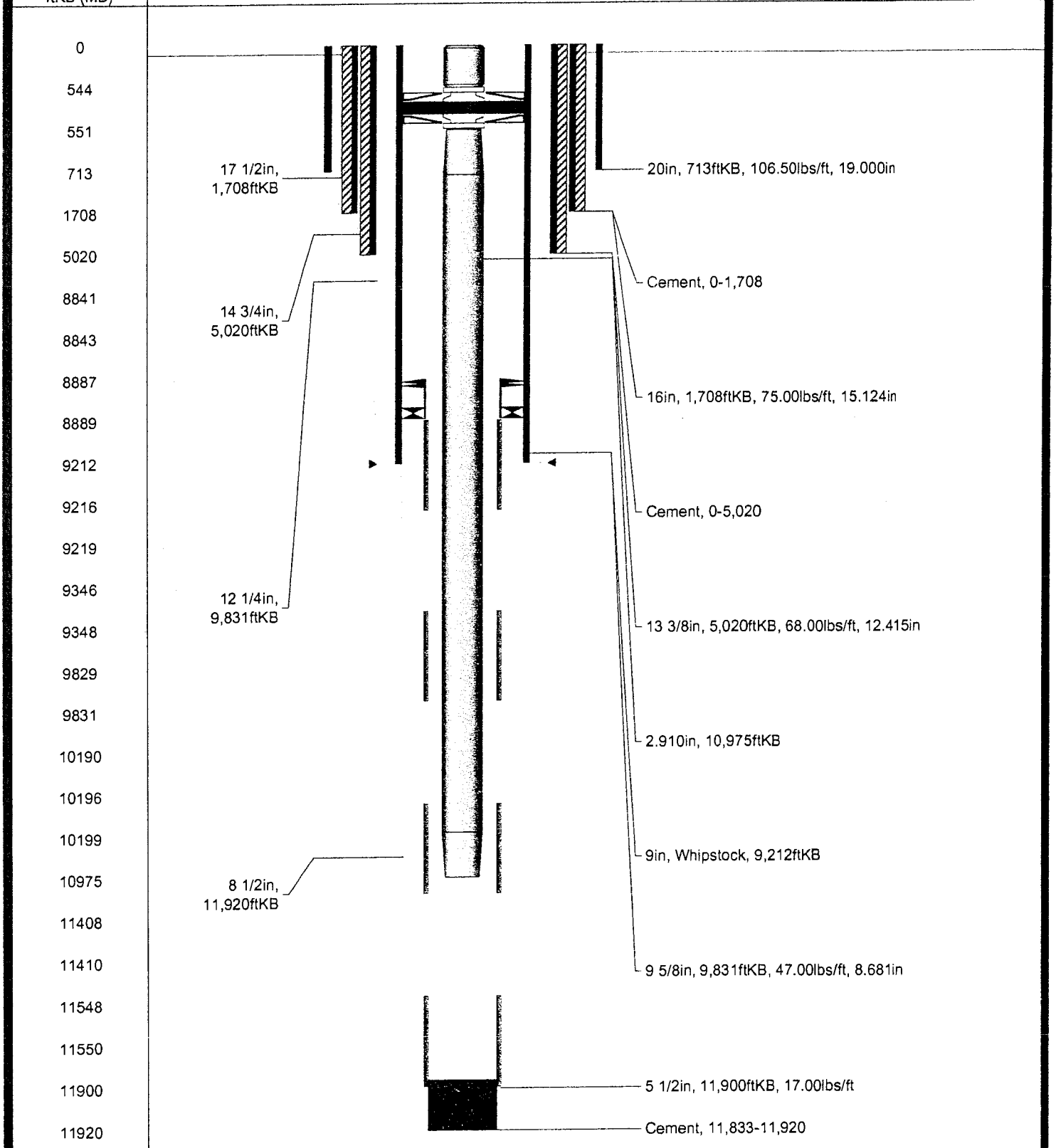
Gilda S-65

Current Schematic

API/UWI	Field Name	Area	Operator	County	State/Province
0431120616	Santa Clara	6B	Nuevo Energy	Federal Waters	California

KB Elevation (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Spud Date
107.00					5/12/01

ST 01: 8/10/01



EPOCH WELL LOGGING, INC.

Bakersfield, CA
(805) 397-7472
Ventura, CA
(805) 658-7708
Anchorage, AK
(907) 561-2465
Houston, TX
(713) 759-1021

DML Presentation

- [x] Formation Log
- [ ] Drilling Dynamics Log
- [ ] Pressure Evaluation Log
- [ ] Chromatography Ratio Log

LOG INTERVAL

DEPTHS: 9820' **TO** 11,978'
DATES: 4/30/94 **TO**
SCALE: 2" = 100'

CASING DATA

24"	**AT**	1057'
13-3/8"	**AT**	3070'
9-5/8"	**AT**	9820'
7" Liner	**AT**	11,978'

MUD TYPES

Seawater/Gel	**TO**	11,100'
Seawater/Polymer	**TO**	11,978'
	TO	
	TO	

CONFIDENTIAL

HOLE SIZE

26"	**TO**	
22"	**TO**	
12.25"	**TO**	
8.5"	**TO**	11,978'

COMPANY: Chevron USA
WELL: OCS-P-0450 C11 (HIGH)
FIELD: Pt. Arguello
REGION: Platform Hidalgo
COORDINATES: X - 710993.36m
Y - 3819242.40m
ELEVATION: DF to MLLW = 133'
Slot 3, UTM Zone 6
County, State: Federal Offshore, CA
API Index: 56-045-20067
Spud Date: April 30, 1994
Contractor: Dual Marine Drilling
Co. Rep.: Gary Brown/Ron Picciotti
Rig/Type: Dual # 45
Logging Unit: 10
Geologists: Pat Bell
Dick Dickerson
Add.Person: Jose Palacios
Pat Suchan
Co.Geologist: Gena Evola

ABBREVIATIONS

NB	*NEWBIT*	**MW**	*MUD WEIGHT*	**PR**	*POOR RETURNS*
RRB	*RERUN BIT*	**VIS**	*FUNNEL VISCOSITY*	**LC**	*LOST CIRC.*
CB	*CORE BIT*	**PV**	*PLASTIC VISCOSITY*	**CO**	*CIRCULATE OUT*
TG	*TRIP GAS*	**YP**	*YIELD POINT*		
SG	*SURVEY GAS*	**FL**	*FLUID LOSS*		
WG	*WIPER GAS*	**CL**	*PPM CHLORIDE ION*		
CG	*CONNECTION GAS*	**Rm**	*MUD RESISTIVITY*		
WOB	*WEIGHT ON BIT*	**Rmf**	*FILTRATE RESISTIVITY*		
RPM	*ROTARY REV/MIN*	**LAT**	*LOGGED AFTER TRIP*		
PP	*PUMP PRESSURE*	**LAS**	*LOGGED AFTER SURVEY*		
SPM	*STROKES/MIN*	**NR**	*NO RETURNS*		

MINERALS MANAGEMENT SERVICE
MAY - 4 1994
RECEIVED
SANTA MARIA DISTRICT

CLAY	SAND	CHERT - UNDIFF	LIMESTONE	VOLCANICS
MUD-CLAYSTONE	SANDSTONE	CHERT - GLASSY	DOLOSTONE	TUFF
PORCELANEOUS CLYST	CONGLOMERATE	CHERT - ARGILL	MARL	TUFFACEOUS CLYST
SHALE	CARBONACEOUS MAT	CHERT - PORCEL	CARBONATES	INTRUSIVE
SILTSTONE	SHELL FRAGMENTS	PORCELANITE	ANHYDRITE	ALTERED ZONE
DIATOMITE	COQUINA	METAMORPHICS	HALITE	GRANITE WASH
COAL	CEMENT CONTAM.	SERPENTINE	GYPSUM	CHALK

EPOCH WELL LOGGING, INC.

Company : Chevron USA | Well : C11 | Location : Platform Hidalgo | Date : 4/30/94 | Page No.: 1

PENETRATION: <400 ROP 0> (ft/hr); <40 WOB 0> (klbs)
DEPTH
LITHOLOGY: CUTTINGS PERCENTAGE (0-100)
OIL SHOWS
TOTAL GAS: <0 Ditch 2.0>; <0 Cuttings 2.0> (%ME in Air)
CHROMATOGRAPHY (ppm): <10 Methane 100K>; <10 Ethane 100K>; <10 Propane 100K>; <10 Butanes 100K>; <10 Pentanes 100K>
REMARKS: LITH DESCRIPTION; MUD REPORT; SURVEY DATA; OTHER INFORMATION

NOTE: MUDLOG AND GAS DETECTION EQUIPMENT CALIBRATED TO SPWLA STANDARDS.

LITH COLORS REFERENCED TO GSA ROCK-COLOR CHART.

ALL CARBIDES, WIPER, SURVEY AND CONNECTION GASES REPORTED ABOVE BACKGROUND GAS, TRIP GAS REPORTED AS TOTAL AMOUNT.

ALL CARBIDES 500gms UNLESS OTHERWISE STATED.

NOTE = KICKOFF CEMENT PLUG AT 9820'.

MW 8.7 VIS 40

MUDSTONE = PL YEL BRN TO GRY BRN; DARKER COLORS ARE MORE INDURATED; SOFT TO FRI CTGS IRREG BLKY TO ROUNDED; SILIC; SILTY SLI GRTTY, TO ICIP FISSL; MASS TO LAM W/COMMON FLASER BDDNG, AND MICRO CROSS BEDS, NORMAL GRADING; EARTHY TO SLI FROSTED LSTR; FRAC IRREG BLKY TO WK CONCH IF INDURATED; BRITTLE, CRMBLY TO MUSHY; MICRO MICA AS SCATT FLAKES, OFT ALONG BEDDING PLANES, MICRO PYR SCAT TO LOOSE FRAMBOIDAL; ISOLATED BROKEN PELECYPOD SHELL DEBRIS; TR CALCITE RHOMB TR V PL WHT RES CUT FL; NO OTHER OIL IND

SHALE = GRY BRN TO DSKY BRN; MOD HRD TO FRM FRI; CTGS MASS TO FLKY; SILIC, MOD INDURATION; SLI SILTY, MOD TO WK FISSLTY; MASS TO WK LAM; ERTHY TO SLI SPKL MICRO MICA/PYR; UNEVEN WK CONCH TO IRREG BLKY FRAC; BRTTL, CRMBLY; GRADES TO MUDSTONE W/ LOSS OF INDURATION AND FISSL; V PL DUL GOLD CUT FL; TR PL BRN RES CUT FL; NO OTHER OIL INDICATORS.

PORCELANEOUS MUDSTONE = MOD BRN TO DSKY YEL BRN; HRD TO MOD HRD; CTGS FLKY TO IRREG BLKY; SILIC, WELL INDURATED; SMTH MATTE TO WKLY SUCROSIC; MASSIVE TO LAM; ERTHY TO SLI RES LSTR; UNEVEN BLKY TO SLI CONCH FRACT; TOUGH, BRTTLE TO CRMBLY SCATT CALCITE RHOMBS; OCC MICRO MICA/PYR TR RES CUT FL; NO OTHER OIL INDICATORS

MUDSTONE = MOD DK BRN TO DSKY YEL BRN; SOFT TO FRM FRI; MASS TO FLKY CTGS OCC RNDD WHEN UNINDURATED; SILIC; SILTY, SLI GRTTY; MICRO LAM TO THIN BEDD; COMMON FLASER BEDDNG, W/ MICRO X BEDS; EARTHY TO SLI SPKL OF MICRO MICA/PYR LSTR; IRREG BLKY TO WKLY CONCH FRAC; BRTTL TO CRMBLY, RANGING TO MUSHY; GRDS TO PORCEL MUDSTN, AND TO PORCELANITE; TR RES CUT FL; NO OTHER OIL INDICATORS.

SHALE = GRY BRN TO DSKY BRN; MOD HRD TO FRM FRI; MASS TO FLKY CTGS; SILIC; SLI GRTTY, FISSL TO WK FISSL; MASS TO WKLY BEDD; EARTHY LSTR W/COMMON SPKL MICRO MICA/PYR; UNEVN SPLINTERY TO SLI CONCH FRAC; TR RES CUT FL; NO OTHER OIL INDIC.

PORCELANEOUS SHALE = DK YELSH BRN TO DK GRY BRN, BUT GEN LTR IN COLOR THAN ASSOC SH; V FRM TO HD; ANG, SPLINTERY CTGS; OPQ TO OCC SBTRNSL ON THIN EDGES; APPRS MASS W/O DISTINCT LAMS OR BEDDG; TR OPQ CTGS CONTAIN V THN DK BRN, CONVOL LAMS OR SPECKLED SURF PATCH OF HVY OIL; YLDS WK YEL FL AND YEL RES CUT FL.

SURVEY @ 10094', 44.6 DEG, 289.6 AZI
TVD 6772.2', 4287.1'N, 4941.6'W

MW 8.8+ VIS 39 PV 7 YP 23 GELS 7/10
FL 12.4 pH 9.1 CL- 20,000 SOL 1.5

SURVEY @ 10188', 41.2 DEG, 291.9 AZI
TVD 6841.1', 4315'N, 4999.3'W

DOLOSTONE = MOD TO DK YELSH BRN, OCC MOD BRN; FRM TO HD; TGH TO CRNCHY; OCC TRNSL ON THIN EDGE; OCC INDISTINCT, CONVOL LAM RR TR DIAT GHOSTS IN MTRX VIS @ HI MAGN; ARGIL IN PART; WK MNRL FL; SLO, SOMEWHAT DIFF YEL STRMRS F/ BULK CUT FORM TRANSP YEL FL; WK TO MOD DK YEL RES FL CUT RING.

SHALE = DK TO DSKY YELSH BRN, BLKSH BRN; FRM TO OCC V FRM; BLKY TO IRREEG WEDGE-SHAPED CTGS; GEN MASS APPR, TR SFTR CTGS EXHIBIT SUBTLE BEDDG; PREDM DULL, EARTHY LSTR, OCC W/ V FN MICSPKLS OF MICA OR SILICA; LO TO MOD SILICEOUS, TR V SILIC; TR ASSOC DOLOST, RR FN CALC XTLS; NO APPAR OIL STN; DRIED SPL CONTINUES TO EXHIBIT SLO, DIFF YEL CUTS W/ FNT NEBULOUS STRMRS.

SURVEY @ 10282', 39.6 DEG, 287.7 AZI
TVD 6912.7', 4335.7'N, 5056.6'W

PORCELANEOUS CLAYSTONE = DK TO V DK GRY BRN; V FRM TO HD; TGH TO CRNCHY; OCC TRNSL ON THIN EDGE; GEN HOMO COLORATION BUT RR CONVOL LAMS ARE VIS; SMTH TO V FN ABRSV TEXT; PRSNT IN MINOR AMTS ONLY; NO OIL STN; DRIED SPLS EXHIBIT WK SOURCE ROCK CUTS.

CLAYSTONE = MOD TO V DK GRY BRN; GEN SFT

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 10	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'		
			Wind:	Seas:	Bar:	POB: 42	
Mud Type: Sea Water			Wt: 8.5	PV:	YP:	WL:	
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From: - To:	Details
10,767'	Baker 7" EA Retrievamatic as Frac Pac	11,308' - 11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number
3	Mule shoe, 2 7/8" X nipple,10' Perf'd blast jt, 2 7/8" X nipple, pup jt,	1RR	Reed	OM 6352
	xo, 7" Baker EA Retrievamatic Packer, xo, pup jt, 4 1/2" frac string			

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
			Pre-Tour Safety Meeting:Rigging down tools: Watch lines overhead, give proper hand signals	
			to crane operator and stay in his line of sight.	
02:00	00:00 -	02:00	Rig up Dowell flowlines to frac head and flowback line to crown valve..	
01:30	02:00 -	3:30	Pressure test frac lines and pressure relief valve to 8350 psi against master valve.	
			Pressure test tubing against xx plug at 10,780' to 6000 psi for 5 min. OK. Test flowback	
			lines to choke manifold to 4500 psi.	
03:00	03:30 -	06:30	Rig up Golden State wireline and recover XX plug from tubing.	
03:00	06:30 -	09:30	Make up quartz pressure gauges and RIH on slickline. Set gauges in X nipple below perf'd	
			pup at 10,792'. POOH w/wireline and rig down same.	
05:30	09:30 -	15:00	Perform data fracs with KCLwater and polymer pills to determine fracture opening and closing	
			pressures and required rates and pump pressures. Max rate @ 30 BPM w/6000 psi.	
03:30	15:00 -	18:30	R/U GSW. Test lubricator to 2000 psi. RIH and recover pressure gauges. R/D GSW.	
02:30	18:30 -	21:00	Prep polymer for mini-frac. Pump same w/50 bbls at 1#/gal sand concentration, 50 bbl spacer,	
			61 bbls at 2.5 #/gal conc, 58 bbls of frac gel. Pref's screened out as 1 #/gal slug reached	
			perf's. Pressured to 7100 psi.	
01:00	21:00 -	22:00	Attempt to backflow wellto production without success. Well died.	
02:00	22:00 -	24:00	Rig down frac lines and top half of frac tree, leaving lower master valve on tubing.	
			Rigging up flowback lines to choke manifold from tubing. Will attempt to reverse out	
			sand and frac gel from tubing to production.	
			AM Activity: Reversed out 188 bbls of frac gel and sand to production. Closed well in	
			at choke . Built 1150 PSI in 20 min. Bled off same and closed packer dump valve. Relanded	
			hanger w/55,000# weight on packer and screw in donut screws. Attempt to pump down	
			tbg with rig pump. Pressured to 2000 psi. Pressure bled off to 1300 psi in 5 min.	
			Will make 2nd attempt at frac job today.	

24 hr Summary:

Fluid Lost To Formation Daily: Cumulative: 3,272

Hours Charges To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tonga:	Clrc. Equip:	

Remarks: POB: 3- Cusa, 3 Partners 22-Pool, 14-Service, Total=42, No incidents,No non-compliance, Pool days since last "LTA" = 69

Chevron %: 26.32 H_2S: None Accidents: N/R

Materials On Hand:				API Well No:	56-045-20087-01
Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: Keith Roberts		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 24-Apr-97		

C_11rpt.xls

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Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 22	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'

Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing

KB Correction: 18' Orig KB Elev: 133'

Wind: Seas: Bar: POB: 29

Mud Type: Sea Water Wt: 8.5 PV: YP: WL:

Prod. Casing Size: 9 5/8 WT: 43.5# Grade: Set @ MD: 9,820' TVD: 6,595' Cmt. Top @

Liner Size: 7" Wt: 26 Grade: L-80 Set@ MD: 11,991' TVD: 8,234' Top @MD: 9,579' TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2	9.3	L-80	Hydril		Mule Shu, 1 Jt, "X" Nip, Perf Jt, "X" Nip, 5 Jts, Packer @ 9503.49, Gas Lift	
					Mandrels @ 9,390.42', 8,931.79, 8,348.76', 7,559.69', 6,225.22', 4,368.78'	
					& 2,143.05'. FV-6 SSSV Ser # 127642-2-B set @ 718.74'.	

Packer Set At:	Type	Perforations From: - To:	Details
	Baker "HB" Packer W/ 40,000# Shear	11,051' - 11,061'	5 SPF 72 Deg. 37 Gram
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Shu	11,308' - 11,624'	5 0.49" SPF 60 degree
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:

Post-it® Fax Note 7671 Date # of pages ▶ 1

To Dan Knowlson From Laura McClure

Co./Dept. MMS - SM Co. Chevron

Phone # 922 7958 Phone # 658 4493

Fax # 925 8546 Fax # 658 4405

Hrs.	(From - To) hh:mm	Operations
	-	Held Pre-Tour Safety Meeting- Discussed the use of harness & lanyards while nipple up in
	-	progress. Discussed cleaning mud pits, will need confined space entry permit.
	-	
01:00	00:00 - 01:00	Continue to make up Baker Model "FV-6" & Control Line. Test same to 6,000 Psi, hold test
	-	for 15-minutes. Good Test.
02:00	01:00 - 03:00	RIH form 8,957' to 9,622'
01:00	03:00 - 04:00	Test 13 5/8" FMC tubing hanger to 5,000 Psi. Make up landing joint, tubing hanger & hook up
	-	Control Line.
01:30	04:00 - 05:30	Line up & land tubing hanger. Screw in Lock Down Pins & test Hanger seals to 5,000 Psi for 15-
	-	minutes. Good test.
03:00	05:30 - 08:30	Rig up & RIH with Golden State Wireline to install "XX" Plug in "X" Nipple.
02:00	08:30 - 10:30	Set Baker 9 5/8" Model "HB" Packer with 3,200 Psi for 15-minutes. Tested annulus to 1,200
	-	Psi for 15-minutes.
00:30	10:30 - 11:00	POOH with wireline & "XX" Plug & rig down Golden State Wireline.
01:30	11:00 - 12:30	Bleed pressure from Control Line, & back out landing joint. Install Back Pressure Valve.
05:30	12:30 - 18:00	Pull Rotary Table & , pull & L/D Pitcher Nipple, nipple down BOP Stack & Riser.
03:00	18:00 - 21:00	Attempt to set tree on hanger. Found hanger not aligned properly in tubing head. Alignment
	-	pin missing. Set tree down. P/U landing jts and screw into hanger. P/U hanger and rotate into
	-	proper orientation on 4th attempt. Set on tree. Screw in donut screws.
01:30	21:00 - 22:30	Nipple up prod tree. Test hanger seals and bonnet to 5000 psi for 15 min.
01:30	22:30 - 24:00	Transfer fluid from pits to Prod, 120 bbls. Begin cleaning pits.
	-	
	-	Mr. Phil Schroeder with MMS granted permission to pick up on Tubing Hanger & rotate
	-	for alignment with out having to rig up BOP stack.
	-	
	-	
	-	Note: Responded to production H2S alarm.
	-	

24 hr Summary: Finish making up SSSV & Control Line. Test tubing hanger. P/U landing joint, Tbg. hanger, & hook up control line. Land Tbg. Hanger & test hanger seals. RIH W/wireline & set XX plug in "X" Nipple. Set Packer, install BPV. Nipple down BOP stack, & install production tree.

Fluid Lost To Formation Daily: Cumulative: 3,343

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 2- Cusa, 22-Pool, 5-Service, Total=29. No Incidents, No non-compliance, Pool days since last "LTA" = 79

Chevron %: 26.32 H_2S: None Accidents: "NAR"

Materials On Hand: API Well No: 56-045-20067-01

Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Roberts/Ray
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	6-May-97

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

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Spud Date:	Start Date: 4/15/97	Actual Days: 20	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing			KB Correction: 18'	Orig KB Elev: 133'			
			Wind:	Seas:	Bar:	POB: 28	
Mud Type: Sea Water			Wt: 8.6	PV:	YP:	WL:	
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2	9.3	L-80	Hydril		Production String	

Packer Set At:	Type	Perforations From: - To:	Details
		11,051' - 11,061'	5 SPF 72 Deg. 37 Gram
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,308' - 11,624'	5 0.49" SPF 60 degree
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number
5	2-3/8" X 20' Tubing, XO, XO	1RR	Reed	OM 6352

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held Pre-Tour Safety Meeting- Discussed Change Fluid Over To Packer Fluid & Personal	
	-		Protective Equipment.	
	-			
05:00	00:00	- 05:00	Rig Up & Reverse Circulate 739 Bbl Sweep. Shut Down Pump & Monitor Well For 30-Minutes.	
	-		Well Flowing Back Up The Tubing; Mix & Pump 10 Bbl Pill.	
04:30	05:00	- 09:30	Shut In & Secure Well For Missile Launch From Vandenberg Air Force Base.	
	-		Evacuate Personnel to Platform Hermosa.	
01:30	09:30	- 11:00	Held Pre-Tour Safety Meeting. Open Well, No Pressure, Hole Full.	
02:00	11:00	- 13:00	POOH To 9,570'. Stand Back 28 Stands Of 3 1/2" Tubing.	
08:00	13:00	- 21:00	Rig Up & Circulate Hole W/ Packer Fluid, (Sent Returns to Production).	
03:00	21:00	- 24:00	POOH W/ 3-1/2" Production Tubing.	
	-			
	-			
	-			
	-			
	-		AM - Continue To POOH - Laid Down Excess Tbg - Rigged Up Gator Hawk & RIH W/ Production	
	-		Tubing.	
	-			
	-			
	-			
	-			
	-			
	-		Mr. Roy Bobbit W/ MMS Visited Platform.	
	-			
	-			
	-			
	-			
	-			

24 hr Summary: Reverse Circulated Well Clean - Evacuated Platform For Missile Launch - Pulled to 9570' and Circulated Hole Full of Packer Fluid. POOH W/ Tubing.

Fluid Lost To Formation Daily: Cumulative: 3,343

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 2- Cusa, 21-Pool, 5-Service, Total=28, No incidents, No non-compliance, Pool days since last "LTA" = 77

Chevron %: 28.32 | H_2S: None | Accidents: **NAR**

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: J. W. DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 4-May-97

C_11hscs.xls

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 19	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'

Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing

KB Correction: 18' Orig KB Elev: 133'

Mud Type: Sea Water	Wind:	Seas:	Bar:	POB: 28
	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @

Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From: - To:	Details
		11,051' - 11,061'	5 SPF 72 Deg. 37 Gram
11,268'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,308' - 11,624'	5 0.49" SPF 60 degree
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number
5	2-3/8" X 20' Tubing, XO, XO	1RR	Reed	OM 6352

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held Pre-Tour Safety Meeting- Discussed H2S drill, checking air packs. Discussed Loading	
	-		Work Boat With 4 1/2" Tubing.	
	-			
02:30	00:00	- 02:30	Clean Up Production Well Bay.	
	-			
02:30	02:30	- 05:00	Make Up 2 3/8" Stinger & RIH Picking Up 3-1/2" Production Tubing. (Rabbit Tbg).	
	-			
05:00	05:00	- 10:00	Secure Well & Platform, Evaucated All Non-Essential Personnel For Missile Launch.	
	-			
00:30	10:00	- 10:30	Held Safety Meeting & Serviced Rig & Equipment.	
	-			
00:30	10:30	- 11:00	0 PSI on Well. Open Well and Filled Hole W/ 20 Bbls Seawater.	
	-			
13:00	11:00	- 24:00	Continue To RIH Picking Up 3-1/2" Tubing to Mdl "D" Packer @ 11,258'.	
	-		Back Load O'Neal Tide W/ 4-1/2" Tubing, 5" Casing, Baker Tank & Misc Rental Tools.	
	-			
	-			
	-			
	-			
	-		A.M. - Stabbed Thru Packer - Reverse Circulated Well Clean Using Hi-Vis Sweep.	
	-		Secured Well & Platform for Evaucation Due to Missile Launch.	
	-			
	-			
	-		Held H2S Drill @ 16:30 - Secured Well.	
	-			
	-			
	-			
	-			

24 hr Summary: RIH w/ 2-3/8" Stinger - Secure Well & Platform - Evacuate Platform For Missile Launch - Cont. RIH w/ 3-1/2" Tubing Back Loaded Work Boat.

Fluid Lost To Formation Daily: 84 Cumulative: 3,550

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 22-Pool, 5-Service, Total=28, No Incidents, No non-compliance, Pool days since last "LTA" = 76

Chevron %: 26.32 H_2S: None Accidents: **NAR**

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: J. W. DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 3-May-97

C_11frac.xls

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Chevron — Point Arguello — OCS-P 0450 — C-11 — Daily Completion/WO Report — Version 1

MINERALS MANAGEMENT SERVICE
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PACIFIC AREA DIST.

Spud Date:	Start Date: 4/15/97	Actual Days: 18	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'		
				Wind:	Seas:	Bar:	POB: 28
Mud Type: Sea Water				Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:		Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From:	To:	Details
		11,051'	11,061'	5 SPF 72 Deg. 37 Gram
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,308'	11,624'	5 0.49" SPF 60 degree
11,632'	Baker "FB-1"	11,656'	11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number
4	Mdl "L" Retrieving Head, XO, 3-1/2" Tbg, XO	1RR	Reed	OM 6352

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held Pre-Tour Safety Meeting- Discussed general safety, Slips, trips, & falls. Make sure	
	-		deck clear of oil. Discussed loading & unloading on chopper.	
	-			
03:00	00:00	- 03:00	Clean Out Fill F/ 11,214' to Top of Plug @ 11,261' - Pumped Sweeps to Clean Up Well.	
01:00	03:00	- 04:00	Latch "F" Plug & Release From Packer - Pulled to 11,081'.	
02:00	03:00	- 05:00	Shut In Well & Secure Well For Missile Launch From Vandenburg.	
05:30	05:00	- 10:30	Shut Down Due To Missile Launch.	
11:30	10:30	- 22:00	Filled Well 13 Bbls. Rig Down Circulating Hose. POOH Laying Down 4 1/2" Tubing.	
	-		Stood 3-1/2" Tubing Back in Derrick. Laid Down "F" Plug & Retrieving Tool.	
01:00	22:00	- 23:00	Established Break Down, Pumped 2 Bbl/Min @ 600 PSI, Pumped 35 Bbls.	
	-		Well Bleed Down F/ 600 PSI to 450 PSI in 5 Minutes.	
01:00	23:00	- 24:00	Located and made up X-overs for 3-1/2" to 2-3/8" tubing.	
	-			
	-			
	-			
	-			
	-		AM Activity- Cleaned Up Production Decks, M/U 20' X 2-3/8" Stinger & RIH to 2,433' -	
	-		Secured Well For Platform Evacuation Due To Missile Launch F/ Vandenberg.	
	-			
	-			
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	-			
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	-			
	-			
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Post-it® Fax Note 7671 | Date | # of pages ▶ 3

To Dan Knowlson	From Laura Phillips
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 1958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

24 hr Summary: Recover "F" Plug & MD Packer & L/D Same, Shut In Well & Secure For Missile Launch, Filled Well POOH & L/D 4 1/2" Tubing, & Stand Back 3 1/2" Tubing, L/D "F" Plug & MD Packer. Established Well Breakdown.

Fluid Lost To Formation Daily: 133 Cumulative: 3,466

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 22-Pool, 5-Service, Total=28, No incidents, No non-compliance, Pool days since last "LTA" = 76

Chevron %: 26.32 | H_2S: None | Accidents: **NAR**

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: J. W. DeGraffenreid		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 2-May-97		

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 17	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'		
				Wind:	Seas:	Bar:	POB: 26
Mud Type: Sea Water				Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:		Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From: - To:	Details
		11,308' - 11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Shu	11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number
4	Mdl "L" Retrieving Head, XO, 3-1/2" Tbg, XO	1RR	Reed	OM 6352

Hrs.	(From - To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Held Pre-Tour Safety Meeting- Discussed use of MSDS (Right To Know) & reviewed near misses. If	
	-	unsure about proper way to do job ask for help.	
	-		
06:00	00:00 - 06:00	Continue to Test BOPEs as per Chevron & MMS Regs. - While running test #5, Safety Valve	
	-	Leaked, Repaired & Tested O.K. - Continued w/ Remainder of Tests O.K. - Tested	
	-	To 250 PSI Low & 3000 PSI High - Tested Accumulator O.K. (Tested 4-1/2" Inside	
	-	BOP on Deck.	
01:30	06:00 - 07:30	Rig Down BOP Test Equipment, Layed Down 4 1/2" Landing Joint.	
04:00	07:30 - 11:30	Make Up Cross Over From 3 1/2" To 4 1/2" Tubing, RIH With 4 1/2" Tubing To 3,784'.	
05:00	11:30 - 16:30	Rig Down For Repairs On Aux. Brake For Draw Works.	
04:30	16:30 - 21:00	Continue To RIH , Tag Fill @ 11,176'.	
03:00	21:00 - 24:00	Rig Up To Circulate & Clean Out Fill From 11,176' To 11,214'.	
	-	Circulated Sweep To Clean Out Sand.	
	-		
	-		
	-		
	-		
	-		
	-	AM Activity: Circ Well Clean - Recover "F" Plug - Shut In Well & Secure Well For Missile	
	-	Launch from Vandenberg.	
	-		
	-	Note: Rig Down 5-Hours For Repairs To Draw Works.	
	-		
	-		
	-		
	-		
	-		
	-		

24 hr Summary: Complete BOPE Test. Continue to RIH With 4 1/2" Tubing, Repair Rig Draw Works, & Circulate & Clean Out Sand.

Fluid Lost To Formation	Daily:	Cumulative: 3,272			
Hours Charged To			Hours Used		Other Charges
Contractor: 5	Chevron: 19	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 21-Pool, 4-Service, Total=26, No Incidents,No non-compliance, Pool days since last "LTA" = 75

Chevron %: 26.32 H₂S: None Accidents: **NAR**

Materials On Hand:						API Well No:	56-045-20067-01
Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	J. W. DeGraffenreid
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	1-May-97

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 16	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'		
				Wind:	Seas:	Bar:	POB: 29
Mud Type: Sea Water				Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:		Set @ MD: 9,620'	TVD: 6,595'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80		Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From:	-	To:	Details
10,767'	Baker 7" EA Retrievamatic as Frac Pac	11,308'	-	11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476'	-	11,624'	" "
11,632'	Baker "FB-1"	11,656'	-	11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number
3	Mule shoe, 2 7/8" X nipple,10' Perf'd blast jt, 2 7/8" X nipple, pup jt,			
	xo, 7" Baker EA Retrievamatic Packer, xo, pup jt, 4 1/2" frac string	1RR	Reed	OM 6352
4	Mdl "L" Retrieving Head, XO, 3-1/2" Tbg, XO			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Pre Tour Safety Meetings -Discussed Chemical Hazards & MSDS Book. Discussed Where	
	-		Fire Extinguishers Are Located & First Aid Kits On Rig Floor.	
	-			
01:30	00:00	- 01:30	Rig Down Frac Tree, & Unland Tubing Hanger.	
04:30	01:30	- 06:00	Release Frac Packer - Rig Up & Pump 10 Sx. Pill Down Tubing. POOH & Lay	
	-		down 37 Jts. Of 4 1/2" Tubing To "F" Nipple. Continue POOH With Tbg	
	-			
06:00	06:00	- 12:00	Continue POOH With 4 1/2" Tubing - Lay Down BHA.	
01:30	12:00	- 13:30	M/U Model "L" Retrieving Head - RIH With 28 Stands Of 3 1/2" Tubing.	
00:30	13:30	- 14:00	Rig Up To Test BOPE.	
10:00	14:00	- 24:00	Test BOPE As Per CUSA & MMS Requirements. Low Pressure Test 250 Psi, High Pressure	
	-		Test 3,000 Psi. Test #-4 Failed. Pulled Test Plug & Change Out Rubber, No Test. Change	
	-		Out Test Plug To Tubing Hanger. Still No Test. Spider All Joints On Landing Joint. Re-Tested	
	-		#-4, Good Test.	
	-			
	-			
	-			
	-		Note: All Test Held For Minimum Of 5-Minutes.	
	-			
	-		AM Activity: Testing BOPE.	
	-			
	-		Mr. Bob Hime With MMS On Platform For Inspection.	
	-			
	-			
	-			
	-			
	-			
	-			

24 hr Summary: Rig Down Frac Tree, Pull Frac Packer, POOH & L/D 37 Jts. Of 4 1/2" Tubing. Stand Back Remainder, RIH W/ Retrieving Tool & 28 Jts. Of 3 1/2" Tubing. Rig Up & Begin Testing BOPE.

Fluid Lost To Formation Daily: Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 2- Cusa, 22-Pool, 6-Service, Total=30, No Incidents,No non-compliance, Pool days since last "LTA" = 74

Chevron %: 26.32 H_2S: None Accidents: **"NAR"**

Materials On Hand:				API Well No:	56-045-20067-01
Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548		Drilling Rep:	J. W. DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11		Date:	30-Apr-97

C_11rec.xls

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 15	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'		
				Wind:	Seas:	Bar:	POB: 30
Mud Type: Sea Water				Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:		Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80		Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From:	To:	Details
10,767'	Baker 7" EA Retrievamatic as Frac Pac	11,308'	11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476'	11,624'	" "
11,632'	Baker "FB-1"	11,656'	11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number
3	Mule shoe, 2 7/8" X nipple,10' Perf'd blast jt, 2 7/8" X nipple, pup jt,			
	xo, 7" Baker EA Retrievamatic Packer, xo, pup jt, 4 1/2" frac string	1RR	Reed	OM 6352

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Pre Tour Safety Meetings - Discussed Proper use of Personnel Basket, Use of Proper	
	-	PPE, Be Aware of H2S Gas, Know your Response.	
	-		
22:00	00:00 - 22:00	Flowed well to ECI tanks until rate was below 4 BPH (No Back Pressure).	
	-	Flowed 108 Bbls from well on 4/29-97. Final flowing pressure 4 PSI.	
	-	Unloaded and measured 324 jts 3-1/2" prod tubing from work boat.	
	-	Loaded 3 Frac tanks on work boat.	
	-		
02:00	22:00 - 24:00	Finished rigging out Dowell and broke down frac tree.	
	-		
	-		
	-		
	-		
	-	A.M. Released Packer, Mixed and Pumped Pill, POOH w/ Frac String.	
	-		
	-		
	-		
	-		
	-		
	-	Received verbal waiver to delay BOP test f/ 4-29 till 4-30 from MMS.	
	-		
	-		
	-		
	-		
	-		
	-		
	-		

24 hr Summary: Flow well to ECI tanks, Rig out Frac Head

Fluid Lost To Formation Daily: Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 2- Cusa, 22-Pool, 6-Service, Total=30, No Incidents,No non-compliance, Pool days since last "LTA" = 73

Chevron %: 26.32 H_2S: None Accidents: "NAR"

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Keith Roberts
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	29-Apr-97

C_11frac.xls

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Chevron — Daily Completion/WO Report

Point Arguello | OCS-P 0450 | C-11 | Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 14	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'		
				Wind:	Seas:	Bar:	POB: 26
Mud Type: Sea Water				Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:		Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80		Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From:	To:	Details
10,767'	Baker 7" EA Retrievamatic as Frac Pac	11,308'	11,434'	5 0.49" SPF 60 degree
11,256'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476'	11,624'	" "
11,632'	Baker "FB-1"	11,656'	11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number
3	Mule shoe, 2 7/8" X nipple,10' Perf'd blast jt, 2 7/8" X nipple, pup jt,			
	xo, 7" Baker EA Retrievamatic Packer, xo, pup jt, 4 1/2" frac string	1RR	Reed	OM 6352

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Pre-Your Safety Metings: Last day of tour, Staying focused; Crane safety and overhead loads.	
	-		
00:30	00:00 - 00:30	Flowing well after frac job to ECI tanks on top deck. Change Back to flowing to production.	
	-		
08:30	00:30 - 09:00	Let well flow to production at rates of 25 -26 BPH against 40 psi vessel pressure.	
	-	Flowed 189 bbls to prod, (947 bbls cum.) Close well in for build-up. SITP = 316 PSI>	
	-		
15:00	09:00 - 24:00	Flow well to ECI without back pressure. Flowed at total of 177 bbls ,(1123 bbls cum)	
	-	SITP @ 16:45 = 235 psi; @ 24:00 SITP = 150 psi.	
	-		
	-	Transfered all left over frac fluid From C-1 and C-11, stored in ECI tanks and Dual mud	
	-	tanks to Production this morning for their processing and/or disposal at estimated cost	
	-	of $158/bbl. Total bbls shipped to production = 795 bbls. Still accummulating fluid as C-11	
	-	continues to flow back.	
	-		
	-	Note: received confirmation that stored fluids passed the LC50 Partial Toxicity test and is	
	-	capable of being discharged to ocean when it passes sceen test. Verbal notification	
	-	was given by R. Quuilter with written notification to follow.	
	-		
	-		
	-	SITP at 06:00 , 4/29/97 was 140 psi. Flow rates are +-6 BPH.	
	-	1200 bbls flowed back at 06:00. Frac job pumped 1491 bbl.	
	-		
	-	Rig crews serviced and cleaned rig. Backloaded 80% of D/S frac equipment.	
	-		
	-		
	-		
	-		

24 hr Summary:

Fluid Lost To Formation | Daily: | Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 20-Pool, 6-Service, Total=27, No Incidents,No non-compliance, Pool days since last "LTA" = 72

Chevron %: 26.32 | H_2S: None | Accidents: **NAR**

Materials On Hand: | API Well No: 56-045-20067-01

Profit Ceneter:	WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep:	Keith Roberts
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date:	28-Apr-97

Sheet1.xls

Chevron — Point Arguello — OCS-P 0450 — C-11 — Daily Completion/WO Report — Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 11	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'

Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing

KB Correction: 18' | Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 40
Mud Type: Sea Water	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579' TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From:	To:	Details
10,767'	Baker 7" EA Retrievamatic as Frac Pac	11,308'	11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476'	11,624'	" "
11,832'	Baker "FB-1"	11,656'	11,804'	" "

Flsh Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
3	Mule shoe, 2 7/8" X nipple,10' Perf'd blast jt, 2 7/8" X nipple, pup jt,			
	xo, 7" Baker EA Retrievamatic Packer, xo, pup jt, 4 1/2" frac string	1RR	Reed	OM 6352

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Pre-tour Safety Meetings: Discussed Safe lifting techniques and day's activities	
	-			
02:00	00:00 -	02:00	Finish rigging up flowbak line to master valve on tubing to choke manifold to production.	
	-		Rig up circ line from standpipe to casing head valve. Open tubing to choke. Had 1200 psi	
	-		on tubing. Bleed off same to V-9 and check well for flow. Had small flow. Back out	
	-		donut screws on hanger.	
02:00	02:00 -	04:00	Close annular on 5" landing joints. P/U hanger off well head. Pressure annulus to 800 psi.	
	-		Pick up on tubing and open unloader valve on packer. Break circ up tubing with 850 psi.	
	-		Reverse out frac gel and sand to production's V-71 at 2.6 BPM max rate. Had seawater back	
	-		to V-71 after pumping 188 bbls.	
02:30	04:00 -	06:30	Moniter well pressure. SICP and SITP built to 600 psi in 20 min. Bleed off pressure. Slack off	
	-		tubing and close unloader valve at packer. Land tubing hanger w/55,000# on packer, securing	
	-		annulus. Run in donut screws. Moniter tubing pressure. Built to 1150 psi & stabilized.	
02:00	06:30 -	08:30	Decision made to attempt additional frac work.Rebuild frac tree on tubing. Make up fac lines.	
02:00	08:30 -	10:30	Test frac lines and pressure relief valve to 7500 psi. Test flowback lines to choke manifold	
	-		to 4500 psi.	
06:30	10:30 -	17:00	Turn well over to frac team to experiment with. Re-establish pump-in rate at 20 BPM under	
	-		6800 PSI using 232 bbl seawater. Build Mini-frac program. Pumped as follows:195 bbls of	
	-		x-link gel, 28 bbls of 0.5 #/gal 100 M sand, 37 bbls of frac gel, 25 bbls of 1#/gal 100 M sand,	
	-		25 bbls of frac gel, 51 bbls of 2#/gal 100 M sand, 29 bbls of frac gel, and displaced with	
	-		175 bbls of linear gel. Initial treatment pressure was 6800 psi at 23 BPM, Final treatment pressure	
	-		was 5300 psi at 31 BPM. No screen out, all sand away!!!	
01:00	17:00 -	18:00	Rig crew mixed up frac gel breaker in pill pit and pumped same to prod V071 to break fluid	
	-		reversed out in early AM.	
06:00	18:00 -	24:00	Clean up decks from frac job. Clean and service rig. Waiting on additional jet fuel and frac	
	-		fluid additives to perform propent frac next day.	
	-			
	-			

24 hr Summary:

Fluid Lost To Formation | Daily: | Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 3- Cusa, 2 Partners 22-Pool, 13-Service, Total=40. No Incidents,No non-compliance, Pool days since last "LTA" = 70

Chevron %: 26.32 | H_2S: None | Accidents: N/R

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: Keith Roberts
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 25-Apr-97

C_11frac.xls

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Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 12	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 31
Mud Type: Sea Water			Wt: 8.5	PV:	YP:	Wt.:
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From:	To:	Details
10,767'	Baker 7" EA Retrievamatic as Frac Pac	11,308'	11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476'	11,624'	" "
11,632'	Baker "FB-1"	11,656'	11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
3	Mule shoe, 2 7/8" X nipple,10' Perf'd blast jt, 2 7/8" X nipple, pup jt,			
	xo, 7" Baker EA Retrievamatic Packer, xo, pup jt, 4 1/2" frac string	1RR	Reed	OM 6352

Hrs.	(From - To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	P		Pre-Tour Safety Meetings: Frac job hazards and slip hazards.	
14:00	00:00	14:00	Waiting on Dowell frac additives and Jet A fuel. Unload boat at 10:30. Mix up frac gel and KCL	
02:00	14:00	16:00	Test frac lines to 9000 psi, flowback line to choke manifold to 4500 psi, set pressure relief valve to 8000 psi.	
01:30	16:00	17:30	Perform propent frac job. Pumped a total of 1323 bbls of cross-linked gel with 31,828 total pounds of 100 M silica and 20/40 M resin coated propent with 5500 to 6750 psi surface pressures at rates of 35 to 27 BPM. Max concentration of 20/40 propent was 3 #/gal. Under displaced propent to perf's with 174 bbls of linear gel. After stopping pumps, had 2860 psi tubing pressure.	
06:30	17:30	24:00	Open flowback line to choke. Flowback well at 83-80 psi with rates of 20 to 60 bbls/hr to production. Recovered 239 bbl at midnite for a 36.6 bbls/hr average.	
			Note: Shut well in at 02:00 with production V-71 & V-9 full, 300 bbls. Mixed breaker in pill pit and shipped to production. SITP = 1629 psi stabilized. At 06:00, still shut in waiting on production to dump fluid. Will continue to flowback well until dead.	
			Note: (1) 1st aid, Dowell hand Chemical burn, 1 Medical: Medi-Vac Pool Tool Pusher Kidney Stone.	

24 hr Summary: Wait on frac materials. Mix frac fluids. Test lines. Preform frac job w/1323 bbl of fluid & 31,828#'s of propent. Flowback well to production. 39 bbl/hr average w/68-80 psi tbg pressure.

Fluid Lost To Formation Daily: Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 21-Pool, 9-Service, Total=31, No Incidents,No non-compliance, Pool days since last "LTA" = 70

Chevron %: 26.32 H_2S: None Accidents: (1)1st aid

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Keith Roberts
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	26-Apr-97

C_11frac.xls

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Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 13	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'		
			Wind:	Seas:	Bar:	POB: 27	
Mud Type: Sea Water			Wt: 8.5	PV:	YP:	WL:	
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,585'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From: - To:	Details
10,767'	Baker 7" EA Retrievamatic as Frac Pac	11,308' - 11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/8' Pup, "X" nipple, Mule Sh	11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
3	Mule shoe, 2 7/8" X nipple,10' Perf'd blast jt, 2 7/8" X nipple, pup jt,			
	xo, 7" Baker EA Retrievamatic Packer, xo, pup jt, 4 1/2" frac string	1RR	Reed	OM 6352

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
			Pre-Tour Safety Meeting: Flowback contingencies, and staying focused on last day.	
02:00	00:00 -	02:00	Continue to flowback well to production after frac job. 67 bbls (294 cum bbls)	
06:30	02:00 -	08:30	Shut well in until production can process fluid. SITP = 1640 psi.	
01:00	08:30 -	09:30	Open well back to production. 59 bbls (353 bbls cum)	
00:30	09:30 -	10:00	Shut well in on platform combustible gas alarm. SITP = 1350 psi	
02:00	10:00 -	12:00	Open well to production. Flowback 84 bbls (437 bbls cum)	
03:00	12:00 -	15:00	Production vessels full. Shut well in. SITP = 1200 psi. R/U to flowback to ECI tanks on top deck.	
00:30	15:00 -	15:30	Flowback to ECI tank, 22 bbls (459 bbls cum). Production redy to resume taking fluid.	
03:00	15:30 -	18:30	Flowback well to production, 110 bbls (569 bbls cum). Shut well in w/prod vessels full. SITB = 800 psi.	
05:30	18:30 -	24:00	Flowback well to ECI tank on top deck. Recovered 189 bbls (758 bbls cum) at midnite.	
			Note: flowback fluids weighing 8.3 to 8.5 #/gal, no oil, traces of gas to surface.	
			Production having difficulty processing fluid with current breakers on board.	

24 hr Summary: Flow back well.

Fluid Lost To Formation Daily: Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 20-Pool, 6-Service, Total=27, No Incidents,No non-compliance, Pool days since last "LTA" = 71

Chevron %: 26.32 H_2S: None Accidents: **NAR**

Materials On Hand:

API Well No: 56-045-20087-01

Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Keith Roberts
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	27-Apr-97

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Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days:	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing			KB Correction: 18'	Orig KB Elev: 133'		
			Wind:	Seas:	Bar:	POB: 44
Mud Type: Sea Water			Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579' TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril	10,797'	Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From: - To:	Details
10,767'	Baker 7" EA Retrievamatic as Frac Pac	11,308' - 11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
3	Mule shoe, 2 7/8" X nipple,10' Perf'd blast jt, 2 7/8" X nipple, pup jt,			
	xo, 7" Baker EA Retrievamatic Packer, xo, pup jt, 4 1/2" frac string	1RR	Reed	OM 6352

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
			Pre-Tour Safety Meetings: High Pressures, Don't hammer on lines with pressure, avoid frac lines and area during frac job.	
01:00	00:00 -	01:00	Continue RIH with 4 1/2" frac string, Checking torque and externally pressure testing each connection 6000 psi.	
03:00	01:00 -	04:00	Gatorhawk service hand safety nap. (Man had been awake & Working for 20+ hrs) Clean & service rig.	
06:30	04:00 -	10:30	Continue RIH with 4 1/2" frac string, Checking torque and externally pressure testing each connection to 6000 psi, to 9598'.	
01:00	10:30 -	11:30	Make up Baker "F" nipple between pup jts and plug test same to 6000 psi.	
02:00	11:30 -	13:30	Resume RIH, Strapping, drifting and P/U tubing from V-door. Gatorhawk test tools failed. Replaced test rubber 3X's and still unable to get test on blank pipe. R/D Gatorhawk.	
02:00	13:30 -	15:30	Strap, drift & P/U remaining 4 1/2"tubing from V-door, to 10740'.	
01:30	15:30 -	17:00	Change elevators. Make up tubing hanger on 5" casing and plug test fatigue nipple, hanger, and 5" landing joints to 7500 psi.	
01:30	17:00 -	18:30	Make up hanger and landing joints on 4 1/2" frac string. Set Baker retrievamatic packer at 10,767' landing hanger with 55,000#'s on packer. Tail at 10797'. Secure hanger with donut screws.	
00:30	18:30 -	19:00	R/U to casing valve and pressure test annulus to 2500 psi for 15 min. OK>	
02:30	19:00 -	21:30	R/U 4 1/6"-10M Frac head on top of frac string. R/U Pressure relief valve on annulus and function test same to 2500 psi with platform utility pump.	
02:30	21:30 -	24:00	R/U Golden State Wireline lubricator and pressure test same to 500 psi. Make up XX plug on slickline running tools and RIH. Set XX plug in X nipple at 10780', below packer. POOH with slickline at midnite.	

Post-it® Fax Note 7671 | Date | # of pages ▶ 1
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922-7958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

24 hr Summary: RIH with frac string, Pressure test same,R/U Frac head, Set XX plug in X Nipple.

Fluid Lost To Formation | Daily: | Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 3- Cusa, 3 Partners 22-Pool, 16-Service, Total=44, No incidents,No non-compliance, Pool days since last "LTA" = 68

Chevron %: 26.32 | H_2S: None | Accidents: N/R

Materials On Hand:					API Well No: 56-045-20067-01
Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: Keith Roberts		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 23-Apr-97		

C_11frac.xls

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Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 8	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'		
			Wind:	Seas:	Bar:	POB: 43	
Mud Type: Sea Water			Wt: 8.5	PV:	YP:	WL:	
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril		Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From: - To:	Details
		11,308' - 11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:
3	Frac Packer

Post-it® Fax Note 7671 Date # of pages ▶ 1

To Dan Knowlson From Laura McUps
Co./Dept. MMS - SM Co. Chevron
Phone # 922 7958 Phone # 658 4493
Fax # 925 8546 Fax # 658 4405

Hrs.	(From -To)	hh:mm	Operations C
	-		Pre-Tour Safety Meetings: Sling storage. Hang slings on hand rail fingers, no more than two slings per finger. Use crane whipline to assist. Beware of people on next deck down.
08:00	00:00 -	08:00	Make up test plug and set in tbg hanger. Test 13 5/8"-5M BOPE to 300/3000 psi as per Chevron and MMS Procedures. Tested with 4 1/2" and 3 1/2" tubing and functioned BOP from the rig floor Koomey unit and the pipe deck remote. All tests done using seawater and held 5 min. Perform Koomey test: 3100 psi initial/ 1600 psi final pressures.
01:30	08:00 -	09:30	Pull test plug and stand back 26 stands of 3 1/2" tbg from below.
01:00	09:30 -	10:30	Repair lift arm on Foster tongs
01:30	10:30 -	12:00	P/U tail assembly and Packer. Test to 6000 PSI. Tested OK.
01:30	12:00 -	13:30	Rig up Gatorhawk, Change out rubber in Gatorhawk unit.
04:30	13:30 -	18:00	RIH from 56' to 3261'.
00:30	18:00 -	18:30	Pre tour safety checks, Safety meeting with new tour & Gatorhawk.
05:30	18:30 -	24:00	Strap into hole from 3261' to 6228', Torque each conn to 5800#, Externally testing each conn to 6000 psi.
	-		*** NOTE 1 HOUR down Time to Repair Foster Tongs.

24 hr Summary: BOP's tested, Start into hole with frac string.

Fluid Lost To Formation Daily: Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 2- Cusa, 3 Partners 22-Pool, 16-Service, Total=43, No incidents,No non-compliance, Pool days since last "LTA" = 67

Chevron %: 26.32 H2S: None Accidents: N/R

Materials On Hand:				API Well No:	56-045-20067-01
Profit Center:	WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep:	Keith Roberts
Field:	Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date:	22-Apr-97

C_11frac.xls

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 7	Auth. Days: 18	MD: 11,981'	TVD: 8,234'	PBTD: 11,885'
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing			KB Correction: 18'		Orig KB Elev: 133'	
Mud Type: Sea Water			Wind:	Seas:	Bar:	POB: 28
			Wt: 8.5	PV:	YP:	WL:
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril		Frac string	
3 1/2	9.3	L-80	Hydril		Work string	

Packer Set At:	Type	Perforations From:	To:	Details
		11,308'	11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476'	11,624'	" "
11,632'	Baker "FB-1"	11,656'	11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:
3	Frac Packer

Post-it® Fax Note 7671 | Date | # of pages ▶ 1
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 1958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

Hrs.	(From - To)	hh:mm	Operati
	-		Held Safety Meeting- Discussed Wireline Safety, Keep Focused on Job.
	-		
02:00	00:00 -	02:00	Finished POOH W/ Retrieving Head.
	-		
03:30	02:00 -	05:30	Removed rotary table & picture nipple, Installed shooting flange, installed rotary table.
	-		
00:30	05:30 -	06:00	Tested lubricator to 1000 PSI O.K.
	-		
02:30	06:00 -	08:30	Continue to R/U Schlumberger, Held safety meeting, M/U 4-1/2" casing gun w/ 5SPF, 72
	-		degree phasing w/ 37 gram charges, RIH & correlated to log and perforated f/
	-		11,051 to 11,061' - POOH W/ wireline & R/O Schlumberger.
	-		
04:00	08:30 -	12:30	Remove rotary table & shooting flange - installed picture nipple & flowline. Installed
	-		rotary table.
	-		
00:30	12:30 -	13:00	R/U to test BOPEs, unable to work test plug through annular.
	-		
02:00	13:00 -	15:00	RIH w/ 28 stands of 3-1/2" tubing, land tubing on tubing hanger. Secure well w/ inside
	-		BOP & safety valve, close both VBRs.
	-		
08:00	15:00 -	23:00	Remove rotary table & picture nipple, removed preventor head and element - installed new
	-		element & preventor head. Installed picture nipple, flow line & rotary table.
	-		
01:00	23:00 -	24:00	Unlanded tubing hanger, laid down landing joint & hanger.
	-		
	-		A.M. Testing BOPEs.
	-		

24 hr Summary: POOH, Installed & Tested Shooting Flange & Lubricator to 1000 PSI, Perforated F/ 11,051' - 11,061' w/ 5 SPF, Removed Shooting Flange, Changed Annular Element.

Fluid Lost To Formation | Daily: 161 | Cumulative: 3,272

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 22-Pool, 4-Service, Total=28, No incidents,No non-compliance, Pool days since last "LTA" = 66

Chevron %: 26.32 | H_2S: None | Accidents: N/R

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Jim DeGraffenreid
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	21-Apr-97

C_11rpt.xls

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 8	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing			KB Correction: 18'	Orig KB Elev: 133'			
			Wind:	Seas:	Bar:	POB: 31	
Mud Type: Sea Water			Wt: 8.7	PV:	YP:	WL:	
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril			
3 1/2	9.3	L-80	Hydril			

Packer Set At:	Type	Perforations From: - To:	Details
		11,308' - 11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
2	Mdl "F" Packer Plug, Mdl "L" Retrieving Head, XO, XO, Tbg	1RR	Reed	OM 6352

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Held Safety Meeting - Be sure that all Chicago fittings have safety pins and all camlocks	
	-	are secured - Do Not Horseplay - Pay attention to the job.	
	-		
	-		
11:30	00:00 - 11:30	Finish running in hole, (filled hole thru tubing while running in hole, Latched "F" plug in	
	-	packer @ 11258' (11268' Tbg meas.) and released from plug. Up wt. 120,000,	
	-	Down wt. 80,000#, Rotary 320Ft/lbs.	
	-		
01:00	11:30 - 12:30	R/U & tested packer & plug to 1000 PSI f/ 10 min. O.K.	
	-		
01:00	12:30 - 13:30	Circulated 157 Bbls to production (V-9).	
	-		
02:00	13:30 - 15:30	Spotted 3 sacks of 20/40 sand, circulated sand to bottom of tubing.	
	-		
01:00	15:30 - 16:30	Tested casing, plug and liner lap to 2800 PSI f/ 10 min. O.K.	
	-		
01:00	16:30 - 17:30	Spotted dry pill, RIH and tagged sand at 11244' (11255' tbg measurement).	
	-		
01:30	17:30 - 19:00	POOH w/ retrieving head to top of liner.	
	-		
01:00	19:00 - 20:00	Cut & slipped drilling line.	
	-		
04:00	20:00 - 24:00	Continued POOH w/ retrieving head	
	-		
	-		
	-		
	-		
	-		

24 hr Summary: RIH w/ "F" plug, set plug in "D" packer, spot 3 sacks of sand, tested csg, plug & liner lap to 2800 PSI, located top of sand 15' above plug, POOH.

Fluid Lost To Formation Daily: 161 Cumulative: 3,111

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 22-Pool, 7-Service, Total=31, No incidents,No non-compliance, Pool days since last "LTA" = 64

Chevron %: 26.32 H_2S: None Accidents: N/R

Materials On Hand:				API Well No:	56-045-20067-01
Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: Jim DeGraffenreid		
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 20-Apr-97		

C_11frac.xls

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Post-It® Fax Note 7671 | Date | # of pages ▶ 3
To Dan Knowlson | From Laura Phillips
Co./Dept. MMS - SM | Co. Chevron
Phone # 922 7958 | Phone # 658 4493
Fax # 925 8546 | Fax # 658 4405

Chevron — Point Arguello — OCS-P 0450 — C-11 — Daily Completion/WO Report — Version 1

MINERALS MANAGEMENT SERVICE
APR 21 1997
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SANTA MARIA DISTRICT

Spud Date:	Start Date: 4/15/97	Actual Days: 6	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'	
Wind:	Seas:	Bar:	POB: 31			
Mud Type: Sea Water	Wt: 8.7	PV:	YP:	WL:		
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 8,585'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril			
3 1/2	9.3	L-80	Hydril			

Packer Set At:	Type	Perforations From:	- To:	Details
		11,308'	- 11,434'	5 0.49" SPF 60 degree
11,258'	Baker "D" W/6' Pup, "X" nipple, Mule Sh	11,476'	- 11,624'	" "
11,632'	Baker "FB-1"	11,656'	- 11,804'	" "

Fish Top @ — Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data: Number	Type	Serial Number
1	8-1/8" Bit, 7" Csg Scraper, XO, Tbg, XO, XO, XO, 9-5/8" Csg Scraper,			
	XO, 4-1/2" Tbg.	1RR	Reed	OM 6352
2	Mdl "F" Packer Plug, Mdl "L" Retrieving Head, XO, XO, Tbg			

Hrs.	(From - To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
		Held Safety Meetings: Reminded everyone of Chevron's facial hair policy, Work attitudes,	
		Remind contractors to follow Chevron and Pool safety policies.	
05:00	00:00 - 05:00	Continue to POOH W/ casing scrapers.	
02:30	05:00 - 07:30	Rig up and circulate to production (V-9).	
02:00	07:30 - 09:30	Finish POOH w/ casing scrapers.	
10:30	09:30 - 20:00	R/U Schlumberger, Held safety meeting. M/U Baker Mdl "D" packer w/ 6' pup, "X" nipple,	
		and rotating mule shoe. RIH. Worked packer through liner hanger. Correlate tool - Set	
		Packer at 11,258'. POOH w/ wireline. R/U Schlumberger. **	
04:00	20:00 - 24:00	M/U Baker Mdl "F" latching type packer plug on Mdl "L" retrieving head. RIH.	
		A.M. - Continue to RIH W/ "F" latching plug.	
		**Tested 4-1/2" Safety Valve to 250 PSI low and 3000 PSI high O.K.	
		(Notice: One helicopter, no drilling personnel).	

24 hr Summary: POOH - RIH & Set Mdl "D" packer @ 11258' - RIH w/ Mdl "F" latching plug.

Fluid Lost To Formation — Daily: 365 — Cumulative: 2,950

Hours Charged To: Contractor:	Chevron: 24	Travel:	Hours Used: Tongs:	Circ. Equip:	Other Charges

Remarks: POB: 1- Cusa, 22-Pool, 7-Service, Total=31, No Incidents,No non-compliance, Pool days since last "LTA" = 63

Chevron %: 28.32 — H_2S: None — Accidents: N/R

Cum Tang Cost: — Cum Well Cost: — Total Appr:

Materials On Hand: — API Well No: 58-045-20067-01

Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Jim DeGraffenreid
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	19-Apr-97

C_11rpo.xls

Chevron Point Arguello OCS-P 0450 C-11

Daily Completion/WO Report

Version 1

MINERALS MANAGEMENT SERVICE
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SANTA MARIA DIST

Spud Date:	Start Date: 4/15/97	Actual Days: 4	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'

Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing

KB Correction: 18' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 26
Mud Type: Sea Water	Wt: 8.7	PV:	YP:	WL:

Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @

Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
4-1/2"	12.75	L-80	Hydril			
3 1/2	9.3	L-80	Hydril			

Packer Set At:	Type	Perforations From: - To:	Details
		11,308' - 11,434'	5 0.49" SPF 60 degree
		11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number
1	6-1/8" Bit, 7" Csg Scraper, XO, Tbg, XO, XO, XO, 9-5/8" Csg Scraper,	1RR	Reed	OM 6352
	XO, 4-1/2" Tbg.			

Hrs.	(From -To)	hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-		Held Safety Meetings - Discussed MMS safety alerts, ref. proper body harness.	
03:00	00:00	- 03:00	Continue to POOH w/ production tubing.	
01:00	03:00	- 04:00	RIH w/ excess 3-1/2" tubing.	
01:30	04:00	- 05:30	Laid down excess 3-1/2" tubing.	
15:00	05:30	- 20:30	M/U 6-1/8" bit on 7" casing scraper & RIH to 11,342' w/ 6-1/8" bit, (9-5/8" scraper to 9569').	
		-	Picked up 14 extra jts of 4-1/2" tubing. Received Waiver F/ Mr. R. Bobbit w/ MMS to use	
		-	3-1/2" Safety Valve until replacement 4-1/2" Safety Valve was rec'd and tested.	
03:30	20:30	- 24:00	POOH w/ tubing.	
		-	A.M.- Continue to POOH w/ casing scrapers.	
		-	NOTE: H2S DRILL @ 09:00 A.M.	
		-	Mr. Roy Bobbit W/ MMS visited platform w/ 2 visitors.	
		-	(Notice: One helicopter flight, no drilling personnel)	

24 hr Summary: POOH w/ production string - RIH w/ 7" & 9-5/8" casing scrapers to 11,432' - POOH

Fluid Lost To Formation Daily: 750 Cumulative: 2,585

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 22-Pool, 2-Service, Total=26. No Incidents,No non-compliance, Pool days since last "LTA" = 62

Chevron %: 26.32 H_2S: None Accidents: N/R

Materials On Hand:

API Well No: 58-045-20067-01

Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: Jim DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 18-Apr-97

C_11frac.xls

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 3	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'

Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing

KB Correction: 18' Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 26
Mud Type: Sea Water	Wt: 8.7	PV:	YP:	WL:

Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @

Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2	9.3	I-80	501	9,762'	Packer @ 9540', 7 G/L Valves, SSSV @ 792'.	

Packer Set At:	Type	Perforations From: - To:	Details
9,540'	Baker "HB"	11,308' - 11,434'	5 0.49" SPF 60 degree
		11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data Number	Type	Serial Number

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
	-	Held Safety Meetings before tours: Discussed policy for wearing safety harness, working around wireline operations.	
01:00	00:00 - 01:00	Removed 3-1/2" landing joint and installed 4-1/2" landing joint.	
02:00	01:00 - 03:00	Continued to test annuluar and pipe rams with 4-1/2" tubing to 300 PSI low and 3000 PSI high, (4-1/2" safety would not test).	
00:30	03:00 - 03:30	Removed 4-1/2" landing joint, removed BPV, installed 3-1/2" landing joint.	
04:00	03:30 - 07:30	R/U Golden State W/L, Removed ambient valve f/ SSSV @ 780', Unable to recover valve f/ G/L mandrel @ 9491', pulled orifice f/ G/L Mandrel @ 8940. R/O W/L.	
03:00	07:30 - 10:30	R/U & Pumpdown Csg & Tbg 596 Bbls Sea water W/ 5 gal/1000Bbl water.	
02:00	10:30 - 12:30	Backed out hanger hold downs. (Changed Elevators).	
00:30	12:30 - 13:00	Worked tubing to 175,000# to release packer.	
11:00	13:00 - 24:00	POOH w/ production tubing, stood back 45 stands, laid down remainder of string.	

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To Dan Knowlson | From Laura Phillips

Co./Dept. MMS - SM | Co. Chevron

Phone # 922 7958 | Phone # 658 4493

Fax # 925 8546 | Fax # 658 4405

from derrick.

24 hr Summary: Completed BOP test, pulled ambient valve and orifice f/ 8940. Killed well. Released Packer and POOH w/ production tubing.

Fluid Lost To Formation Daily: 1,513 Cumulative: 1,835

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 1- Cusa, 22-Pool, 2-Service. Total=26, No Incidents,No non-compliance, Pool days since last "LTA" = 62

Chevron %: 26.32 | H_2S: None | Accidents: N/R

Materials On Hand:				API Well No: 56-045-20067-01
From Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: Jim DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 17-Apr-97	

D_11rec.xls

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	Note: Because of Foggy weather, unable to get service personnel off of platform.
	-
	-
	-

24 hr Summary: Removed test plug from "X" nipple, installed BPV, removed BOPEs, installed production tree, removed BPV - Released well to Production

Fluid Lost To Formation	Daily:	Cumulative: 24,069

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 18	Travel:	Tanga:	Circ. Equip:	Safety Meeting

Remarks: POB:2-CUSA; 23-Pool; 8-Service; Total=32:No Incidents & No-Non Compliance. Pool Crews Have Worked "60" Days W/Out LTA.

Chevron %: 26.32	H_2S: None	Accidents: None

Materials On Hand: 63-Sxs. Sulf X : 6.5 Drums Scale X : 80 Sxs Xanvis : 180 Sxs Salt				API Well No:	56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521		Drilling Rep:	J. W. DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1		Date:	15-Apr-97

C-1 Proc.xls

Chevron — Point Arguello — OCS-P 0450 — C-11 — Daily Completion/WO Report — Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 1	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'

Job Description: Isolate lower perf's, Preform frac, Re-expose lower perf's and complete with 3-1/2" tubing

KB Correction: 18'	Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 32

Mud Type: Sea Water	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD:	Cmt. Top @

Liner Size: 7"	Wt: 26	Grade:	Set@ MD: 11,991'	TVD:	Top @MD: 9,579'	TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2	9.3	I-80	501	9,762'		

Packer Set At:	Type	Perforations From:	To:	Details
11,632'	Baker "HB"	11,308'	11,434'	5 0.49" SPF 60 degree
		11,476'	11,624'	" "
		11,656'	11,804'	" "

Fish Top @ — Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
06:00	18:00 - 24:00	Skid rig from C-1 to C-11. Spotted tool shed, cat walk and installed V-door.	
	-	Installed stairs to rig floor - rigged up to pump water to annulus and tubing of C-11	
	-		
	-		

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 2	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing				KB Correction: 18'	Orig KB Elev: 133'	
			Wind:	Seas:	Bar:	POB: 31
Mud Type: Sea Water			Wt: 8.7	PV:	YP:	WL:
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @	
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2	9.3	I-80	501	9,762'	Packer @ 9540', 7 G/L Valves, SSSV @ 792'.	

Packer Set At:	Type	Perforations From: - To:	Details
9,540'	Baker "HB"	11,308' - 11,434'	5 0.49" SPF 60 degree
		11,476' - 11,624'	" "
11,632'	Baker "FB-1"	11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:

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To Don Knowlson	From Laura Alcala
Co./Dept. MMS - SM	Co. Chevron
Phone # 922 1958	Phone # 658 4493
Fax # 925 8546	Fax # 658 4405

Hrs.	(From -To)	hh:mm	Operatic
01:30	00:00 -	01:30	Pumped 227 Bbls sea water in annulus.
01:30	01:30 -	03:00	Pumped 85 Bbls sea water down tubing, (tubing on vacumn).
01:00	03:00 -	04:00	Installed BPV in tubing hanger.
03:30	04:00 -	07:30	Removed flow lines & production tree.
08:30	07:30 -	16:00	Installed riser and BOPEs. Modified picture nipple and installed same. Installed flow line and rotary table.
08:00	16:00 -	24:00	Tested BOPE as per MMS and Chevron requirements. Tested both 3-1/2" & 4-1/2", Blind rams to 300PSI low and 3000PSI High.
	-		A.M. - Finished BOPE testing - Removed BPV - Rigged up Golden State W/L to pull ambient valve.
	-		Tour Safety Meetings - Be careful when working on more than one level, do not drop items to lower levels, make sure that tools are tied off. When testing BOPs, stay away from high pressure lines - Keep open communications.

24 hr Summary: Killed well - installed BPV - removed production tree - installed BOPE - Began testing BOPE.

Fluid Lost To Formation Daily: 322 Cumulative: 322

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 2- Cusa, 22-Pool, 7-Service, Total=31, No incidents,No non-compliance, Pool days since last "LTA" = 61

Chevron %: 26 | H_2S: None | Accidents: N/R

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center: WBU / VPC	Rig: POOL 411	Rig Phone: 805-658-6548	Drilling Rep: Jim DeGraffenreid
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-11	Date: 16-Apr-97

C_11frac.xls

	-
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	-
	- A.M. Pumped 227 bbls of sea water in annulus, pumped 95 bbls sea water in tubing,
	- tubing on vacumn, closed SSSV and installed BPV. Removed flow lines from tree
	- and began removing bolts from well head.
	-
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	-

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24 hr Summary: Skidded rig over hole, rigged up catwalk, V-door, etc. - pumped sea water in annulus and tubing removing well head.

Fluid Lost To Formation | Daily: | Cumulative:

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 6	Travel:	Tongs:	Circ. Equip:	

Remarks:

Chevron %: 26 | H_2S: None | Accidents: N/R

Materials On Hand:

API Well No: 56-045-20067-01

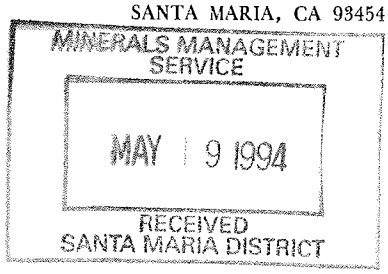
Profit Ceneter:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Jim DeGraffenreid
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	15-Apr-97

C_11frpt.xls

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
SANTA MARIA DISTRICT OFFICE
222 W. CARMEN LANE, SUITE 201
SANTA MARIA, CA 93454

PROPRIETARY DATA



Date: 05-16-94

Memorandum

To: Regional Supervisor, Office of Development, Operations, and Safety
Attention: Freddie Mason

From: District Supervisor, Santa Maria District

Subject: Transmittal of Well Data/Information

Attached are Daily Activity Reports for Chevron, Lease P-0450, Well C-11(6RD), From 05-09-94 to 05-14-94 2 copies of each. FINAL REPORT

Please sign below to verify your receipt, and return a copy of this memorandum to our office.

By: Dale Roberts For: Phillip R. Schroeder

Received By: Freddie Mason Date: 5/17/94

FORMS(C) WELLDATA

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885	Proposed MD: 11978	Proposed TVD: 8233		
DOL: 26	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0	
Torque: 16000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205	Wind:	Seas:	Bar:	POB: 75
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y		
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0			
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	6457 TVD		
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PM: 7.5
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Gent: 0.00	Solids % HG/LG: 0.00/ 0.00	% DS/Gent: 0.00/ 0.00

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: BARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
6 RR	1-1-6	6.125	SEC	627564	S33F	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	0.0	0	0									0.00

Total Length Of BHA: 551.01 BHA Description: BIT MSER, 7" CASING SCRAPER, BS, 1E JTS 3-1/2" HWDP

Hrs On Jars: 98.8 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
6 RR	6.50/6.50/0.00	11/11/ 0	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 CONTINUE RIH WITH SCHLUMBERGER PERF GUNS ON DP. PUMP DOWN DP & CLOSE MIDRV. RUN LAST 24 STANDS IN HOLE DRY TO
	- PROVIDE 1000 PSI UNDERBALANCE.
2.00	0200-0400 RU SCHLUMBERGER. RUN GR CORRELATION LOG IN DP & GET ON DEPTH WITH E LOG FOR PERFORATING.
2.00	0400-0600 SPACE OUT DRILL PIPE. RU CONTROLL HEAD. SET PKR AT 11,290'. RU SURFACE LINES & TEST SAME. PRESSURE UP ON ANNULUS
	- TO 1500 PSI TO OPEN PCT & FIRE GUNS. PERFORATE THE FOLLOWING INTERVALS USING 4-1/2" TCP GUNS WITH 5 HPF & 37
	- GRAM CHARGES: 11,308' TO 11,436', 11,476' TO 11,624', 11,656' TO 11,804'.
2.00	0600-0800 OBSERVE WELL. HAD STRONG BLOW BUT FLUID DID NOT SURFACE.
3.00	0800-1100 BLEED OFF PRESSURE ON ANNULUS & CLOSE PCT. FILL DP WITH 5 BBLS & OPEN MIDRV. REVERSE OUT DP VOLUME & RECOVERED
	- 15 BBLS OIL. CLOSE MIDRV. LOCK OPEN PCT. PULL PKR. OBSERVE WELL. FILL HOLE WITH 24 BBLS 8.7 PPG KCL SEAWATER
	- FILTERED TO .5 MICRON & TREATED W/ 5GAL/200 BBLS SCALE-TROL.
8.00	1100-1900 POOH WITH PERF GUNS & LAY DOWN SAME. ALL GUNS FIRED. HOLE TAKING 4 BBLS PER HR.
2.00	1900-2100 INSTALL WEAR BUSHING.
3.00	2100-2400 RIH WITH 6-1/8" BIT & 7" CSG SCRAPER.
	-
	-
	-
	-
	- FLUID LOST TO FORMATION: 52 BBLS (4-BPH)

Remarks: 44 DAYS NO LTA. TOURLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & HANDLING/MOVING PALLETS.

BOB MINE WITH SANTA MARIA MMS OBSERVED & APPROVED OPERATIONS.

0500 HRS: R/U SCHLUMBERGER TO RUN GAGE RING & JUNK BASKET.

Accidents: NONE

Daily M [illegible] Daily Drilling Cost: [illegible] AFE Number: [illegible]

Cum Mu

Drill Water: 3835	Potable Water: 285	Fuel: 817	Bulk Weights: 1063	Cement> Neat: 590	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-6522	Drilling Rep: PICCIOTTI/SALAZAR			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SHO) ST #1	Date: May 12, 1994			

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885	Proposed MD: 11970	Proposed TVD: 8233							
DOL: 28	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0						
Torque: 0	Drag: 0	Rot Weight: 0	P/U Weight: 0	Slack Off Weight: 0	Wind:	Sea#:	Bar:	POB: 66			
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y							
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0								
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	6457 TVD							
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gels: /				
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.5				
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% DS/Bent: 0.00/ 0.00				

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAINe 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Description: 3-1/2" PRODUCTION TBG.

Hrs On Jars: 0.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	DHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

PROPRIETARY/CONFIDENTIAL INFORMATION

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
9.50	0800-0930	CONTINUE RUN 3-1/2" 9.3# L-80 HYDRIL 501 TBG AS FOLLOWS: ROTATING MULE SHOE, 1 JT, F NIPPLE, 2 - 10' PERF PUPS,
	-	F NIPPLE, 5 JTS, BAKER 9-5/8" HB HYDRAULIC PKR, 1 JT , GL MANDREL #1, 18 JTS, GL MANDREL #2, 27 JTS, GL MANDREL
	-	#3, 31 JTS, GL MANDREL #4, 59 JTS, GL MANDREL #5, 38 JTS, GL MANDREL #6, 59 JTS, GL MANDREL #7, 44 JTS, BAKER FV
	-	6 SSSV, 23 JTS, FMC FATIGUE NIPPLE & TBG HANGER. ALL TBG DRIFTED & EXTERNALLY PRESSURE TESTED TO 5000 PSI.
2.50	0930-1200	RU LANDING JTS & LAND HANGER IN WH. OBSERVED PRESSURE DROP ON CONTROL LINE - PULL HANGER & REPLACE FITTING CON-
	-	NECTING CONTROL LINE TO TBG HANGER. PRESSURE TEST CONTROL LINE - OK.
1.50	1200-1330	LAND TBG HANGER IN WH. TIGHTEN LOCKDOWN SCREWS & PRESSURE TEST TBG HANGER SEALS TO 5000 PSI - OK.
3.50	1330-1700	RU GOLDEN STATE WL. SET SLICKLINE PLUG IN F NIPPLE BELOW PKR. USING BJ PRESSURE UP TO 4000 PSI ON TBG TO TEST
	-	TBG & SET BAKER HB PKR AT 9540'. EOT AT 9763' & BAKER FV6 SSSV AT 792'. GAS LIFT MANDRELS @ 9491, 8940, 8121,
	-	7187, 5296, 4075 & 2196. USING BJ PRESSURE TEST PKR & TBG/CSG ANNULUS TO 2500 PSI FOR 30 MIN OK. PULL SLICKLINE
	-	PLUG FROM TBG & LAY DOWN LANDING JTS. INSTALL FMC BPV IN TBG HANGER.
4.00	1700-2100	REMOVE PITCHER NIPPLE & FLOW LINE. ND BOPS, REMOVE RISER.
3.00	2100-2400	INSTALL TREE & PRESSURE TEST SAME TO 5000 PSI. PREP TO SKID RIG.
	-	HOLE TAKING 1 BBL PER HR WHILE RUNNING TBG. LOST TOTAL OF 210 BBLS FLUID TO FORMATION SINCE PERFORATING.
	-	
	-	RELEASED RIG FROM HIDALGO C-11 AT 2400 HRS 5/14/94.
	-	
	-	

Remarks: 46 DAYS NO LTA. TOURLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & HOUSEKEEPING.
BOB HIME WITH SANTA MARIA MMS OBSERVED & APPROVED OPERATIONS.
OPERATIONS @ 0500 HRS: SKID RIG FROM WELL C-11 TO C-9.

Accidents: NONE

Daily Mud Cost: 46155
Cum Mud Cost: 94938

Drill Water: 3744	Potable Water: 315	Fuel: 807	Bulk Weight: 1063	Cement: Neat: 590 Blended: 0
Afefrict: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR	
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 14, 1994	

FINAL

MINERALS MANAGEMENT SERVICE
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SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885			Proposed MD: 11978		Proposed TVD: 8233		
DOL: 27	DFS: 0	Spud Date: / /	Daily Footage: 0		Daily Rot Hrs:		Total Rot Hrs: 90.0		
Torque: 16000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205	Wind:	Seas:	Bar:	POB: 68	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD			Shoe Test: 15.0 EMW		Leakoff? (Y/N): Y		
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper : 0.0				Depth Worst Wear : 0		% Remaining: 0.0		
Liner Size: 7.000	Set At: 11911 MD	8235 TVD			Liner Top At: 9579 MD		6457 TVD		
Mud Company: PROFCO	Type: SEAWATER		Sample From: pit	Wt: 8.7	FV: 26	PV:	YP:	Gel: /	
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PH: 7.5		
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00		% DS/Bent: 0.00/ 0.00	

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: 551.01 BHA Description: BIT #6RR, 7" CASING SCRAPER, BS, 18 JTS 3-1/2" HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.00	0000-0100 CONTINUE RIH WITH 6-1/8" BIT & 7" CSG SCRAPPER TO 11,839'.
4.50	0100-0530 POOH WITH BIT & SCRAPPER.
7.00	0530-1230 RU SCHLUMBERGER. RIH WITH JUNK BASKET & GAUGE RING TO 11,700'. RIH WITH BAKER FB-1 SUMP PKR, 10' 3-1/2" TBG PUP,
	- BAKER R NIPPLE & ROTATING MULE SHOE ON WL. SET TOP OF SUMP PKR AT 11,632' E LOG DEPTH WITH MULE SHOE AT 11,646'.
0.50	1230-1300 PULL WEAR BUSHING.
11.00	1300-2400 RU TBG TONGS & GATOR HAWK. RUN 3-1/2" PRODUCTION TBG. SEE FOLLOWING DAYS REPORT FOR DETAILS.
	-
	- HOLE TAKING 5 BBLS FLUID PER HR.
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Remarks: 45 DAYS NO LTA. TOURLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & HELICOPTER SAFETY.

0600 HRS: RIH W/ PRODUCTION ASSEMBLY.

Accidents: NONE

Daily Mud Cost: — Drill: — Hole: — Comp: — Drill Pipe: — AFE Number: 46155

Cum Mud Cost: 94938

Drill Water: 3691	Potable Water: 316	Fuel: 817	Bulk Weight: 1063	Cement> Neat: 590 Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR	
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 13, 1994	

MINERALS MANAGEMENT SERVICE
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PROPRIETARY/CONFIDENTIAL INFORMATION

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885			Proposed MD: 11978		Proposed TVD: 8233			
DOL: 26	DFS: 0	Spud Date: / /		Daily Footage: 0		Daily Rot Hrs:		Total Rot Hrs: 90.0		
Torque: 16000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205	Winds:		Seas:		Bar:	POB: 75
Last Casing Size: 9.625		Set At: 9820 MD	6595 TVD		Shoe Test: 15.0 EMW			Leakoff? (Y/N): Y		
Cum Rot Hrs On Casing: 96.5		Cum Rot Hrs on Casing Since Last Caliper : 0.0			Depth Worst Wear : 0			% Remaining: 0.0		
Liner Size: 7.000		Set At: 11911 MD	8235 TVD		Liner Top At: 9579 MD			6457 TVD		
Mud Company: PROFCO	Type: SEAWATER		Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /		
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.5			
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00		% OS/Bent: 0.00/ 0.00		

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
6 RR	1-1-6	6.125	SEC	627564	S33F	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	0.0	0	0									0.00

Total Length Of BHA: 551.01 BHA Description: BIT RRR, 7" CASING SCRAPER, BS, 18 JTS 3-1/2" HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
6 RR	6.50/6.50/0.00	11/11/ 0	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 CONTINUE RIH WITH SCHLUMBERGER PERF GUNS ON DP. PUMP DOWN DP & CLOSE MIDRV. RUN LAST 24 STANDS IN HOLE DRY TO
	- PROVIDE 1000 PSI UNDERBALANCE.
2.00	0200-0400 RU SCHLUMBERGER. RUN GR CORRELATION LOG IN DP & SET ON DEPTH WITH E LOG FOR PERFORATING.
2.00	0400-0600 SPACE OUT DRILL PIPE. RU CONTROLL HEAD. SET PKR AT 11,290'. RU SURFACE LINES & TEST SAME. PRESSURE UP ON ANNULUS
	- TO 1500 PSI TO OPEN PCT & FIRE GUNS. PERFORATE THE FOLLOWING INTERVALS USING 4-1/2" TCP GUNS WITH 5 HPF & 37
	- GRAM CHARGES: 11,308' TO 11,434', 11,476' TO 11,624', 11,656' TO 11,804'.
2.00	0600-0800 OBSERVE WELL. HAD STRONG BLOW BUT FLUID DID NOT SURFACE.
3.00	0800-1100 BLEED OFF PRESSURE ON ANNULUS & CLOSE PCT. FILL DP WITH 5 BBLS & OPEN MIDRV. REVERSE OUT DP VOLUME & RECOVERED
	- 15 BBLS OIL. CLOSE MIDRV. LOCK OPEN PCT. PULL PKR. OBSERVE WELL. FILL HOLE WITH 24 BBLS 8.7 PPG KCL SEAWATER
	- FILTERED TO .5 MICRON & TREATED W/ 5GAL/200 BBLS SCALE-TROL.
8.00	1100-1900 POOH WITH PERF GUNS & LAY DOWN SAME. ALL GUNS FIRED. HOLE TAKING 4 BBLS PER HR.
2.00	1900-2100 INSTALL WEAR BUSHING.
3.00	2100-2400 RIH WITH 6-1/8" BIT & 7" CSG SCRAPER.
	-
	-
	-
	-
	- FLUID LOST TO FORMATION: 52 BBLS (4 BPH)

Remarks: 46 DAYS NO LTA. TOURLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & HANDLING/MOVING PALLETS.

BOB HINE WITH SANTA MARIA MMS OBSERVED & APPROVED OPERATIONS.

0500 HRS: R/U SCHLUMBERGER TO RUN GAGE RING & JUNK BASKET.

Accidents: NONE

Daily Mud Cost: 1567	Daily Tangible Cost: 0	Daily Well Cost: 112387	AFE Number: WVD66155
Cum Mud Cost: 76440	Cum Tangible Cost: 49240	Cum Well Cost: 1507118	Total Appr: 1694938

Drill Water: 3835	Potable Water: 285	Fuel: 817	Bulk Weight: 1063	Cement: Neat: 590	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-71 (6RD) ST #1	Date: May 12, 1994		

MINERALS MANAGEMENT SERVICE
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Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11685	Proposed MD: 11978	Proposed TVD: 8233							
DOL: 25	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0						
Torque: 16000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205	Wind:	Seas:	Bars:	POB: 70			
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y							
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0								
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	6457 TVD							
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /				
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.5				
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00				

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
6 RR	1-1-6	6.125	SEC	627564	S33F	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	Pull	Cost/Ft
0	0.0	12	70									0.00

Total Length Of BHA: 551.01 BHA Description: BIT SUB, 7" CASING SCRAPER, BS, 18 JTS 3-1/2" HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
6 RR	6.50/6.50/0.00	11/11/ 0	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.00	0000-0100 POOH WITH 6-1/8" BIT.
7.50	0100-0830 W/ BJ PRESSURE TEST 13-5/8" CLASS IV BOPE AS FOLLOWS: UPPER & LOWER PIPE RAMS & ANNULAR WITH 3-1/2" & 4-1/2" DP,
	- BLIND RAMS, CHOKE & KILL LINE VALVES, CHOKE VALVES, MUD MANIFOLD VALVES, 3-1/2" & 4-1/2" SAFETY VALVES & INSIDE
	- BOP, & UPPER & LOWER KELLY COCK TO 300 & 3500 PSI.
6.00	0830-1430 RU SCHLUMBERGER. RUN CBT/CET LOGS FROM 11,852' TO 9590'. CBT SHOWS GOOD TO EXCELLENT BOND. CET SHOWS LIMITED\
	- INTERMITTANT CHANNELING FROM 11,610' TO 10,110'.
1.00	1430-1530 LAY DOWN 6-1/2" DCS.
0.50	1530-1600 SERVICE TOP DRIVE.
1.00	1600-1700 USING BJ PRESSURE TEST 9-5/8" CSG & 7" LINER TO 2700 PSI FOR 30 MIN.
0.50	1700-1730 HOLD SAFETY MEETING WITH SCHLUMBERGER TO DISCUSS HANDLING TBG CONVEYED PERF GUNS.
6.50	1730-2400 RU & RIH WITH SCHLUMBERGER PERF STRING AS FOLLOWS: 495' OF PERF GUNS & BLANK AS PROGRAMMED, SAFETY SPACER,
	- ADAPTER, DIFFERENTIAL PRESSURE FIRING HEAD, XO, PORTED SUB, POSITEST PKR, TRANSFER SUB, SAFETY JT, HYDRAULIC
	- JARS, FULLBORE PCT, 1 STAND 3-1/2" DP, MULTI-ID REVERSING VALVE, 1 STAND 3-1/2" DP, PUMP OUT & RA SUB, 23 STANDS
	- 3-1/2" DP, XO & 4-1/2" DP.
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Remarks: 43 DAYS NO LTA. TOURLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & MSDS.

0500 HRS: PERFORATE 7" LINER W/ TCP GUNS @ 11309-11434, 11476-11624 & 11656-11804

Accidents: NONE

Daily Mud Cost:	7046155
Cum Mud Cost:	7494938

Drill Water: 3806	Potable Water: 230	Fuel: 819	Bulk Weights: 1053	Cement> Neat: 590	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL 965	Rig Phone: (805) 658-6522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 11, 1994		

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885	Proposed MD: 11978	Proposed TVD: 8233						
DOL: 24	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0					
Torque: 16000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205	Wind:	Seas:	Swr:	POB: 73		
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y						
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0							
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	0 TVD						
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /			
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 8.0	% Sand: 0.00	MBT: 0.00	PH: 7.5			
PM: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Gent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00			

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
6 RR	1-1-6	6.125	SEC	627564	S33F	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	2Pull	Cost/Ft
0	0.0	12	70									0.00

Total Length Of BHA: 551.01 BHA Description: BIT W/NR, 7" CASING SCRAPER, BS, 18 JTS 3-1/2" HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
6 RR	6.50/6.50/0.00	11/11/ 0	50/ 50/ 0	2700	450	61	406	437	8	0.3	709
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
4.00	0000-0400 POOH WITH 8-1/2" BIT.
0.50	0400-0430 INSTALL WEAR BUSHING.
2.00	0430-0630 MU 6-1/8" BIT, 7" CSG SCRAPER & PICK UP 18 JTS 3-1/2" HWDP.
4.00	0630-1030 RIH WITH 3-1/2" & 4-1/2" DP TO TOP OF LINER AT 9579'.
4.00	1030-1430 CLEAN OUT TOL FROM 9579-80'. RIH W/ 6-1/8" BIT & 7" CASING SCRAPER. TAG CMT STRINGERS @ 11760'.
4.00	1430-1830 DRILL OUT CMT FROM 11760' TO 11824'. DRILL OUT FLOAT & HARD CMT TO 11885'.
2.00	1830-2030 CIRC HOLE CLEAN W/ 8.7 PPG KCL SEAWATER. FILTERED TO .5 MICRON & TREATED W/ 5GAL/200 BBLS SCALE-TROL.
3.50	2030-2400 POOH WITH 6-1/8" BIT.
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Remarks: 42 DAYS NO LTA. TOURLY SAFETY MEETING DISCUSSED OFFLOADING BOAT.

OPERATIONS @ 0500 HRS: TESTING ROPE.

Accidents: NONE

Daily Mud $: WD045155

Cum Mud $: 1494938

Drill Water: 3410	Potable Water: 315	Fuel: 565	Bulk Weight: 1020	Cement: Neat: 590	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: SALAZAR/PICCIOTTI			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 10, 1994			

MINERALS MANAGEMENT SERVICE
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Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11826	Proposed MD: 11978	Proposed TVD: 8233							
DOL: 23	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0						
Torque: 12000	Drag: 15	Rot Weight: 235	P/U Weight: 250	Slack Off Weight: 210	Wind:	Seas:	Bar:	PRD: 72			
Last Casing Size: 9.625	Set At: 9820 MD	8595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y							
Cum Rot Hrs On Casing: 92.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0								
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	0 TVD							
Mud Company: PROFLO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 28	PV:	YP:	Gel: /				
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PH: 7.0				
Pm: 0.00	Pf/Mf: 0.00/ 0.30	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00				
Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0						

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
1 RR	1-3-7	8.500	REED	BJ2055	HP13G	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	0.0	5	100									0.00

Total Length Of BHA: 904.40 BHA Description: BIT #1RR, 9 5/8" CASING SCRAPER, X-O, 1JT HWDP, JARS, 28JTS HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
1 RR	6.50/6.50/0.00	11/11/ 0	50/ 50/ 0	1250	450	61	194	368	8	0.1	328
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
4.50	0000-0430	CONTINUE RIH W/ TOTAL OF 55 JTS 7" 26# L80 HYDRIL 521 LINER LANDED @ 11911' TOL @ 9579'. INSERT TYPE FLOAT @
	-	11826' FLAG JT @ 11078'. CZR'S PLACED 10' ABOVE SHOE, TOP OF 1ST JT, THEN EVERY 35' TO 40' TO TOL.
5.50	0430-1000	CIRC HOLE CLEAN. DISPLACE POLYMER MUD W/ KCL SEA WATER COMPLETION FLUID FILTERED TO .5 MICRON. TREATED W/ SCALE-
	-	TROL 5GAL/200 BBLS.
1.50	1000-1130	DROP BALL SET BAKER HYDRAULIC LINER HGR W/ 1500 PSI. SHEAR OUT BALL @ 2700 PSI. ROTATE OFF OF LINER.
1.00	1130-1230	CMT 7" LINER. MIX & PUMP 480 F3 (420 SX) CLASS "G" CMT W/ 1% CD-32 & .6% FL-52 15.8 PPG. DISPLACE W/ 209 BBLS
	-	SEA WATER. BUMP PLUG W/ 3000 PSI FLOAT HELD OK, SHUT IN @ 12:30 HRS. R/D BJ SERVICES.
3.50	1230-1600	POOH W/ DP. LAY DOWN LINER SETTING TOOLS.
1.00	1600-1700	RIH W/ 8-1/2" BIT, 9-5/8" CSG SCRAPER & BHA.
2.50	1700-1930	SLIP & CUT DRILLING LINE. SERVICE TOP DRIVE.
2.50	1930-2200	RIH W/ 8-1/2" BIT & 9-5/8" CSG SCRAPER. TAG CMT @ 9484'.
1.00	2200-2300	DRILL OUT CMT FROM 9484' TO TOL @ 9579'.
1.00	2300-2400	CIRC HOLE CLEAN.
	-	
	-	
	-	
	-	
	-	

Remarks: MLTA= 47 DAYS SAFETY MEETING TOPIC: SAFETY SHOWERS

OPERATIONS @ 0500 HRS: RIH W/ 6-1/8" BIT & 7" CSG SCRAPER

MMS ON BOARD ROY BOBBITT

Accidents: NONE

Daily M... 55

Cum Mud ...38

Drill Water: 3500	Potable Water: 315	Fuel: 534	Bulk Weight: 1020	Cement> Neat: 590	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/SALAZAR			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 09, 1994			

MINERALS MANAGEMENT SERVICE
MAY 10 1994
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SANTA MARIA DISTRICT

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
SANTA MARIA DISTRICT OFFICE
222 W. CARMEN LANE, SUITE 201
SANTA MARIA, CA 93454

PROPRIETARY DATA

MINERALS MANAGEMENT SERVICE
MAY 3 1994
RECEIVED
SANTA MARIA, CA

Date: 05-09-94

Memorandum

To: Regional Supervisor, Office of Development, Operations, and Safety
Attention: Freddie Mason

From: District Supervisor, Santa Maria District

Subject: Transmittal of Well Data/Information

Attached are Daily Activity Reports for Chevron, Lease P-0450, Well C-11(6RD), From 05-03-94 to 05-08-94 2 copies of each.

Please sign below to verify your receipt, and return a copy of this memorandum to our office.

By: Dale Roberts For: Phillip R. Schroeder

Received By: Freddie Mason Date: 5/4/94

FORMS(C) WELLDATA

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 0			Proposed MD: 11978	Proposed TVD: 8233				
DOL: 22	DFS: 0	Spud Date: / /	Daily Footage: 0		Daily Rot Hrs:	Total Rot Hrs: 90.0				
Torque: 18100	Drag: 60	Rot Weight: 255	P/U Weight: 315	Slack Off Weight: 220	Wind:	Seas:	Bar:	POB: 68		
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD			Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y				
Cum Rot Hrs On Casing: 91.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0				Depth Worst Wear: 0	% Remaining: 0.0				
Liner Size: 0.000	Set At: 0 MD	0 TVD			Liner Top At: 0 MD	0 TVD				
Mud Company: PROFCO	Type: SEAWATER POLYMER			Sample From: PIT	Wt: 9.0	FV: 40	PV: 7	YP: 30	Gel: 10/ 14	
WL API: 11.6 HTHP: 0.0	FC(1/32) API: 1 HTHP:		Solids: 4.50	% Oil: 0.0	% Water: 95.5	% Sand: 0.25	MBT: 7.00	pH: 8.5		
Pm: 0.10	Pf/Mf: 0.05/ 0.60	Carb:	Cl: 20000	Ca: 160	Bent: 2.59	Solids % HG/LG: 0.00/ 4.50	% DS/Bent: 4.18/ 0.32			

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRETT GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
1 RR	1-3-7	8.500	REED	RJ2055	HP13G	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	0.0	10	100									0.00

Total Length Of BHA: 940.63 BHA Description: BIT #1RR, 8 1/4" NBSTAB,BIT SUB, DC, 8 1/2" STAB, 1-NMDP, JARS, 2 8 NMDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	GPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
1 RR	6.50/6.50/0.00	11/11/ 0	50/ 50/ 0	1800	450	61	194	368	8	0.1	473
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
0.50	0000-0030 FINISH MAKING UP CLEAN OUT BHA.
3.50	0030-0400 RIH TO 11,737'.
2.00	0400-0600 REAM HOLE FROM 11,737' TO 11,867'. REAM UNDER GUAGE HOLE FROM 11,867' TO 11,911'.
2.50	0600-0830 CIRCULATE HOLE CLEAN FOR LINER. SPOT TEK-MUD PILL IN OPEN HOLE.
5.00	0830-1330 POOH. LAYDOWN CLEAN OUT BHA.
0.50	1330-1400 PULL WEAR BUSHING.
4.00	1400-1800 MAKE UP 55 JTS OF 7", 26#, L80, HYDRIL 521 LINER W/BAKER INSERT TYPE FLOAT SHOE ON BOTTOM, INSERT FLOAT VALVE ON
	" TOP OF 2ND JT AND PLUG LANDING COLLAR IN BOTTOM OF 3RD JT. PLACE CENTRLZRS 10' ABOVE SHOE, TOP OF 1ST JT, THEN
	" EVERY 35' TO 40'(PER DAVIS LYNCH CENTRALIZER PROGRAM) TOTO TOP OF LINER.
1.00	1800-1900 MAKE UP BAKER-BROWN 9 5/8" X 7" HYFLO II HYDRAULIC SET LINER HANGER. FILL LINER
3.50	1900-2230 RIH, SLOWLY WITH 7" LINER.
1.00	2230-2330 LOST PLATFORM POWER. START EMERGENCY GENERATOR. WAIT ON PLATFORM POWER BEFORE PROCEEDING INTO OPEN HOLE.
0.50	2330-2400 CONTINUE RIH WITH LINER.
	"
	"
	"
	"
	"

Remarks: OPERATIONS AT 0500 HRS: RIH W/LINER TO 11,911'. CIRCULATING HOLE CLEAN W/SEAWATER PRIOR TO CEMENTING LINER.

NLTA = 40 DAYS SAFETY MEETING TOPIC: FIRE EXTINGUISHERS

ROY HOBBITT (MMS) REVIEWED AND APPROVED OPERATIONS.

Accidents: NAR

Daily M

Cum MU

Drill Water: 3490	Potable Water: 310	Fuel: 534	Bulk Weight: 1020	Cement> Neat: 1020	Blended: 0

District: VENTURA PROFIT CENTER	Rig: DUAL #65	Rig Phone: (805) 658-4522	Drilling Rep: KNOWN/ROBERTS
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 08, 1994

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Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8235						
DOL: 21	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0					
Torque: 31000	Drag: 100	Rot Weight: 260	P/U Weight: 360	Slack Off Weight: 200	Wind:	Seas:	Bar:	POB: 70		
Last Casing Size: 9.625	Set At: 9820 MD	8595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y						
Cum Rot Hrs On Casing: 91.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0							
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD						
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 9.1	FV: 41	PV: 8	YP: 32	Gel: 10/ 14			
WL API: 12.0 HTHP: 0.0	FC(1/32) API: 0 HTHP:	Solids: 4.50	% Oil: 0.0	% Water: 95.5	% Sand: 0.25	MBT: 7.00	pH: 8.0			
Pm: 0.10	Pf/Mf: 0.05/ 0.70	Carb:	Cl: 20000	Ca: 160	Bent: 1.59	Solids % HG/LG: 0.00/ 4.50	% DS/Bent: 4.34/ 0.17			

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRETT GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
5 RR	5-1-7	8.500	REED	EW2246	HP51A	13/13/13/	0.389	11658	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
253	90.0	0	0	6	8	WT	A	F	3/4	RG	TD	135.05

Total Length Of BHA: 1001.25 BHA Description: BIT #5RR, 8 1/4" NBSTAB, MONEL, XO, 8 1/2" NMSTAB, NMD, 8 1/2" NM STAB, MONEL, 1-NMDP, JARS, 28 JTS HWDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
5 RR	6.50/6.50/0.00	10/11/ 0	85/ 0/ 0	2600	383	317	165	313	182	3.2	536
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations covering 24 Hours Ending At Midnight
2.50	0000-0230 FINISH POOH TO RUN LOGS.
1.00	0230-0330 LAY DOWN ALL BHI DIRECTIONAL TOOLS AND BHA.
1.50	0330-0500 RIG UP SCHLUMBERGER LUBRICATOR AND PACKOFF. MAKE UP LOGGING TOOLS.
6.00	0500-1100 RUN #1: DLL-SP-GR-AMS-SDT FROM 11910' TO 9820'.
6.00	1100-1700 RUN #2: LDT-CNL-NGT-AMS FROM 11911' TO 9820'.
6.50	1700-2330 RUN #3: SHDT-GR-AMS FROM 11910' TO 9820'. RIG DOWN LOGGERS.
0.50	2330-2400 MAKING UP CLEAN OUT BHA AT MIDNITE.
	"
	"
	"
	"
	" NOTE: HOLE TOOK APPROXIMATELY 6 BBLS DURING LOGGING OPERATIONS.
	"
	"
	"
	"
	"
	"

Remarks: OPERATIONS AT 0500 HRS: CIRCULATING HOLE CLEAN FOR LINER.

MLTA = 39 DAYS SAFETY MEETING TOPIC: H2S

NO MMS PERSONNEL ON BOARD TODAY.

Dal

Accidents: NAR.

Cum

Drill Water: 3500	Potable Water: 315	Fuel: 534	Bulk Weight: 1020	Cement> Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SRD) ST #1	Date: May 07, 1994		

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Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 20	DFS: 0	Spud Date: / /	Daily Footage: 253	Daily Rot Hrs: 10.0	Total Rot Hrs: 90.0				
Torque: 31000	Drag: 100	Rot Weight: 260	P/U Weight: 360	Slack Off Weight: 200	Wind:	Seas:	Swr:	POB: 71	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 91.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 9.1	FV: 39	PV: 8	YP: 30	Gel: 10/ 13		
WL API: 12.0 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 4.50	% Oil: 0.0	% Water: 95.5	% Sand: 0.25	MBT: 7.00	pH: 8.8		
Pm: 0.10	Pf/Mf: 0.05/ 0.70	Carb:	Cl: 20000	Ca: 160	Bent: 1.59	Solids % HG/LG: 0.00/ 4.50	% DS/Bent: 4.34/ 0.17		

Drlg Gas: 35	Max Gas: 74	Conn Gas: 0	Trip Gas: 58	Trip Cl:	Remarks: GARRETT GAS TRAIN = 0	

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
5 RR	5-1-7	8.500	REED	BW2244	HP51A	13/13/13/	0.389	11658	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
253	10.0	35	100	6	8	WT	A	F	3/4	RG	TD	135.05

Total Length Of BHA: 1001.25 BHA Description: BIT #5RR, 8 1/4" NMSTAB, MONEL, XO, 8 1/2" NMSTAB, MWD, 8 1/2" NM STAB, MONEL, 1-NMDP, JARS, 28 JTS HWDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
5 RR	6.50/6.50/0.00	11/11/ 0	85/ 0/ 0	2300	383	317	165	313	180	3.2	514
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
11683	26.90	N 86.40W	8030	4392.60N	5890.38W	6647.88	1.34
11778	26.20	N 84.60W	8115	4395.92N	5932.71W	6690.02	1.12
11864	25.30	N 82.20W	8192	4400.20N	5969.82W	6727.23	1.68
11911	25.30	N 82.20W	8235	4402.93N	5989.72W	6747.26	0.00

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
0.50	0000-0030 FINISH TESTING CLASS IV BOPE TO 300 AND 3500 PSI FROM THE RIG FLOOR, USING WATER. FUNCTIONED REMOTE CONTROLS.
1.00	0030-0130 PULL TEST PLUG. SET WEAR BUSHING. MAKE UP BHA DROP BHA.
3.50	0130-0500 RIH TO 10,825'.
2.00	0500-0700 REAM MUD MOTOR RUN FROM 10,825' TO 11,658'.
10.00	0700-1700 DRILL AND MWD SURVEY 8 1/2" HOLE FROM 11,658' TO 11,911', TD.
1.50	1700-1830 CIRCULATE BOTTOMS UP.
1.50	1830-2000 WIPE HOLE TO 9 5/8" CASING. 100K EXCESS DRAG. RIH.
2.50	2000-2230 CIRCULATE AROUND A HI-VISC SWEEP. SPOT TEK-MUD PILL IN OPEN HOLE AHEAD OF DRY JOB.
1.50	2230-2400 POOH TO RUN FORMATION EVALUATION TOOLS.
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	-
	-
	- NOTE: TEK-MUD PRODUCT DECREASED DRAG IN OPEN HOLE BY 50K TO 70K AND REDUCED ROTARY TORQUE BY 40-80 AMP.
	-
	-
	-
	-
	-

Remarks: OPERATIONS AT 0600 HRS: RUNNING IN HOLE WITH FIRST SUITE OF LOGS.

DELTA = 38 DAYS

Safety Meeting Topic: WHY SAFETY MEETINGS, DAILY OPERATIONS

NO MMS PERSONNEL ON BOARD TODAY.

Accidents: NAR

Daily Mud:

Cum Mud:

Drill Water: 3475	Potable Water: 309	Fuel: 534	Bulk Weights: 1063	Cement> Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 06, 1994		

Chevron

Drilling Activity Report

Measured Depth: 11658	TVD: 8007	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233							
DOL: 19	DFS: 0	Spud Date: / /	Daily Footage: 340	Daily Rot Hrs: 12.5	Total Rot Hrs: 80.0						
Torque: 31000	Drag: 160	Rot Weight: 250	P/U Weight: 410	Slack Off Weight: 190	Wind:	Seas:	Bar:	POB: 67			
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y							
Cum Rot Hrs On Casing: 80.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0								
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD							
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 9.0	FV: 41	PV: 8	YP: 31	Gel: 10/ 13				
WL API: 12.4	WLHP: 0.0	FC(1/32) API: 1	HTHP:	Solids: 3.75	% Oil: 0.0	% Water: 96.3	% Sand: 0.10	MBT: 7.00	pH: 9.5		
Pm: 0.35	Pf/Mf: 0.10/ 0.70	Carb:	Cl: 20000	Ca: 160	Bent: 2.97	Solids % HG/LG: 0.00/ 3.75	% DS/Bent: 3.43/ 0.32				

Drlg Gas: 57	Max Gas: 93	Conn Gas: 0	Trip Gas:	Trip Cl:	Remarks: CARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
4	5-2-7	8.500	SMITH	KX8035	MF27DL	13/13/13/	0.389	10825	11658	8007

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	Pull	Cost/Ft
833	33.0	25	250	3	7	BT	H	F	1/4	RG	BHA	96.49

Total Length Of BHA: 1022.42 BHA Description: BIT #4, NAVI-DRIL AKO W/0.9 DEGREES, FS, NORTRAK MWD, XO, MONEL, XO, MWD, MONEL, 1-HWDP, JARS, 28 JTS HWDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
4	6.50/6.50/0.00	11/11/ 0	85/ 0/ 0	2400	383	317	165	313	180	3.2	536
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
11306	34.90	N 85.00W	7706	4377.03N	5699.65W	6457.87	1.45
11400	32.50	N 85.00W	7783	4381.57N	5751.61W	6509.69	2.55
11493	30.80	N 85.70W	7863	4385.54N	5800.24W	6558.13	1.87
11588	28.00	N 85.00W	7945	4389.30N	5846.72W	6604.63	2.97

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
12.50	0000-1230	DRILL AND MWD SURVEY 8 1/2" HOLE WITH STEERABLE BHA FROM 11,318' TO 11,658'. BIT TORQUING UP.
2.00	1230-1430	CIRCULATE BOTTOMS UP. PUMP DRY JOB.
5.00	1430-1930	POOH WITH STEERABLE BHA. LAY DOWN MWD MOTOR.
1.00	1930-2030	PULL WEAR BUSHING AND SET TEST PLUG.
3.50	2030-2400	TESTING BOPE W/4 1/2" DP FROM FLOOR STATION. TEST ALL COMPONENTS TO 300 AND 3500 PSI USING WATER.

MINERALS MANAGEMENT SERVICE
MAY - 6 1994
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SANTA MARIA DISTRICT

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To D Knowlson | From N Jonis / L Mathis
Co. MMS | Co. Chevron
Dept. Santa Maria | Phone # 805 658-4480 -4493
Fax # 925-8546 | Fax # 658-4405

PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0600 HRS: RIH WITH NEW BHA TO REAM MOTOR RUN AND FINISH WELL.

HLTA = 37 DAYS. SAFETY MEETING TOPIC: LIFEBOATS ROUSTABOUTS REFRESHED ON TONG USE.

ROY HOBBITT OF MMS ON BOARD TODAY.

Accidents: NAR

Daily Mud Cost:

Cum Mud Cost:

Drill Water: 3589	Potable Water: 315	Fuel: 534	Bulk Weight: 1063	Cement> Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (4RD) ST #1	Date: May 05, 1994		

Chevron

Drilling Activity Report

Measured Depth: 11318	TVD: 7714	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 18	DFS: 0	Spud Date: / /	Daily Footage: 493	Daily Rot Hrs: 20.5	Total Rot Hrs: 67.5				
Torque: 29000	Drag: 145	Rot Weight: 250	P/U Weight: 395	Slack Off Weight: 190	Wind:	Seas:	Bar:	POB: 72	
Last Casing Size: 9.625	Set At: 9520 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 68.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 8.9	FV: 40	PV: 7	YP: 31	Gel: 11/ 14		
WL API: 11.8 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 97.0	% Sand: 0.10	MBT: 6.00	pH: 9.1		
Pm: 0.18	Pf/Mf: 0.05/ 0.60	Chrk:	Cl: 20000	Ca: 400	Bent: 2.90	Solids % HG/LG: 0.00/ 3.00	% DS/Bent: 2.70/ 0.30		

Drlg Gas: 28	Max Gas: 64	Conn Gas: 8	Trip Gas: 67	Trip Cl:	Remarks: GARRET GAS TRAIN: 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
4	5-2-7	8.500	SMITH	EX8035	MF27DL	13/13/13/	0.389	10825	0	0

Feet	Hours	WOB	RPM	T-Row	O-Row	DC	Loc	B	G	Char	7Pull	Cost/Ft
493	20.5	25	250									120.78

Total Length Of BHA: 1022.42 BHA Description: BIT #4, NAVI-DRIL AKO W/0.9 DEGREES, FS, NORTRAK MWD, XO, MONEL, XO, MWD, MONEL, 1-HWDP, JARS, 28 JTS HWDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
4	6.50/6.50/0.00	11/11/ 0	85/ 0/ 0	2300	383	317	165	343	180	3.2	514
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
10834	37.10	S 86.20W	7331	4352.51N	5413.75W	6172.82	3.53
10928	38.80	N 87.50W	7405	4351.92N	5471.49W	6229.28	4.50
11089	38.60	N 81.80W	7531	4361.74N	5571.63W	6329.37	1.74
11212	36.00	N 83.60W	7629	4371.60N	5645.41W	6403.63	2.44

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.50	0000-0230 FINISH RIH W/8 1/2" STEERABLE BHA AND BIT #4 TO 10,825'.
15.50	0230-1800 ORIENT MUD MOTOR. DRILL AND MWD SURVEY IN ORIENTED MODE FROM 10,825' TO 11,135'.
2.00	1800-2000 DRILL IN ROTARY MODE FROM 11,135' TO 11,187'.
1.00	2000-2100 CIRCULATE AND MAKE 5 STAND WIPER TRIP TO 10,825'. 395K UP AND 190K DOWN.
3.00	2100-2400 DRILL AND MWD SURVEY, IN ROTARY MODE FROM 11,187' TO 11,315' AT MIDNITE.

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To D. Knowlson	From N Jones/L Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805 658-4450
Fax # 925-8546	Fax # 658-4405

PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0530 HRS: DRILLING AHEAD AT 11,472'.

NLTA = 56 (CORRECTED) DAYS SAFETY MEETING TOPIC: LIFTING DRUMS

NO MMS PERSONNEL ON BOARD TODAY DUE TO FOG.

XRAIG GWIN-ROUSTABOUT, PINCHED MIDDLE FINGER OF LEFT HAND ON PIPE TONGS ON 5/3/94. REPORTED 24HRS LATE. Accidents: ONE

Da[illegible]

CD

Drill Water: 3509	Potable Water: 315	Fuel: 534	Bulk Weights: 1063	Cement: Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 04, 1994		

MINERALS MANAGEMENT SERVICE
MAY - 5 1994
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SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 10825	TVD: 7322	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 17	DFS: 0	Spud Date: / /	Daily Footage: 157	Daily Rot Hrs: 3.5	Total Rot Hrs: 47.0				
Torque: 29000	Drag: 140	Rot Weight: 240	P/U Weight: 380	Slack Off Weight: 185	Wind:	Seas:	Bar:	POB: 72	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): y					
Cum Rot Hrs On Casing: 47.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 8.8	FV: 38	PV: 8	YP: 28	Gel: 10/ 13		
WL API: 12.5 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 2.25	% Oil: 0.0	% Water: 97.7	% Sand: 0.10	MBT: 5.00	PH: 9.4		
Pm: 0.30	Pf/Mf: 0.10/ 0.60	Carb:	Cl: 19500	Ca: 400	Bent: 2.80	Solids % HG/LG: 0.00/ 2.25	% DS/Bent: 1.95/ 0.30		

Drlg Gas: 30	Max Gas: 60	Conn Gas: 8	Trip Gas: 22	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
3	5-1-7	8.500	REED	HW2244	HP51A	13/13/13/	0.389	10668	10825	7322

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
157	3.5	35	100	1	1	NO	A	E	IN	NO	BHA	198.81

Total Length Of BHA: 1022.42 BHA Description: BIT #4, NAVI-DRIL AKO W/0.9 DEGREES, FS, NORTRAK MWD, XO, MONEL,

XO, MWD, MONEL, 1-HWDP, JARS, 28 JTS HWDP

Hrs On Jars: 77.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
3	6.50/6.50/0.00	11/11/ 0	95/ 0/ 0	2500	428	354	185	350	245	4.3	624
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
10651	42.70	S 89.00W	7191	4358.39N	5296.07W	6058.67	1.19
10743	40.30	S 86.60W	7260	4356.08N	5356.97W	6117.89	3.13

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.50	0000-0130 FINISH MAKING UP ROTARY DROP BHA. RIH W/BHA. P/U 9 ADDITIONAL JTS OF HWDP.
1.00	0130-0230 SERVICE TOP DRIVE UNIT.
4.50	0230-0700 RIH TO 9 5/8" CASING SHOE, PICKING UP 33 JTS OF 4 1/2" G-105 DRILL PIPE.
1.00	0700-0800 SERVICE DRILLING LINE.
1.00	0800-0900 FINISH RIH TO 10,042'.
1.50	0900-1030 TURBINE POWER DOWN. STANDBY FOR POWER.
1.00	1030-1130 REAM MUD MOTOR RUN FROM 10,042' TO 10,668'.
3.50	1130-1500 ROTARY DRILL 8 1/2" HOLE FROM 10,668' TO 10,825'. BHA DROPPING ANGLE TOO FAST PLUS TURNING AWAY FROM COURSE.
1.00	1500-1600 CIRCULATE. MUD IN = MUD OUT AT 8.8 PPG. PUMP DRY JOB.
4.50	1600-2030 POOH, TO PICK UP STEERABLE DRILLING BHA.
2.00	2030-2230 LAY DOWN ROTARY BHA. MAKE UP STEERABLE BHA.
1.50	2230-2400 RIH AT MIDNITE.
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PROPRIETARY/CONFIDENTIAL INFORMATION

MINERALS MANAGEMENT SERVICE
MAY - 4 1994
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SANTA MARIA DISTRICT

Remarks: OPERATIONS AT 0500 HRS: DIRECTIONALLY DRILLING AHEAD AT 10,900'

NLTA = 48 DAYS SAFETY MEETING TOPIC: HAND SIGNALS.

MMS PERSONNEL ON BOARD: NONE

Accidents: NAR

Drill Water: 3546	Potable Water: 316	Fuel: 600	Bulk Weight: 1043	Cement> Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (68D) ST #1	Date: May 03, 1994		

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
SANTA MARIA DISTRICT OFFICE
222 W. CARMEN LANE, SUITE 201
SANTA MARIA, CA 93454

PROPRIETARY DATA

MINERALS MANAGEMENT SERVICE
MAY - 5 1994
RECEIVED
SANTA MARIA DISTRICT

Date: 05-03-94

Memorandum

To: Regional Supervisor, Office of Development, Operations, and Safety
Attention: Freddie Mason

From: District Supervisor, Santa Maria District

Subject: Transmittal of Well Data/Information

Attached are Daily Activity Reports for Chevron, Lease P-0450, Well C-11(6RD), From 04-25-94 to 05-02-94 2 copies of each.

Please sign below to verify your receipt, and return a copy of this memorandum to our office.

By: Dale Roberts For: Phillip R. Schroeder

Received By: Freddie Mason Date: 5/3/94

FORMS(C) WELLDATA

Chevron

Drilling Activity Report

Measured Depth: 10668	TVD: 7204	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 16	DFS: 0	Spud Date: / /	Daily Footage: 385	Daily Rot Hrs: 17.5	Total Rot Hrs: 43.5				
Torque: 30000	Press: 140	Rot Weight: 240	P/U Weight: 380	Slack Off Weight: 180	Wind:	Seas:	Bar:	POB: 73	
Last Casing Size: 9.625	Set At: 9830 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 43.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 8.7	FV: 41	PV: 8	YP: 29	Gel: 11/ 16		
WL API: 10.5	HTHP: 0.0	FC(1/32) API: 1	HTHP:	Solids: 1.50	% Oil: 0.0	% Water: 98.5	% Sand: 0.10	MBT: 2.50	pH: 8.6
Pm: 0.00	Pf/Mf: 0.05/ 0.50	Carb:	Cl: 20000	Ca: 1400	Bent: 0.62	Solids % HG/LG: 0.00/ 1.50		% DS/Bent: 1.30/ 0.20	

Drlg Gas: 12	Max Gas : 32	Conn Gas: 0	Trip Gas: 14	Trip Ct:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
2	5-1-7	8.500	HTC	545BB	ATM22G	14/14/14/	0.451	9820	10668	7204

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
848	43.5	20	180	6	8	BT	N	S	IN	CT	YES	110.51

Total Length Of BHA: 958.73 BHA Description: BIT #2, NAVI DRILL AKO .9, FLOAT SUB, 8" NORTRAK STAB, X-O,

MONEL DC, NM X-O, MWD, NM X-O, MONEL DC, 6-6-1/2" DC'S, 1-JT HW DP, JARS & 19-JTS HW DP

Hrs On Jars: 73.0 | Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
2	6.50/6.50/0.00	11/11/ 0	85/ 0/ 0	2200	383	273	165	313	129	2.3	492
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
10375	38.80	N 80.10W	6985	4349.34N	5112.94W	5877.42	5.37
10470	42.20	N 86.40W	7057	4356.47N	5174.15W	5938.82	5.60
10565	42.30	N 89.60W	7128	4358.70N	5237.97W	6001.80	2.27

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
17.50	0000-1730 SLIDE AND ROTARY DRILL 8 1/2" HOLE & MWD SURVEY W/STEERABLE MUD MOTOR FROM 10,283' TO 10,668', BIT TORQUING UP.
1.00	1730-1830 CIRCULATE BOTTOMS UP, PUMP DRY JOB.
5.50	1830-2400 POOH TO CHANGE BIT AND BHA, WILL RIH WITH ROTARY DROPPING BHA.
	-
	- ADDED TECH MUD LUBRICANT 2 LBS PER BBL & OBSERVED 2500 FT LBS REDUCTION IN TORQUE & 15,000 LB REDUCTION IN DRAG.
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Remarks: OPERATIONS AT 0600 HRS: RIH TO 9 5/8" SHOE. SERVICING DRILLING LINE.

ALLEN ADAMS WITH MMS COLLECTED SAMPLES OF SEAWATER POLYMER MUD FOR UCSB STUDY.

MLTA = 47 DAYS SAFETY MEETING TOPIC: WIREROPE AND NYLON STRAPS

MMS PERSONNEL ON BOARD TODAY - SAMPLE CATCHER ALLEN ADAMS. Accidents: NONE

Daily: Drill Well Days: Less Non-Prod:

Cum:

Drill Water: 3500	Potable Water: 316	Fuel: 625	Bulk Weight: 1063	Cement: Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (ORD) ST #1	Date: May 02, 1994		

MINERALS MANAGEMENT SERVICE
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SANTA MARIA DISTRICT
PROPRIETARY/CONFIDENTIAL INFORMATION

Chevron

Drilling Activity Report

Measured Depth: 10283	TVD: 6913	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 15	DFS: 0	Spud Date: / /	Daily Footage: 453	Daily Rot Hrs: 22.5	Total Rot Hrs: 26.0				
Torque: 30000	Drag: 140	Rot Weight: 230	P/U Weight: 370	Slack Off Weight: 180	Wind:	Seas:	Bar:	POB: 66	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 38.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					

Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 8.7	FV: 39	PV: 7	YP: 23	Gel: 7/ 10		
WL API: 12.4 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 2.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.10	MBT: 0.00	PM: 9.1		
Pm: 0.10	Pf/Mf: 0.05/ 0.60	Carb:	Cl: 20000	Ca: 2200	Gent: 0.00	Solids % HS/LS: 0.00/ 2.00	% DS/Bent: 0.50/ 0.00		

Drlg Gas: 73 Max Gas: 35 Conn Gas: 0 Trip Gas: 14 Trip Cl: Remarks: WIPER TRIP GAS 14 UNITS

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
2	5-1-7	8.500	HTC	5450B	ATM22G	14/14/14/	0.451	9820	0	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
463	26.0	20	980									139.41

Total Length Of BHA: 936.73 BHA Description: BIT #2, NAVI DRILL AKO .9, FLOAT SUB, 8" NORTRAK STAB, X-O, MONEL DC, NM X-O, MWD, NM X-O, MONEL DC, 6-6-1/2" DC'S, 1-JT NM DP, JARS & 19-JTS HW DP

Hrs On Jars: 56.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
2	6.50/6.50/0.00	11/11/ 0	84/ 0/ 0	1900	378	270	163	309	124	2.2	419
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
10004	48.00	N 55.50W	6710	4252.58N	4856.77W	5636.49	4.54
10094	44.60	N 60.40W	6772	4287.15N	4941.83W	5697.34	5.45
10188	41.20	N 60.10W	6841	4315.02N	4999.31W	5759.22	6.64
10282	39.60	N 72.30W	6912	4335.68N	5056.59W	5819.47	3.36

Hrs	(From To) Operations Covering 24 Hours Ending At Midnight
9.00	0000-0900 TIME DRILL 8-1/2" HOLE WITH PENETRATION RATE GRADUALLY INCREASING FROM 2.5 TO 10 FT PER HR FROM 9830' TO 9880'
	- TO ENSURE KICKOFF FROM ABANDONED WELL BORE. MONITOR CUTTINGS & OBSERVED PERCENTAGE OF FORMATION CUTTINGS
	- INCRESING FROM .5 TO 75%.
12.50	0900-2130 DIRECTIONALLY DRILL & SURVEY 8-1/2" HOLE WITH STEERABLE BHA FROM 9880' TO 10,257'. CHANGE OVER FROM FW/GEL MUD
	- TO SW/POLYMER MUD SYSTEM @9900'. COLLECT MUD SAMPLES FOR BIOASSAY TESTING.
0.50	2130-2200 CIRCULATE FOR WIPER TRIP.
1.00	2200-2300 PULL UP TO CSG SHOE. NO EXCESSIVE DRAG. SERVICE TOP DRIVE & RUN BACK IN HOLE.
1.00	2300-2400 DIRECTIONALLY DRILL & SURVEY 8-1/2" HOLE WITH STEERABLE BHA FROM 10,257' TO 10,283'.
	"
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	"
	- 0600 HRS: DRILLING 8-1/2" HOLE AT 10,473'.
	"

Remarks: NLTA FOR 46 DAYS. TOURLY SAFETY MEETINGS - DISCUSSED DAILY OPERATIONS & NYLON SLING USAGE.

Accidents: NONE

Daily $:

Cum $:

Drill Water: 3423	Potable Water: 316	Fuel: 903	Bulk Weights: 1100	Cement: Neat: 1020	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #65	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR			
Field: POINT ARGUELLO	Lease: OCS-P-0650	Well #: C-11 (SBD) ST #1	Date: May 01, 1994			

MINERALS MANAGEMENT SERVICE
MAY 2 - 1994
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SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 9830	TVD: 6601	PBTD: 9830			Proposed MD: 11978		Proposed TVD: 8233				
DOL: 14	DFS: 0	Spud Date: / /		Daily Footage: 10		Daily Rot Hrs: 3.5		Total Rot Hrs: 3.5			
Torque: 20000	Drag: 120	Rot Weight: 220	P/U Weight: 340		Slack Off Weight: 180	Wind:		Seas:		Bar:	POB: 67
Last Casing Size: 9.625		Set At: 9820 MD		6595 TVD			Shoe Test: 15.0 EMW			Leakoff? (Y/N): Y	
Cum Rot Hrs On Casing: 33.0		Cum Rot Hrs On Casing Since Last Caliper : 0.0				Depth Worst Wear : 0			% Remaining: 0.0		
Liner Size: 7.000		Set At: 0 MD		0 TVD			Liner Top At: 0 MD			0 TVD	
Mud Company: PROFCO	Type: FRESHWATER POLYMER			Sample From: PIT	Wt: 8.7	FV: 40	PV: 11	YP: 10	Gel: 12/ 32		
WL API: 17.0 HTHP: 0.0	FC(1/32) API: 3 HTHP:		Solids: 3.00	% Oil: 0.0	% Water: 97.0	% Sand: 0.00	MBT: 26.00	pH: 10.1			
Pm: 0.20	Pf/Mf: 0.15/ 0.60	Carb:	Cl: 3100	Ca: 80	Gent: 26.00	Solids % HG/LG: 0.25/ 2.50		% OS/Bent: 0.00/ 2.25			

Drlg Gas: 0	Max Gas : 0	Conn Gas: 0	Trip Gas: 0	Trip Cl: 0	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
1	1-3-7	8.500	REED	HJ2055	HP13-G	16/16/16/	0.589	9820	9820	0
2	5-1-7	8.500	HTC	5458B	ATM22G	14/14/14/	0.451	9820	0	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	0.0	20	120	1	1	WO		1	1	NO	BHA	0.00
10	3.5	3	180									2800.50

Total Length Of BHA: 930.73 BHA Description: BIT #2, NAVI DRILL AKO .9, FLOAT SUB, 8" NORTRAK STAB, X-O,

MONEL DC, NM X-O, MWD, NM X-O, MONEL DC, 6-6-1/2" DC'S, 1-JT HW DP, JARS & 19-JTS HW DP

Hrs On Jars: 33.0 | Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
1	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2550	495	270	214	404	165	2.9	736
2	6.50/6.50/0.00	11/11/ 0	40/ 40/ 0	2050	360	257	155	294	108	1.9	431

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
1.00	0000-0100	CONTINUE LAY DOWN TOTAL OF 332-JTS 9.3# L-80 HYDRILL 501 TBG FROM DERRICK. USED RIG TONGS TO BREAK OUT JOINTS
	-	UNABLE TO BREAK W/ HYDROLIC TONGS.
0.50	0100-0130	R/D TBG TONGS. MOVE 25-STDS 3-1/2" DP IN DERRICK.
1.00	0130-0230	PICK UP 8-1/2" BIT. RIH W/ BHA.
3.50	0230-0600	RIH TAG CMT @ 9656
2.50	0600-0830	DRILL 164' HARD CMT. POLISH OFF KICK-OFF PLUG DOWN TO 9820'.
1.50	0830-1000	CIRC HOLE CLEAN @ 9820'.
4.00	1000-1400	POOH W/ BIT #1.
3.00	1400-1700	P/U BIT #2, 8-1/2" STEERABLE BHA & 20-JTS HWDP. TEST NAVI DRILL & MWD.
3.50	1700-2030	RIH TAG KICK-OFF PLUG @ 9820'.
3.50	2030-2400	TIME DRILL @ 2.5 FPH FROM 9820-30'. SAMPLES @ 9830' MUD .5% FORMATION.
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Remarks: MLTA= 45 DAYS SAFETY MEETING TOPIC: ELECTRICAL SAFETY

OPERATIONS @ 0500 HRS: DRILLING @ 9845' 10% FORMATION

MMS ON BOARD BOB MINE APPROVED OPERATIONS 4/30/94

Accidents: NONE

Bar

0

Drill Water: 3165	Potable Water: 315	Fuel: 670	Bulk Weight: 1100	Cement: Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522		Drilling Rep: PICCIOTTI/SALAZAR	
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1		Date: Apr 30, 1994	

MINERALS MANAGEMENT SERVICE
MAY 2 - 1994
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SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 9820	TVD: 6595	PBTD: 9820	Proposed MD: 11970	Proposed TVD: 8233					
DOL: 13	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:				
Torque: 0	Drag: 100	Rot Weight: 220	P/U Weight: 320	Slack Off Weight: 250	Wind:	Seas:	Bar:	POB: 67	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 27.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: FRESHWATER POLYMER	Sample From: PIT	WT: 8.8	FV: 37	PV: 12	YP: 5	Gel: 1/ 10		
WL API: 14.8 HTHP: 0.0	FC(1/32) API: 2 HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 30.00	pH: 10.1		
Pm: 0.20	Pf/Mf: 0.15/ 0.60	Carb:	Cl: 5100	Ca: 80	Bent: 30.00	Solids % HG/LG: 0.00/ 2.60	% OS/Bent: 0.00/ 2.60		

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: 27.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
3.50	0000-0330 CONTINUE RIH W/ MULE SHOE, 4-STDS 3-1/2" TBG & 4-1/2" DRILL PIPE. TAG AT 9870'. BREAK CIRC AND ATTEMPT TO WORK
	- MULE SHOE & 3-1/2" TBG INTO BOTTOM OF WINDOW IN 9-5/8" CASING @ 9870'. COULD NOT GET TBG STINGER PAST 9870'.
	- RECIEVED VERBAL APPROVAL FROM DAN KNOWLSON W/ MMS TO SET KICK-OFF PLUG FROM 9870'.
1.50	0330-0500 PUMP HIGH VIS SWEEP. CIRC AND CONDITION HOLE FOR CMTING.
1.00	0500-0600 R/U BJ SERVICES TEST LINES TO 3000 PSI. W/ EOT @ 9870' PUMP 20 BBLS FW AHEAD. M & P 134 F3 (139 SX) CLASS "G"
	- CMT W/ 1.2% CD-32. SPOT BALLANCED PLUG FROM 9870-9628'. DISPLACE W/ 5 BBLS FW & 114 BBLS MUD.
2.00	0600-0800 PULL 3-STDS DP. REVERSE CIRC 2 DP VOLUMES. CIRC TRACE OF CMT W/ CONTAMINATED MUD.
3.00	0800-1100 POOH W/ 4-1/2" DP.
1.50	1100-1230 R/U TO LAY DOWN 3-1/2" TBG. MOVE 25-STDS 3-1/2" DP IN DERRICK.
11.50	1230-2400 LAY DOWN 3-1/2" L-80 9.3# HYDRIL 501 TBG FROM DERRICK. USE RIG TONGS TO BREAK OUT JOINTS DUE TO EXCESSIVE
	- TORQUE & UNABLE TO BREAK W/ HYDRAULIC TONGS.
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Remarks: MLTA= 44 DAYS SAFETY MEETING TOPIC: ELECTRICAL SAFETY

OPERATIONS @ 0500 HRS: RIH W/ BIT TO POLISH OFF KICK-OFF PLUG

RECIEVED VERBAL APPROVAL FROM DAN KNOWLSON TO SET KICK-OFF PLUG FROM 9870'

Accidents: NONE

Daily Cumulative Costs: Daily Well Costs: AFE Number:

Cum

Drill Water: 3248	Potable Water: 252	Fuel: 670	Bulk Weight: 480	Cement> Neat: 568	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 656-4522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 29, 1994		

MINERALS MANAGEMENT SERVICE
MAY 2 - 1994
RECEIVED
SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 12674	TVD: 8234	PBTD: 9942				Proposed MD: 11978		Proposed TVD: 8255			
DOL: 12	DFS: 0	Spud Date: / /		Daily Footage: 0		Daily Rot Hrs: 1.0		Total Rot Hrs: 27.0			
Torque: 26276	Drag: 130	Rot Weight: 220	P/U Weight: 350	Slack Off Weight: 170		Wind:	Seas:	Bar:	PDB: 65		
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD				Shoe Test: 0.0 EMW		Leakoff? (Y/N):			
Cum Rot Hrs On Casing: 27.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0					Depth Worst Wear : 0		% Remaining: 0.0			
Liner Size: 7.000	Set At: 12670 MD	8232 TVD				Liner Top At: 10133 MD		0 TVD			
Mud Company: PROFCO	Type: FRESHWATER POLYMER				Sample From: PIT	Wt: 8.7	FV: 40	PV: 14	YP: 6	Gel: 2/ 12	
WL API: 17.0 HTHP: 0.0	FC(1/32) API: 3 HTHP:		Solids: 3.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 26.00	PM: 10.3			
Pm: 0.50	Pf/Mf: 0.20/ 0.40	Carb:	Cl: 3000	Ca: 80	Hard: 26.00	Solids % HG/LG: 0.00/ 2.50		% OS/Barr: 0.00/ 2.50			

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
0		14.000			U2 HO	/ / /	1.000	9820	9870	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	2Pull	Cost/Ft
50	19.0	6	60									0.00

Total Length Of BHA: 223.77 BHA Description: HOLE OPENER, BIT SUB, FLOAT SUB, 6-6-1/2" DC'S & JARS

Hrs On Jars: 27.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
0	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2700	521	168	73	83	67	0.4	821
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
0.50	0000-0030 CONTINUE POOH W/ SECTION MILL. MILL WAS 95% USED.
5.50	0030-0600 INSTALL TEST PLUG. TEST CLASS IV BOPE TO 300 PSI & 3500 PSI. TESTED FROM PIPE RACK REMOTE & FUNCTION TESTED
	- FROM RIG FLOOR. PULL TEST PLUG FUNCTION TEST BLIND RAMS.
4.00	0600-1000 RIH W/ 8-1/2" BY 14" UNDERREAMER HOLE OPENER & 20 STDS. ATTEMPT TO BREAK CIRC - TOOL PLUGGED. POOH. FOUND 1"
	- ORIFICE ON HOLE OPENER PLUGGED OFF W/ METAL SHAVINGS. CLEAN OUT METAL SHAVINGS FROM TOOL.
3.50	1000-1330 RIH W/ 8-1/2" BY 14" UNDERREAMER HOLE OPENER. BREAK CIRC EVERY 10 STANDS.SECTION FROM 9820-70'
1.00	1330-1430 UNDEARREAM WINDOW TO 14" FROM 9820' TO 9870'.
2.00	1430-1630 PUMP HIGH VIS SWEEP. CIRC AND CONDITION HOLE FOR TRIP. RECOVERED METAL SHAVINGS & FORMATION AT SHAKER.
5.50	1630-2200 POOH W/ 14" HOLE OPENER.
2.00	2200-2400 RIH W/ MULE SHOE, 4-STANDS 3-1/2" TBG & 4-1/2" DP.
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PROPRIETARY/CONFIDENTIAL INFORMATION

RECEIVED SANTA MARIA DISTRICT
MINERALS MANAGEMENT SERVICE
APR 29 1994

Remarks: MLTA= 43 DAYS SAFETY MEETING TOPIC: GRINDERS

OPERATIONS @ 0600 HRS: SPOT CMT KICK OFF PLUG

NOTIFIED MIKE MITCHELL W/ MMS & JEROMIE JOHNSTON W/ EPA OF FINAL MUD DUMP OF FW GEL SYSTEM USED FOR SECTION MILLING

Accidents: NONE

Daily Mud Cost:									155
Cum Mud Costs:									938
Drill Water: 3415	Potable Water: 316	Fuel: 687	Bulk Weight: 550	Cement: Neat: 708	Blended: 0				
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR						
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SRD) ST #1	Date: Apr 28, 1994						

Chevron

Drilling Activity Report

Measured Depth: 12674	TVD: 8234	PBTD: 9942				Proposed MD: 11978		Proposed TVD: 8233	
ROL: 11	DFS: 0	Spud Date: / /		Daily Footage: 18		Daily Rot Hrs: 8.0		Total Rot Hrs: 26.0	
Torque: 26276	Drag: 130	Rot Weight: 220	P/U Weight: 350	Slack Off Weight: 170		Mimds:	Seals:	Bar:	PDB: 62
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD				Shoe Test: 0.0 EMW		Leakoff? (Y/N):	
Cum Rot Hrs On Casing: 26.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0					Depth Worst Wear: 0		% Remaining: 0.0	
Liner Size: 7.000	Set At: 12670 MD	8232 TVD				Liner Top At: 10153 MD		0 TVD	
Mud Company: PROFCO	Type: FRESHWATER POLYMER				Sample From: PIT	Wt: 8.7	FV: 62	PV: 13	YP: 16	Gel: 3/ 42
WL API: 16.0 HTHP: 0.0	FC(1/32) API: 3 HTHP:		Solids: 3.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 28.00	pH: 9.5		
Pm: 0.25	Pf/Mf: 0.15/ 0.65	Carb:	Cl: 3500	Ca: 80	Bent: 28.00	Solids % HG/LG: 0.00/ 2.50		% DS/Bent: 0.00/ 2.50	

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
0		8.500			MILL	/ / /	1.000	9852	9870	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
18	8.0	5	110									0.00

Total Length Of BHA: 229.00 BHA Description: SECTION MILL, BIT SUB, 6-6-1/2" DC'S & JARS

Hrs On Jars: 26.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
0	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2700	521	168	246	426	67	1.2	821
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
3.00	0000-0300 CONTINUE POH W/ SECTION MILL. CHANGE OUT SECTION MILL. FUNCTION TEST BLIND RAMS.
0.50	0300-0330 RIH W/ BHA & 10-stds 4-1/2" DP.
1.00	0330-0430 SLIP & CUT 104' DRILLING LINE.
4.00	0430-0830 RIH W/ SECTION MILL. BREAK CIRC REAM OPEN HOLE SECTION FROM 9820-52'.
8.00	0830-1630 SECTION MILL WINDOW IN 9-5/8" 43.5# CASING FROM 9852-70'. SWEEP HOLE @ 5' INTERVALS W/ LOST CIRC MATERIAL TO
	" CLEAN HOLE. RECOVERED LARGE AMOUNTS OF METAL SHAVINGS W/ CMT & FORMATION CUTTINGS WHILE MILLING. (50' WINDOW)
2.00	1630-1830 PUMP HIGH VIS SWEEP. CIRC AND CONDITION FOR TRIP.
5.50	1830-2400 POH W/ SECTION MILL.
	"
	" RECIEVED VARIANCE FROM DALE ROBERTS W/ MMS TO TEST BOP AFTER TRIP OUT OF HOLE W/ SECTION MILL.
	"

MINERALS MANAGEMENT SERVICE
APR 28 1994
RECEIVED
SANTA MARIA DISTRICT

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To D. Knowlson	From N Jones / L Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805 658-4450 658-4453
Fax # 925-8576	Fax # 658-4405

PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: MLTA= 42 DAYS SAFETY MEETING TOPIC: H2S SAFETY

OPERATIONS @ 0500 HRS: TESTING BOP

SECTION MILL (#1) PULLED WAS 80% USED SECTION MILL (#2) PULLED WAS 85% USED

MMS ON BOARD ROY ROBBITT APPROVED OPERATIONS 4/27/94 Accidents: NONE

Gal

Cur

Drill Water: 3798	Potable Water: 315	Fuel: 688	Bulk Weight: 550	Cement> Neat: 700	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522		Drilling Rep: PECCIOTTI/SALAZAR	
Field: POINT ARGUELLO	Lease: OCS-P-0450		Well #: C-11 (SBD) ST #1	Date: Apr 27, 1994	

Chevron

Drilling Activity Report

Measured Depth: 12674	TVD: 8236	PBTD: 9942	Proposed MD: 11978	Proposed TVD: 8233							
DOL: 10	DFS: 0	Spud Date: / /	Daily Footage: 29	Daily Rot Hrs: 16.0	Total Rot Hrs: 18.0						
Torque: 26276	Drag: 130	Rot Weight: 220	P/U Weight: 350	Slack Off Weight: 170	Wind:	Seas:	Bar:	POB: 61			
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):							
Cum Rot Hrs On Casing: 18.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0								
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD							
Mud Company: PROFDO	Type: FRESHWATER POLYMER	Sample From: PIT	Wt: 8.8	PV: 130	PV: 6	YP: 32	Gel: 20/211				
WL API: 16.8 HTHP: 0.0	FC(1/32) API: 5 HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 30.00	PM: 10.0				
PM: 0.84	Pf/Mf: 0.15/ 0.32	Carb:	Cl: 2100	Ca: 40	Hard: 29.00	Solids % HG/LG: 0.00/ 3.40	% DS/Bent: 0.00/ 3.29				

Drlg Gas: 0 | Max Gas: 0 | Conn Gas: 0 | Trip Gas: | Trip Cl: | Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
0		8.500			MILL	/ / /	1.000	9820	9852	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	PPull	Cost/Ft
32	18.0	5	110									0.00

Total Length Of BHA: 221.47 BHA Description: SECTION MILL, BIT SUB, 6-6-1/2" DC'S & JARS

Hrs On Jars: 18.0 | Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
0	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2700	521	168	246	426	67	1.2	821
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
16.00	0000-1600	CONTINUE TO SECTION MILL WINDOW IN 9-5/8" 43.5# CASING FROM 9823-52'. SWEEP HOLE AT 5' INTERVALS W/ LOST CIRC
	"	MATERIAL TO CLEAN HOLE AND REDUCE EXCESSIVE DRILL STRING TORQUE. BACK REAM OPEN HOLE SECTION TO REMOVE METAL
	"	SHAVINGS FROM SECTION MILL AND OPEN HOLE. MILL STOPPED CUTTING 9-5/8" CSG @ 9852'. RECOVERED LARGE AMOUNT OF
	"	METAL CUTTINGS W/ CMT & FORMATION CUTTINGS THROUGHT MILLING OPERATIONS.
2.00	1600-1800	PUMP HIGH VIS SWEEP. CIRC AND CONDITION HOLE FOR TRIP.
1.00	1800-1900	ATTEMPT TO POH HAD 70K DRAG UP W/ 26276 FT/LBS TORQUE WHILE PULLING SECTION MILL FROM 9852' TO 9800'.
2.00	1900-2100	PUMP HIGH VIS SWEEP. CIRC AND CONDITION HOLE FOR TRIP. CIRC SMALL AMOUNT OF CMT & METAL CUTTINGS W/ BOTTOMS UP.
3.00	2100-2400	START POH HAD 50-70K DRAG UP WHILE PULLING FIRST 5-STDS.
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PROPRIETARY/CONFIDENTIAL INFORMATION

MINERALS MANAGEMENT SERVICE
APR 28 1994
RECEIVED
SANTA MARIA DISTRICT

Remarks: NLTA= 41 DAYS SAFETY MEETING TOPIC: HANDLING CHEMICALS

OPERATIONS @ 0500 HRS: RIH W/ SECTION MILL TO CUT WINDOW

SECTION MILL PULLED WAS 80% USED

Accidents: NONE

Daily Mud Cost: | Daily Tangible Cost: | Daily Well Cost: | Last Bumped:

Cum Mud Cost:

Drill Water: 3798	Potable Water: 315	Fuel: 687	Bulk Weights: 550	Cement> Noor: 700	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL MAS	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 26, 1994		

Chevron

Drilling Activity Report

Measured Depth: 9942	TVD: 0	PBTD: 9942	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 9	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs: 2.0	Total Rot Hrs: 2.0				
Torque: 18086	Drag: 50	Rot Weight: 230	P/U Weight: 260	Slack Off Weight: 220	Wind:	Seas:	Bar:	POB: 62	
Last Casing Size: 9.625	Set At: 10536 MD	8990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD					
Mud Company: PROFCO	Type: FRESHWATER POLYMER	Sample From: PIT	Wt: 8.8	FV: 54	PV: 11	YP: 24	Gel: 23/ 30		
WL API: 18.0 HTHP: 0.0	FC(1/32) API: 2 HTHP:	Solids: 2.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 32.00	pH: 11.0		
Pm: 0.84	Pf/Mf: 0.39/ 0.58	Carb:	Cl: 850	Ca: 100	Bent: 32.00	Solids % HG/LG: 0.00/ 3.40	% DS/Bent: 0.00/ 3.47		

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
0		9.625				/ / /	1.000	9942	0	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	PPull	Cost/Ft
0	2.0	5	110									0.00

Total Length Of BHA: 221.47 BHA Description: SECTION MILL, BIT SUB, 6-6-1/2" DC'S & JARS

Hrs On Jars: 2.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
0	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2700	521	168	176	253	67	0.9	821
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
3.50	0000-0330	CONTINUE RIH W/ 7-3/8" OVERSHOT W/ 3-7/8" GRAPPLE. TAG TOF @ 8781' ENGAGE GRAPPLE ON FISH.
8.00	0330-1130	POH W/ OVERSHOT. LAY DOWN FISHING TOOLS RECOVERED 13-STANDS 3-1/2" HDG (1161'). TOF NOW @ 9942'.
4.50	1130-1600	RIH W/SECTION MILL, BIT SUB, 6-6-1/2" DC'S & JARS ON 4-1/2" DP. TAG @ 9942' PUH TO 9923' BREAK CIRC.
6.00	1600-2200	DISPLACE HOLE W/ FW MUD 8.8 PPG 100 VIS.
2.00	2200-2400	SECTION MILL WINDOW IN 9-5/8" CSG FROM 9825-23'.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: NLTA= 40 DAYS SAFETY MEETING TOPOIC: BASIC FIRST AID

OPERATIONS @ 0500 HRS: SECTION MILL WINDOW @ 9835'.

Accidents: NONE REP'D

Daily Mud:

Cum Mud:

Drill Water: 3461	Potable Water: 300	Fuel: 688	Bulk Weight: 580	Cement> Neat: 700	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-17 (6RD) ST #1	Date: Apr 25, 1994		

RECEIVED
APR 26 1994
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
PACIFIC OCS REGION
SANTA MARIA DISTRICT OFFICE
222 W. CARMEN LANE, SUITE 201
SANTA MARIA, CA 93454

PROPRIETARY DATA

Date: 04-25-94

Memorandum

To: Regional Supervisor, Office of Development, Operations, and Safety
Attention: Freddie Mason

From: District Supervisor, Santa Maria District

Subject: Transmittal of Well Data/Information

Attached are Daily Activity Reports for Chevron, Lease P-0450, Well C-11(6RD), From 04-17-94 to 04-24-94 2 copies of each.

Please sign below to verify your receipt, and return a copy of this memorandum to our office.

By: Dale Roberts For: Phillip R. Schroeder

Received By: Freddie Mason Date: 4-26-94

FORMS(C) WELLDATA

Chevron

Drilling Activity Report

Measured Depth: 9494	TVD: 0	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 8	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:				
Torque: 12000	Drag: 25	Rot Weight: 213	P/U Weight: 238	Slack Off Weight: 195	Wind:	Seas:	Bar:	POB: 65	
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	WT: 8.5	FV:	PV:	YP:	Gel: /		
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PM: 7.2		
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20000	Ca: 2900	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% Oil/Bent: 0.00/ 0.00		

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: 23.00 BHA Description: 7 3/8" OVERSHOT W/3 7/8" GRAPPLE AND MILL CONTROL, BUMPER SUB, JARS, XO, 4 1/2" DRILL PIPE.

Hrs On Jars: 0.0 | Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 POOH WITH 3 1/2" TBG. LEFT 22 2/3 STANDS, 2048', OF 3 1/2" TBG, AND OVERSHOT BHA #1 IN HOLE. TOP AT 7492'.
	- TBG TIGHT COMING OUT OF HOLE.
1.00	0200-0300 MAKE UP 5 3/4" OVERSHOT W/3 7/8" GRAPPLE, BUMPER SUB, AND JARS ON 4 1/2" DRILL PIPE.
3.00	0300-0600 RIH. TAG FISH AT 7492', WORK OVER SAME. P/U EXTRA 10K DRAG.
4.00	0600-1000 POOH. RECOVERED 14 2/3 STANDS, 1289', OF 3 1/2" TBG FISH. FOUND SOME DAMAGED PINS AND BOXES. STAND BACK TBG MOVE
0.50	1000-1030 3 1/2" OP AROUND IN DERRICK.
9.50	1030-2000 RIH W/5 3/4" OVERSHOT BHA #2 ON 4 1/2" DP. TAG TOP OF FISH AT 8781'. ATTEMPT TO WORK OVER TOP OF FISH. NO GOOD.
	- POOH. FOUND CUTLIP GUIDE FOLDED OVER.
2.50	2000-2230 SERVICE RIG AND CLEAN FLOOR AREA. LOCATE NEW OVERSHOT.
1.50	2230-2400 MAKE UP OVERSHOT BHA #3 W/7 3/8" OVERSHOT W/3 7/8" GRAPPLE AND MILL CONTROL, BUMPER SUB, AND JARS ON 4 1/2" DRIL
	- PIPE. RIH AT MIDNITE.
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	- NOTE: WORK OVER FISH AT 8781'. P/U EXTRA 12-15K DRAG. POOH.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0600 HRS: POOH W/FISH.

NLTA = 39 DAYS SAFETY MEETING TOPIC: GOOD HOUSEKEEPING

ROY BOBBITT ON BOARD TODAY.

Accidents: NAR

Daily M

Cum MW

Drill Water: 3618	Potable Water: 227	Fuel: 695	Bulk Weight: 580	Cement> Neat: 700	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SRD) ST #1	Date: Apr 24, 1994		

MINERALS MANAGEMENT SERVICE
APR 25 1994
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SANTA MARIA DISTRICT

Chevron — Drilling Activity Report

Measured Depth:	TVD:	PBTD:	Proposed MD: 11978	Proposed TVD: 8233		
DOL:	DFS:	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:	
Torque: 0	Drag: 0	Rot Weight: 0	P/U Weight: 0	Slack Off Weight: 0	Wind:	Seas:	Bar:	PDM:
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):		
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0			
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD		
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gel: /
WL API: 0.0 HTHP: 0.0	FC(1/32) API:	HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.2
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Corr:	Cl: 20000	Ca: 2900	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00	

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: 21.77 BHA Description: 5 3/4" OD OVERSHOT W/3 7/8" GRAPPLE, BUMPER SUB, BOWEN JARS, XO, XO, 4 1/2" DRILL PIPE.

Hrs On Jars: 0.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
5.50	0000-0530 RAN DIA-LOG FREEPOINT TOOLS ON SCHLMBGR WIRELINE. FOUND TBG FISH STUCK AT 9987',(TOOLS STOPPED AT 9987'),
	- PARTIALLY FREE AT 9965' AND FREE AT 9935'. POOH WITH FREE POINT.
4.50	0530-1000 RIH WITH 2 3/4" GUAGE RING. STOPPED AT 9350', 150' ABOVE TOP OF FISH'N TOOLS. POOH. RIH W/2 5/8" CHEMICAL CUTTER
	- CHEM CUTTER STOPPED AT 9350'. POOH W/ CUTTER.
0.50	1000-1030 WORK TORQUE INTO STRING TO TIGHTEN CONNECTIONS.
7.50	1030-1800 MAKE UP STRING SHOT AND RIH. ATTEMPT TO BACK OFF TBG AT 9943'. NO GOOD. MAKE 2ND ATTEMPT WITH SAME RESULTS.
3.00	1800-2100 MAKE UP THIRD STRING SHOT,(455 GRN) AND RIH TO 9943'. PULL TOOK OVER STRING WT AND ATTEMPT TO JUMP COLLAR. NO
	- GOOD. BEGIN WORKING STUCK TBG TO 135K OVER STRING WT AND ROTATING. PIPE PARTED AT 12K #/FT'S TORQUE.
3.00	2100-2400 POOH
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	- NOTE: TBG PARTED AT CONNECTION, LEAVING THE OVERSHOT BHA AND 22 2/3 ADDITIONAL STANDS,(2048') OF 3 1/2" TBG IN
	- THE HOLE. ESTIMATED TOP OF 2ND FISH AT 7446'.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0600 HRS: RIH W/5 3/4" OVERSHOT W/ 3 7/8" GRAPPLE, BUMPER SUB, JARS, ON 4 1/2" DRILL PIPE.

NLTA = 38 DAYS SAFETY MEETING TOPIC: OPEN TOPICS. GOOD HOUSE KEEPING AND EXPLOSIVES USE DISCUSSED.

NO MMS PERSONNAEL ON BOARD TODAY.

Accidents: NAR.

Drill Water: 0	Potable Water: 0	Fuel: 0	Bulk Weight: 0	Cement: Neat: 771	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 23, 1994		

MINERALS MANAGEMENT SERVICE
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SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 9493	TVD: 0	PBTD: 0				Proposed MD: 11978		Proposed TVD: 8233	
DOL: 6	DFS: 0	Spud Date: / /		Daily Footage: 0		Daily Rot Hrs:		Total Rot Hrs:	
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:		Wind:	Seas:	Bar:	POB: 69
Last Casing Size: 9.625		Set At: 10536 MD	6990 TVD			Shoe Test: 0.0 EMW		Leakoff? (Y/N):	
Cum Rot Hrs On Casing: 0.0		Cum Rot Hrs On Casing Since Last Caliper : 0.0				Depth Worst Wear : 0		% Remaining: 0.0	
Liner Size: 7.000		Set At: 12670 MD	8232 TVD			Liner Top At: 10133 MD		0 TVD	
Mud Company: PROFICO	Type: SEAWATER				Sample From: pit	Wt: 8.5	FV:	PV:	YP:	Gel: /
WL API: 0.0 HTHP: 0.0	FC(1/32) API:	HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.2	
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20000	Ca: 2900	Bent: 0.00	Solids % HS/LG: 0.00/ 0.00		% OS/Bent: 0.00/ 0.00	

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	MOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 POOH AFTER WORKING OUT OF CMT PLUG FROM 10,200'. LEFT 8 STDS, 707.3', OF 3 1/2" TBG IN HOLE. EST TOP AT 9493'.
1.00	0200-0300 SERVICE DRILLING LINE.
4.00	0300-0700 MAKE UP BIT SUB ON 4 1/2" DRILL PIPE. RIH AND LOCATE TOP OF FISH AT 9494'.
3.50	0700-1030 POOH WITH DRILL PIPE.
3.00	1030-1330 SERVICE RIG. LOCATE AND GATHER FISHING TOOLS.
7.00	1330-2030 MAKE UP 7 5/8" OVERSHOT W/3 7/8" GRAPPLE ON 3 1/2" TUBING. RIH AND TAG FISH.
0.50	2030-2100 BREAK CIRCULATION. TEST CASING AND CMT PLUG TO 2000 PSI FOR 15 MIN. OKAY.
2.00	2100-2300 WORK MILL AND GRAPPLE OVER TOP OF TBG FISH AT 9494'.
1.00	2300-2400 R/U DIA-LOG FREE POINT TOOLS ON SCHLUMBERGER WIRELINE AND RIH AT MIDNITE.
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	- NOTE: FOUND TUBING FISH FREE TO 9962'. OBSTRUCTION IN TBG AT 9987'. COULD NOT WORK DEEPER.
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MINERALS MANAGEMENT SERVICE
APR 25 1994
RECEIVED
SANTA MARIA DISTRICT

PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0600 HRS: MAKING DUMMY RUN WITH 2 3/4" GAUGE RING ON SCHLUMBER WIRELINE PRIOR TO RUNNING TBG JET CUTTER.

NLTA = 38 DAYS SAFETY MEETING TOPIC: HEARING PROTECTION

BOB NIME OF MMS WAS ON BOARD TODAY.

Accidents: NAR

Daily Mud Co							6155
Cum Mud Cost							4938
Drill Water: 3641	Potable Water: 310	Fuel: 695	Bulk Weight: 580	Cement> Neat: 771	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 22, 1994				

Chevron — Drilling Activity Report

Measured Depth: 12670	TVD: 8323	PBTD: 0			Proposed MD: 11978		Proposed TVD: 8233			
DOL: 5	DFS: 0	Spud Date: / /		Daily Footage: 0		Daily Rot Hrs:		Total Rot Hrs:		
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:		Wind:	Seas:	Bar:	PDB: 69	
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD			Shoe Test: 0.0 EMW		Leakoff? (Y/N):			
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0			Depth Worst Wear : 0		% Remaining: 0.0				
Liner Size: 7.000	Set At: 12670 MD	8232 TVD		Liner Top At: 10133 MD		0 TVD				
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gel: /			
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PH: 7.2			
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20000	Ca: 2900	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% DS/Bent: 0.00/ 0.00			

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP

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To	D. Knowlson	From	N. Johns / L. Phillips
Co.	MMS	Co.	Chevron
Dept.	Santa Maria	Phone #	805 658-4460 / 805 658-4493
Fax #	925-8576	Fax #	658-4405

Surv	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 FINISH CIRC GUY OIL TO PROD VESSEL V-9. POOH.
2.00	0200-0400 LAY DOWN FISHING TOOLS, PACKER FISH AND TAIL ASSEMBLY.
2.00	0400-0600 SET TEST PLUG. TEST PIPE RAMS, ANNULAR, AND 3 1/2" SURFACE EQUIPMENT FOR 3 1/2" DRILL PIPE. TEST TO 300 & 3500PSI
5.50	0600-1130 RIH W/11 STDS OE TBG STINGER ON 3 1/2" AND 4 1/2" DP. TAG BOTTOM AT 12,545', DPM.
4.00	1130-1530 CIRC WELL TO PROD VESSEL F/400 BBLS. CIRC REST OF BOTTOMS UP THRU CHOKE TO MUD PITS UNTIL CLEAN.
2.50	1530-1800 R/U B.J. THRU OETBG AT 12545', BALANCED 158 CF OF 15.8PPG CMT. PULL TO 11,888'. BALANCED 158 CF OF 15.8PPG CMT.
1.50	1800-1930 PULL TO 11,264'. BALANCED 107CF CMT TO PLUG 7" LINER TO 10,760'.
1.00	1930-2030 PIPE STUCK. PULLED FREE W/200K OVER STRING WT. WORK PIPE TO 10,200' W/150-200K DRAG. LOST 40K DRAG AT 10,200'.
1.00	2030-2130 PIPE FREE AT 10,200'. ROTATE AND CIRC AROUND GEL SWEEP AT 10,200'. HAD CMT TO SURFACE JUST PRIOR OF SWEEP.
2.50	2130-2400 POOH W/OEDP AT MIDNITE.
	-
	- NOTE: PARTED 3 1/2" TBG STINGER LEAVING 8 STANDS, 707.3' OVERALL, IN HOLE. ESTIMATED TOP OF FISH AT 9493'. TBG
	- PIN STRIPPED OUT OF BOX.
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Remarks: OPERATIONS AT 0600 HRS: RIH W/OPEN END DP TO LOCATE TOP OF FISH.

NLTA = 37 DAYS. SAFETY MEETING TOPIC: SAFETY EYE GLASSES.

BOB HIKE AND ROY BOBBITT OF MMS WERE ON BOARD 4-21-94.

Accidents: NAR.

Daily Mud Cost: Daily Tangible Cost: Daily Well Cost:

Cum Mud Cos

Drill Water: 2037	Potable Water: 288	Fuel: 696	Bulk Weight: 580	Cement> Neat: 771	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 21, 1994		

MINERALS MANAGEMENT SERVICE
APR 22 1994
RECEIVED
SANTA MARIA DISTRICT

PROPRIETARY/CONFIDENTIAL

Chevron

Drilling Activity Report

Measured Depth: 12670	TVD: 8232	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 4	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:				
Torque: 0	Drag: 0	Rot Weight: 0	P/U Weight: 0	Slack Off Weight: 0	Wind:	Seas:	Bar:	PCO: 69	
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper = 0.0	Depth Worst Wear = 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gel: /		
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.9		
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20500	Ca: 2900	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00		

Drlg Gas:	Max Gas =	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: 214.62 BHA Description: 7 5/8" OD OVERSHOT W/3 1/2" GRAPPLE, BUMPER SUB, BOWEN JARS, XO, 184' OF 6" DC'S, ACCELERATOR, DRILL PIPE.

Hrs On Jars: 0.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.50	0000-0130 CHANGE OUT 2 DAMAGED LOCK DOWN STUDS ON WELL HEAD.
6.00	0130-0730 TEST BOPE, USING WATER AND 4 1/2" DP TOOLS, TO 300 PSI AND 3500 PSI, FROM THE RIG FLOOR STATION. RETRIEVE TEST PLUG AND R/D BJ.
1.00	0730-0830 MOVE 3 1/2" DP IN DERRICK TO REACH 4 1/2" DP.
2.00	0830-1030 MAKE UP FISHING TOOLS AS ABOVE.
3.00	1030-1330 RIH TO TOP OF FISH AT 9969', DPM.
0.50	1330-1400 DRESS TOP OF TBG STUB THEN WORK OVERSHOT OVER FISH. SET JARS OFF 3 TIMES AND FREE PACKER.
4.00	1400-1800 POOH W/ FISH TO DC'S, WELL U-TUBING OIL UP BHA. INSTALL SAFETY VALVE. WELL DEAD ON ANNULUS.
1.00	1800-1900 R/U LINE FROM BHA TO TRIP TANK. MONITER WELL. U-TUBE 7 BBL OIL TO TRIP TANK.
1.00	1900-2000 R/U KELLY TO BHA AND CIRC 30 BBLS SEA WATER TO PROD VESSEL V-9.
1.00	2000-2100 BREAK KELLY AND R/U LINE BACK TO TRIP YANK AND MONITER WELL. STILL U-TBG BACK OIL AND AS BACK SIDE KEPT FULL
2.00	2100-2300 CLOSE SAFETY VALVE. R/D LINE TO TRIP TANK. INSTALL INSIDE BOPE. RIH TO 1630'. DISPLG OIL AND WATER TO TRIP TANK.
1.00	2300-2400 R/U AND CIRCULATE WELL TO PROD VESSEL V-9 TO CLEAN OUT TRAPPED OIL FROM BELOW PACKER.

PROPRIETARY/CONFIDENTIAL INFORMATION

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To D. Knowlson	From N Jones / L Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805-658-4480 -4423
Fax # 925-8536	Fax # 658-4405

Remarks: OPERATIONS AT 0600 HRS: RUNNING IN HOLE WITH 11 STD D

MLTA = 36 DAYS. SAFETY MEETING TOPIC: USE OF LADDERS.

BOB HIME AND ROY BONBIT OF MMS WAS ON BOARD 4-20-94

Accidents: NAR.

RECOVERED APPROX 50 BBLS OIL WHILE TRYING TO CLEAN UP ANNULUS BEFORE LAYING DOWN PACKER FISH.

Daily Mud Cost: 6155

Cum Mud Cost: 4938

Drill Water: 3460	Potable Water: 253	Fuel: 664	Bulk Weight: 580	Cement: Neat: 771	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (68D) ST #1	Date: Apr 20, 1994			

MINERALS MANAGEMENT SERVICE
APR 21 1994
RECEIVED
SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 12670	TVD: 8232	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 3	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:				
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:	Wind: 30	Seas: 12/4	Bar: 30.05	POB: 69	
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gel: /		
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PH: 7.9		
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20500	Ca: 2900	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% DS/Bent: 0.00/ 0.00		

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	7Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 ATTEMPT TO FREE STUCK PACKER AT 10,005' WITHOUT SUCCESS.
4.50	0200-0630 R/U LUBRICATOR. R/U GOLDEN STATE WIRELINE. LOCK SSSV @ 688' IN OPEN POSITION. R/D CSW.
5.00	0630-1130 R/U SCHLUMBERGER. RIH WITH DIA-LOG 3 1/2" TBG JET CUTTER. JET CUT TBG AT 9987', WLM. R/D SCHLMBGR.
4.00	1130-1530 CIRC BOTTOMS UP TAKING RETURNS TO PRODUCTION.
7.50	1530-2300 POOH W/3 1/2" TBG. L/D HANGER, SSSV, MANDRELS, AND SLIDING SLEEVE. STRAP AND DRIFT ALL TBG WHILE POOH.
1.00	2300-2400 R/D TBG TONGS, M/U BOP TEST ASSEMBLY. DRAIN STACK. SETTING TEST PLUG AT MIDNITE.
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PROPRIETARY/CONFIDENTIAL INFORMATION

MINERALS MANAGEMENT SERVICE
APR 20 1994
RECEIVED
SANTA MARIA DISTRICT

Remarks: OPERATIONS AT 0500 HRS: TESTING BOPE. 3-1/2" AND 4-1/2"EQUIP.

MLTA = 35 DAYS SAFETY MEETING TOPIC: CONFINED SPACE.

BOB HIME W/MMS INSPECTED AND APPROVED OPERATIONS 4-19-94

Accidents: NAR

Daily Mud Cost							6155
Cum Mud Cost							4938
Drill Water: 3413	Potable Water: 234	Fuel: 702	Bulk Weight: 580	Cement> Neat: 771	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 19, 1994				

Chevron

Drilling Activity Report

Measured Depth: 12670	TVD: 12670	PBTD: 12587	Proposed MD: 11978	Proposed TVD: 8233			
DOL: 2	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:		
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:	Wind:	Seas:	Bar:	POB: 63
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):			
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0				
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD			
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gel: /
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.9
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20500	Ca: 2900	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: BARRETT GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
9.50	0000-0930 FINISH INSTALL CLASS IV BOPE.
6.00	0930-1530 LAY DN EXCESS DRILLPIPE AND MOVE REMAINING 24 STANDS OF 3 1/2" DP TO NORTH SIDE OF DERRICK TO PROVIDE SPACE TO
	- STAND BACK TUBING IN DERRICK.
	- RIH WITH SCREW IN SUB. ATTEMPT TO TEST BOPE. N.G. DONUT LEAKS. POH RIH WITH NEW SCREW IN SUB. STILL LEAKS.
	- RECEIVE APPROVAL DALE ROBERT MMS TO TEST BOPE AFTER POH.
	- INSTALL PITCHER NIPPLE AND FLOW LINE. BACK OUT LOCK DN SCREWS.
8.50	1530-2400 UNABLE TO PULL PACKER FREE. PULLED UP TO 270000 #. (50 TON OVER WT) N.G. GATHERING TOOLS TO CUT 3 1/2" TBG.
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Remarks: NLTA = 34 DAYS SAFETY MEETING TOPIC: CHEMICAL BURNS

OPERATIONS @ 0600 HRS: R/U GOLDEN STATE TO SET LOCK- OUT IN SSSV.

BOB HINE, MMS WAS ON BOARD, 4/18/94

Accidents: NAR

Daily Mud Cost: Daily Tangible Cost: 0 Daily Well Cost: AFE #:

Drill Water: 3055	Potable Water: 316	Fuel: 561	Bulk Weight: 580	Cement> Neat: 771	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN /SALAZAR				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SRD) ST #1	Date: Apr 18, 1994				

MINERALS MANAGEMENT SERVICE
APR 19 1994
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SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 12670	TVD: 12670	PBTD: 12587	Proposed MD: 11978	Proposed TVD: 8233			
DOL: 1	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:		
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:	Wind:	Seas:	Bar:	POB: 63
Last Casing Size: 9.625	Set At: 10535 MD	0 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):			
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0				
Liner Size: 7.000	Set At: 12670 MD	0 TVD	Liner Top At: 10133 MD	0 TVD			
Mud Company: PROFCO	Type: SEAWATER	Sample From:	Wt: 8.5	FV:	PV:	YP:	Gel: /
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 0.0
Pm: 0.00	Pf/Mf: 0.00/ 0.00	Carb:	Cl:	Ca:	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% DS/Bent: 0.00/ 0.00

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRETT GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	7Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
	- FROM 04/15/94-04/17/94 USING GOLDEN STATE WIRE LINE ATTEMPTS WERE MADE TO PULL GAS LIFT VALVES AT 9650 AND 8865.
	- UNABLE TO SHIFT SLEEVE AT 9964 AND PERF TBG WITH A KINLEY PERFORATING GUN.
4.50	0600-1030 SKID RIG FROM WELL B-2 TO C-11 (C-6RD) AND RIG UP.
4.50	1030-1500 RIG UP SCHLUMBERGER. INSTALL AND TEST LUBRICATOR TO 1500 PSI. PUMP 30 BBLS SEA WATER DN TBG.
	- RIH WITH 1 1/16" TUBING PUNCH. SHOT HOLES IN 3 1/2" TBG AT 9920. POH WITH GUN.
5.00	1500-2000 KILL WELL W/ 1245 BBLS SEA WATER. CIRC DOWN TBG UP ANNULUS TO PRODUCTION FACILITIES.
3.00	2000-2300 INSTALL BACK PRESSURE VALVE IN TBG HANGER. NIPPLE DOWN PRODUCTION TREE.
1.00	2300-2400 NIPPLE UP CLASS IV 5M BOPE.
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PROPRIETARY/CONFIDENTIAL INFORMATION

MINERALS MANAGEMENT SERVICE
APR 18 1994
RECEIVED
SANTA MARIA DISTRICT

Remarks: NLTA= 33 DAYS SAFETY MEETING TOPIC: 30 MIN S.C.B.A.

OPERATIONS @ 0500 HRS: TESTING BOPE.

BOB NINE W/ MMS ON BOARD 4/17/94.

OPERATIONS APPROVED BY DAN KNOWLSEN MMS. Accidents: NONE

Drill Water: 3055	Potable Water: 316	Fuel: 561	Bulk Weight: 580	Cement Neat: 771	Blended: 0
District: VENTURA PROFIT CENTER	Rig: QUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN /SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 17, 1994		

Chevron Point Arguello OCS-P 0450 C-11 **Daily Completion/WO Report** Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 2	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'	
Job Description: Isolate lower perf's, Perform frac, Re-expose lower perf's and recomplete with 3-1/2" tubing			KB Correction: 18'	Orig KB Elev: 133'			
			Wind:	Seas:	Bar:	POB: 31	
Mud Type: Sea Water			Wt: 8.7	PV:	YP:	WL:	
Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD: 6,595'	Cmt. Top @		
Liner Size: 7"	Wt: 26	Grade: L-80	Set@ MD: 11,991'	TVD: 8,234'	Top @MD: 9,579'	TVD: 6,457'	

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2	9.3	I-80	501	9,762'	Packer @ 9540', 7 G/L Valves, SSSV @ 792'.	

Packer Set At:	Type	Perforations From:	To:	Details
9,540'	Baker "HB"	11,306'	11,434'	5 0.49" SPF 60 degree
		11,476'	11,624'	" "
11,632'	Baker "FB-1"	11,656'	11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:

Post-it® Fax Note 7671 | Date | # of pages ▶ 1

To Don Knowlson		From Laura Phillips	
Co./Dept. MMS - SM		Co. Chevron	
Phone # 922 1958		Phone # 658 4493	
Fax # 925 8546		Fax # 658 4405	

Hrs.	(From - To)	hh:mm	Operation
01:30	00:00 -	01:30	Pumped 227 Bbls sea water in annulus.
01:30	01:30 -	03:00	Pumped 95 Bbls sea water down tubing, (tubing on vacumn).
01:00	03:00 -	04:00	Installed BPV in tubing hanger.
03:30	04:00 -	07:30	Removed flow lines & production tree.
08:30	07:30 -	16:00	Installed riser and BOPEs. Modified picture nipple and installed same. Installed flow line and rotary table.
08:00	16:00 -	24:00	Tested BOPE as per MMS and Chevron requirements. Tested both 3-1/2" & 4-1/2", Blind rams to 300PSI low and 3000PSI High.
	-		A.M. - Finished BOPE testing - Removed BPV - Rigged up Golden State W/L to pull ambient valve.
	-		Tour Safety Meetings - Be careful when working on more than one level, do not drop items to lower levels, make sure that tools are tied off. When testing BOPs, stay away from high pressure lines - Keep open communications.

24 hr Summary: Killed well - installed BPV - removed production tree - Installed BOPE - Began testing BOPE.

Fluid Lost To Formation | Daily: 322 | Cumulative: 322

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 24	Travel:	Tongs:	Circ. Equip:	

Remarks: POB: 2- Cusa, 22-Pool, 7-Service, Total=31, No incidents,No non-compliance, Pool days since last "LTA" = 61

Chevron %: 26 | H_2S: None | Accidents: N/R

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Jim DeGraffenreid
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	16-Apr-97

C_11frac.xls

PROPRIETARY DATA

6/5/97

24 hr Summary:	Removed test plug from "X" nipple, installed BPV, removed BOPEs, installed production tree, removed BPV - Released well to Production

Fluid Lost To Formation	Daily:	Cumulative: 24,069

Hours Charged To			Hours Used		Other Charges
Contractor: 0	Chevron: 18	Travel:	Tonga:	Circ. Equip:	Safety Meeting

Remarks: POB:2-CUSA; 23-Pool; 8-Service; Total=32:No Incidents & No-Non Compliance. Pool Crews Have Worked "60" Days W/Out LTA.

Chevron %: 26.32	H_2S: None	Accidents: None

Materials On Hand: 63-Sxs. Suif X : 6.5 Drums Scale X : 80 Sxs Xanvis : 180 Sxs Salt				API Well No: 56-045-20062
Profit Center: WBU/VPC	Rig: Pool 411	Rig Phone: 805-658-4521	Drilling Rep: J. W. DeGraffenreid	
Field: Point Arguello	Lease: OCS-P 0450	Well #: C-1	Date: 15-Apr-97	

C-1 Precis

PROPRIETARY DATA

Chevron Point Arguello OCS-P 0450 C-11 Daily Completion/WO Report Version 1

Spud Date:	Start Date: 4/15/97	Actual Days: 1	Auth. Days: 18	MD: 11,991'	TVD: 8,234'	PBTD: 11,885'

Job Description: Isolate lower perf's, Preform frac, Re-expose lower perf's and complete with 3-1/2" tubing	KB Correction: 18'	Orig KB Elev: 133'

Wind:	Seas:	Bar:	POB: 32
Mud Type: Sea Water	Wt: 8.5	PV:	YP:	WL:

Prod. Casing Size: 9 5/8	WT: 43.5#	Grade:	Set @ MD: 9,820'	TVD:	Cmt. Top @
Liner Size: 7"	Wt: 26	Grade:	Set@ MD: 11,991'	TVD:	Top @MD: 9,579' TVD:

Tubing Size	Wt.	Grade	Threads	Depth	Details	Do Not Use This Area
3 1/2	9.3	I-80	501	9,762'		

Packer Set At:	Type	Perforations From: - To:	Details
11,632'	Baker "HB"	11,308' - 11,434'	5 0.49" SPF 60 degree
		11,476' - 11,624'	" "
		11,656' - 11,804'	" "

Fish Top @ Description: 1.5' of Baker lock-open tool in bottom of hole.

BHA No:	Details:	Bit Data		
		Number	Type	Serial Number

Hrs.	(From -To) hh:mm	Operations Covering 24 Hours Ending at Midnight	Do Not Use This Area
06:00	18:00 - 24:00	Skid rig from C-1 to C-11, Spotted tool shed, cat walk and installed V-door.	
	-	Installed stairs to rig floor - rigged up to pump water to annulus and tubing of C-11	
	-		
	-		

5/6/97

A.M. Pumped 227 bbls of sea water in annulus, pumped 95 bbls sea water in tubing, tubing on vacumn, closed SSSV and installed BPV. Removed flow lines from tree and began removing bolts from well head.

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24 hr Summary: Skidded rig over hole, rigged up catwalk, V-door, etc. - pumped sea water in annulus and tubing removing well head.

Fluid Lost To Formation | Daily: | Cumulative:

Hours Charged To			Hours Used		Other Charges
Contractor:	Chevron: 6	Travel:	Tongs:	Circ. Equip:	

Remarks:

Chevron %: 26 | H_2S: None | Accidents: N/R

Materials On Hand:

API Well No: 56-045-20067-01

Profit Center:	WBU / VPC	Rig:	POOL 411	Rig Phone:	805-658-6548	Drilling Rep:	Jim DeGraffenreid
Field:	Point Arguello	Lease:	OCS-P 0450	Well #:	C-11	Date:	15-Apr-97

C_11rac.xls

PROPRIETARY DATA

5/5/97

Chevron

Drilling Activity Report

Measured Depth: 12670	TVD: 12670	PBTD: 12587	Proposed MD: 11978	Proposed TVD: 8233						
DOL: 1	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:					
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:	Wind:	Seas:	Bar:	POB: 63		
Last Casing Size: 9.625	Set At: 10536 MD	0 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):						
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0							
Liner Size: 7.000	Set At: 12670 MD	0 TVD	Liner Top At: 10153 MD	0 TVD						
Mud Company: PROFCO	Type: SEAWATER	Sample From:	Wt: 8.5	FV:	PV:	YP:	Gel: /			
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 0.0			
Pm: 0.00	Pf/Mf: 0.00/ 0.00	Carb:	Cl:	Ca:	Gyps: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00			

Orig Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRETT GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Descriptions

Hrs On Jars: Hrs Since Last Inspections

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
	-	FROM 04/15/94-04/17/94 USING GOLDEN STATE WIRE LINE ATTEMPTS WERE MADE TO PULL GAS LIFT VALVES AT 9650 AND 8865.
	-	UNABLE TO SHIFT SLEEVE AT 9964 AND PERF TBG WITH A KINLEY PERFORATING GUN.
4.50	0600-1030	SKID RIG FROM WELL B-2 TO C-11 (C-6RD) AND RIG UP.
4.50	1030-1500	RIG UP SCHLUMBERGER. INSTALL AND TEST LUBRICATOR TO 1500 PSI. PUMP 30 BBLS SEA WATER DN TBG.
	-	RIH WITH 1 1/16" TUBING PUNCH. SHOT HOLES IN 3 1/2" TBG AT 9920. POH WITH GUN.
5.00	1500-2000	KILL WELL W/ 1245 BBLS SEA WATER. CIRC DOWN TBG UP ANNULUS TO PRODUCTION FACILITIES.
3.00	2000-2300	INSTALL BACK PRESSURE VALVE IN TBG HANGER. NIPPLE DOWN PRODUCTION TREE.
1.00	2300-2400	NIPPLE UP CLASS IV 5M BOPE.
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Remarks: NLTA= 33 DAYS SAFETY MEETING TOPIC: 30 MIN S.C.B.A.

OPERATIONS @ 0500 HRS: TESTING BOPE.

JOB NINE W/ MMS ON BOARD 4/17/94.

OPERATIONS APPROVED BY DAN KNUDSEN MMS. Accidents: NONE

Drill Water: 3055	Potable Water: 316	Fuel: 561	Bulk Weight: 580	Cement: Neat: 771	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL 945	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN /SALAZAR			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 17, 1994			

MINERALS MANAGEMENT SERVICE
APR 18 1994
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PROPRIETARY/CONFIDENTIAL INFORMATION

APR 26 1994

Chevron

Drilling Activity Report

Measured Depth: 12670	TVD: 12670	PBTD: 12587	Proposed MD: 11978	Proposed TVD: 8233				
DOL: 2	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:			
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:	Wind:	Seas:	Bar:	POB: 65
Last Casing Size: 9.625	Set At: 10536 MD	6950 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):				
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0					
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD				

Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gel: /		
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.9		
Pm: 0.00	Pf/Mf: 0.00/ 0.26	Carb:	Cl: 20500	Ca: 2900	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00		

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRETT GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
9.50	0000-0930	FINISH INSTALL CLASS IV BOPE.
6.00	0930-1530	LAY DN EXCESS DRILLPIPE AND MOVE REMAINING 24 STANDS OF 3 1/2" DP TO NORTH SIDE OF DERRICK TO PROVIDE SPACE TO
	-	STAND BACK TUBING IN DERRICK.
	-	RIH WITH SCREW IN SUB. ATTEMPT TO TEST BOPE. N.G. DONUT LEAKS. POH WITH WITH NEW SCREW IN SUB, STILL LEAKS.
	-	RECEIVE APPROVAL DALE ROBERT MMS TO TEST BOPE AFTER POH.
	-	INSTALL PITCHER NIPPLE AND FLOW LINE. BACK OUT LOCK DN SCREWS.
8.50	1530-2400	UNABLE TO PULL PACKER FREE. PULLED UP TO 270000 #. (50 JOW OVER WT) N.G. GATHERING TOOLS TO CUT 3 1/2" TBG.
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Remarks: NLTA = 34 DAYS SAFETY MEETING TOPIC: CHEMICAL BURNS

OPERATIONS @ 0600 HRS: R/U GOLDEN STATE TO SET LOCK- OUT IN SSSV.

BOB HIME, MMS WAS ON BOARD, 4/18/94

Accidents: NAR

Daily Intangible Cost: Daily Well Cost:

Drill Water: 3055	Potable Water: 316	Fuel: 561	Bulk Weight: 580	Cement> Neat: 771	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: SHERIDAN /SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 18, 1994		

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APR 26 1994

Chevron

Drilling Activity Report

Measured Depth: 12670	TVD: 8232	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233			
DOL: 3	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:		
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:	Wind: 30	Seas: 12/4	Bar: 30.05 PCO: 69
Last Casing Size: 9.625	Set At: 10536 MD	6090 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):			
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0				
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD			
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gel: - -
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.9
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20500	Ca: 2900	Gent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00

Orig Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	7Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 ATTEMPT TO FREE STUCK PACKER AT 10,005' WITHOUT SUCCESS.
4.50	0200-0630 M/U LUBRICATOR. R/U GOLDEN STATE WIRELINE. LOCK SSSV @ 688' IN OPEN POSITION. R/D GSW.
5.00	0630-1130 R/U SCHLUMBERGER. RIH WITH DIA-LOG 3 1/2" TBG JET CUTTER. JET CUT TBG AT 9987', WLM. R/D SCHLMBGR.
4.00	1130-1530 CIRC BOTTOMS UP TAKING RETURNS TO PRODUCTION.
7.50	1530-2300 POOH W/3 1/2" TBG. L/D HANGER, SSSV, MANDRELS, AND SLIDING SLEEVE. STRAP AND DRIFT ALL TBG WHILE POOH.
1.00	2300-2400 R/D TBG TONGS, M/U BOP TEST ASSEMBLY. DRAIN STACK. SETTING TEST PLUG AT MIDNITE.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0500 HRS: TESTING BOPE. 3-1/2" AND 4-1/2" EQUIP.

NLTA = 35 DAYS SAFETY MEETING TOPIC: CONFINED SPACE.

BOB HINE W/MMS INSPECTED AND APPROVED OPERATIONS 4-19-94

Accidents: NAR

Daily Mud Cost:							6155
Cum Mud Cost:							4938
Drill Water: 3413	Potable Water: 234	Fuel: 702	Bulk Weight: 580	Cement> Neat: 771	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 19, 1994				

MINERALS MANAGEMENT SERVICE
APR 20 1994
RECEIVED
SANTA MARIA DISTRICT

Noted - Freddie
APR 26 1994

Chevron

Drilling Activity Report

Measured Depth: 12670	TVD: 8232	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 4	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:				
Torque: 0	Drag: 0	Rot Weight: 0	P/U Weight: 0	Slack Off Weight: 0	Wind:	Seas:	Bar:	POB: 69	
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0		Depth Worst Wear: ft	% Remaining: 0.0					
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD					

Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gels: /				
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.0				
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20500	Ca: 2900	Gent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00				

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Ct:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: 214.62 BHA Description: 7 5/8" OD OVERSHOT W/3 1/2" GRAPPLE, BUMPER SUB, BOWEN JARS, XO,

184' OF 6" DC'S, ACCELERATOR, DRILL PIPE.

Hrs On Jars: 0.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Operations Covering 24 Hours Ending At Midnight

Hrs	(From-To)
1.50	0000-0130 CHANGE OUT 2 DAMAGED LOCK DOWN STUDS ON WELL HEAD.
6.00	0130-0730 TEST BOPE, USING WATER AND 4 1/2" DP TOOLS, TO 300 PSI AND 3500 PSI, FROM THE RIG FLOOR STATION. RETRIEVE TEST PLUG AND R/D BJ.
1.00	0730-0830 MOVE 3 1/2" DP IN DERRICK TO REACH 4 1/2" DP.
2.00	0830-1030 MAKE UP FISHING TOOLS AS ABOVE.
3.00	1030-1330 RIH TO TOP OF FISH AT 9969', DPM.
0.50	1330-1400 DRESS TOP OF TBG STUB THEN WORK OVERSHOT OVER FISH. SET JARS OFF 3 TIMES AND FREE PACKER.
4.00	1400-1800 POOH W/ FISH TO DC'S. WELL U-TUBING OIL UP BHA. INSTALL SAFETY VALVE. WELL DEAD ON ANNULUS.
1.00	1800-1900 R/U LINE FROM BHA TO TRIP TANK. MONITER WELL. U-TUBE 7 BBL OIL TO TRIP TANK.
1.00	1900-2000 R/U KELLY TO BHA AND CIRC 30 BBLS SEA WATER TO PROD VESSEL V-9.
1.00	2000-2100 BREAK KELLY AND R/U LINE BACK TO TRIP TANK AND MONITER WELL. STILL U-TBG BACK OIL AND AS BACK SIDE KEPT FULL
2.00	2100-2300 CLOSE SAFETY VALVE. R/D LINE TO TRIP TANK. INSTALL INSIDE BOPE. RIH TO 1630'. DISPLG OIL AND WATER TO TRIP TANK.
1.00	2300-2400 R/U AND CIRCULATE WELL TO PROD VESSEL V-9 TO CLEAN OUT TRAPPED OIL FROM BELOW PACKER.

PROPRIETARY/CONFIDENTIAL INFORMATION

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To D Knowlson	From N Jones/L Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805-658-4480 -4493
Fax # 925-8546	Fax # 658-4405

Remarks: OPERATIONS AT 0600 HRS: RUNNING IN HOLE WITH 11 STD D

NLTA = 36 DAYS. SAFETY MEETING TOPIC: USE OF LADDERS.

BOB HIME AND ROY BOBBIT OF MMS WAS ON BOARD 4-20-94

RECOVERED APPROX 50 BBLS OIL WHILE TRYING TO CLEAN UP ANNULUS BEFORE LAYING DOWN PACKER FISH. Accidents: NAR.

Daily Mud Cost: 6155

Cum Mud Cost: 4938

Drill Water: 3460	Potable Water: 253	Fuel: 664	Bulk Weight: 580	Cement: Neat: 771	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 20, 1994				

MINERALS MANAGEMENT SERVICE
APR 21 1994
RECEIVED
SANTA MARIA DISTRICT

Noted - Freddie
APR 26 1994

Chevron — Drilling Activity Report

Measured Depth: 12670	TVD: 8323	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 5	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:				
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:	Wind:	Seas:	Bar:	POB: 69	
Last Casing Size: 9.625	Set At: 10536 MD	8990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gel: /		
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PH: 7.2		
PM: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20000	Ca: 2900	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00		

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To D Knowlson		From N Johns / L Phillips	
Co. MMS		Co. Chevron	
Dept. Santa Maria		Phone # 805 658-4480 -4423	
Fax # 925-8546		Fax # 658-4405	

Surv			E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 FINISH CIRC OUT OIL TO PROD VESSEL V-9. POOH.
2.00	0200-0400 LAY DOWN FISHING TOOLS, PACKER FISH AND TAIL ASSEMBLY.
2.00	0400-0600 SET TEST PLUG. TEST PIPE RAMS, ANNULAR, AND 3 1/2" SURFACE EQUIPMENT FOR 3 1/2" DRILL PIPE. TEST TO 300 & 3500PSI
5.50	0600-1130 RIH W/11 STDS OE TBG STINGER ON 3 1/2" AND 4 1/2" DP. TAG BOTTOM AT 12,545', DPM.
4.00	1130-1530 CIRC WELL TO PROD VESSEL F/400 BBLS. CIRC REST OF BOTTOMS UP THRU CHOKE TO MUD PITS UNTIL CLEAN.
2.50	1530-1800 R/U BJ. THRU OETBG AT 12545', BALANCED 158 CF OF 15.8PPG CMT. PULL TO 11,888'. BALANCED 158 CF OF 15.8PPG CMT.
1.50	1800-1930 PULL TO 11,264'. BALANCED 107CF CMT TO PLUG 7" LINER TO 10,760'.
1.00	1930-2030 PIPE STUCK. PULLED FREE W/200K OVER STRING WT. WORK PIPE TO 10,200' W/150-200K DRAG. LOST 40K DRAG AT 10,200'.
1.00	2030-2130 PIPE FREE AT 10,200'. ROTATE AND CIRC AROUND GEL SWEEP AT 10,200'. HAD CMT TO SURFACE JUST PRIOR OF SWEEP.
2.50	2130-2400 POOH W/OEDP AT MIDNITE.
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	- NOTE: PARTED 3 1/2" TBG STINGER LEAVING 8 STANDS, 707.3' OVERALL, IN HOLE. ESTIMATED TOP OF FISH AT 9493'. TBG
	- PIN STRIPPED OUT OF BOX.
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PROPRIETARY/CONFIDENTIAL

Remarks: OPERATIONS AT 0600 HRS: RIH W/OPEN END DP TO LOCATE TOP OF FISH.

NLTA = 37 DAYS. SAFETY MEETING TOPIC: SAFETY EYE GLASSES.

BOB HIME AND ROY BOBBITT OF MMS WERE ON BOARD 4-21-94.

Accidents: NAR.

Daily Mud Cost: Daily Intangible Cost: Daily Well Cost:

Cum Mild Cost

Drill Water: 2037	Potable Water: 288	Fuel: 696	Bulk Weight: 580	Cement> Neat: 771	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 21, 1994				

MINERALS MANAGEMENT SERVICE
APR 22 1994
RECEIVED
SANTA MARIA DISTRICT

Noted - Freddie
Apr 26, 1994

Chevron — Drilling Activity Report

Measured Depth: 9493	TVD: 0	PBTD: 0		Proposed MD: 11978		Proposed TVD: 8233		
DOL: 6	DFS: 0	Spud Date: / /	Daily Footage: 0		Daily Rot Hrs:		Total Rot Hrs:	
Torque:	Drag:	Rot Weight:	P/U Weight:	Slack Off Weight:		Wind:	Seas:	Swr:	POB: 69
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD			Shoe Test: 0.0 EMW		Leakoff? (Y/N):		
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0			Depth Worst Wear : 0		% Remaining: 0.0		
Liner Size: 7.000	Set At: 12670 MD	8232 TVD		Liner Top At: 10133 MD		0 TVD		
Mud Company: PROFCO	Type: SEAWATER		Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gels: / -
WL API: 0.0 HTHP: 0.0	FC(1/32) API:	HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.2	
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20000	Ca: 2900	Gels: 0.00	Solids % HG/LG: 0.00/ 0.00	% Oil/Gels: 0.00/ 0.00		

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:

Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	PPull	Cost/Ft

Total Length Of BHA: BHA Description:

Hrs On Jars: Hrs Since Last Inspection:

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 POOH AFTER WORKING OUT OF CMT PLUG FROM 10,200'. LEFT 8 STDS, 707.3', OF 3 1/2" TBG IN HOLE. EST TOP AT 9493'.
1.00	0200-0300 SERVICE DRILLING LINE.
4.00	0300-0700 MAKE UP BIT SUB ON 4 1/2" DRILL PIPE. RIH AND LOCATE TOP OF FISH AT 9494'.
3.50	0700-1030 POOH WITH DRILL PIPE.
3.00	1030-1330 SERVICE RIG. LOCATE AND GATHER FISHING TOOLS.
7.00	1330-2030 MAKE UP 7 5/8" OVERSHOT W/3 7/8" GRAPPLE ON 3 1/2" TUBING. RIH AND TAG FISH.
0.50	2030-2100 BREAK CIRCULATION. TEST CASING AND CMT PLUG TO 2000 PSI FOR 15 MIN. OKAY.
2.00	2100-2300 WORK MILL AND GRAPPLE OVER TOP OF TBG FISH AT 9494'.
1.00	2300-2400 R/U DIA-LOG FREE POINT TOOLS ON SCHLUMBERGER WIRELINE AND RIH AT MIDNITE.
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	- NOTE: FOUND TUBING FISH FREE TO 9962'. OBSTRUCTION IN TBG AT 9987'. COULD NOT WORK DEEPER.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0600 HRS: MAKING DUMMY RUN WITH 2 3/4" GAUGE RING ON SCHLUMBGR WIRELINE PRIOR TO RUNNING TBG JET CUTTER.

NLTA = 38 DAYS SAFETY MEETING TOPIC: HEARING PROTECTION

BOB HIME OF MMS WAS ON BOARD TODAY.

Accidents: NAR

Daily Mud Cost: 6155

Cum Mud Cost: 4938

Drill Water: 3641	Potable Water: 310	Fuel: 695	Bulk Weight: 580	Cement> Neat: 771	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 22, 1994			

MINERALS MANAGEMENT SERVICE
APR 25 1994
RECEIVED
SANTA MARIA DISTRICT

Notes - Freddie
APR 26 1994

Chevron

Drilling Activity Report

Measured Depth:	TVD:	PBTD:	Proposed MD: 11978	Proposed TVD: 8203			
DOL:	DFS:	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:		
Torque: 0	Drag: 0	Rot Weight: 0	P/U Weight: 0	Slack Off Weight: 0	Wind:	Seas:	Bars: PGS:
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):			
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0				
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD			
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gels: 7
WL API: 0.0 HTHP: 0.0	FC(1/32) API: HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.2
Pm: 0.00	Pf/Mf: 0.00/ 0.24	Carb:	Cl: 20000	Ca: 2900	Sent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	MOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: 21.77 BHA Description: 5 3/4" OD OVERSHOT W/3 7/8" GRAPPLE, BUMPER SUB, BOWEN JARS, XO, XO, 4 1/2" DRILL PIPE.

Hrs On Jars: 0.0 | Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
5.50	0000-0530	RAN DIA-LOG FREEPOINT TOOLS ON SCHLMBGR WIRELINE. FOUND TBG FISH STUCK AT 9987',(TOOLS STOPPED AT 9987'),
	-	PARTIALLY FREE AT 9965' AND FREE AT 9955'. POOH WITH FREE POINT.
4.50	0530-1000	RIH WITH 2 3/4" GUAGE RING. STOPPED AT 9350', 150' ABOVE TOP OF FISH'N TOOLS. POOH. RIH W/2 5/8" CHEMICAL CUTTER
	-	CHEM CUTTER STOPPED AT 9350'. POOH W/ CUTTER.
0.50	1000-1030	WORK TORQUE INTO STRING TO TIGHTEN CONNECTIONS.
7.50	1030-1800	MAKE UP STRING SHOT AND RIH. ATTEMPT TO BACK OFF TBG AT 9943'. NO GOOD. MAKE 2ND ATTEMPT WITH SAME RESULTS.
3.00	1800-2100	MAKE UP THIRD STRING SHOT,(455 GRN) AND RIH TO 9943'. PULL TOOK OVER STRING WT AND ATTEMPT TO JUMP COLLAR. NO
	-	GOOD. BEGIN WORKING STUCK TBG TO 135K OVER STRING WT AND ROTATING. PIPE PARTED AT 12K #/FT'S TORQUE.
3.00	2100-2400	POOH
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	-	NOTE: TBG PARTED AT CONNECTION, LEAVING THE OVERSHOT BHA AND 22 2/3 ADDITIONAL STANDS,(2048') OF 3 1/2" TBG IN
	-	THE HOLE. ESTIMATED TOP OF 2ND FISH AT 7446'.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0600 HRS: RIH W/3 3/4" OVERSHOT W/ 3 7/8" GRAPPLE, BUMPER SUB, JARS, ON 4 1/2" DRILL PIPE.

MLTA = 38 DAYS SAFETY MEETING TOPIC: OPEN TOPICS. GOOD HOUSE KEEPING AND EXPLOSIVES USE DISCUSSED.

NO MMS PERSONNAEL ON BOARD TODAY.

Accidents: NAR.

Drill Water: 0	Potable Water: 0	Fuel: 0	Bulk Weight: 0	Cement> Neat: 771	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6R0) ST #1	Date: Apr 23, 1994		

MINERALS MANAGEMENT SERVICE
APR 25 1994
RECEIVED
SANTA MARIA DISTRICT

Noted - Freddie
APR 26 1994

Chevron

Drilling Activity Report

Measured Depth: 9494	TVD: 0	PBTD: 0				Proposed MD: 11978	Proposed TVD: 8253		
DOL: 8	DFS: 0	Spud Date: / /		Daily Footage: 0		Daily Rot Hrs:	Total Rot Hrs:		
Torque: 12000	Drag: 25	Rot Weight: 213	P/U Weight: 238	Slack Off Weight: 195		Wind:	Seas:	Swr:	POB: 65
Last Casing Size: 9.625	Set At: 10536 MD		6990 TVD			Shoe Test: 0.0 EMW		Leakoff? (Y/N):	
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0					Depth Worst Wear: 0		% Remaining: 0.0	
Liner Size: 7.000	Set At: 12670 MD		8232 TVD			Liner Top At: 10133 MD		0 TVD	
Mud Company: PROFCO	Type: SEAWATER					Sample From: PIT	Wt: 8.5	FV:	PV:	YP:	Gels: /
WL API: 0.0 HTHP: 0.0	FC(1/32) API:	HTHP:	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PM: 7.2	
Pm: 0.80	Pf/Mf: 0.00/ 0.24	Carbs:	Cl: 20000	Ca: 2900	Rent: 0.00	Solids % HG/LG: 0.00/ 0.00	% Oil/Rent: 0.00/ 0.00		

Drlg Gas:	Rex Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: 23.00 BHA Description: 7 3/8" OVERSHOT W/3 7/8" GRAPPLE AND MILL CONTROL, BUMPER SUB, JARS, XO, 4 1/2" DRILL PIPE.

Hrs On Jars: 0.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 POOH WITH 3 1/2" TBG. LEFT 22 2/3 STANDS, 2048', OF 3 1/2" TBG, AND OVERSHOT BHA #1 IN HOLE. TOP AT 7492'.
	- TBG TIGHT COMING OUT OF HOLE.
1.00	0200-0300 MAKE UP 5 3/4" OVERSHOT W/3 7/8" GRAPPLE, BUMPER SUB, AND JARS ON 4 1/2" DRILL PIPE.
3.00	0300-0600 RIH. TAG FISH AT 7492', WORK OVER SAME. P/U EXTRA 10K DRAG.
4.00	0600-1000 POOH. RECOVERED 14 2/3 STANDS, 1289', OF 3 1/2" TBG FISH. FOUND SOME DAMAGED PINS AND BOXES. STAND BACK TBG MOVE
0.50	1000-1030 3 1/2" OP AROUND IN DERRICK.
9.50	1030-2000 RIH W/5 3/4" OVERSHOT BHA #2 ON 4 1/2" DP. TAG TOP OF FISH AT 8781'. ATTEMPT TO WORK OVER TOP OF FISH. NO GOOD.
	- POOH. FOUND CUTLIP GUIDE FOLDED OVER.
2.50	2000-2230 SERVICE RIG AND CLEAN FLOOR AREA. LOCATE NEW OVERSHOT.
1.50	2230-2400 MAKE UP OVERSHOT BHA #3 W/7 3/8" OVERSHOT W/3 7/8" GRAPPLE AND MILL CONTROL, BUMPER SUB, AND JARS ON 4 1/2" DRIL
	- PIPE. RIH AT MIDNITE.
	-
	-
	- NOTE: WORK OVER FISH AT 8781'. P/U EXTRA 12-15K DRAG. POOH.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0600 HRS: POOH W/FISH.

MLTA = 39 DAYS SAFETY MEETING TOPIC: GOOD HOUSEKEEPING

ROY BOBBITT ON BOARD TODAY.

Accidents: NAR

Daily M...

Cum Mix

Drill Water: 3610	Potable Water: 227	Fuel: 695	Bulk Weight: 580	Cement> Neat: 700	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SRD) ST #1	Date: Apr 24, 1994		

MINERALS MANAGEMENT SERVICE
APR 25 1994
RECEIVED
SANTA MARIA DISTRICT

Noted - Freddie

Chevron

Drilling Activity Report

Measured Depth: 9942	TVD: 0	PBTD: 9942	Proposed MD: 11978	Proposed TVD: 8255					
DOL: 9	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs: 2.0	Total Rot Hrs: 2.0				
Torque: 18086	Drag: 50	Rot Weight: 230	P/U Weight: 280	Slack Off Weight: 220	Wind:	Seas:	Bar:	POB: 62	
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 0.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10153 MD	0 TVD					
Mud Company: PROFCO	Type: FRESHWATER POLYMER	Sample From: PIT	Wt: 8.8	FV: 54	PV: 11	YP: 24	Gel: 23/ 30		
WL API: 18.0 HTHP: 0.0	FC(1/32) API: 2 HTHP:	Solids: 2.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 32.00	pH: 11.0		
Pm: 0.84	Pf/Mf: 0.39/ 0.58	Carb:	Cl: 850	Ca: 100	Bent: 32.00	Solids % HG/LG: 0.00/ 3.40	% DS/Bent: 0.00/ 3.47		

Orig Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
0		9.625				/ / /	1.000	9942	0	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	2.0	5	110									0.00

Total Length Of BHA: 221.47 BHA Description: SECTION MILL, BIT SUB, 6-6-1/2" DC'S & JARS

Hrs On Jars: 2.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
0	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2700	521	168	176	253	67	0.9	821
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
3.50	0000-0330 CONTINUE RIH W/ 7-3/8" OVERSHOT W/ 3-7/8" GRAPPLE. TAG TOF @ 8781' ENGAGE GRAPPLE ON FISH.
8.00	0330-1130 POH W/ OVERSHOT. LAY DOWN FISHING TOOLS RECOVERED 13-STANDS 3-1/2" YBG (1161'). TOF NOW @ 9942'.
4.50	1130-1600 RIH W/SECTION MILL, BIT SUB, 6-6-1/2" DC'S & JARS ON 4-1/2" DP. TAG @ 9942' PUH TO 9923' BREAK CIRC.
6.00	1600-2200 DISPLACE HOLE W/ FW MUD 8.8 PPG 100 VIS.
2.00	2200-2400 SECTION MILL WINDOW IN 9-5/8" CSG FROM 9820-23'.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: NLTA= 40 DAYS SAFETY MEETING TOPOIC: BASIC FIRST AID

OPERATIONS @ 0500 HRS: SECTION MILL WINDOW @ 9835'.

Accidents: NONE REP'D

Daily Mud Cost:

Cum Mud Cost:

Drill Water: 3461	Potable Water: 300	Fuel: 608	Bulk Weight: 580	Cement: Neat: 700	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/SALAZAR			
Field: POINT ARGUELLO	Lease: OCS P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 25, 1994			

RECEIVED
APR 26 1994
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT

5-3-94

Chevron

Drilling Activity Report

Measured Depth: 12674	TVD: 8234	PBTD: 9942	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 10	DFS: 0	Spud Date: / /	Daily Footage: 29	Daily Rot Hrs: 16.0	Total Rot Hrs: 18.0				
Torque: 26276	Drag: 130	Rot Weight: 220	P/U Weight: 350	Slack Off Weight: 170	Wind:	Seas:	Bar:	POB: 61	
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 18.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD					
Mud Company: PROFCO	Type: FRESHWATER POLYMER	Sample From: PIT	Wt: 8.8	FV: 130	PV: 6	YP: 32	Gel: 20/211		
WL API: 16.8 HTHP: 0.0	FC(1/32) API: 3 HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 30.00	pH: 10.0		
Pm: 0.84	Pf/Mf: 0.15/ 0.32	Carb:	Cl: 2100	Ca: 40	Bent: 29.00	Solids % HG/LG: 0.00/ 3.40	% DS/Bent: 0.00/ 3.29		

Drlg Gas: 0	Max Gas: 0	Conn Gas: 0	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
0		8.500			MILL	/ / /	1.000	9820	9852	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	TPull	Cost/Ft
32	18.0	5	110									0.00

Total Length Of BHA: 221.47 BHA Description: SECTION MILL, BIT SUB, 6-6-1/2" DC'S & JARS

Hrs On Jars: 18.0 | Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
0	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2700	521	168	246	426	67	1.2	821
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
16.00	0000-1600 CONTINUE TO SECTION MILL WINDOW IN 9-5/8" 43.5# CASING FROM 9823-52'. SWEEP HOLE AT 5' INTERVALS W/ LOST CIRC
	- MATERIAL TO CLEAN HOLE AND REDUCE EXCESSIVE DRILL STRING TORQUE. BACK REAM OPEN HOLE SECTION TO REMOVE METAL
	- SHAVINGS FROM SECTION MILL AND OPEN HOLE. MILL STOPPED CUTTING 9-5/8" CSG @ 9852'. RECOVERED LARGE AMOUNT OF
	- METAL CUTTINGS W/ CMT & FORMATION CUTTINGS THROUGHT MILLING OPERATIONS.
2.00	1600-1800 PUMP HIGH VIS SWEEP. CIRC AND CONDITION HOLE FOR TRIP.
1.00	1800-1900 ATTEMPT TO POH HAD 70K DRAG UP W/ 26276 FT/LBS TORQUE WHILE PULLING SECTION MILL FROM 9852' TO 9800'.
2.00	1900-2100 PUMP HIGH VIS SWEEP. CIRC AND CONDITION HOLE FOR TRIP. CIRC SMALL AMOUNT OF CMT & METAL CUTTINGS W/ BOTTOMS UP.
3.00	2100-2400 START POH HAD 50-70K DRAG UP WHILE PULLING FIRST 5-STDS.
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PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: MLTA= 41 DAYS SAFETY MEETING TOPIC: HANDLING CHEMICALS

OPERATIONS @ 0500 HRS: RIH W/ SECTION MILL TO CUT WINDOW

SECTION MILL PULLED WAS 80% USED

Accidents: NONE

Daily Mud Cost: Daily Tangible Cost: Daily Well Cost: AFE Number:

Cum Mud Cost:

Drill Water: 3798	Potable Water: 315	Fuel: 687	Bulk Weight: 550	Cement> Next: 700	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 26, 1994		

MINERALS MANAGEMENT SERVICE
APR 28 1994
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SANTA MARIA DISTRICT

Chevron

Drilling Activity Report

Measured Depth: 12674	TVD: 8234	PBTD: 9942	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 11	DFS: 0	Spud Date: / /	Daily Footage: 18	Daily Rot Hrs: 8.0	Total Rot Hrs: 26.0				
Torque: 26276	Drag: 130	Rot Weight: 220	P/U Weight: 350	Slack Off Weight: 170	Wind:	Seas:	Bar:	POB: 62	
Last Casing Size: 9.625	Set At: 10536 MD	6990 TVD	Shoe Test: 0.0 EMW	Leakoff? (Y/N):					
Cum Rot Hrs On Casing: 26.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 12670 MD	8232 TVD	Liner Top At: 10133 MD	0 TVD					
Mud Company: PROFCO	Type: FRESHWATER POLYMER	Sample From: PIT	Wt: 8.7	FV: 62	PV: 13	YP: 16	Gel: 3/ 42		
WL API: 16.0 HTHP: 0.0	FC(1/32) API: 3 HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 28.00	pH: 9.5		
Pm: 0.25	Pf/Mf: 0.15/ 0.65	Carb:	Cl: 3500	Ca: 80	Bent: 28.00	Solids % HG/LG: 0.00/ 2.50	% DS/Bent: 0.00/ 2.50		

Drlg Gas: | Max Gas: | Conn Gas: | Trip Gas: | Trip Cl: | Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
0		8.500			MILL	/ / /	1.000	9852	9870	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
18	8.0	5	110									0.00

Total Length Of BHA: 221.00 BHA Description: SECTION MILL, BIT SUB, 6-6-1/2" DC'S & JARS

Hrs On Jars: 26.0 | Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
0	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2700	521	168	246	426	67	1.2	821
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
3.00	0000-0300 CONTINUE POH W/ SECTION MILL. CHANGE OUT SECTION MILL. FUNCTION TEST BLIND RAMS.
0.50	0300-0330 RIH W/ BHA & 10-STDS 4-1/2" DP.
1.00	0330-0430 SLIP & CUT 104' DRILLING LINE.
4.00	0430-0830 RIH W/ SECTION MILL. BREAK CIRC REAM OPEN HOLE SECTION FROM 9820-52'.
8.00	0830-1630 SECTION MILL WINDOW IN 9-5/8" 43.5# CASING FROM 9852-70'. SWEEP HOLE @ 5' INTERVALS W/ LOST CIRC MATERIAL TO
	- CLEAN HOLE. RECOVERED LARGE AMOUNTS OF MEYAL SHAVINGS W/ CMT & FORMATION CUTTINGS WHILE MILLING. (50' WINDOW)
2.00	1630-1830 PUMP HIGH VIS SWEEP. CIRC AND CONDITION FOR TRIP.
5.50	1830-2400 POH W/ SECTION MILL.
	-
	- RECIEVED VARIANCE FROM DALE ROBERTS W/ MMS TO TEST BOP AFTER TRIP OUT OF HOLE W/ SECTION MILL.
	-

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To D. Knudson	From N. Jones / L. Phillips
Co. MMS	Co. Chevron
Dept. Santa Maria	Phone # 805 658-4450
Fax # 925-8546	Fax # 658-4405

PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: MLTA= 42 DAYS SAFETY MEETING TOPIC: H2S SAFETY

OPERATIONS @ 0500 HRS: TESTING BOP

SECTION MILL (#1) PULLED WAS 80% USED | SECTION MILL (#2) PULLED WAS 85% USED

NMS ON BOARD ROT BOBBITT APPROVED OPERATIONS 4/27/94 | Accidents: NONE

Dal

Cum

Drill Water: 3798	Potable Water: 315	Fuel: 688	Bulk Weight: 550	Cement Used: 700	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #49	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (ARD) ST #1	Date: Apr 27, 1994		

5.3.94

Chevron

Drilling Activity Report

Measured Depth: 12674	TVD: 8234	PBTD: 9942				Proposed MD: 11978		Proposed TVD: 8233			
DOL: 12	DFS: 0	Spud Date: / /		Daily Footage: 0		Daily Rot Hrs: 1.0		Total Rot Hrs: 27.0			
Torque: 26276	Drag: 130	Rot Weight: 220	P/U Weight: 350	Slack Off Weight: 170		Wind:		Seas:		Bar:	POB: 65
Last Casing Size: 9.625		Set At: 10536 MD	6990 TVD			Shoe Test: 0.0 EMW		Leakoff? (Y/N):			
Cum Rot Hrs On Casing: 27.0		Cum Rot Hrs On Casing Since Last Caliper : 0.0				Depth Worst Wear : 0		% Remaining: 0.0			
Liner Size: 7.000		Set At: 12670 MD	8232 TVD			Liner Top At: 10133 MD		0 TVD			
Mud Company: PROFCO		Type: FRESHWATER POLYMER			Sample From: PIT	Wt: 8.7	FV: 40	PV: 14	YP: 6	Gel: 2/ 12	
WL API: 17.0	WLHP: 0.0	FC(1/32) API: 3	HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 26.00	pH: 10.3		
Pm: 0.50	Pf/Mf: 0.20/ 0.40	Carb:	Cl: 3000	Ca: 80	Gent: 26.00	Solids % HG/LG: 0.00/ 2.50		% DS/Bent: 0.00/ 2.50			

Prig Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
0		14.000			UR HO	/ / /	1.000	9820	9870	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
50	19.0	8	60									0.00

Total Length Of BHA: 223.77 BHA Description: HOLE OPENER, BIT SUB, FLOAT SUB, 6-6-1/2" DC'S & JARS

Hrs On Jars: 27.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	HHP/SQIN	Pump HHP
0	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2700	521	168	73	83	67	0.4	821
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
0.50	0000-0030	CONTINUE POOH W/ SECTION MILL. MILL WAS 95% USED.
5.50	0030-0600	INSTALL TEST PLUG. TEST CLASS IV BOPE TO 300 PSI & 3500 PSI. TESTED FROM PIPE RACK REMOTE & FUNCTION TESTED
	-	FROM RIG FLOOR. PULL TEST PLUG FUNCTION TEST BLIND RAMS.
4.00	0600-1000	RIH W/ 8-1/2" BY 14" UNDERREAMER HOLE OPENER & 20 STDS. ATTEMPT TO BREAK CIRC - TOOL PLUGGED. POOH. FOUND 1"
	-	ORIFICE ON HOLE OPENER PLUGGED OFF W/ METAL SHAVINGS. CLEAN OUT METAL SHAVINGS FROM TOOL.
3.50	1000-1330	RIH W/ 8-1/2" BY 14" UNDERREAMER HOLE OPENER. BREAK CIRC EVERY 10 STANDS.SECTION FROM 9820-70'
1.00	1330-1430	UNDERREAM WINDOW TO 14" FROM 9820' TO 9870'.
2.00	1430-1630	PUMP HIGH VIS SWEEP. CIRC AND CONDITION HOLE FOR TRIP. RECOVERED METAL SHAVINGS & FORMATION AT SHAKER.
5.50	1630-2200	POOH W/ 14" HOLE OPENER.
2.00	2200-2400	RIH W/ MULE SHOE, 4-STANDS 3-1/2" TBG & 4-1/2" DP.
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PROPRIETARY/CONFIDENTIAL INFORMATION

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SANTA MARIA DISTRICT
MINERALS MANAGEMENT SERVICE
APR 29 1994

Remarks: MLTA= 43 DAYS SAFETY MEETING TOPIC: GRINDERS

OPERATIONS @ 0500 HRS: SPOT CMT KICK OFF PLUG

NOTIFIED MIKE MITCHELL W/ MMS & JEROMIE JOHNSTON W/ EPA OF FINAL MUD DUMP OF FW GEL SYSTEM USED FOR SECTION MILLING

Accidents: NONE

Daily Mud Cost:											155
Cum Mud Cost:											938
Drill Water: 3415	Potable Water: 316	Fuel: 687	Bulk Weight: 550	Cement> Neat: 700	Blended: 0						
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR								
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SHD) ST #1	Date: Apr 28, 1994								

5-3-94

Chevron

Drilling Activity Report

Measured Depth: 9820	TVD: 6595	PBTD: 9820	Proposed MD: 11978	Proposed TVD: 8233			
DOL: 13	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs:		
Torque: 0	Drag: 100	Rot Weight: 220	P/U Weight: 320	Slack Off Weight: 250	Wind:	Seas:	Bar:	POB: 67
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y			
Cum Rot Hrs On Casing: 27.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0				
Liner Size: 7.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD			
Mud Company: PROFCO	Type: FRESHWATER POLYMER	Sample From: PIT	Wt: 8.8	FV: 37	PV: 12	YP: 5	Gel: 1/ 10
WL API: 14.8 HTHP: 0.0	FC(1/32) API: 2 HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.00	MBT: 30.00	pH: 10.1
Pm: 0.20	Pf/Mf: 0.15/ 0.60	Carb:	Cl: 3100	Ca: 80	Bent: 30.00	Solids % HG/LG: 0.00/ 2.60	% OS/Bent: 0.00/ 2.60

Drlg Gas: | Max Gas: | Conn Gas: | Trip Gas: | Trip Cl: | Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: | BHA Description:

Hrs On Jars: 27.0 | Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
3.50	0000-0330 CONTINUE RIH W/ MULE SHOE, 4-STDS 3-1/2" TBG & 4-1/2" DRILL PIPE. TAG AT 9870'. BREAK CIRC AND ATTEMPT TO WORK
	- MULE SHOE & 3-1/2" TBG INTO BOTTOM OF WINDOW IN 9-5/8" CASING @ 9870'. COULD NOT GET TBG STINGER PAST 9870'.
	- RECIEVED VERBAL APPROVAL FROM DAN KNOWLSON W/ NMS TO SET KICK-OFF PLUG FROM 9870'.
1.50	0330-0500 PUMP HIGH VIS SWEEP. CIRC AND CONDITION HOLE FOR CMTING.
1.00	0500-0600 R/U BJ SERVICES TEST LINES TO 3000 PSI. W/ EOT @ 9870' PUMP 20 BBLS FW AHEAD. M & P 134 F3 (139 SX) CLASS "G"
	- CMT W/ 1.2% CD-32. SPOT BALLANCED PLUG FROM 9870-9628'. DISPLACE W/ 5 BBLS FW & 114 BBLS MUD.
2.00	0600-0800 PULL 3-STDS DP.. REVERSE CIRC 2 DP VOLUMES. CIRC TRACE OF CMT W/ CONTAMINATED MUD.
3.00	0800-1100 POOH W/ 4-1/2" DP.
1.50	1100-1230 R/U TO LAY DOWN 3-1/2" TBG. MOVE 25-STDS 3-1/2" DP IN DERRICK.
11.50	1230-2400 LAY DOWN 3-1/2" L-80 9.3# HYDRILL 501 TBG FROM DERRICK. USE RIG TONGS TO BREAK OUT JOINTS DUE TO EXCESSIVE
	- TORQUE & UNABLE TO BREAK W/ HYDRAULIC TONGS.
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Remarks: MLTA= 44 DAYS SAFETY MEETING TOPIC: ELECTRICAL SAFETY

OPERATONS @ 0500 HRS: RIH W/ BIT TO POLISH OFF KICK-OFF PLUG

RECIEVED VERBAL APPROVAL FROM DAN KNOWLSON TO SET KICK-OFF PLUG FROM 9870'

Accidents: NONE

Dail:

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Drill Water: 3248	Potable Water: 252	Fuel: 670	Bulk Weight: 480	Cement> Neat: 560	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 29, 1994		

MINERALS MANAGEMENT SERVICE
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5-3-94

Chevron

Drilling Activity Report

Measured Depth: 9830	TVD: 6601	PBTD: 9830	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 14	DFS: 0	Spud Date: / /	Daily Footage: 10	Daily Rot Hrs: 3.5	Total Rot Hrs: 3.5				
Torque: 20000	Drag: 120	Rot Weight: 220	P/U Weight: 340	Slack Off Weight: 180	Wind:	Seas:	Bar:	POB: 67	
Last Casing Size: 9.625	Set At: 9820 MD	6695 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 33.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: FRESHWATER POLYMER	Sample From: PIT	Wt: 8.7	FV: 40	PV: 11	YP: 10	Gel: 12/ 32		
WL API: 17.0 HTHP: 0.0	FC(1/32) API: 3 HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 97.0	% Sand: 0.00	MBT: 26.00	pH: 10.1		
Pm: 0.20	Pf/Mf: 0.15/ 0.60	Carb:	Cl: 3100	Ca: 80	Gent: 26.00	Solids % HG/LG: 0.25/ 2.50	% DS/Bent: 0.00/ 2.25		

Drlg Gas: 0	Max Gas : 0	Conn Gas: 0	Trip Gas: 0	Trip Cl: 0	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
1	1-5-7	8.500	REED	BJ2055	HP13-C	16/16/16/	0.589	9820	9820	0
2	5-1-7	8.500	HTC	54588	ATM22G	14/14/14/	0.451	9820	0	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	0.0	20	120	1	1	MD		1	I	NO	BHA	0.00
10	3.5	3	180									2800.50

Total Length Of BHA: 938.73 BHA Description: BIT #2, NAVI DRILL AKO .9, FLOAT SUB, 8" NORTRAK STAB, X-O,
MONEL DC, NM X-O, MWD, NM X-O, MONEL DC, 6-6-1/2" DC'S, 1-JT HW DP, JARS & 19-JTS HW DP

Hrs On Jars: 33.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
1	6.50/6.50/0.00	11/11/ 0	55/ 55/ 0	2550	495	270	214	404	165	2.9	736
2	6.50/6.50/0.00	11/11/ 0	40/ 40/ 0	2050	360	257	155	294	108	1.9	431

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.00	0000-0100 CONTINUE LAY DOWN TOTAL OF 332-JTS 9.3# L-80 HYDRILL 501 TBG FROM DERRICK. USED RIG TONGS TO BREAK OUT JOINTS
	- UNABLE TO BREAK W/ HYDROLIC TONGS.
0.50	0100-0130 R/D TBG TONGS. MOVE 26-STDS 3-1/2" DP IN DERRICK.
1.00	0130-0230 PICK UP 8-1/2" BIT. RIH W/ BHA.
3.50	0230-0600 RIH TAG CMT @ 9656
2.50	0600-0830 DRILL 164' HARD CMT. POLISH OFF KICK-OFF PLUG DOWN TO 9820'.
1.50	0830-1000 CIRC HOLE CLEAN @ 9820'.
4.00	1000-1400 POOH W/ BIT #1.
3.00	1400-1700 P/U BIT #2, 8-1/2" STEERABLE BHA & 20-JTS HWDP. TEST NAVI DRILL & MWD.
3.50	1700-2030 RIH TAG KICK-OFF PLUG @ 9820'.
3.50	2030-2400 TIME DRILL @ 2.5 FPH FROM 9820-30'. SAMPLES @ 9830' HAD .5% FORMATION.
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Remarks: WLTA= 45 DAYS SAFETY MEETING TOPIC: ELECTRICAL SAFETY
OPERATIONS @ 0500 HRS: DRILLING @ 9845' 10% FORMATION
WHS ON BOARD BOB HIRE APPROVED OPERATIONS 4/30/94

Accidents: NONE

Daily Costs: 0

Drill Water: 3163	Potable Water: 315	Fuel: 670	Bulk Weight: 1100	Cement> Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: Apr 30, 1994		

MINERALS MANAGEMENT SERVICE
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MAY 2 - 1994
SANTA MARIA DISTRICT

5-3-94

Chevron

Drilling Activity Report

Measured Depth: 10283	TVD: 6913	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233							
DOC: 15	DFS: 0	Spud Date: / /	Daily Footage: 453	Daily Rot Hrs: 22.5	Total Rot Hrs: 26.0						
Torque: 30000	Drag: 140	Rot Weight: 230	P/U Weight: 370	Slack Off Weight: 180	Wind:	Seas:	Bar:	POB: 66			
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y							
Cum Rot Hrs On Casing: 38.0	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0								
Liner Size: 7.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD							
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Vt: 8.7	FV: 39	PV: 7	YP: 23	Gel: 7/ 10				
WL API: 12.4	HTHP: 0.0	FC(1/32) API: 1	HTHP:	Solids: 2.00	% Oil: 0.0	% Water: 98.0	% Sand: 0.10	MBT: 0.00	pH: 9.1		
Pm: 0.10	Pf/Mf: 0.05/ 0.60	Carb:	Cl: 20000	Ca: 2200	Bent: 0.00	Solids % HS/LG: 0.00/ 2.00	% DS/Bent: 0.50/ 0.00				

Drlg Gas: 13	Max Gas : 35	Conn Gas: 0	Trip Gas: 14	Trip Cl:	Remarks: WIPER TRIP GAS 14 UNITS

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
2	5-1-7	8.500	HTC	5458B	ATM22G	14/14/14/	0.451	9820	0	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
463	26.0	20	180									139.41

Total Length Of BHA: 936.73 BHA Description: BIT #2, NAVI DRILL AKO .9, FLOAT SUB, 8" NORTRAK STAB, X-O,

MONEL DC, NM X-O, MWD, NM X-O, MONEL DC, 6-6-1/2" DC'S, 1-JT HW DP, JARS & 19-JTS HW DP

Hrs On Jars: 56.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC AV	Bit HHP	BHHP/SQIN	Pump HHP
2	6.50/6.50/0.00	11/11/ 0	84/ 0/ 0	1900	378	270	163	309	124	2.2	419
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
10004	48.00	N 55.50W	6710	4252.58N	4866.77W	5636.49	4.54
10094	44.60	N 60.40W	6772	4287.15N	4941.83W	5697.34	5.45
10188	41.20	N 68.10W	6841	4315.02N	4999.31W	5759.22	6.64
10282	39.60	N 72.30W	6912	4335.68N	5056.59W	5819.47	3.36

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
9.00	0000-0900 TIME DRILL 8-1/2" HOLE WITH PENETRATION RATE GRADUALLY INCREASING FROM 2.5 TO 10 FT PER HR FROM 9830' TO 9880'
	- TO ENSURE KICKOFF FROM ABANDONED WELL BORE. MONITOR CUTTINGS & OBSERVED PERCENTAGE OF FORMATION CUTTINGS
	- INCRESING FROM .5 TO 75%.
12.50	0900-2130 DIRECTIONALLY DRILL & SURVEY 8-1/2" HOLE WITH STEERABLE BHA FROM 9880' TO 10,257'. CHANGE OVER FROM FW/GEL MUD
	- TO SW/POLYMER MUD SYSTEM @9900'. COLLECT MUD SAMPLES FOR BIOASSAY TESTING.
0.50	2130-2200 CIRCULATE FOR WIPER TRIP.
1.00	2200-2300 PULL UP TO CSG SHOE. NO EXCESSIVE DRAG. SERVICE TOP DRIVE & RUN BACK IN HOLE.
1.00	2300-2400 DIRECTIONALLY DRILL & SURVEY 8-1/2" HOLE WITH STEERABLE BHA FROM 10,257' TO 10,283'.
	-
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	-
	-
	-
	-
	- 0600 HRS: DRILLING 8-1/2" HOLE AT 10,473'.
	-

Remarks: NLTA FOR 46 DAYS. TOURLY SAFETY MEETINGS - DISCUSSED DAILY OPERATIONS & NYLON SLING USAGE.

Accidents: NONE

Daily /-

Cum /-

Drill Water: 3423	Potable Water: 316	Fuel: 903	Bulk Weights: 1100	Cement: Neat: 1020	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 01, 1994			

MINERALS MANAGEMENT SERVICE
RECEIVED
MAY 2 - 1994
SANTA MARIA DISTRICT

5-3-94

Chevron

Drilling Activity Report

Measured Depth: 10668	TVD: 7204	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 16	DFS: 0	Spud Date: / /	Daily Footage: 385	Daily Rot Hrs: 17.5	Total Rot Hrs: 43.5				
Torque: 30000	Drag: 140	Rot Weight: 240	P/U Weight: 380	Slack Off Weight: 180	Wind:	Seas:	Bar:	POB: 73	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 43.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					

Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 8.7	FV: 41	PV: 8	YP: 29	Gel: 11/ 16				
WL API: 10.5	WLHTHP: 0.0	FC(1/32) API: 1	HTHP:	Solids: 1.50	% Oil: 0.0	% Water: 98.5	% Sand: 0.10	MBT: 2.50	PM: 8.6		
PM: 0.00	Pf/Mf: 0.05/ 0.50	Carb:	Cl: 20000	Ca: 1400	Gent: 0.62	Solids % HG/LG: 0.00/ 1.50	% DS/Bent: 1.30/ 0.20				

Drlg Gas: 12	Max Gas: 32	Conn Gas: 0	Trip Gas: 14	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
2	5-1-7	8.500	HTC	545BB	ATM22G	14/14/14/	0.451	9820	10668	7204

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	7Pull	Cost/Ft
848	43.5	20	180	6	8	BT	N	8	IN	CT	PEN	110.51

Total Length Of BHA: 938.73 BHA Description: BIT #2, NAVI DRILL AKO .9, FLOAT SUB, 8" NORTRAK STAB, X-O,

MONEL DC, NM X-O, MWD, NM X-O, MONEL DC, 6-6-1/2" DC'S, 1-JT HW DP, JARS & 19-JTS HW DP

Hrs On Jars: 73.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
2	6.50/6.50/8.00	11/11/ 0	85/ 0/ 0	2200	383	273	165	313	129	2.3	492
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
10375	38.80	N 80.10W	6985	4349.34N	5112.94W	5877.42	5.37
10470	42.20	N 86.40W	7057	4356.47N	5174.15W	5938.82	5.60
10565	42.30	N 89.60W	7128	4358.70N	5237.97W	6001.80	2.27

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
17.50	0000-1730	SLIDE AND ROTARY DRILL 8 1/2" HOLE & MWD SURVEY W/STEERABLE MUD MOTOR FROM 10,283' TO 10,668'. BIT TORQUING UP.
1.00	1730-1830	CIRCULATE BOTTOMS UP. PUMP DRY JOB.
5.50	1830-2400	POOH TO CHANGE BIT AND BHA. WILL RIH WITH ROTARY DROPPING BHA.
	-	
	-	ADDED TECH MUD LUBRICANT 2 LBS PER BBL & OBSERVED 2500 FT LBS REDUCTION IN TORQUE & 15,000 LB REDUCTION IN DRAG.
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	-	
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	-	
	-	

Remarks: OPERATIONS AT 0600 HRS: RIH TO 9 5/8" SHOE. SERVICING DRILLING LINE.

ALLEN ADAMS WITH MMS COLLECTED SAMPLES OF SEAWATER POLYMER MUD FOR MOSB STUDY.

NLTA = 47 DAYS SAFETY MEETING TOPIC: WIREROPE AND NYLON STRAPS

MMS PERSONNEL ON BOARD TODAY SAMPLE CATCHER ALLEN ADAMS. Accidents: NONE

Bar:

Cum

Drill Water: 5500	Potable Water: 116	Fuel: 625	Bulk Weight: 1043	Cement Neat: 1020	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/ROBERTS				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (68D) ST #1	Date: May 02, 1994				

MINERALS MANAGEMENT SERVICE
MAY - 3
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SANTA MARIA DISTRICT
PROPRIETARY/CONFIDENTIAL INFORMATION

5-3-94

Chevron

Drilling Activity Report

Measured Depth: 10825	TVD: 7322	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233			
DOL: 17	DFS: 0	Spud Date: / /	Daily Footage: 157	Daily Rot Hrs: 3.5	Total Rot Hrs: 47.0		
Torque: 29000	Drag: 140	Rot Weight: 240	P/U Weight: 380	Slack Off Weight: 185	Wind:	Seas:	Bar:	POB: 72
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y			
Cum Rot Hrs On Casing: 47.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0				
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD			
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 8.8	FV: 38	PV: 8	YP: 28	Gel: 10/ 13
WL API: 12.5 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 2.25	% Oil: 0.0	% Water: 97.7	% Sand: 0.10	MBT: 5.00	PM: 9.4
Pm: 0.30	Pf/Mf: 0.10/ 0.60	Carb:	Cl: 19500	Ca: 400	Bent: 2.80	Solids % HG/LG: 0.00/ 2.25	% DS/Bent: 1.95/ 0.30

Drlg Gas: 30	Max Gas: 60	Conn Gas: 8	Trip Gas: 22	Trip Cl:	Remarks:

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
3	5-1-7	8.500	REED	SW2244	HP51A	13/13/13/	0.389	10668	10825	7322

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
157	3.5	35	100	1	1	NO	A	E	IN	NO	BHA	198.81

Total Length Of BHA: 1022.42 BHA Description: BIT #4, NAVI-DRIL AKO W/0.9 DEGREES, FS, HORTRAK MWD, XO, MONEL, XO, MWD, MONEL, 1-HWDP, JARS, 28 JTS HWDP

Hrs On Jars: 77.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
3	6.50/6.50/0.00	11/11/ 0	95/ 0/ 0	2500	428	354	185	350	245	4.3	624
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
10651	42.70	S 89.00W	7191	4358.39N	5296.07W	6058.67	1.19
10743	40.30	S 86.60W	7260	4356.08N	5356.97W	6117.89	3.13

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.50	0000-0130 FINISH MAKING UP ROTARY DROP BHA. RIH W/BHA. P/U 9 ADDITIONAL JTS OF HWDP.
1.00	0130-0230 SERVICE TOP DRIVE UNIT.
4.50	0230-0700 RIH TO 9 5/8" CASING SHOE, PICKING UP 33 JTS OF 4 1/2" G-105 DRILL PIPE.
1.00	0700-0800 SERVICE DRILLING LINE.
1.00	0800-0900 FINISH RIH TO 10,042'.
1.50	0900-1030 TURBINE POWER DOWN. STANDBY FOR POWER.
1.00	1030-1130 REAM MUD MOTOR RUN FROM 10,042' TO 10,668'.
3.50	1130-1500 ROTARY DRILL 8 1/2" HOLE FROM 10,668' TO 10,825'. BHA DROPPING ANGLE TOO FAST PLUS TURNING AWAY FROM COURSE.
1.00	1500-1600 CIRCULATE. MUD IN = MUD OUT AT 8.8 PPG. PUMP DRY JOB.
4.50	1600-2030 POOH, TO PICK UP STEERABLE DRILLING BHA.
2.00	2030-2230 LAY DOWN ROTARY BHA. MAKE UP STEERABLE BHA.
1.50	2230-2400 RIH AT MIDNITE.
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	"
	"

PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0500 HRS: DIRECTIONALLY DRILLING AHEAD AT 10,900'

NLTA = 68 DAYS SAFETY MEETING TOPIC: HAND SIGNALS.

MMS PERSONNEL ON BOARD: NONE

Accidents: NAR

Drill Water: 3546	Potable Water: 316	Fuel: 600	Bulk Weight: 1063	Cement> Neat: 1020	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 03, 1994			

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MINERALS MANAGEMENT SERVICE
MAY - 4 1994
RECEIVED
SANTA MARIA DISTRICT

5-11-94

Chevron

Drilling Activity Report

Measured Depth: 11318	TVD: 7714	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233							
DOL: 18	DFS: 0	Spud Date: / /	Daily Footage: 493	Daily Rot Hrs: 20.5	Total Rot Hrs: 67.5						
Torque: 29000	Drag: 145	Rot Weight: 250	P/U Weight: 395	Slack Off Weight: 190	Wind:	Seas:	Bar:	POB: 72			
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y							
Cum Rot Hrs On Casing: 68.0	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0								
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD							
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 8.9	FV: 40	PV: 7	YP: 31	Gel: 11/ 14				
WL API: 11.8 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 3.00	% Oil: 0.0	% Water: 97.0	% Sand: 0.10	MBT: 6.00	PH: 9.1				
Pm: 0.18	Pf/Mf: 0.05/ 0.60	Carb:	Cl: 20000	Ca: 400	Bent: 2.90	Solids % HG/LG: 0.00/ 3.00	% OS/Bent: 2.70/ 0.30				

Drlg Gas: 28	Max Gas: 64	Conn Gas: 8	Trip Gas: 67	Trip Cl:	Remarks: GARRET GAS TRAIN: D

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
4	5-2-7	8.500	SMITH	EX8035	MF27DL	13/13/13/	0.389	10825	0	0

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	7Pull	Cost/Ft
493	20.5	25	250									120.78

Total Length Of BHA: 1022.42 BHA Description: BIT #4, NAVI-DRIL AKO W/0.9 DEGREES, FS, NORTRAK MWD, XO, MONEL, XO, MWD, MONEL, 1-HWDP, JARS, 28 JTS HWDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
4	6.50/6.50/0.00	11/11/ 0	85/ 0/ 0	# 2300	383	317	165	313	180	3.2	314
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
10834	37.10	S 86.20W	7331	4352.51N	5413.75W	6172.82	3.53
10928	38.80	N 87.50W	7405	4351.92N	5471.49W	6229.28	4.50
11089	38.60	N 81.80W	7531	4361.74N	5571.63W	6329.37	1.74
11212	36.00	N 83.60W	7629	4371.60N	5645.41W	6403.63	2.44

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
2.50	0000-0230	FINISH RIH W/8 1/2" STEERABLE BHA AND BIT #4 TO 10,825'.
15.50	0230-1800	ORIENT MUD MOTOR. DRILL AND MWD SURVEY IN ORIENTED MODE FROM 10,825' TO 11,135'.
2.00	1800-2000	DRILL IN ROTARY MODE FROM 11,135' TO 11,187'.
1.00	2000-2100	CIRCULATE AND MAKE 5 STAND WIPER TRIP TO 10,825'. 395K UP AND 190K DOWN.
3.00	2100-2400	DRILL AND MWD SURVEY, IN ROTARY MODE FROM 11,187' TO 11,315' AT MIDNITE.

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To D. Knowlson		From N Jones/L Phillips	
Co. MMS		Co. Chevron	
Dept. Santa Maria		Phone # 805 658-4480	
Fax # 925-8540		Fax # 658-4405	

PROPRIETARY/CONFIDENTIAL INFORMATION

MINERALS MANAGEMENT SERVICE
MAY - 5 1994
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SANTA MARIA DISTRICT

Remarks: OPERATIONS AT 0530 HRS: DRILLING AHEAD AT 11,472'.

NLTA = 36 (CORRECTED) DAYS

SAFETY MEETING TOPIC: LIFTING DRUMS

NO NWS PERSONNEL ON BOARD TODAY DUE TO FOG.

KRAIG GUIN-ROUSTABOUT, PINCHED MIDDLE FINGER OF LEFT HAND ON PIPE TONGS ON 5/3/94. REPORTED 24HRS LATE.

Accidents: ONE

Dai

Cu

Drill Water: 3509	Potable Water: 315	Fuel: 534	Bulk Weight: 1063	Cement> Neat: 1020	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (ARD) ST #1	Date: May 04, 1994				

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5-11-94

Chevron

Drilling Activity Report

Measured Depth: 11658	TVD: 8007	PBTD: 0	Proposed MD: 11[illegible]	Proposed TVD: 8233					
DOL: 19	DFS: 0	Spud Date: / /	Daily Footage: 340	Daily Rot Hrs: 12.5	Total Rot Hrs: 80.0				
Torque: 31000	Drag: 160	Rot Weight: 250	P/U Weight: 410	Slack Off Weight: 190	Wind:	Seas:	Bar:	POB: 67	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff (Y/N): Y					
Cum Rot Hrs On Casing: 80.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 9.0	FV: 41	PV: 8	YP: 31	Gel: 10/ 13		
WL API: 12.4	WLHP: 0.0	FC(1/32) API: 1	HTHP:	Solids: 3.75	% Oil: 0.0	% Water: 96.3	% Sand: 0.10	MBT: 7.08	pH: 9.5
Pm: 0.35	Pf/Mf: 0.10/ 0.70	Carb:	Cl: 20000	Ca: 160	Bent: 2.97	Solids % HG/LG: 0.00/ 3.75	% DS/Bent: 3.43/ 0.32		

Drlg Gas: 57	Max Gas: 93	Conn Gas: 0	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
4	5-2-7	8.500	SMITH	KX8035	MF27DL	13/13/13/	0.389	10825	11658	8007

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
833	33.0	25	250	3	7	BT	N	F	1/4	RG	BHA	96.49

Total Length Of BHA: 1022.42 BHA Description: BIT #4, NAVI-DRIL AXD W/0.9 DEGREES, FS, NORTRAK MWD, XO, MONEL, XO, MWD, MONEL, 1-HWDP, JARS, 28 JTS HWDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SqIN	Pump HHP
4	6.50/6.50/0.00	11/11/ 0	85/ 0/ 0	2400	383	317	165	313	180	3.2	536
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
11306	34.90	N 85.00W	7705	4377.85N	5699.65W	6457.87	1.45
11400	32.50	N 85.00W	7783	4381.57N	5751.61W	6509.69	2.55
11493	30.80	N 85.70W	7863	4385.54N	5800.24W	6558.13	1.87
11588	28.00	N 85.00W	7945	4389.30N	5846.72W	6604.43	2.97

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
12.50	0000-1230	DRILL AND MWD SURVEY 8 1/2" HOLE WITH STEERABLE BHA FROM 11,318' TO 11,658'. BIT TORQUING UP.
2.00	1230-1430	CIRCULATE BOTTOMS UP. PUMP DRY JOB.
5.00	1430-1930	POOH WITH STEERABLE BHA. LAY DOWN MUD MOTOR.
1.00	1930-2030	PULL WEAR BUSHING AND SET TEST PLUG.
3.50	2030-2400	TESTING BOPE W/4 1/2" DP FROM FLOOR STATION. TEST ALL COMPONENTS TO 300 AND 3500 PSI USING WATER.

MINERALS MANAGEMENT SERVICE
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Post-it™ brand fax transmittal memo 7671 | # of pages ▸
To: D Knowlson | From: N Jones/L Phillips
Co.: MMS | Co.: Chevron
Dept.: Santa Maria | Phone #: 805 658-4480 -4493
Fax #: 925-8546 | Fax #: 658-4405

PROPRIETARY/CONFIDENTIAL INFORMATION

Remarks: OPERATIONS AT 0600 HRS: RIH WITH NEW BHA TO REAM MOTOR RUN AND FINISH WELL.

RIG IA = 37 DAYS. SAFETY MEETING TOPIC: LIFEBOATS ROUSTABOUTS REFRESHER ON TONG USE.

ROY HOBBITT OF MMS ON BOARD TODAY.

Accidents: NAR

Daily Mud Cost:

Cum Mud Cost:

Drill Water: 3589	Potable Water: 315	Fuel: 534	Bulk Weight: 1063	Cement> Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Reps: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 05, 1994		

5/5

5-11-94

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 20	DFS: 0	Spud Date: / /	Daily Footage: 253	Daily Rot Hrs: 10.0	Total Rot Hrs: 90.0				
Torque: 31000	Drag: 100	Rot Weight: 260	P/U Weight: 360	Slack Off Weight: 200	Wind:	Seas:	Bar:	POB: 71	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 91.5	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0						
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 9.1	FV: 39	PV: 8	YP: 30	Gel: 10/ 13		
WL API: 12.0 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 4.50	% Oil: 0.0	% Water: 95.5	% Sand: 0.25	MBT: 7.00	pH: 8.8		
Pm: 0.10	Pf/Mf: 0.05/ 0.70	Carb:	Cl: 20000	Ca: 160	Bent: 1.59	Solids % HG/LG: 0.00/ 4.50	% DS/Bent: 4.34/ 0.17		

Drlg Gas: 35	Max Gas : 74	Conn Gas: 0	Trip Gas: 58	Trip Cl:	Remarks: GARRETT GAS TRAIN = 0						
Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out	
5 RR	5-1-7	8.500	REED	BW2244	HP51A	13/13/13/	0.389	11658	11911	8235	
Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
253	10.0	35	100	6	8	WT	A	F	3/4	RG	TD	135.05

Total Length Of BHA: 1001.25 BHA Description: BIT #5RR, 8 1/4" NMSTAB, MONEL, XO, 8 1/2" NMSTAB, MWD, 8 1/2" MM STAB, MONEL, 1-HWDP, JARS, 28 JTS HWDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
5 RR	6.50/6.50/0.00	11/11/ 0	85/ 0/ 0	2300	383	317	165	313	180	3.2	514
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS
11683	26.90	N 86.40W	8030	4392.60N	5890.38W	6647.88	1.34
11778	26.20	N 84.60W	8115	4395.92N	5932.71W	6690.02	1.12
11864	25.30	N 82.20W	8192	4400.20N	5969.82W	6727.23	1.68
11911	25.30	N 82.20W	8235	4402.95W	5989.72W	6747.28	0.00

Operations Covering 24 Hours Ending At Midnight

Hrs	(From-To)
0.50	0000-0030 FINISH TESTING CLASS IV BOPE TO 300 AND 3500 PSI FROM THE RIG FLOOR, USING WATER. FUNCTIONED REMOTE CONTROLS.
1.00	0030-0130 PULL TEST PLUG. SET WEAR BUSHING. MAKE UP BHA DROP BHA.
3.50	0130-0500 RIH TO 10,825'.
2.00	0500-0700 REAM MUD MOTOR RUN FROM 10,825' TO 11,658'.
10.00	0700-1700 DRILL AND MWD SURVEY 8 1/2" HOLE FROM 11,658' TO 11,911', TD.
1.50	1700-1830 CIRCULATE BOTTOMS UP.
1.50	1830-2000 WIPE HOLE TO 9 5/8" CASING. 100K EXCESS DRAG. RIH.
2.50	2000-2230 CIRCULATE AROUND A HI-VISC SWEEP. SPOT TEK-MUD PILL IN OPEN HOLE AHEAD OF DRY JOB.
1.50	2230-2400 POOH TO RUN FORMATION EVALUATION TOOLS.
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	- NOTE: TEK-MUD PRODUCT DECREASED DRAG IN OPEN HOLE BY 50K TO 70K AND REDUCED ROTARY TORQUE BY 40-80 AMP.
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Remarks: OPERATIONS AT 0600 HRS: RUNNING IN HOLE WITH FIRST SUITE OF LOGS.

MLTA = 38 DAYS

SAFETY MEETING TOPIC: WAY SAFETY MEETINGS, DAILY OPERATIONS

NO MMS PERSONNEL ON BOARD TODAY.

Daily Mud: Accidents: NAR

Cum Mud:

Drill Water: 3475	Potable Water: 309	Fuel: 534	Bulk Weights: 1063	Cement: Neat: 1020	Blended: 0	
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4522	Drilling Reps: BROWN/ROBERTS			
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 06, 1994			

MINERALS MANAGEMENT SERVICE
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5/6

5-11-94

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8235					
DOL: 21	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0				
Torque: 31000	Drag: 100	Rot Weight: 240	P/U Weight: 360	Slack Off Weight: 200	Wind:	Seas:	Bar:	POB: 70	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 91.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 9.1	FV: 41	PV: 8	YP: 32	Gel: 10/ 14		
WL API: 12.0 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 4.50	% Oil: 0.0	% Water: 95.5	% Sand: 0.25	MBT: 7.00	pH: 8.8		
Pm: 0.10	Pf/Mf: 0.05/ 0.70	Carb:	Cl: 20000	Ca: 160	Bent: 1.59	Solids % HG/LG: 0.00/ 4.50	% OS/Bent: 4.34/ 0.17		

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRETT GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
5 RR	5-1-7	8.500	REED	BW2244	HP51A	13/13/13/	0.389	11658	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
253	10.0	0	0	6	8	WT	A	F	3/4	RG	TD	135.05

Total Length Of BHA: 1001.25 BHA Description: BIT #5RR, 8 1/4" NBSTAB, MONEL, XO, 8 1/2" NMSTAB, NMD, 8 1/2" NM STAB, MONEL, 1-NMDP, JARS, 28 JTS HWDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
5 RR	6.50/6.50/0.00	11/11/ 0	85/ 0/ 0	@ 2400	383	317	165	313	182	3.2	536
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.50	0000-0230 FINISH POOH TO RUN LOGS.
1.00	0230-0330 LAY DOWN ALL BHI DIRECTIONAL TOOLS AND BHA.
1.50	0330-0500 RIG UP SCHLUMBERGER LUBRICATOR AND PACKOFF. MAKE UP LOGGING TOOLS.
6.00	0500-1100 RUN #1: DLL-SP-GR-AMS-SDT FROM 11910' TO 9820'.
6.80	1100-1700 RUN #2: LDT-CNL-NGT-AMS FROM 11911' TO 9820'.
6.50	1700-2330 RUN #3: SWDT-GR-AMS FROM 11910' TO 9820'. RIG DOWN LOGGERS.
0.50	2330-2400 MAKING UP CLEAN OUT BHA AT MIDNITE.
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	- NOTE: HOLE TOOK APPROXIMATELY 6 BBLS DURING LOGGING OPERATIONS.
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Remarks: OPERATIONS AT 0500 HRS: CIRCULATING HOLE CLEAN FOR LINER.

MLTA = 39 DAYS SAFETY MEETING TOPIC: H2S

NO MMS PERSONNEL ON BOARD TODAY.

Accidents: NAR.

Dsl:

Gas:

Drill Water: 3509	Potable Water: 315	Fuel: 534	Bulk Weight: 1020	Cement: Wmat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 638-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 07, 1994		

MINERALS MANAGEMENT SERVICE
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SANTA MARIA DISTRICT

5/7

5-11-94

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 0	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 22	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0				
Torque: 18100	Drag: 60	Rot Weight: 255	P/U Weight: 315	Slack Off Weight: 220	Wind:	Seas:	Bar:	POB: 65	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 91.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 0.000	Set At: 0 MD	0 TVD	Liner Top At: 0 MD	0 TVD					
Mud Company: PROFCO	Type: SEAWATER POLYMER	Sample From: PIT	Wt: 9.0	FV: 40	PV: 7	YP: 30	Gel: 10/ 14		
WL API: 11.6 HTHP: 0.0	FC(1/32) API: 1 HTHP:	Solids: 4.50	% Oil: 0.0	% Water: 95.5	% Sand: 0.25	MBT: 7.00	pH: 8.5		
Pm: 0.10	Pf/Mf: 0.05/ 0.60	Carb:	Cl: 20000	Ca: 160	Bent: 2.59	Solids % HG/LG: 0.00/ 4.50	% OS/Bent: 4.18/ 0.32		

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRETT GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
1 RR	1-3-7	8.500	REED	BJ2055	HP13G	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	0.0	10	100									0.00

Total Length Of BHA: 940.63 BHA Description: BIT #1RR, 8 1/4" NBSTAB,BIT SUB, DC, 8 1/2" STAB, 1-NMDP, JARS, 2 A NMDP

Hrs On Jars: 97.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
1 RR	6.50/6.50/0.00	11/11/ 0	50/ 50/ 0	1800	458	61	194	368	8	0.1	473
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
0.50	0000-0030 FINISH MAKING UP CLEAN OUT BHA.
3.50	0030-0400 RIH TO 11,737'.
2.00	0400-0600 REAM HOLE FROM 11,737' TO 11,867'. REAM UNDER GUAGE HOLE FROM 11,867' TO 11,911'.
2.50	0600-0830 CIRCULATE HOLE CLEAN FOR LINER. SPOT TEK-MUD PILL IN OPEN HOLE.
5.00	0830-1330 POOH. LAYDOWN CLEAN OUT BHA.
0.50	1330-1400 PULL WEAR BUSHING.
4.00	1400-1800 MAKE UP 55 JTS OF 7", 26#, L80, HYDRIL 521 LINER W/BAKER INSERT TYPE FLOAT SHOE ON BOTTOM, INSERT FLOAT VALVE ON
	- TOP OF 2ND JT AND PLUG LANDING COLLAR IN BOTTOM OF 3RD JT. PLACE CENTRALIZERS 10' ABOVE SHOE, TOP OF 1ST JT, THEN
	- EVERY 35' TO 40'(PER DAVIS LYNCH CENTRALIZER PROGRAM) TOTO TOP OF LINER.
1.00	1800-1900 MAKE UP BAKER-BROWN 9 5/8" X 7" HYFLO II HYDRAULIC SET LINER HANGER. FILL LINER
3.50	1900-2230 RIH, SLOWLY WITH 7" LINER.
1.00	2230-2330 LOST PLATFORM POWER. START EMERGENCY GENERATOR. WAIT ON PLATFORM POWER BEFORE PROCEEDING INTO OPEN HOLE.
0.50	2330-2400 CONTINUE RIH WITH LINER.
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Remarks: OPERATIONS AT 0500 HRS: RIH W/LINER TO 11,911'. CIRCULATING HOLE CLEAN W/SEAWATER PRIOR TO CEMENTING LINER.

MLTA = 48 DAYS - SAFETY MEETING TOPIC: FIRE EXTINGUISHERS

ROY BOSWELL (MMS) REVIEWED AND APPROVED OPERATIONS.

Accidents: NAR

Daily P

Cum MU

Drill Water: 3490	Potable Water: 310	Fuel: 534	Bulk Weight: 1020	Cement> Neat: 1020	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DLM #65	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/ROBERTS		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SHD) ST #1	Date: May 08, 1994		

MINERALS MANAGEMENT SERVICE
MAY - 9 1994
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SANTA MARIA DISTRICT

25/8

5-11-94 DGM

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11824	Proposed MD: 11978	Proposed TVD: 8233	
DOL: 23	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0
Torque: 12000	Drag: 15	Rot Weight: 235	P/U Weight: 258	Slack Off Weight: 210	Wind:	Seas:	Bar:	POB: 72
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y	
Cum Rot Hrs On Casing: 92.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0		
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	0 TVD	
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 28	PV:	YP:	Gel: /
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.0
Pm: 0.00	Pf/Mf: 0.00/ 0.30	Carb:	Cl: 54000	Ca: 2000	Gent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: BARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
1 RR	1-3-7	8.500	REED	BJ2055	HP13G	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft
0	0.0	5	100									0.00

Total Length Of BHA: 904.40 BHA Description: BIT #1RR, 9 5/8" CASING SCRAPER, X-O, 1JT HWDP, JARS, 2BJTS HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHP/SQIN	Pump HHP
1 RR	6.50/6.50/0.00	11/11/ 0	50/ 50/ 0	1250	450	61	194	368	8	0.1	328
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
4.50	0000-0430	CONTINUE RIH W/ TOTAL OF 55 JTS 7" 26# L80 HYDRIL 521 LINER LANDED @ 11911' TOL @ 9579'. INSERT TYPE FLOAT @
	-	11824' FLAG JT @ 11078'. CZB'S PLACED 10' ABOVE SHOE, TOP OF 1ST JT, THEN EVERY 35' TO 40' TO TOL.
5.50	0430-1000	CIRC HOLE CLEAN. DISPLACE POLYMER MUD W/ KCL SEA WATER COMPLETION FLUID FILTERED TO .5 MICRON. TREATED W/ SCALE-
	-	TROL 5GAL/200 BBLS.
1.50	1000-1130	DROP BALL SET BAKER HYDRAULIC LINER HGR W/ 1500 PSI. SHEAR OUT BALL @ 2700 PSI. ROTATE OFF OF LINER.
1.00	1130-1230	CMT 7" LINER. MIX & PUMP 488 FT3 (428 SK) CLASS "G" CMT W/ 1% CD-32 & .6% FL-52 15.8 PPG. DISPLACE W/ 209 BBLS
	-	SEA WATER. BUMP PLUG W/ 3000 PSI FLOAT HELD OK. SHUT IN @ 12:30 HRS. R/D BJ SERVICES.
3.50	1230-1600	POOH W/ DP. LAY DOWN LINER SETTING TOOLS.
1.00	1600-1700	RIH W/ 8-1/2" BIT, 9-5/8" CSG SCRAPER & BHA.
2.50	1700-1930	SLIP & CUT DRILLING LINE. SERVICE TOP DRIVE.
2.50	1930-2200	RIH W/ 8-1/2" BIT & 9-5/8" CSG SCRAPER. TAG CMT @ 9484'.
1.00	2200-2300	DRILL OUT CMT FROM 9484' TO TOL @ 9579'.
1.00	2300-2400	CIRC HOLE CLEAN.
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	-	
	-	
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Comments: BLTA= 47 DAYS SAFETY MEETING TOPIC: SAFETY SHOWERS

OPERATIONS @ 0500 HRS: RIH W/ 6-1/8" BIT & 7" CSG SCRAPER

MMS ON BOARD ROY BORRITT

Accidents: NONE

Daily							55	
Cum Mud							38	
Drill Water: 3509	Potable Water: 315	Fuel: 534	Bulk Weight: 1028	Cement> Rmat: 590	Blended: 0			
District: VENTURA PROFIT CENTER	Rig: DUAL #65	Rig Phone: (805) 658-4522	Drilling Rep: BROWN/SALAZAR					
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 09, 1994					

MINERALS MANAGEMENT SERVICE
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SANTA MARIA DISTRICT

5-17-94

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885	Proposed MD: 11978	Proposed TVD: 8233		
DOL: 24	DFB: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0	
Torque: 16000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205	Wind:	Seas:	Bar:	POB: 73
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y		
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0			
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	0 TVD		
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PH: 7.5
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Gent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00	

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
6 RR	1-1-6	6.125	SEC	627564	S33F	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	7Pull	Cost/Ft
0	0.0	12	70									0.00

Total Length Of BHA: 551.01 BHA Description: BIT #6RR, 7" CASING SCRAPER, BS, 18 JTS 3-1/2" HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
6 RR	6.50/6.50/0.00	11/11/ 0	50/ 50/ 0	2700	450	61	406	437	8	0.3	709
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
4.00	0000-0400	POOH WITH 8-1/2" BIT.
0.50	0400-0430	INSTALL WEAR BUSHING.
2.00	0430-0630	RU 6-1/8" BIT, 7" CSG SCRAPER & PICK UP 18 JTS 3-1/2" HWDP.
4.50	0630-1030	RIH WITH 3-1/2" & 4-1/2" DP TO TOP OF LINER AT 9579'.
4.00	1030-1430	CLEAR OUT TOL FROM 9579-80'. RIH W/ 6-1/8" BIT & 7" CASING SCRAPER. TAG CMT STRINGERS @ 11760'.
4.00	1430-1830	DRILL OUT CMT FROM 11760' TO 11824'. DRILL OUT FLOAT & HARD CMT TO 11885'.
2.00	1830-2030	CIRC HOLE CLEAN W/ 8.7 PPG KCL SEAWATER. FILTERED TO .5 MICRON & TREATED W/ 50AL/200 BBLS SCALE-TROL.
3.50	2030-2400	POOH WITH 6-1/8" BIT.

Remarks: 42 DAYS NO LTA. TOURLY SAFETY MEETING DISCUSSED OFFLOADING BOAT.

OPERATIONS @ 0500 HRS: TESTING ROPE.

Accidents: NONE

Daily Mud: LWD46155

Cum Mud $: 1494938

Drill Water: 3410	Potable Water: 335	Fuel: 565	Bulk Weight: 1028	Cement Used: 500	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 658-4822	Drilling Rep: SALAZAR/PICCIOTTI		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 10, 1994		

MINERALS MANAGEMENT SERVICE
MAY 11 1994
RECEIVED
SANTA MARIA DISTRICT

5-17-94

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885	Proposed MD: 11976	Proposed TVD: 8233					
DOL: 25	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 98.0				
Torque: 14000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205	Wind:	Seas:	Bar:	POB: 78	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	6457 TVD					

Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /		
Wt. API: 0.0	HTHP: 0.0	FC(1/32) API: 0	HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PM: 7.5
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00		% DS/Bent: 0.00/ 0.00	

Drlg Gas:	Nox Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
6 RR	1-1-6	6.125	SEC	627564	833F	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	TPull	Cost/Ft
0	0.0	12	70									0.00

Total Length Of BHA: 591.01 BHA Description: BIT MSRR, 7" CASING SCRAPER, BS, 18 JTS 3-1/2" HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	EPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
6 RR	6.50/6.50/0.00	11/11/ 0	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.00	0000-0100 POOH WITH 6-1/8" BIT.
7.50	0100-0830 W/ BJ PRESSURE TEST 13-5/8" CLASS IV BOPE AS FOLLOWS: UPPER & LOWER PIPE RAMS & ANNULAR WITH 3-1/2" & 4-1/2" DP,
	- BLIND RAMS, CHOKE & KILL LINE VALVES, CHOKE VALVES, MUD MANIFOLD VALVES, 3-1/2" & 4-1/2" SAFETY VALVES & INSIDE
	- BOP, & UPPER & LOWER KELLY COCK TO 300 & 3500 PSI.
6.00	0830-1430 RU SCHLUMBERGER. RUN CBT/CBT LOGS FROM 11,852' TO 9390'. CBT SHOWS GOOD TO EXCELLENT BOND. CET SHOWS LIMITED\
	- INTERMITTANT CHANNELING FROM 11,440' TO 10,110'.
1.00	1430-1530 LAY DOWN 6-1/2" DCS.
0.50	1530-1600 SERVICE TOP DRIVE.
1.00	1600-1700 USING BJ PRESSURE TEST 9-5/8" CSG & 7" LINER TO 2700 PSI FOR 30 MIN.
0.50	1700-1730 HOLD SAFETY MEETING WITH SCHLUMBERGER TO DISCUSS HANDLING TBG CONVEYED PERF GUNS.
6.50	1730-2400 RU & RIH WITH SCHLUMBERGER PERF STRING AS FOLLOWS: 495' OF PERF GUNS & BLANK AS PROGRAMMED, SAFETY SPACER,
	- ADAPTER, DIFFERENTIAL PRESSURE FIRING HEAD, XO, PORTED SUB, POSITEST PKR, TRANSFER SUB, SAFETY JT, HYDRAULIC
	- JARS, FULLBORE PCT, 1 STAND 3-1/2" DP, MULTI-ID REVERSING VALVE, 1 STAND 3-1/2" DP, PUMP OUT & RA SUB, 25 STANDS
	- 3-1/2" DP, XO & 4-1/2" DP.
	-
	-
	-
	-

Remarks: 43 DAYS NO LTA. TOURLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & HSE.

0500 HRS: PERFORATE 7" LINER W/ TCP GUNS @ 11308-11434, 11476-11624 & 11656-11804

Accidents: NONE

Daily Mud Cost: 3446155

Cum Mud Cost: 1494938

Drill Water: 3806	Potable Water: 230	Fuel: 819	Bulk Weights: 1063	Cement Used: 590	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DUAL 845	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 11, 1994				

5-17-94
08M

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885					Proposed MD: 11978		Proposed TVD: 8233		
DOL: 26	DFS: 0	Spud Date: / /		Daily Footage: 0			Daily Rot Hrs:		Total Rot Hrs: 90.0		
Torque: 16000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205			Wind:	Seas:	Bar:	POB: 75	
Last Casing Size: 9.625		Set At: 9820 MD	6595 TVD				Shoe Test: 15.0 EMW		Leakoff? (Y/N): Y		
Cum Rot Hrs On Casing: 96.5		Cum Rot Hrs On Casing Since Last Caliper : 0.0					Depth Worst Wear : 0		% Remaining: 0.0		
Liner Size: 7.000		Set At: 11911 MD	8235 TVD				Liner Top At: 9579 MD		6457 TVD		
Mud Company: PROFCO		Type: SEAWATER			Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /	
WL API: 0.0 HTHP: 0.0		FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.5			
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00		% OS/Bent: 0.00/ 0.00			

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out
6 RR	1-1-6	6.125	SEC	627564	S33F	32/32/32/	2.356	11911	11911	8235

Feet	Hours	WOB	RPM	1-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/ft
0	0.0	0	0									0.00

Total Length Of BHA: 551.01 BHA Description: BIT #6RR, 7" CASING SCRAPER, BS, 18 JTS 3-1/2" HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
6 RR	6.50/6.50/0.00	11/11/ 0	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
2.00	0000-0200 CONTINUE RIH WITH SCHLUMBERGER PERF GUNS ON DP. PUMP DOWN DP & CLOSE MIDRV. RUN LAST 24 STANDS IN HOLE DRY TO
	- PROVIDE 1000 PSI UNDERBALANCE.
2.00	0200-0400 RU SCHLUMBERGER. RUN GR CORRELATION LOG IN DP & SET ON DEPTH WITH E LOG FOR PERFORATING.
2.00	0400-0600 SPACE OUT DRILL PIPE. RU CONTROLL HEAD. SET PKR AT 11,290'. RU SURFACE LINES & TEST SAME. PRESSURE UP ON ANNULUS
	- TO 1500 PSI TO OPEN PCT & FIRE GUNS. PERFORATE THE FOLLOWING INTERVALS USING 4-1/2" TCP GUNS WITH 5 HPF & 37
	- GRAM CHARGES: 11,308' TO 11,434', 11,476' TO 11,624', 11,656' TO 11,804'.
2.00	0600-0800 OBSERVE WELL. HAD STRONG BLOW BUT FLUID DID NOT SURFACE.
3.00	0800-1100 BLEED OFF PRESSURE ON ANNULUS & CLOSE PCT. FILL DP WITH 5 BBLS & OPEN MIDRV. REVERSE OUT DP VOLUME & RECOVERED
	- 15 BBLS OIL. CLOSE MIDRV. LOCK OPEN PCT. PULL PKR. OBSERVE WELL. FILL HOLE WITH 24 BBLS 8.7 PPG KCL SEAWATER
	- FILTERED TO .5 MICRON & TREATED W/ 5GAL/200 BBLS SCALE-TROL.
6.00	1100-1900 POOH WITH PERF GUNS & LAY DOWN SAME. ALL GUNS FIRED. HOLE TAKING 4 BBLS PER HR.
2.00	1900-2100 INSTALL WEAR BUSHING.
3.00	2100-2400 RIH WITH 6-1/8" BIT & 7" CSG SCRAPER.
	-
	-
	-
	-
	- FLUID LOST TO FORMATION: 52 BBLS (4 BPH)

Remarks: 44 DAYS NO LTA. TOURLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & HANDLING/MOVING PALLETS.

BOB MIKE WITH SANTA MARIA MMS OBSERVED & APPROVED OPERATIONS.

0500 HRS: R/U SCHLUMBERGER TO RUN GAGE RING & JUNK BASKET.

Accidents: NONE

Daily Mud Cost: 1567	Daily Tangible Cost: 0	Daily Well Cost: 112387	AFE Number: WA046155		
Cum Mud Cost: 74440	Cum Tangible Cost: 49240	Cum Well Cost: 1507118	Total Appr: 1494958		
Drill Water: 3835	Potable Water: 285	Fuel: 517	Bulk Weight: 1043	Cement: Neat: 590	Blended: 0
District: VENTURA PROFIT CENTER	Rig: DUAL #45	Rig Phone: (805) 698-4522	Drilling Rep: PICCIOTTI/SALAZAR		
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (SRD) ST #1	Date: May 12, 1994		

MINERALS MANAGEMENT SERVICE
MAY 16
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SANTA MARIA DISTRICT

5-17-94

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885	Proposed MD: 11978	Proposed TVD: 8233		
DOL: 27	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0	
Torque: 16000	Drag: 65	Rot Weight: 245	P/U Weight: 310	Slack Off Weight: 205	Wind:	Seas:	Bar:	PCO: 68
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y		
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper : 0.0	Depth Worst Wear : 0	% Remaining: 0.0			
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	6457 TVD		
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /
WL API: 0.0	WLHP: 0.0	FC(1/32) API: 0	WLHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	PM: 7.5
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00		

Drlg Gas:	Max Gas :	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN = O

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: 551.01 BHA Description: BIT #6RR, 7" CASING SCRAPER, BS, 18 JTS 3-1/2" HWDP

Hrs On Jars: 98.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SQIN	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

Hrs	(From-To) Operations Covering 24 Hours Ending At Midnight
1.00	0000-0100 CONTINUE RIH WITH 6-1/8" BIT & 7" CSG SCRAPPER TO 11,839'.
4.50	0100-0530 POOH WITH BIT & SCRAPPER.
7.00	0530-1230 RU SCHLUMBERGER. RIH WITH JUNK BASKET & GAUGE RING TO 11,700'. RIH WITH BAKER FB-1 SUMP PKR, 10' 3-1/2" TBG PUP,
	- BAKER R NIPPLE & ROTATING MULE SHOE ON WL. SET TOP OF SUMP PKR AT 11,632' E LOG DEPTH WITH MULE SHOE AT 11,646'.
0.50	1230-1300 PULL WEAR BUSHING.
11.00	1300-2400 RU TBG TONGS & GATOR HAWK. RUN 3-1/2" PRODUCTION TBG. SEE FOLLOWING DAYS REPORT FOR DETAILS.
	-
	- HOLE TAKING 5 BBLS FLUID PER HR.
	-
	-
	-
	-
	-
	-
	-
	-
	-
	-

Remarks: 45 DAYS NO LTA. TOWNLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & HELICOPTER SAFETY.

0600 HRS: RIH W/ PRODUCTION ASSEMBLY.

Accidents: NONE

Daily Mud Cost:							46155
Cum Mud Cost:							94938
Drill Water: 3691	Potable Water: 316	Fuel: 817	Bulk Weight: 1063	Cement> Neat: 590	Blended: 0		
District: VENTURA PROFIT CENTER	Rig: DRAL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR				
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (6RD) ST #1	Date: May 13, 1994				

PROPRIETARY/CONFIDENTIAL INFORMATION

MINERALS MANAGEMENT SERVICE
MAY 16 1994
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SANTA MARIA DISTRICT

5-17-94

Chevron

Drilling Activity Report

Measured Depth: 11911	TVD: 8235	PBTD: 11885	Proposed MD: 11978	Proposed TVD: 8233					
DOL: 26	DFS: 0	Spud Date: / /	Daily Footage: 0	Daily Rot Hrs:	Total Rot Hrs: 90.0				
Torque: 0	Drag: 0	Rot Weight: 0	P/U Weight: 0	Slack Off Weight: 0	Wind:	Seas:	Bar:	POB: 66	
Last Casing Size: 9.625	Set At: 9820 MD	6595 TVD	Shoe Test: 15.0 EMW	Leakoff? (Y/N): Y					
Cum Rot Hrs On Casing: 96.5	Cum Rot Hrs On Casing Since Last Caliper: 0.0	Depth Worst Wear: 0	% Remaining: 0.0						
Liner Size: 7.000	Set At: 11911 MD	8235 TVD	Liner Top At: 9579 MD	6457 TVD					
Mud Company: PROFCO	Type: SEAWATER	Sample From: PIT	Wt: 8.7	FV: 26	PV:	YP:	Gel: /		
WL API: 0.0 HTHP: 0.0	FC(1/32) API: 0 HTHP: 0	Solids: 0.00	% Oil: 0.0	% Water: 0.0	% Sand: 0.00	MBT: 0.00	pH: 7.5		
Pm: 0.00	Pf/Mf: 0.00/ 0.40	Carb:	Cl: 34000	Ca: 2000	Bent: 0.00	Solids % HG/LG: 0.00/ 0.00	% OS/Bent: 0.00/ 0.00		

Drlg Gas:	Max Gas:	Conn Gas:	Trip Gas:	Trip Cl:	Remarks: GARRET GAS TRAIN= 0

Bit Number	IADC	Size	Manufacturer	Serial Number	Type	Jets	TFA	MD In	MD Out	TVD Out

Feet	Hours	WOB	RPM	I-Row	O-Row	DC	Loc	B	G	Char	?Pull	Cost/Ft

Total Length Of BHA: BHA Description: 3-1/2" PRODUCTION TBG.

Hrs On Jars: 0.0 Hrs Since Last Inspection: 0.0

Bit	Liner	Stroke	SPM	Pressure	GPM	Jet Vel	DP Av	DC Av	Bit HHP	BHHP/SqIn	Pump HHP
	/ /	/ /	/ /								
	/ /	/ /	/ /								

Survey MD	Angle	Direction	TVD	N/S Coordinate	E/W Coordinate	Vertical Section	DLS

PROPRIETARY/CONFIDENTIAL INFORMATION

Hrs	(From-To)	Operations Covering 24 Hours Ending At Midnight
9.50	0000-0930	CONTINUE RUN 3-1/2" 9.3# L-80 HYDRIL 501 TBG AS FOLLOWS: ROTATING MULE SHOE, 1 JT, F NIPPLE, 2 - 10' PERF PUPS,
	-	F NIPPLE, 5 JTS, BAKER 9-5/8" HB HYDRAULIC PKR, 1 JT, GL MANDREL #1, 18 JTS, GL MANDREL #2, 27 JTS, GL MANDREL
	-	#3, 31 JTS, GL MANDREL #4, 59 JTS, GL MANDREL #5, 36 JTS, GL MANDREL #6, 59 JTS, GL MANDREL #7, 44 JTS, BAKER FV
	-	6 SSSV, 23 JTS, FMC FAYLOK NIPPLE & TBG HANGER. ALL TBG DRIFTED & EXTERNALLY PRESSURE TESTED TO 5000 PSI.
2.50	0930-1200	RU LANDING JTS & LAND HANGER IN WH. OBSERVED PRESSURE DROP ON CONTROL LINE - PULL HANGER & REPLACE FITTING CON-
	-	NECTING CONTROL LINE TO TBG HANGER. PRESSURE TEST CONTROL LINE - OK.
1.50	1200-1330	LAND TBG HANGER IN WH. TIGHTEN LOCKDOWN SCREWS & PRESSURE TEST TBG HANGER SEALS TO 5000 PSI - OK.
3.50	1330-1700	RU GOLDEN STATE WL. SET SLICKLINE PLUG IN F NIPPLE BELOW PKR. USING BJ PRESSURE UP TO 4000 PSI ON TBG TO TEST
	-	TBG & SET BAKER HB PKR AT 9540'. SOT AT 9763' & BAKER FV6 SSSV AT 792'. GAS LIFT MANDRELS @ 9491, 8969, 8121,
	-	7187, 5296, 4078 & 2196. USING BJ PRESSURE TEST PKR & TBG/CSG ANNULUS TO 2500 PSI FOR 30 MIN OK. PULL SLICKLINE
	-	PLUG FROM TBG & LAY DOWN LANDING JTS. INSTALL FMC BPV IN TBG HANGER.
4.00	1700-2100	REMOVE PITCHER NIPPLE & FLOW LINE. ND BOPS. REMOVE RISER.
3.00	2100-2400	INSTALL TREE & PRESSURE TEST SAME TO 5000 PSI. PREP TO SKID RIG.
	-	HOLE TAKING 1 BBL PER HR WHILE RUNNING TBG. LOST TOTAL OF 210 BBLS FLUID TO FORMATION SINCE PERFORATING.
	-	
	-	RELEASED RIG FROM HIDALGO C-11 AT 2400 HRS 5/14/96.
	-	
	-	

Remarks: 46 DAYS NO LTA. TOURLY SAFETY MEETINGS DISCUSSED DAILY OPERATIONS & HOUSEKEEPING.

NOB NONE WITH SANTA MARIA MMS OBSERVED & APPROVED OPERATIONS.

OPERATIONS @ 0500 HRS: SKID RIG FROM WELL C-11 TO C-9.

Accidents: NONE

Daily Mud Cost:									46195
Cum Mud Cost:									94938
Drill Water: 8744	Potable Water: 315	Fuel: 807	Bulk Weight: 1063	Cement: Neat: 590	Blended: 0				
District: VENTURA PROFIT CENTER	Rig: DLNL #45	Rig Phone: (805) 658-4522	Drilling Rep: PICCIOTTI/SALAZAR						
Field: POINT ARGUELLO	Lease: OCS-P-0450	Well #: C-11 (4BB) ST #1	Date: May 14, 1994						

FINAL

MINERALS MANAGEMENT SERVICE
MAY 16 1994
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SANTA MARIA DISTRICT

5-17-94

Confidential Copy
MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

PROPRIETARY DATA

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01 / S01	C-11	Arguello Inc. 17100 Calle Mariposa Reina Goleta, CA 93117

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello		02372

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GL
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,993.36 Y=3,819,242.40	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Job completed 11/8/99.

See attached report.

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
NOV 23 1999
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SANTA MARIA DI

26. CONTACT NAME	27. TELEPHONE NUMBER
G.P. Hertfelder	**805-562-3921**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Thomas M. Gladney	**Point Arguello Project Manager**
30. AUTHORIZING SIGNATURE	31. DATE
Thomas M. Gladney	Nov. 17, 1999

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroder

TITLE District Supervisor

DATE 12/1/99

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C-11 STIMULATION

SERVICE COMPANY: Schlumberger
TORCH: Terry Ray / Steve Garrison
PLATFORM HIDALGO
DATE: 11-7-99

Summary: Pumped 1,000 gallons Xylene, 2,000 gallons of 15% HCL Acid. Displaced with 157 bbl of seawater. Shut in pressure was ∅ psi.

11-7-99 Sunday

19:00 Pressure tested Schlumberger lines to 3,000 psi and held pressure for 10 minutes.
19:10 Pressure tested swab valve to 3,000 psi and held pressure for 10 minutes.

11-8-99 Monday

06:30 Held a 20-minute safety meeting in control room with operations.
07:00 Witnessed emergency shut down on both Schlumberger diesel engine.
07:00 Opened master valve pumped 60 bbls of seawater at 2 bpm.

Start Time	Type Fluid	Fluid Volume	Total Volume	Pumping PSI	Casing PSI	Rate BPM
07:21	Seawater	-	-	0	1000	2
07:36	Seawater	30		0	1000	2
07:51	Seawater	60	60	20	1000	2
07:51	Xylene	-		20	1000	2
07:57	Xylene	10		100	1000	2
08:02	Xylene	20		150	1000	2
08:04	Xylene	24	84	100	1000	2
08:04	Acid	-		30	1000	2
08:09	Acid	10		0	1000	2
08:12	Acid	15		0	1000	2
08:24	Acid	48	132	0	1000	2
08:24	Seawater	-		0	1000	2
08:34	Seawater	20		65	1000	2
08:44	Seawater	40		80	1000	2
08:54	Seawater	60		90	1000	2
09:04	Seawater	80		95	1000	2
09:07	Seawater	85		95	1000	2
09:25	Seawater	105		78	1000	1
09:45	Seawater	125		72	1000	1
10:05	Seawater	145		65	1000	1
10:15	Seawater	157	289	58	1000	1

10:15 Stop pumping shut in pressure ∅psi.
10:25 Rigged down SCHLUMBERGER

END OF REPORT

PROPRIETARY DATA

Confidential Copy
MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies w
one copy marked "Public Informa

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01 / S01	C-11	Arguello Inc. 17100 Calle Mariposa Reina Goleta, CA 93117

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello		02372

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE X	FRACTURE	PLUG BACK	WORKOVER	GL
	ALTER CASING	INITIAL COMPLETION	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTI-COMPLETION	RECOMPLETION		
	CHANGE ZONE	PERFORATE	SIDETRACK		
SUBSEQUENT REPORT	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,993.36 Y=3,819,242.40	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)
Work scheduled for November 7, 1999.
Hold safety meeting
Acidize well with 1000 gallons xylene and 2000 gallons of 15% HCL acid.
Place well on production and test.
SEE ATTACHED WORK PROCEDURE

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
G.P. Hertfelder	**805-562-3921**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Thomas M. Gladney	**Point Arguello Project Manager**
30. AUTHORIZING SIGNATURE	31. DATE
Thomas M. Gladney	Nov. 4, 1999

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder TITLE District Supervisor

DATE 11/15/99

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control No.

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 which may not be used)

PLATFORM HIDALGO
C-11 ACID STIMULATION

NOVEMBER 1999

CHARGE TO: AFE 11026-560000017

PLATFORM HIDALGO STIMULATION PROGRAM

WELL: C-11

PROPROSED JOB DATE: November 1999

FLUID VOLUMES REQUIRED

The xylene and acid mixtures will be premixed by DS Services. Produced water and seawater are available on the platform.

XYLENE SYSTEM

1000 gallons xylene

1000 gallons xylene

5 gallons/1000 gallons W54 Non-Emulsifier

ACID SYSTEM

2000 gallons 15% HCL Acid

2000 gals	15% HCL Acid
200 gpt	U66 Mutual Solvent
20 gpt	A201 Corrosion Inhibitor
12 gpt	A261 High Temperature Corrosion Inhibitor Aid
100 gpt	L62 NTA Iron Control Agent
25 gpt	W54 Non-Emulsifier
6 gpt	W35 Antisludging Agent
50 gpt	L58 Erythrobic Acid

DISPLACEMENT FLUID

159.2 Barrels (Total Displacement Volume)

159.2 bbls Produced water or Seawater (do not use fresh water)

STIMULATION PROGRAM

Hold a safety meeting with all personnel involved to discuss the following:

1. Inspect entire well area (BOP deck, well bay, and lower well bay) for possible pathways of well fluids. Take precautions to eliminate these potential spill paths. Ensure safety equipment is operating satisfactorily.
2. Rig up pump equipment. Acid hoses with a working pressure of 5,000 psi are to be used downstream of triplex pumps. Tie down and secure all acid hoses. Lock out the SSV and SSSV. Shut off gas lift to well to allow casing pressure to stabilize. Maintain a minimum casing pressure of 500 psi.
3. Using seawater, pressure test lines against swab valve to 3,000 psi for ten minutes. Check the operations of all pressure and data recorders.
4. Open well C-11 and begin recording pressures. Establish and maintain pump rate at 2 BPM with 840 gallons (20 bbls) of seawater. Do not exceed 3000 psi surface treating pressure. Pump 1000 gallons (24 bbls) of xylene at 2 BPM. Do not exceed 3000 psi surface treating pressure. Pump 2000 gallons (48 bbls) of 15% HCL acid at 2 BPM. Do not exceed 3000 psi surface treating pressure. Pump 3662 gallons (87.2 bbls) of seawater at 2 BPM. Do not exceed 3000 psi surface pressure.
5. Displace acid to open hole by pumping 3024 gallons (72 bbls) of seawater at 1 BPM. Do not exceed 3000 psi surface pressure. (159.2 barrels total displacement)
6. Rig down acid equipment. Unlock SSV and SSSV. Prepare to bring well C-11 immediately to production.
7. Hook up well recorders to well C-11 after acid equipment is rigged down. This will enable us to record initial tubing and casing pressures during the well unloading period. Obtain a copy of this chart to be included in the job file.
8. Produce well C-11, if necessary apply gas lift to help unload the well. Once oil returns are observed, place well into well test separator and record four 6-hour C-11 well tests. Monitor production rates (oil / water / gas), surface tubing and casing pressures, and choke size.

DAILY WELL WORK SAFETY MEETING (MMS REQUIREMENT)

OPERATION: ACIDIZING

WORK PERMIT: We will receive a work permit from the control room outlining safe work requirements for the platform. This permit will be posted at the work location.

ACCOMPLISHING THE WORK: Before each step in our operation, contract personnel and Chevron engineer will discuss details on how to proceed.

H2S: Wells have up to 10,000 ppm of H2S. All personnel to be H2S trained. 15 minutes air pack locations to be pointed out to every one involved in the operation. Adequate 15 minutes air packs should be in the area for all personnel. Air lines to be made available for longer-term emergency use. Detector will be placed by lubricator.

FIRE: Before we begin to work, the locations of the fire extinguishers and fire hoses are to be pointed out to every one involved in this operation. Nomex work clothing is required. Do not remove fire extinguishers from their stations, additional fire extinguishers are available if needed. Fire extinguishers will be at unit.

BRIEFING AREA: In case of an alarm, we will report to a safe briefing area. **The safe briefing area is the out side the galley**. In case we have to abandon the platform, the **life boats are just out side the galley side door; or, if your are standing on the pipe deck, the life boats are just to the left of the quarters building**.

FIRST AID: In case of an accident, we will contact the medic (helicopter dispatcher). He has been trained in emergency medical procedures.

OIL SPILL: If we have an oil spill, we need to contact the control room immediately no matter how small the spill. We will discontinue our operations until we receive approval from the production foreman to proceed.

PRESSURE TEST: Pressure test line to 3,000 psi against valve above swab valve. Make announcements of high pressure lines and to stay clear of area.

OPERATOR: The operator is to open and close the valves on the well. He is to lock out the SSV and SSSV. Operator may be contacted by radio.

COMMUNICATION: We will have **2 radios** for communication between our selves and the production personnel.

ALARMS: When an alarm sounds: (1) Get a five minute air pack from the nearby station. (2) Get a life vest (orange box on pipe deck & near life boat) (3) report to the safe briefing area. *If you are in your room, a 15 minute air pack and life vest are located there.* If we have an alarm, the operator working with us should call us via radio to alert that we have an alarm, it can be difficult to hear over the pumps.

ALARM WHILE PUMPING ACID IN THE HOLE: When an alarm sounds: (1) Close valve from acid tanks and switch to sea water tank and flush lines. (2) Close swab valve and stop the unit. (3) Have a five minute air pack from the nearby station. (4) Get a life vest (orange box on pipe deck & near life boat) (5) Report to the safe briefing area.

CRANE OPERATIONS: The crane operator will be making some heavy lifts. The individual directing the crane will have a radio for communication with the crane operator and will stay in clear view of the crane operator. Do not stand under objects being lifted by the crane.

EYE PROTECTION: It is Chevron policy that eye protection will be worn at all times while out side of the quarters or control room.

CLIMBING: If you plan to climb more than 10' off the floor, then a safety belt will be required. Additional falling hazard due to open well hatches.

AIRLINE HOOKUP: When connecting the airlines be sure and have the Chicago clips inserted.

HAZARDOUS AREA: The deck area around the logging unit is to be taped off. The area around the tree is to be taped off. Personnel not involved in this job should stay out of the taped off work areas.

ESD TEST: The emergency shut down on all diesel engines to be tested and witnessed by the engineer.

DIESEL FUEL USE: Volumes of diesel fuel used each day must be recorded and records turned into the control room each night due to our air quality permits. When fuel is needed ask for assistance form the control room.

DISCHARGE: Records must be kept of volumes of fluid discharged into the ocean.

SAFETY SHOWERS: Know where the closes one is from the job. Make sure the soap dispenser is full and functional. MSDS sheets to be on platform. DS supervisor explain hazards of Xylene and HCL.

ACID JOB: Personnel not involved in the job should stay clear and use other routes. While pumping acid personnel will have slickers on until lines are flushed. Always have a spotter walking the lines while pumping acid.

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OMB No. 1010-0045
Expiration Date: September 30, 1999

MINERALS MANAGEMENT SER CE
SUNDRY NOTICES AND REPORTS ON WELL

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01	C-11	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive Ventura, CA 93003
Pt. Arguello		00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL __	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY	___	
			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,993.36 Y=3,819,242.40	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 __	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)
JOB SUMMARY:
Held safety meeting. Pressure tested lines to 4200 psi for 5 minutes. Established injection with 15 barrels of seawater. Pumped 1000 gallons of xylene. Pumped 12000 gallons of 15% HCl mixture. Displaced acid with 150 barrels of seawater.

SEE ATTACHED WORK PROCEDURE

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
JUL 21 1997
RECEIVED
SANTA MARIA

26. CONTACT NAME	27. TELEPHONE NUMBER
R.M. QUILTER	**805-658-4400**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
V. SANKUR	**Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE
	7/14/97

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor
Phillip R. Schroeder

DATE 7/21/97

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 which may not be used)

MMS 124 Out Pt.A-P 4+1 cc
R. M. Hoshman
VDE-hold for MMS approval
MMS Santa Maria (3 + 1 PI)

C-11 OCS-P-0450
Through-tubing Acid Stimulation

PLATFORM HIDALGO
SERVICE CO.: BJ Services, John Jomeruck, Dean, Tony
CHEVRON: Rick Quilter

SUMMARY:

Held safety meeting. Pressure tested lines to 4200 psi for 5 minutes. Established injection with 15 barrels of seawater. Pumped 1000 gallons of xylene. Pumped 12000 gallons of 15% HCl mixture. Displaced acid with 150 barrels of seawater.

Friday, July 11, 1997

Pumped 390 barrels of seawater down casing.

Saturday, July 12, 1997

7:50 Arrived on Platform Hidalgo.
8:10 Rigged up BJ Services equipment and injection lines.
10:51 Started up pumping unit.
10:52 Witnessed tests on emergency shutdown switches on pump. Tested OK.
12:10 Held safety meeting in control room with BJ Services personnel, Operations, and R. Quilter.
12:42 Pressure tested acid line to 4200 psi for 5 minutes. Tested OK.
12:52 Began acid stimulation down C-11. Apply gas lift gas pressure on annulus. Refer to attached through-tubing acid job data sheet for details.
17:42 Acid job completed. Closed swab valve.
17:45 Rigged down BJ Services equipment.
17:45 Left well C-11 shut-in until 0600 on July 14.

THROUGH-TUBING ACID JOB DATA SHEET - WELL C-11							
Time	Fluid Type	Stage Volume	Total Volume	Pump Rate	Surface Pressure	REMARKS	
(HH:MM)		(BBLS)	(BBLS)	(BPM)	(PSI)		
START @ 12:52							
12:52	Seawater	0.0	0.0	0.97	500		
13:00		12.2	12.2	0.97	2920		
13:03		15.1	15.1	0.92	3010		
13:03	Xylene	0.0	15.1	0.92	3010		
13:05		1.1	16.2	1.08	2796		
13:29		23.6	38.7	0.79	3014	Csg P=1180 PSI of gas lift gas	
13:30		23.8	38.9	0.82	3001		
13:30	Acid	0.0	38.9	0.82	3001		
13:50		15.9	54.8	0.82	3015	Csg P=1180 PSI of gas lift gas	
14:05			54.8			Leak in union - flush with 2 bbls water	
14:18			54.8			Restart pumping	
14:23		35.1	74.0	1.02	2905	Csg P=1180 PSI of gas lift gas	
14:25		36.0	74.9	1.02	3014		
14:47		58.6	97.5	1.00	3401		
15:15		86.9	125.8	0.92	3328	Csg P=1180 PSI of gas lift gas	
15:50		128.3	167.2	1.65	2608	Csg P=1180, Xylene at perfs @151 Total Volume	
15:56		142.8	181.7	3.02	2878		
15:56		148.6	187.5	3.08	2816	Acid at perfs @174 Total Volume	
16:00		155.2	194.1	3.08	2781		
16:10		187.1	226.0	3.03	2755		
16:26		240.2	279.1	3.03	2692	Csg P=1160 PSI of gas lift gas	
16:30		253.9	292.8	3.01	2682	Csg P=1160 PSI of gas lift gas	
16:35		272.2	311.1	3.04	2665		
16:39		284.0	322.9	2.99	2658		
16:39	Seawater	0.0	322.9	2.99	2658		
16:41		2.7	325.6	2.98	2656		
16:45		16.1	339.0	2.99	2670	Csg P=1150 PSI of gas lift gas	
16:50		29.9	352.8	3.00	2684		
17:27		140.5	463.4	3.01	2660+/-		
17:27		140.5	463.4	1.03	2300+/-	Csg P=1150 PSI of gas lift gas	
17:30		144.3	467.2	1.04	2253		
17:40	Shutdown pumps	150.0	472.9	1.04	2106	Csg P=1150 PSI of gas lift gas	
17:42		150.0	472.9	0.00	1910		

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OMB No. 1010-0045
Expiration Date: September 30, 1999

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01	C-11	Chevron U.S.A. Production Co. 646 County Square Drive Ventura, CA 93003

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello		00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
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	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ___	___	
			ABANDONMENT ___	___	

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NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Work scheduled for 7/11/97

SEE ATTACHED WORK PROCEDURE

VERBAL APPROVAL RECEIVED FROM MIKE MITCHELL, MMS ON 7/10/97 AT 2:14 PM. RMQ 7/11/97

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
JUL 15 1997
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
R.M. QUILTER	**805-658-4400**
28. AUTHORIZING OFFICIAL (Type Name) **V. SANKUR**	29. TITLE **Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE 7/9/97

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell FOR. Phillip R. Schroeder TITLE District Supervisor

DATE 7/10/97

JUL 28 1997

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-12 sed)

MMS 124 Out Pt.A-P 4+1 cc
R. M. Hoshman
VDE-hold for MMS approval
MMS Santa Maria (3 + 1 PI)

PLATFORM HIDALGO STIMULATION PROGRAM
WELL : C-11
DATE : July 9, 1997
PROPOSED JOB DATE : Mid July 1997

FLUID VOLUMES REQUIRED

The xylene and acid will be premixed by BJ Services. Displacement water is available on the platform.

XYLENE SYSTEM

1000 gallons Xylene

ACID SYSTEM

12,000 gallons 15% HCl Acid

12000 gallons 15% HCl acid
15 gallons/1000 gallons Corrosion Inhibitor
17 gallons/1000 gallons NTA Iron Control Agent
25 pounds/1000 gallons Erythorbic Acid
5 gallons/1000 gallons Demulsifier / Surfactant

DISPLACEMENT FLUID

6,300 gallons (Total Displacement Volume)

6,300 gallons Sea water
5 gallon/1000 gallons Deemulsifier/Surfactant

PRIOR TO STIMULATION PROGRAM

Prior to the acid stimulation, the tubing will be pressure tested to ensure no leaks are present.

1. Fill up tubing/casing annulus with sea water. Theoretical volume of casing to third gas lift mandrel is 390 barrels.
2. Apply gas lift gas pressure down the tubing and monitor casing pressure for any signs of tubing/casing communication.

STIMULATION PROGRAM

Hold a safety meeting with all personnel involved to discuss the following:

- Job plan (Pressures and rates expected, types of fluids and gases involved, communication devices(radios, platform intercom))
- Testing procedures (Pressure testing of lines and platform announcement of such, emergency shutoff valves on equipment)
- Safety procedures (Locations of safe briefing areas, eye washes / showers, protective clothing, wellbay watch, tape off area of work, location of high pressure lines)
- H_2S hazards (Emergency shutdown procedures, timing of any scheduled H_2S drills)
- General procedures (Platform alarms)

1. Inspect entire well area (BOP deck, well bay, and lower well bay) for possible pathways of well fluids. Take precautions to eliminate these potential spill paths. Ensure safety equipment is operating satisfactorily.

2. Rig up pump and nitrogen equipment. Acid hoses with a working pressures of 5000 psi are to be used downstream of triplex pumps. Tie down and secure all acid hoses.

3. Using seawater, pressure test lines against swab valve to 4500 psi for eight minutes. Check the operation of all pressure and data recorders. Lock out SSV and SSSV. Apply 1100 psi of gas lift gas pressure on backside.

4. Open well C-11 and begin recording pressures. Establish pump rate of 1 barrel per minute with 210 gallons of seawater mixture. Do not exceed 4500 psi surface treating pressure. Pump 12000 gallons of 15% HCl acid mixture. Do not exceed 4500 psi treating pressure.

5. Overdisplace acid to perforations by pumping 150 barrels of seawater. (14 barrels overdisplacement)

6. Rig down acid equipment. Leave well shut-in for 12-36 hours.

7. Hook up gas lift chart to well C-11 after acid equipment is rigged down. This will enable us to record initial tubing and casing pressures during the well unloading period. Obtain a copy of this chart to be included in job file.

8. After shut-in time, produce well back to V-71 and V-72 vessels. Liquid caustic will be available to neutralize the pH of return fluids. If necessary, apply gas lift to help unload the well. Gauge C-11 daily for four days, weekly thereafter. Monitor production rates (oil / water / gas), surface tubing and casing pressures, and choke size.

Confidential Copy PROPRIETARY DATA

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: September 30, 1999

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01	C-11	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive Ventura, CA 93003
Pt. Arguello		00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	X CHEMICAL	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,993.36 Y=3,819,242.40	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Work done 6/24/97
Pumped enzyme breaker down well

SEE ATTACHED WORK PROCEDURE

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
JUL 14 1997
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SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
T.A. Ray	**805-658-4378**
28. AUTHORIZING OFFICIAL (Type Name) **V. SANKUR**	29. TITLE **Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE 7/9/97

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell
Phillip R. Schroeder

TITLE District Supervisor

DATE 7/14/97

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C-11 STIMULATION

SERVICE COMPANY: BJ
CHEVRON: Terry Ray
PLATFORM HIDALGO
DATE: 6-24-97

6-24-97 Tuesday

10:45 Held a 20 minute safety meeting in the control room.
12:33 Witnessed emergency shut down on both BJ diesel engines.
12:50 Opened valve and pumped sea water down casing to fill up back side.
16:45 Pressure tested lines to swab to 4,800 psi and held pressure for 10 minutes.
19:50 Mixed enzyme and tested to pH.
20:15 Opened master valve, pumped 30 bbls of sea water at 1 bpm.
See table for pumping program.

Start	Type	Fluid	Total	Nitrified		
Time	Fluid	Volume	Volume	Yes / No	PSI	BPM
20:15	Seawater	11	11	No	800	1
20:27	Seawater	5	16	Yes	2,200	1
20:40	Enzyme	5	21	Yes	3,400	1
	Enzyme	10	26	Yes	3,520	1
	Enzyme	15	31	Yes	3,540	1
	Enzyme	20	36	Yes	4,200	1
	Enzyme	25	41	Yes	4,510	1
	Enzyme	30	46	Yes	4,510	1
	Enzyme	35	51	Yes	4,550	1
	Enzyme	40	56	Yes	4,550	1
21:33	Seawater	10	66	No	4,500	1
	Seawater	20	76	No	4,200	1
	Seawater	30	86	No	4,140	1
	Seawater	40	96	No	3,640	1
	Seawater	50	106	No	3,590	1
	Seawater	60	116	No	4,390	1
	Seawater	70	126	No	4,610	1
	Seawater	80	136	No	4,320	0.5
	Seawater	90	146	No	4,410	0.5
	Seawater	100	156	No	4,550	0.75
	Seawater	110	166	No	4,570	0.75
	Seawater	120	176	No	4,575	0.75
	Seawater	130	186	No	4,580	0.75
	Seawater	136	192	No	4,585	0.75

00:33 Stopped Pumping secured for he night.

Confidential Copy PROPRIETARY DATA Submit original plus three copi th one copy marked "Public Inform.. on." OMB No. 1010-0045

MINERALS MANAGEMENT SERVICE Expiration Date: September 30, 1999

SUNDRY NOTICES AND REPORTS ON WELL

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	56-045-20067-01	C-11	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive Ventura, CA 93003
Pt. Arguello		00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	X CHEMICAL ___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ___	___	
			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,993.36 Y=3,819,242.40	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133'	None	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Work scheduled for 6/23/97
Pump enzyme breaker down well

SEE ATTACHED WORK PROCEDURE

MINERALS MANAGEMENT SERVICE
JUN 27 1997
FIELD OPERATIONS CAMARILLO

MINERALS MANAGEMENT SERVICE
JUN 23 1997
RECEIVED
SANTA MARIA DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R.M. QUILTER	**805-658-4400**
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
V. SANKUR	**Point Arguello Asset Team Leader**
30. AUTHORIZING SIGNATURE	31. DATE
V. Sankur	**June 18, 1997**

THIS SPACE FOR ~~MMS USE~~ ONLY

APPROVED BY Phillip R. Schroeder TITLE District Supervisor

Phillip R. Schroeder

DATE 6/19/97

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FORM MMS-124 (September 1996) (Replaces all previous editions of Form MMS-124 w)

MMS 124 Out Pt.A-P 4+1 cc
R. M. Hoshman
VDE-hold for MMS approval
MMS Santa Maria (3 + 1 Pl)

PLATFORM HIDALGO STIMULATION PROGRAM
WELL : C-11
DATE : June 17, 1997
PROPOSED JOB DATE : Late June 1997

FLUID VOLUMES REQUIRED

The enzyme breaker will be brought out in concentrated form and will be mixed with fresh water and KCl in a batch mixer on the platform by BJ Services. Displacement water is available on the platform. The enzyme mixture will be carefully sampled and tested by the service company and engineering representative prior to pumping.

ENZYME BREAKER SYSTEM

1680 gallons (Total Enzyme Breaker Volume)

2.7 gallons Enzyme G Breaker (concentrated)
1655 gallons Freshwater
267 pounds Potassium Chloride
33.3 pounds Iron Control
2.7 gallons Acetic Acid (if needed as determined by testing)
10 gallons Surfactant

NITROGEN SYSTEM

1350 scf/bbl 60% quality nitrogen
10 gallons liquid foaming agent

DISPLACEMENT FLUID

5,712 gallons (Total Displacement Volume)

5,712 gallons Sea water
5 gallon/1000 gallons Deemulsifier/Surfactant

PRIOR TO STIMULATION PROGRAM

Prior to the enzyme stimulation, the tubing will be pressure tested to ensure no leaks are present.

1. Fill up tubing/casing annulus with sea water. Theoretical volume of casing to third gas lift mandrel is 390 barrels.
2. Temporarily install plug in Otis X nipple @ 9,642' MD and pressure test tubing with gas lift gas. Remove plug.

STIMULATION PROGRAM

Hold a safety meeting with all personnel involved to discuss the following:

- Job plan (Pressures and rates expected, types of fluids and gases involved, communication devices(radios, platform intercom))
- Testing procedures (Pressure testing of lines and platform announcement of such, emergency shutoff valves on equipment)
- Safety procedures (Locations of safe briefing areas, eye washes / showers, protective clothing, wellbay watch, tape off area of work, location of high pressure lines)
- H_2S hazards (Emergency shutdown procedures, timing of any scheduled H_2S drills)
- General procedures (Platform alarms)

1. Inspect entire well area (BOP deck, well bay, and lower well bay) for possible pathways of well fluids. Take precautions to eliminate these potential spill paths. Ensure safety equipment is operating satisfactorily.

2. Rig up pump and nitrogen equipment. Acid hoses with a working pressures of 5000 psi are to be used downstream of triplex pumps. Nitrogen line with a working pressure of 5000 psi is to be used. Tie down and secure all acid hoses.

3. Using seawater, pressure test lines against swab valve to 4500 psi for eight minutes. Using nitrogen, pressure test nitrogen line to 5000 psi for eight minutes. Check the operation of all pressure and data recorders. Lock out SSV and SSSV. Apply 300 psi of gas lift gas pressure on backside.

4. Open well C-11 and begin recording pressures. Establish pump rate of 1 barrels per minute with 210 gallons of seawater mixture. Nitrify this fluid with 1350 scf/bbl of nitrogen. Do not exceed 4500 psi surface treating pressure. Holding pump rate constant at 1 barrel per minute, pump 1680 gallons of enzyme breaker mixture. Nitrify this acid with 1350 scf/bbl of nitrogen. Do not exceed 4500 psi treating pressure.

5. Displace acid to perforations by pumping 136 barrels of seawater at 1 barrel per minute. Nitrify one-half of this fluid with 1350 scf/bbl of nitrogen. Shut-off nitrogen for last half of this volume.

6. Rig down acid equipment. Leave well shut-in for 72 hours.

7. Hook up gas lift chart to well C-11 after acid equipment is rigged down. This will enable us to record initial tubing and casing pressures during the well unloading period. Obtain a copy of this chart to be included in job file.

8. After 72 hours of shut-in time, produce well back to V-71 and V-72 vessels. If necessary, apply gas lift to help unload the well. Gauge C-11 daily for four days, weekly thereafter. Monitor production rates (oil / water / gas), surface tubing and casing pressures, and choke size.

PROPRIETARY DATA

MINERALS MANAGEMENT SERVI
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies
one copy marked "Public Informat

OMB No. 1010-0045
Expiration Date: September 30, 1999

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	56-045-20067-01	C-11	Chevron U.S.A. Inc. 646 County Square Drive Ventura, CA 93003

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
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	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
Slot 3 677.95' FEL 5110.23' FNL X = 710,993.36 m Y = 3,819,242.40 m UTM 10	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133' (orig.)	HIDALGO - Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Completed operations: Set Model "D" packer @ 11,258'. Perforated 11,051' - 11,061' and performed hydraulic fracture treatment. Cleaned out and re-exposed lower perfs. Completed with 3-1/2" tubing.

Attached: Operations Summary 4/15/97 - 5/7/97 (3 pp.)
C-11 Frac Summary 4/24 - 4/26/97 (3 pp.)
Current Schematic

MINERALS MANAGEMENT SERVICE
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SANTA MARIA DISTRICT

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MINERALS MANAGEMENT SERVICE
JUN 27 1997
FIELD OPERATIONS
AMARILLO

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name) R. A. PICCIOTTI for G. R. STEINBACH	29. TITLE Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE R. A. Picciotti	31. DATE June 10, 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY for Phillip R. Schroeder

TITLE District Supervisor

DATE 6/19/97

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OPERATIONS SUMMARY REPORT

Field:**Point Arguello** Well: **OCS-P-0450 C-11** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Frac Job**

4-15-97 **DAY 1 SUMMARY (6 housr): SKID RIG.** **MW: 8.5**
Skid rig from Well C-1 to C-11.

04-16-97 **DAY 2 SUMMARY: INSTALL & TEST BOPE.** **MW: 8.7**
Kill well & install BPV. Remove prod tree. Install & test 13-5/8" 5M BOPE with 3-1/2" and 4-1/2" tbg to 300/3000 psi.

04-17-97 **DAY 3 SUMMARY: PULL PROD STRING.** **MW: 8.7**
Remove BPV. R/U W/L. Remove ambient valve f/SSSV & orifice f/GLM @8940'. Pump 596 bbls sea water down csg & tbg. Work tbg to 175K# to release pkr. POOH w/prod tbg & HB pkr.

04-18-97 **DAY 4 SUMMARY: SCRAPE CSG.** **MW: 8.7**
RIH w/6-1/8" bit on 7" csg scraper to 11,342' & 9-5/8" scraper to 9569'. POOH.
** ***Mr. Roy Bobbitt with MMS onboard with 2 visitors.***
** ***Received waiver from Mr. Roy Bobbitt with MMS to use 3-1/2" safety valve until 4-1/2" replacement received and tested.***

04-19-97 **DAY 5 SUMMARY: SET MODEL "D" PACKER.** **MW: 8.7**
RIH & set Model "D" pkr @11,258'. Test 4-1/2" safety valve to 250 psi lo/ 3000 psi hi, ok. RIH w/Model "F" latching plug.

04-20-97 **DAY 6 SUMMARY: SET "F" PLUG IN PACKER.** **MW: 8.7**
RIH w/"F" plug & set in "D" pkr. Test packer & plug t/ 1000 psi for 10 min, ok. Circ. Spot 3 sx sand & test csg, plug & liner lap to 2800 psi f/ 10 min. Located top of sand 15' above plug. POOH.

04-21-97 **DAY 7 SUMMARY: PERFORATE.**
Install & test shooting flange & lubricator t/1000 psi. RIH w/ 4-1/2" csg gun, 5SPF, 70° phasing, 37 gram charges and perforat f/11,051'-11,061'. Remove shooting flange & change annular element.

04-22-97 **DAY 8 SUMMARY: TEST BOPE. RUN FRAC STRING.** **MW: 8.5**
Test BOPE t/ 300/3000 psi. Pull test plug & stand back 28 stands of 3-1/2" tbg. P/U tail ass'y & pkr; test t/6000 psi-OK. Strap into hole f/3261'-6228'. Torque each conn t/5600#. Ext test each conn t/6000 psi.

04-23-97 **DAY 9 SUMMARY: SET FRAC PACKER.** **MW: 8.5**
Cont RIH w/4-1/2" frac string. Check torque & ext press test each conn t/6000 psi. M/U Baker "F" nipple b/t pup jts & test to 6000 psi to 9598'. Set Baker retrievamatic pkr @10,767' landing hgr w/55K# on pkr, tail @ 10,797'. Press test annulus t/2500 psi for 15 min-OK. Set XX plug in X nipple @10,780'.

04-24-97 **DAY 10 SUMMARY: PERFORM MINI-FRAC.** **MW: 8.5**
Press test frac lines & relief valve t/8350 psi. Test tbg against XX plug @10,780' to 6000 psi for 5 min-OK. Test flowback lines t/4500 psi. Recover XX plug, set gauges in X nipple @ 10,792'. Perform data fracs to determine required rates & pressures. Max rate 30 BPM w/6000 psi. Test lubricator t/2000 psi. Recover gauges. Pump polymer w/50 bbls @1#/gal sand conc, 50 bbl spacer, 61 bbls @2.5 #/gal conc, 58 bbls of frac gel. Perfs screened out. Pressured to 7100 psi. Attempt to backflow well to prod -well died. R/D frac lines & top half of frac tree. R/U flowback lines to choke manifold f/tbg.

OPERATIONS SUMMARY REPORT

Field:**Point Arguello** Well: **OCS-P-0450 C-11** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Frac Job**

04-25-97 **DAY 11 SUMMARY: PERFORM 2ND MINI-FRAC.** **MW: 8.5**
Reverse out frac gel & sand to prod V-71 @2.6 BPM max rate. Monitor well pressure. Test frac line & pressure relief valve t/7500 psi. Test flowback lines to choke manifold t/4500 psi. Pump mini-frac mixture at 23 BPM @6800 psi. Final treatment pressure 5300 psi @31 BPM. No screen out. R/O fluid.

04-26-97 **DAY 12 SUMMARY: PERFORM FRAC JOB.** **MW: 8.5**
Mix frac fluids. Test lines & perform propent frac job w/1323 bbls fluid & 31,828#'s of propent w/5580-6750 psi surface pressure at rates 35-27 bpm. Flowback well to prod @39 BPH avg w/68-90 psi tbg pressure.
See attache "Hydraulic Fracturing Job Summary" for additional details.

04-27-97 **DAY 13 SUMMARY: FLOW BACK WELL.** **MW: 8.5**
Continue to flowback well to prod & ECI tanks after frac job (758 cum bbls.)

04-28-97 **DAY 14 SUMMARY: FLOW BACK WELL** **MW: 8.5**
Continue to flowback well to prod & ECI tanks (1123 cum bbls.)
** Note: stored fluids passed LC50 Partial Toxicity test.

04-29-97 **DAY 15 SUMMARY: FLOW BACK WELL.** **MW: 8.5**
Cont to flowback well to ECI tanks until rate below 4 BPH. Flowed 108 bbls. Final flowing pressure 4 psi.
** ***Received verbal waiver from MMS to delay BOP test until 4/30/97.***

04-30-97 **DAY 16 SUMMARY: PULL FRAC STRING. TEST BOPE.** **MW: 8.5**
R/D frac tree & unland tbg hgr. Release frac pkr. R/U & pump 10 sx pill down tbg. POOH w/4-1/2" tbg. RIH w/28 stands 3-1/2" tbg. Test BOPE 250/3000 psi for 5 min, retest #4-OK.
** ***Mr. Bob Hime with MMS on platform for inspection.***

05-01-97 **DAY 17 SUMMARY: TEST BOPE. CLEAN OUT WELL.** **MW: 8.5**
Cont test BOPE 250/3000 psi-OK. RIH w/4-1/2" tbg to 3784'. C/O fill f/11,176'-11,214'. Clean out sand.

05-02-97 **DAY 18 SUMMARY: PULL "F" PLUG, TBG,.** **MW: 8.5**
Clean out fill to top of plug @11,261'. Latch "F" plug & release f/pkr-pull to 11,081'. Shut down for missile launch. Pull "F" plug, & 4-1/2" tbg. Est breakdown, pump 2 BPM @600 psi-450 psi in 5 min.

05-03-97 **DAY 19 SUMMARY: RUN TBG.** **MW: 8.5**
M/U 2-3/8" crossover, RIH w/2-3/8" stinger. Secure well & platform for missile launch. Fill hole w/20 bbls sea water. Run 3-1/2" prod tbg to Model "D" pkr @11,258'.

05-04-97 **DAY 20 SUMMARY: CIRCULATE WELL. PULL TBG.** **MW: 8.5**
Rev circ. Evacuate platform for missile launch. Pull to 9570' & circ. Hole full of pkr fluid. POOH w/tbg.
** ***Mr. Roy Bobbitt with MMS visited platform.***

05-05-97 **DAY 21 SUMMARY: RUN PROD TBG.** **MW: 8.5**
Run prod tbg testing all conn t/5000 psi. Shut in & secure well for missile launch. RIH w/3-1/2" Hydril prod tbg testing t/5000 psi. M/U Baker Model "HB" pkr, 7 GLM's, & Baker Model "FV-6" SSSV.

OPERATIONS SUMMARY REPORT

Field:**Point Arguello** Well: **OCS-P-0450 C-11** Rig: **Pool 411**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Frac Job**

05-06-97 **DAY 22 SUMMARY: SET PACKER.** **MW: 8.5**

Finish M/U SSSV & control line & test. M/U landing jt, tbg hgr & hook-up control line. Land tbg hgr & test seals. Set XX plug in X nipple. Set 9-5/8" "HB" pkr @ 9504', tail @ 9689'. Install BPV. N/D BOP stack. Attempt to set tree on hgr, hgr not aligned in tbg hd. P/U hgr & rotate into proper orientation. N/U tree and test to 5000 psi for 15 min.

** ***Mr. Phil Schroeder w/MMS approved p/u tbg hgr & rotating for alignment w/out rigging up BOPE stack.***

05-07-97 **DAY 23 SUMMARY: RELEASE RIG.** **MW: 8.5**

Prep to skid rig. Pump 120 bbls to prod V-9. Skid rig. R/D choke & kill lines. Release rig @ 1800 hrs.

HYDRAULIC FRACTURING JOB SUMMARY

Point Arguello Field
Platform Hidalgo C-11
April 24-26, 1997

F.E.T. (Formation Evaluation Testing)
Thursday April 24, 1997

Purpose: Establish injectivity into reservoir and determine closure pressure.

1st Pump-in Start Time=11:11AM Finish Time=11:40 AM
Tubing Vol=234 BBLS of 2% KCL fluid
Max Q= 23.8 BPM Max P=6129 PSI
Casing Vol=8 BBLS of seawater
Max Q=2.5 BPM Max P=2645 PSI

2nd Pump-in Start Time=12:55 PM Finish Time=1:22 PM
Tubing Vol=111 BBLS of 2% KCL fluid
Max Q= 24.0 BPM Max P=6513 PSI
Casing Vol=2 BBLS of seawater
Max Q=2.5 BPM Max P=2631 PSI

Downhole Pressure Gauges

Tandem GRC gauges along with a single strain gauge were landed in the Otis XN profile below a perforated pup joint prior to performing the F.E.T. tests. Both gauges recorded valid data. These gauges were recovered and the data was downloaded before the minfrac.

Mini Frac
Thursday April 24, 1997

Purpose: Determine fluid efficiency of cross-linked frac fluid system. Confirm closure pressure.

Mini Frac Start Time=7:58 PM Finish Time=8:35 PM
Tubing Vol=242 BBLS of Frac fluid
Max Q= 31.5 BPM Max P=7500
(**Screened out at max surface pressure while 1 ppg proppant entered the perforations**)
Proppant Pumped=5443 lbs of 20/40 resin-coated Optiprop
(less than 1000 lbs placed in reservoir)
Casing Vol=15 BBLS of seawater
Max Q=2.5 BPM Max P=2769 PSI

Following the screenout, the flowback line was opened in an attempt to flow back the frac fluid. No fluid flowed back from well C-11. During the night, the unloader valve above the frac packer was stroked open and the frac string was circulated clear using the rig pumps.

F.E.T. (Formation Evaluation Testing)
Friday April 25, 1997

Purpose: Establish injectivity into reservoir and determine closure pressure.

3rd Pump-in Start Time=10:29AM Finish Time=10:56AM
Tubing Vol=233 BBLS of 2% KCL fluid
Max Q= 20.6 BPM Max P=6966 PSI
Casing Vol=9 BBLS of seawater
Max Q=2.5 BPM Max P=2741 PSI

Mini Frac
Friday April 25, 1997

Purpose: Determine fluid efficiency of cross-linked frac fluid system. Confirm closure pressure.

Mini Frac Start Time=3:30 PM Finish Time=3:55 PM
Tubing Vol=540 BBLS of Frac fluid
Max Q= 32.0 BPM Max P=6559 PSI
Fluid Loss Additives (FLA) Pumped=250 lbs of silica flour
Casing Vol=1 BBL of seawater
Max Q=2.5 BPM Max P=2750 PSI

Main Frac
Saturday April 26, 1997

Purpose: Place proppant in reservoir to improve well productivity.

Main Frac Start Time=2:58 PM Finish Time=3:58 PM
Tubing Vol=1491 BBLS of Frac fluid
Max Q= 33.5 BPM Max P=6654 PSI

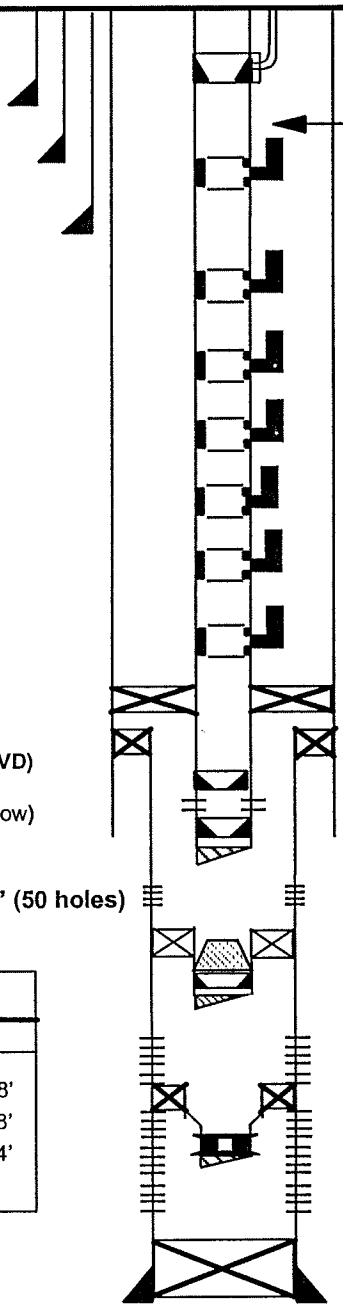
FLA Pumped=300 lbs of Flowsaver, 2094 lbs of 100 mesh sand
Proppant Pumped=29736 lbs of 20/40 resin-coated Optiprop
Casing Vol=9 BBLS of seawater
Max Q=2.5 BPM Max P=2500 PSI

Following the flush, the flowback line was opened to flow back the frac fluid. An initial flowback rate was set at 27 gallons per minute. The choke was then opened fully to establish a 47 gallons per minute (1.1 BPM) flowback rate from well C-11.

RMQ:
May 24, 1997

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	Hidalgo **C-11** (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000	PSI W.P.	WORKOVER	

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1787'

13-3/8" 72# @ 3412'

719' Baker FV-6 SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
2143	2117	1056	1/4"
4369	3599	1036	1/4"
6225	4600	ORIFICE	5/16"
7560	5300	Dummy	
8340	5745	Dummy	
8931	6086	Dummy	
9390	6407	Dummy	

ZONES

FORMATION	M.D.	V.S.S.
PA17-Top	10,534'	-6,971'
PA19-Top	10,836'	-7,199'
PA20-Top	11,110'	-7,413'
PA21-Top	11,398'	-7,648'
PA22-Top	11,627'	-7,846'
PA23-Top	11,724'	-7,933'

9504' (6415' TVD) Baker (9-5/8") 'HB' Packer

T.O.L. @ 9579' MD (6457 TVD)

9-5/8" 43.5# @ 9820' (Top of milled window)

9642' OTIS "X" Nipple (2.75" ID)
9643' Perforated Pup jt. (10')
9653' OTIS "X" Nipple (2.75" ID)
9686' Rotating muleshoe
9689' Tubing tail

Frac Perfs from 11,051' - 11,061' (50 holes)

11,258' (7665' TVD) Baker Model "D" packer
3-1/2" pup joint (6')
OTIS "X" Nipple (2.75" ID)
+/- 11,272' Muleshoe

PERFORATIONS

FORM.	M.D.	V.S.S.
PA20, PA21	11,308' - 11,434'	-7573' --7678'
PA21	11,476' - 11,624'	-7714' --7808'
PA22, PA23	11,656' - 11,804'	-7872' --8004'

4-1/2" Tub. Conv. 0.49" @ 5 SPF, 60 deg phas

11,632' (top of packer) Baker "FB-1 pkr (4.00 ID)
3-1/2" pup joint (10 ft minimum)
11,645' Baker "R" nipple (2.697 ID)
11,648' Rotating muleshoe

8 Round Threads

11,885 Top of Cement plug

Junk in hole: bottom 1.5' of Baker lock-open tool (2.45" OD)

DIRECTIONAL DATA

VERTICAL TO 1,350'

MAX ANGLE 61° @ 6600' AND
25° @ 11,885' TD

PBTD 11,885' MD (8210' TVD, -8077 VSS)

TD 11,991' MD (8,234' TVD, -8101 VSS)

DATE 6/9/97

BY VDE

Rev. by DSH

PROPRIETARY DATA

MINERALS MANAGEMENT SERVI
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies wi" one copy marked "Public Informati

OMB No. 1010-0045
Expiration Date: September 30, 1999

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01	C - 11	Chevron U.S.A. Production Co.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	646 County Square Drive Ventura, CA 93003
Point Arguello		00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI 10 - 6

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	GLO
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE X	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
Slot 3 677.95' FEL 5110.23' FNL X = 710,993.36 m Y = 3,819,242.40 m UTM 10	OCS-P-0450	SM	464	NI 10 - 6

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	430'	133' (orig.)	Hidalgo, Pool #411	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Proposal: Temporarily isolate lower perfs. Perforate Upper Monterey and perform hydraulic fracture treatment. Re-expose lower perfs and complete with 3-1/2" tubing.

Attached: Revised Proposal for Well Operations PRO 316-1 dated 2/13/97.
(Replaces original program dated 11/13/96).
Current Schematic, Frac String Design schematic, Proposed schematic.
Preliminary Frac Equipment Layout.

FEB 18

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
R. A. PICCIOTTI	805-658-4365
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
R. A. PICCIOTTI for G. R. STEINBACH	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE R. A. Picciotti	31. DATE February 13, 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY M.E. Mitchell for Phillip R. Schroeder TITLE District Supervisor

DATE 2/18/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.
Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 20170-4817; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

February 13, 1997

PROPOSAL FOR WELL OPERATIONS
PRO-316-1
REVISED WORKOVER PROGRAM
(Work to be supervised by Drilling)

Field: Point Arguello Platform: Hidalgo Property: OCS-P-0450 Well: C-11 (C-6 Redrill)

OBJECTIVE:

Temporarily isolate lower existing perforated interval, perforate and hydraulically fracture the M-1 zone. Re-expose lower perforations and run 3-1/2" completion tubing.

CURRENT CONDITIONS:

See attached schematic.

SURFACE LOCATION:

Slot 3: X = 710,993.36 m Y = 3,819,242.40 m, UTM Zone 10.

ELEVATIONS:

Water Depth:	430'
Derrick Floor to MLLW:	118', estimated.
Original D.F.:	133'
Derrick Floor to Ocean Floor:	548', estimated.

BLOWOUT PREVENTION EQUIPMENT:

A 13-5/8" 5000 psi Class IV (RSRRA) blowout preventer will be utilized. Test BOPS to 250 psi low pressure and 3000 psi high pressure, and record same on chart.

HYDROGEN SULFIDE CONSIDERATIONS:

The Monterey has strong potential for H2S gas. Hydrogen sulfide concentrations from producing wells can exceed 15,000 PPM. **Assume all gas circulated to the surface to have H2S potential.** All operations shall be performed in accordance with current MMS approved H2S Contingency Plan for Platform Hidalgo. H2S monitors will be located on the rig floor, flow nipple and shale shaker.

COMPLETION FLUID:

The fluids used to kill and workover this well will consist of filtered sea water with additions of NaCL for weight as needed. **For the current perforations 8.5 ppg sea water (.44 psi per ft gradient) will provide a 582 psi overbalance given a Monterey reservoir pressure of 2956 psi at 8004' VD (.3693 psi per ft gradient or 7.1 ppg EMW). Reservoir pressure based on information obtained from a 30 hour pressure build up survey run in C-8 on 4/2/96. Reservoir pressure at the top of the proposed perforations at 11051' (7500' VD) may be as high as 3000 psi (0.4000 psi/ft or 7.7 ppg EMW). 8.5 ppg sea water will provide a 315 psi overbalance.** Adequate concentrations of zinc carbonate H2S scavenger will be kept on location at all times. The pH will be that of seawater/NaCL fluid and not controlled. Scaletrol will be added to prevent scale formation - 5 gals per 200 bbls optimum 5 gals per 1000 bbls minimum concentration.

WELL CONTROL CONSIDERATIONS:

It is critical to keep the hole full at all times. Utilize trip tank with centrifugal pump to monitor fluid losses and keep hole full. Review of recent workovers on Platform Hermosa high PI wells in July 1995 reveal fluid losses in excess of 8 BPM. **For wells with high fluid losses and 9-5/8" casing a fill up rate of 5 BPM will ensure no gas migration to the surface.**

PRIOR TO RIG WORK:

Check tubing pressure and all annulus pressures.
Note: Baker FV-6 SSSV at 792' has been locked open due to a leak in the hydraulic control line. An ambient type insert valve has been installed in the profile above the SSSV.
Pull Macco HP-PB ambient valve from 792'. Pull valve from lower most gas lift mandrel at 9497' and kill well by circulating sea water down the tubing and up the tubing/casing annulus taking returns to Production vessels. Install pump through type tubing plug in profile above SSSV at 792'. Remove flowlines from tree.

PROGRAM:

Note: Mobilization of D.S. frac equipment will take several days. Proper planning will be crucial to the timely completion of this logistically difficult job.

1. Skid rig to Slot 3, well C-11.
2. Install one way BPV.
3. Remove tree. Plug control line port in tubing hanger. Nipple up 13-5/8" Class IV 5000 PSI BOPE and test to 250 psi low and 3000 psi high. **Test blind rams after first trip out of hole.**
4. Pump tubing volume and remove BPV and pump through tubing plug. Back-out lock down screws. Unland tubing hanger and release Baker 'HB' hydraulic packer at 9540'(45,000# shear). POOH laying down tubing and send in for inspection. Send SSSV, gas lift mandrels and packer to manufacture for redress. Note: Pressure test Xmas tree and all valves to 5000 psi prior to re-installation.
5. Pressure test blind rams to 250 psi low and 3000 psi high.
6. Make cleanout run with 6-1/8" bit and tandem 7" and 9-5/8" casing scrapers to 11300'. Space out scrapers so as to scrape 9-5/8" casing to near top of 7" liner lap at 9579'.
7. Set a Baker Model D permanent packer on wireline in the 7" liner at 11,258' MD (50' above the existing perforations). Packer is to be equipped with 3-1/2" x 6' pup joint, Otis 'X' nipple and muleshoe.
8. RIH with workstring and set a Baker model "F" latching plug in the model "D" packer at 11,258' MD. Test packer and plug to 1000 psi.
9. Spot 10' of 20/40 white and river sand mix on top of the packer plug. Allow sand to settle and make a confirmation tag to ensure sand is at 11,248' MD. POOH.
10. Test casing, plug and liner lap to 2800 psi. Locate any leak. If the liner lap fails to hold, be prepared to run a Baker liner tie-back stem with a 7" X 9-5/8" liner packer and 10' tie-back extension to isolate the lap.

11. N/U flanged lubricator and test to 1000 psi. RIH with 4-1/2" wireline casing guns and perforate from 11,051'-11,061' MD with 5 SPF, 72 degree phasing, 37 gram charges. Production Engineer Rick Quilter to supply correlation log and witness perforating.
12. RIH with frac string as follows: 2-7/8" mule shoe, 2-7/8" 'XN' Nipple, 10' perforated blast joint, 2-7/8" 'X' Nipple, 6' 2-7/8" pup joint, Baker 7" Retrievamatic packer, 3-1/2 IF by 4-1/2 Hydril 501 crossover, 4-1/2" 12.75# L-80 Hydril 501 tubing to surface with Baker 'F' nipple near 1000'. Install 4-1/2" x 13-5/8" tubing hanger and set packer with tail near 10,800'. Externally test connections to 6000 psi. The packer will need to be set prior to landing the tubing hanger to allow for sufficient slack-off to apply 40,000 lbs down force on the packer (48 inches of slack-off after setting packer) when the hanger lands. Above the tubing hanger, use 5" 18# L-80 Hydril 563 tubing. Plug test the landing joint(s), tubing hanger and fatigue nipple to 7500 psi. Lock down tubing hanger.
13. Rig up D.S. frac equipment per attached schematic. Rig up and test annulus relief valve, set for 3000 psi.
14. RIH with test plug on slick line and set in 2-7/8" "X" landing nipple below packer. Test frac string to 6000 psi. Retrieve test plug.
15. RIH with quartz pressure gauges on slick line and set in 2-7/8" 'XN' nipple below perforated blast joint.
16. Pressure annulus to 2500 psi. Hold 2500 psi on annulus throughout frac.
17. Perform mini-frac (Estimated time is 3-4 hrs). The mini-frac includes the pumping of up to 30,000 gals of crosslinked fluids without proppant. Pump rates will be 30-40 bpm with 5500-7500 psi surface pressure. **Production Engineer Rick Quilter will supply detailed programs for the mini-frac and frac jobs.**
18. RIH with wireline and retrieve pressure gauges.
19. Bleed off pressure from tubing/casing annulus.
20. Analyze mini-frac data and modify (if needed) final frac design.
21. Re-pressure tubing/casing annulus to 2500 psi and hold 2500 psi on annulus throughout frac job.
22. Perform frac job. The frac job includes the pumping of 50,000 gals of cross-linked fluids with 90,000 lbs of proppant. Pump rates will be 30-40 bpm with 5500-7500 psi surface pressure. Note: In case of premature sand out during frac job, the tubing could become bridged with proppant. Make arrangements to have a coil tubing unit on standby to clean out any sand bridges in tubing.
23. After completion of frac, flow back well to production facilities as directed by Production Engineer Rick Quilter. A maximum of 500 bbls will be flowed back, or until well dies.
24. During flowback, tubing/casing annulus pressure can be bled down as tubing pressure decreases.
25. Kill well (if necessary) by bullheading tubing or by reverse circulation after opening unloader or unsetting packer.
26. POOH with frac string and packer.
27. RIH with overshot, clean out sand, latch and retrieve 'F' latching plug from Baker model "D" packer at 11,258' MD. If well is taking too much fluid to circulate or reverse out sand fill, be prepared to use a tubing bailer to clean out fill and retrieve packer plug.
28. Run 3-1/2" production tubing with 9-5/8" hydraulic packer as per "Production Tubing Running Procedure".

29. Install back pressure valve. Nipple down BOPE. Nipple up 3-1/2" tree and pressure test to 5000 psi. Turn well over to Production. Note: Operations to conduct a no flow test of the tubing sub-surface safety valve after production has been established.

COMPLIANCE WITH FEDERAL OR LOCAL REGULATORY AGENCIES
Ensure that a copy of the MMS and the Land approvals are 'in hand' prior to commencement of operations. Permit requirements take precedence over program procedures. All program modifications to be approved by the MMS: Phil Schroeder or Dan Knowlson (805) 922-7958.

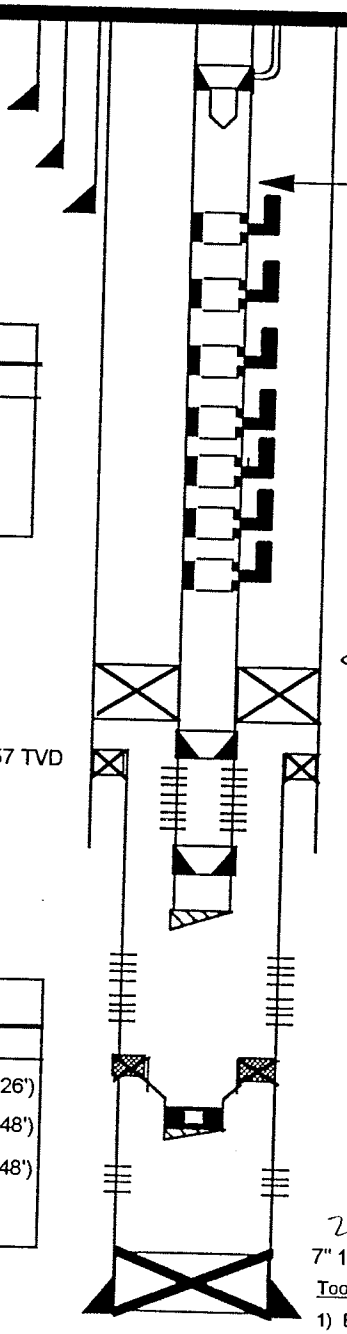
February 13, 1997

L. A. Picciotti — Drilling Engineer

R. M. Quilter — Production Engineer

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-11 (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1787'

13-3/8" 72# @ 3412'

792' Baker FV-6 SSSV (locked open)
Macco HP-PB ambient valve @ 792'

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
2202	2170	1100	1/4"
4082	3441	1075	1/4"
5302	4101	1050	1/4"
7193	5101	1025	1/4"
8128	5624	DUMMY	
8946	6095	ORIFICE	1/4"
9497	6411	DUMMY	

History of wireline problems (hard to locate/land) in mandrel at 8128' MD

Valve in mandrel with broken latch

ZONES

FORMATION	M.D.	V.S.S.
S5-Top	10,534'	-6,971'
M1-Top	10,836'	-7,199'
M2-Top	11,110'	-7,413'
M3-Top	11,398'	-7,648'
M4-Top	11,627'	-7,846'

T.O.L. @ 9579' MD 6457 TVD

9-5/8" 43.5# @ 9820' (Top of milled window)

9,540' Baker 'HB' Packer
Five tubing joints
9,709' Baker "F" nipple (2.75 ID)
Perforated pups (20')
9,729' Baker "F" nipple (2.75 ID)
Tubing Joint
9,762' Rotating muleshoe

PERFORATIONS

FORM.	M.D.	T.V.D.	
M2 / M3	11,308' - 11,434'	7,706 - 7,811'	(126')
M3	11,476' - 11,624'	7,847 - 7,976'	(148')
M4	11,656' - 11,804'	8,005 - 8,137'	(148')

4 1/2" Tubing Conveyed, 5 0.49" SPF 60 degree
(Shot 1,000 psi under balance)

11,632' (top of packer) Baker "FB-1 packer (4.00 ID)
3 1/2" pup joint (10 ft minimum)
11,645' Baker "R" nipple (2.697 ID)
11,648' Rotating muleshoe

26# L-80

7" 11,885 Top of Cement

8 Round Threads

Tools left in hole

1) Bottom 1.5 feet of Baker lock-open tool (2.45" OD)

DIRECTIONAL DATA

VERTICAL TO 1,350'
MAX ANGLE 61° @ 6,600' AND
25° @ 11,885' TD

PBTD 11,885'

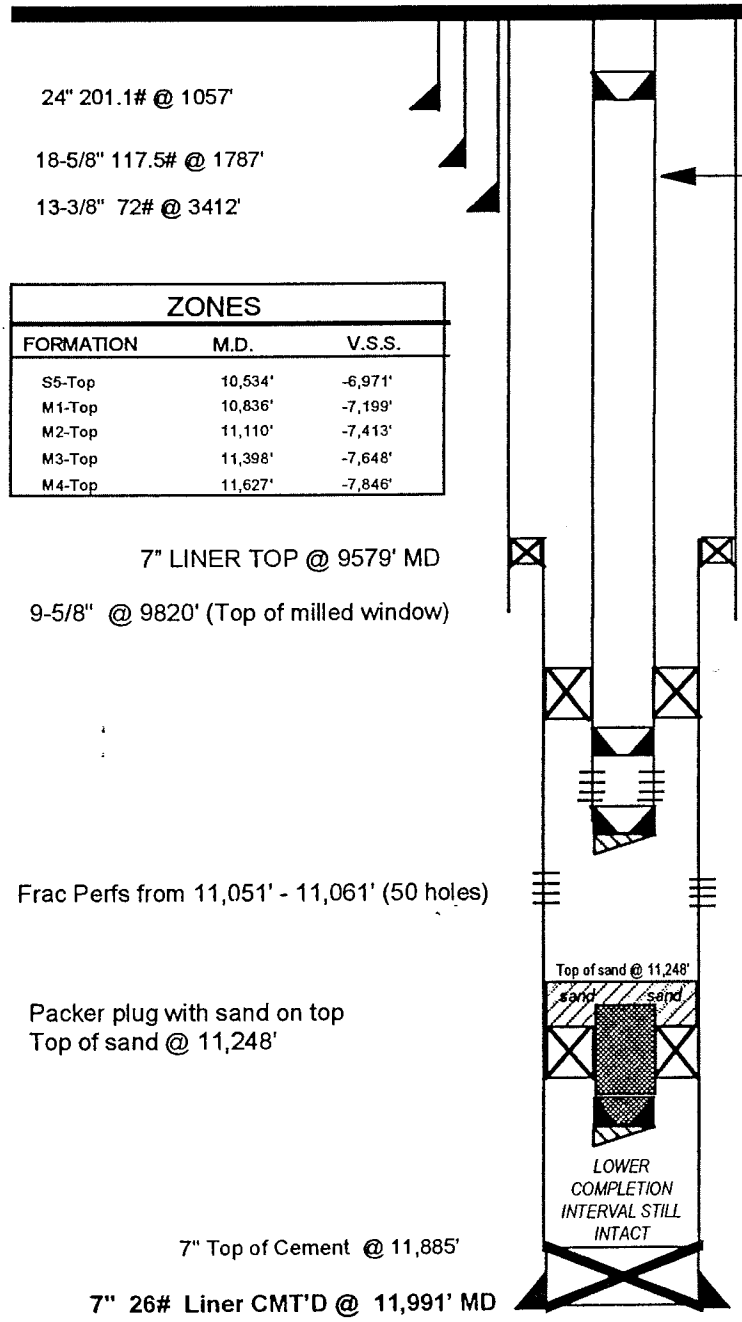
TD 11,991' MD 8,234' TVD

DATE 04-01-96

BY VDE

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TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

FRAC STRING DESIGN



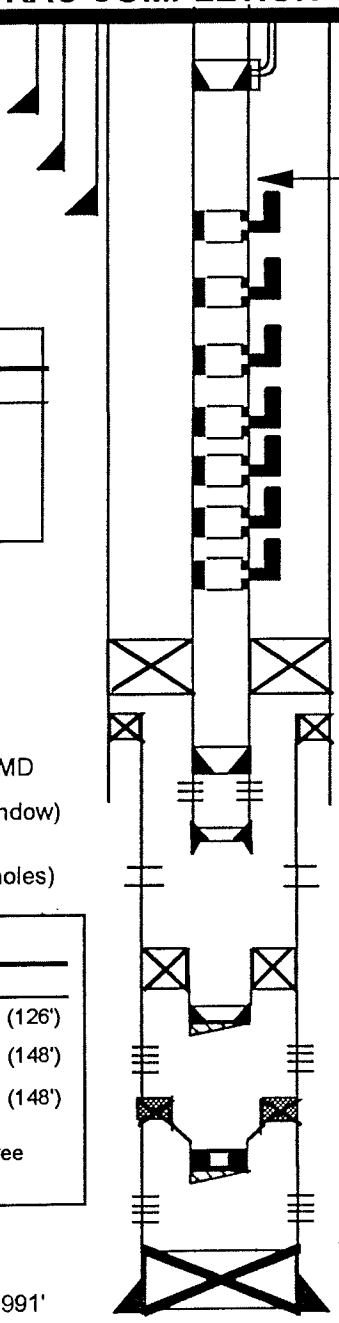
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DATE 02-11-97

BY RMQ/DML

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5000 PSI W.P.		WORKOVER	

POST FRAC COMPLETION - *Proposed*



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1787'

13-3/8" 72# @ 3412'

800' Baker FV-6 SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

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McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
		DUMMY	
		DUMMY	
		DUMMY	
		DUMMY	
		DUMMY	
		DUMMY	
		DUMMY	

9,500' Baker 'HB' Packer

Five tubing joints

Otis "X" nipple (2.75 ID)
Perforated pup (10')

Otis "X" nipple (2.75 ID)
Wireline re-entry guide @ +/-9677'

T.O.L. @ 9579' MD

9-5/8" 43.5# @ 9820' (Top of milled window)

Frac Perfs from 11,051' - 11,061' (50 holes)

PERFORATIONS			
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4 1/2" Tubing Conveyed, 5 0.49" SPF 60 degree
(Shot 1,000 psi under balance)

Baker Model 'D' Packer @ 11,258'
3 1/2" pup joint (6 foot)
Otis "X" nipple (2.75" ID)
Muleshoe @ +/- 11,272'

11,632' (top of packer) Baker "FB-1 packer (4.00 ID)
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1) Bottom 1.5 feet of Baker lock-open tool (2.45" OD)

7" 26# @ 11,991'

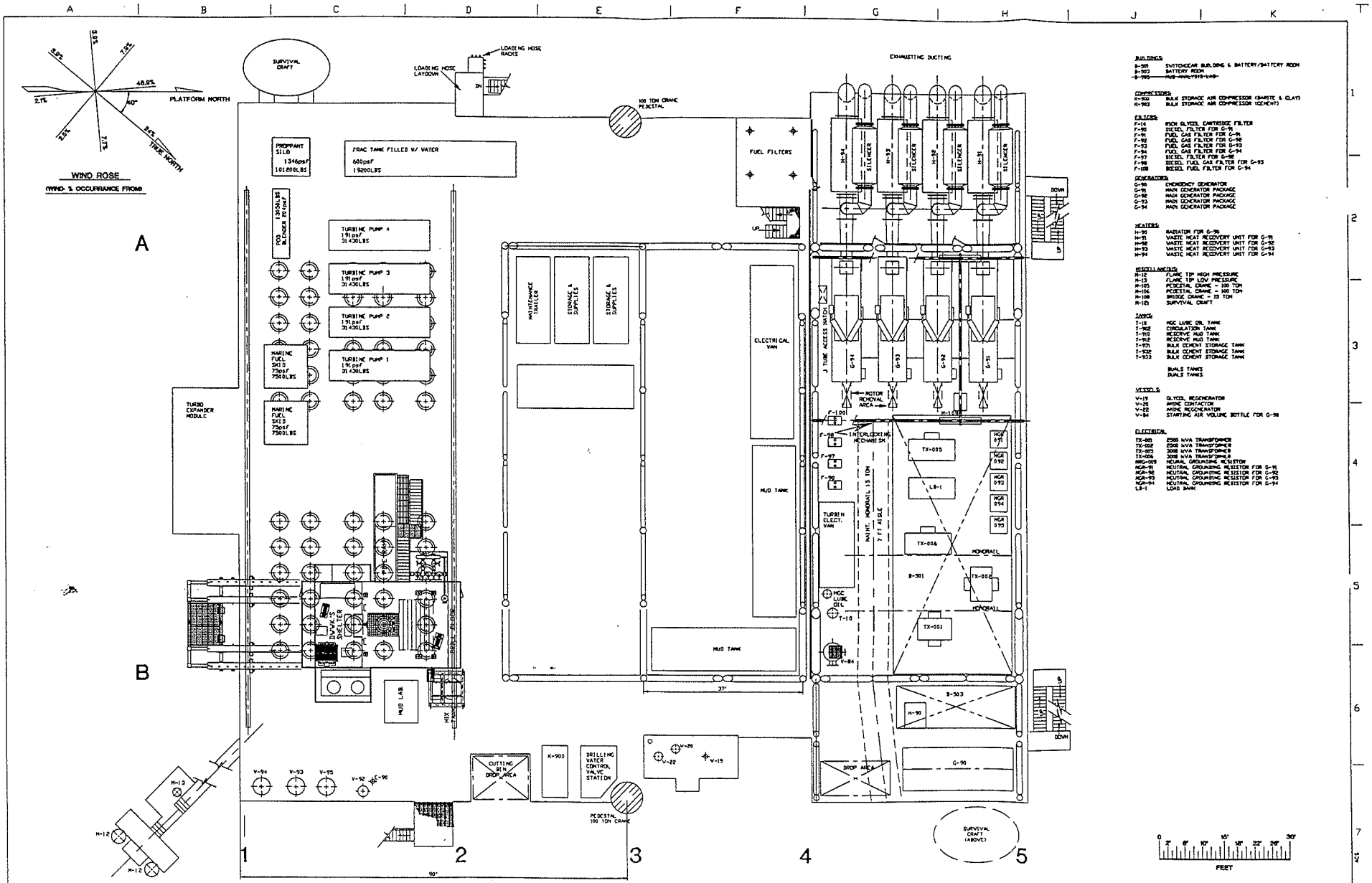
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MAX ANGLE 61° @ 6,600' AND
25° @ 11,885' TD

PBTD 11,885'

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DATE 02-12-97

BY RMQ/DML



BUILDINGS
B-301 SWITCHGEAR BUILDING & BATTERY/BATTERY ROOM
B-303 BATTERY ROOM
~~B-305 HUB MANIFOLD~~

COMPRESSORS
K-901 BULK STORAGE AIR COMPRESSOR (BARITE & CLAY)
K-902 BULK STORAGE AIR COMPRESSOR (CEMENT)

FILTERS
F-14 HIGH GLYCOL CARTRIDGE FILTER
F-96 DIESEL FILTER FOR G-96
F-97 FUEL GAS FILTER FOR G-96
F-92 FUEL GAS FILTER FOR G-92
F-93 FUEL GAS FILTER FOR G-93
F-94 FUEL GAS FILTER FOR G-94
F-97 DIESEL FILTER FOR G-97
F-98 DIESEL FUEL GAS FILTER FOR G-93
F-108 DIESEL FUEL FILTER FOR G-94

GENERATORS
G-96 EMERGENCY GENERATOR
G-95 MAIN GENERATOR PACKAGE
G-92 MAIN GENERATOR PACKAGE
G-93 MAIN GENERATOR PACKAGE
G-94 MAIN GENERATOR PACKAGE

HEATERS
E-96 RADIATOR FOR G-96
H-91 WASTE HEAT RECOVERY UNIT FOR G-95
H-92 WASTE HEAT RECOVERY UNIT FOR G-92
H-93 WASTE HEAT RECOVERY UNIT FOR G-93
H-94 WASTE HEAT RECOVERY UNIT FOR G-94

MISCELLANEOUS
M-12 FLARE TIP HIGH PRESSURE
M-13 FLARE TIP LOW PRESSURE
M-105 PEDESTAL CRANE - 100 TON
M-106 PEDESTAL CRANE - 100 TON
M-108 BRIDGE CRANE - 10 TON
M-125 SURVIVAL CRAFT

TANKS
T-18 MGC LUBE OIL TANK
T-902 CIRCULATION TANK
T-903 RESERVE MUD TANK
T-904 RESERVE MUD TANK
T-905 BULK CEMENT STORAGE TANK
T-906 BULK CEMENT STORAGE TANK
T-907 BULK CEMENT STORAGE TANK
BARITE TANKS
DUALS TANKS

VESSELS
V-19 GLYCOL REGENERATOR
V-20 AMINE CONTACTOR
V-22 AMINE REGENERATOR
V-92 STARTING AIR VOLUME BOTTLE FOR G-96

ELECTRICAL
TX-005 2500 kVA TRANSFORMER
TX-006 2500 kVA TRANSFORMER
TX-001 3000 kVA TRANSFORMER
TX-002 3000 kVA TRANSFORMER
NGR-95 NEUTRAL GROUNDING RESISTOR
NGR-96 NEUTRAL GROUNDING RESISTOR FOR G-96
NGR-92 NEUTRAL GROUNDING RESISTOR FOR G-92
NGR-93 NEUTRAL GROUNDING RESISTOR FOR G-93
NGR-94 NEUTRAL GROUNDING RESISTOR FOR G-94
LB-1 LOAD BANK

REFERENCE DRAWINGS

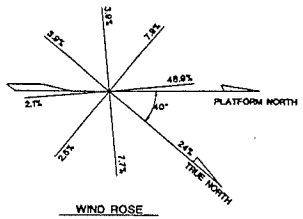
REVISIONS
AS-BUILT REMOVED T-84, T-85 P-83, P-84, P-90, & P-91
ADDED PROPOSED DRILL RIG

SCALE 1" = 1/8"
DATE 2-26-93 DR. ACS CK.
DR. APPR. ENG.
OPR'G. DEPT. APPROVED
ENG'R. DEPT.

Chevron USA Inc.
Western Production Business Unit
CONFIDENTIAL

EQUIPMENT ARRANGEMENT PLAN
MAIN DECK AND POWER EL. 95'-3"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | cc. | S.O. | E-SB-1600 | A



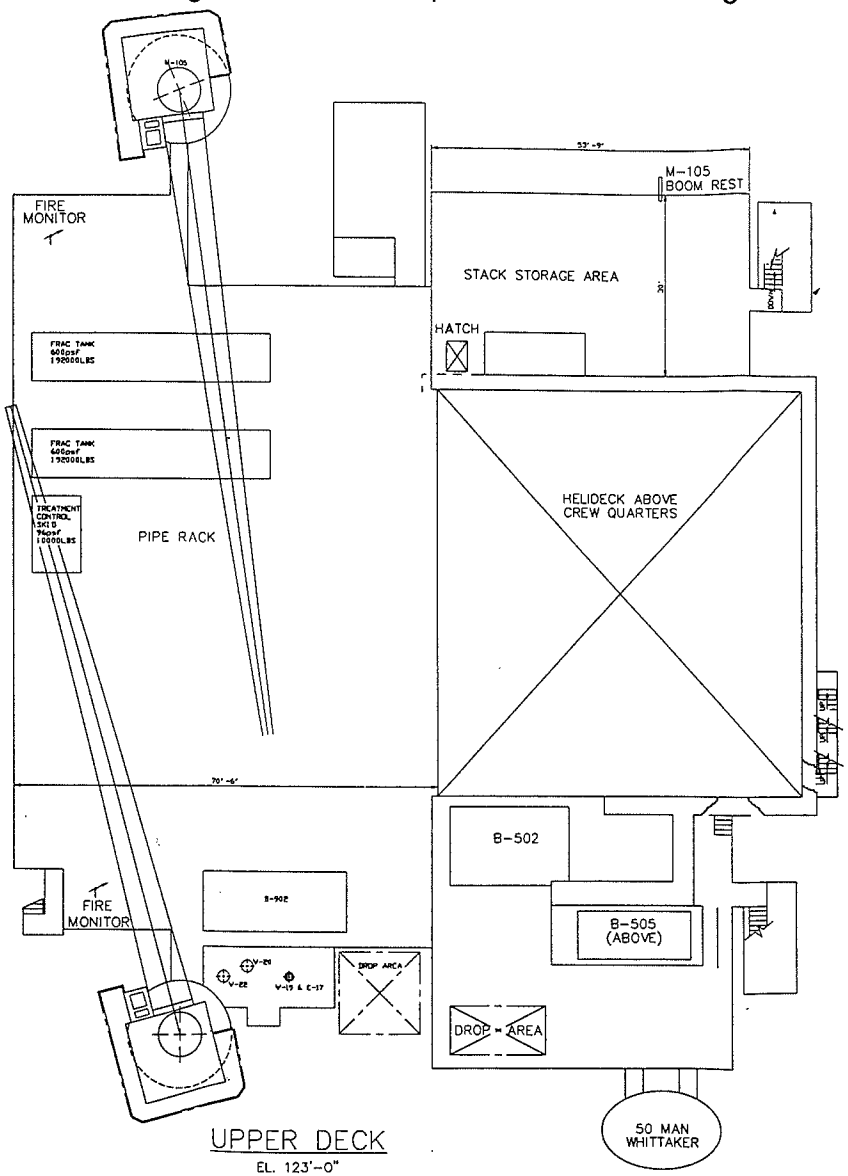
WIND ROSE

(WIND- % OCCURRANCE FROM)

1 2 3 4 5

A

B



UPPER DECK

EL. 123'-0"

BUILDINGS:
B-502 HVAC EQUIPMENT BUILDING
B-601 CREW QUARTERS/HELIPORT
B-504 SHOWER & CHANGE ROOM
B-505 POWER FACTOR BUILDING
B-901 MCC ROOM - EAST BAY3
B-902 CRANE EQUIPMENT STORAGE BLD.

EXCHANGERS:
E-17 GLYCOL REGENERATOR CONDENSER

GENERATORS:
G-901 STAND-BY GENERATOR

MISCELLANEOUS:
M-105 PEDESTAL CRANE 100 TON
M-106 PEDESTAL CRANE - 100 TON
R-128 SURVIVAL CRAFT
T-311 LOGGING UNIT

VESSELS:
V-19 GLYCOL REGENERATOR
V-29 AMINE CONTACTOR
V-22 AMINE REGENERATOR

0 2" 6" 10" 18" 22" 26" 30"

FEET

1/8" = 1'-0"

REFERENCE DRAWINGS	REVISIONS			
	◇ AS-BUILT - GENERAL ADDED B-303 POWER FACTOR		SCALE 1" = 1/8"	Chevron U.S.A. Inc. Western Production Business Unit Ventura District
	◇ ADDED PROPOSED FRAC EQUIPMENT ISSUED TO MMS FOR APPROVAL	ACS RMG	DATE 02-25-98 ACS CK. DR. APPR. ENG. DRFT'G. DEPT. APPROVED ENG'R. DEPT.	

EQUIPMENT ARRANGEMENT PLAN
UPPER DECK PIPERACK EL. 123'-0"
DRILLING & PRODUCTION PLATFORM HIDALGO
OCS PARCEL P-0450 POINT ARGUELLO, CALIFORNIA

A | C.C. | E-SB-1500 | A

S.O.

ACS

ERB 3/98 G:\CAD\HIDALGO

PUBLIC INFORMATON
MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL __X__ CORRECTION ____	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:01	C-11	Chevron U.S.A. Inc P.O. Box 6917 Ventura, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ____	ACIDIZE ____	FRACTURE ____	PLUG BACK ____	WORKOVER ____	POW
	ALTER CASING ____	INITIAL COMPLETION ____	PULL CASING ____	OTHER __X__	
	ARTIFICIAL LIFT ____	MULTI-COMPLETION ____	RECOMPLETION ____	_____	
	CHANGE ZONE ____	PERFORATE ____	SIDETRACK ____	_____	
SUBSEQUENT REPORT __X__	DEEPEN ____	PERM ABANDONMT ____	TEMPORARY ABANDONMENT ____	_____	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
	OCS-P-0450	SM	464	NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 __	00430'	00133'	Hidalgo	Platform

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

REPAIR OF SSSV HYDRAULIC OIL LEAK BETWEEN THE TUBING HANGER AND THE BONNET.

MINERALS MANAGEMENT SERVICE
AUG 17 1995
RECEIVED
SANTA MARIA

26. CONTACT NAME	27. TELEPHONE NUMBER
R. M. QUILTER	805-658-4400
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
A. CORNELIUS	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	**31. DATE**
[signature]	8/8/95

THIS SPACE FOR MMS USE ONLY

APPROVED BY [signature] for Phillip R. Schroeder

TITLE District Supervisor

DATE 8/21/95

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

PROPRIETARY DATA

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION ___	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:01	C-11	Chevron U.S.A. Inc P.O. Box 6917 Ventura, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,993M Y=3,819,242M	OCS-P-0450	SM	464	NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	Hidalgo	Platform

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED SUMMARY OF COMPLETED WORK

REPAIR OF SSSV HYDRAULIC OIL LEAK BETWEEN THE TUBING HANGER AND THE BONNET.

MINERALS MANAGEMENT SERVICE
AUG 17 1995
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
R. M. QUILTER	805-658-4400
28. AUTHORIZING OFFICIAL (Type Name) A. CORNELIUS	29. TITLE Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE 8/8/95

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

Phillip R. Schroeder

DATE 8/21/95

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will n

DISTRIBUTED
8/14/95

124-OUT-HID-P
Orig:Vta Well File
Originator R.M. QUILTER
V.Sankur
MMS Santa Maria (3+1 P.I.)
Phillips Petrol.(2)
Pt. Arguello File, T. Ray
R. Hoshman

OCS-P-0450 #C-11 WORK SUMMARY
HIDALGO PLATFORM
POINT ARGUELLO FIELD
SSSV hydraulic oil leak repair between the tubing hanger and the bonnet:

1. Conducted prejob safety meetings each day.
2. Bled off pressure from both casing and production tubing to 0 psi.
3. Filled the 9-5/8" casing with 495 barrels of seawater. Pumped 111 barrels of seawater down tubing.
4. Drifted wellhead valve with backpressure valve drift tool.
5. Rigged up FMC's lubricator on well C-11.
6. Installed back pressure valve in the tubing hanger.
7. Rigged down the lubricator.
8. Disconnected flow lines and C-section.
9. Opened all valves on the tree to confirm no flow or leaks.
10. Unbolted the bonnet and lifted the tree with the crane.
11. Removed the SSSV seal sleeve and tubing seal sleeve from the tubing hanger, inspected and installed new O-rings.
12. Installed the SSSV seal sleeve and tubing seal sleeve with the new O-rings in the tubing hanger. Installed a new API ring.
13. Filled the top of the tubing hanger with oil.
14. Landed the tree and buttoned up the bonnet.
15. Conducted test on the SSSV seal sleeve, tubing seal sleeve and API ring. The space between the bonnet and the tubing hanger was pressure tested to 5000 psi for 15 minutes.
16. Rigged up FMC's lubricator, pressure tested to 1500 psi and removed the back pressure valve.

17. Replaced SSSV supply, re-installed flowlines and C-section.

18. After the SSSV control was hooked up to the control panel, pressured tested the SSSV to 2800 psi.

19. Placed well C-11 on production.

MINERALS MANAGEMENT SERVI
SUNDRY NOTICES AND REPORT ON WELL

Submit original plus three copies v one copy marked "Public Informa

PROPRIETARY DATA

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:01	C-11	Chevron U.S.A. Inc P.O. Box 6917 Ventura, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=710,993M Y=3,819,242M	OCS-P-0450	SM	464	California Map NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	HIDALGO	PLATFORM

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED PROCEDURE

REPAIR OF SSSV HYDRAULIC OIL LEAK BETWEEN THE TUBING HANGER AND THE BONNET:

VERBAL APPROVAL RECEIVED BY MIKE MITCHELL, MMS AT 3:05PM, 7/31/95

MINERALS MANAGEMENT SERVICE
AUG - 2 1995
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
RICK M. QUILTER	805-658-4400
28. AUTHORIZING OFFICIAL (Type Name) A. CORNELIUS	29. TITLE Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE 7/31/95

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder
Phillip R. Schroeder

TITLE District Supervisor

DATE 8/3/95

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will n...

DISTRIBUTED
8/1/95

124-OUT-HID-P
Orig:Vta Well File
Originator R.M. QUILTER
V.Sankur
MMS Santa Maria (3+1 P.I.)
Phillips Petrol.(2)
Pt. Arguello File, T. Ray
R. Hoshman

OCS-P-0450 #C-11
HIDALGO PLATFORM
POINT ARGUELLO FIELD
Repair of SSSV hydraulic oil leak between the tubing hanger and the bonnet:

C-11 bottom hole pressure: 2802 psi at 7400 VSS (0.379 psi/ft.)
Shut in tubing pressure: 1200 psi due to gas-lift gas.

Note: SSSV closed due to hydraulic leak and can not be opened. The leak has been determined to be between the bonnet and the tubing hanger.

1. Conduct prejob safety meeting each day.
2. Bleed the gas lift gas from the 9-5/8" casing into the production system.
3. Fill the 9-5/8" casing with sea water. Estimated fill up volume is 332 barrels.
4. Bleed off pressure from both casing and production tubing to 0 psi.
5. Rig up FMC's lubricator on well C-11.
6. FMC Service personnel to install back pressure valve in the tubing hanger.
7. Rig down the lubricator.
8. Disconnect flow lines and C-section.
9. A gauge will be on the casing such that the casing pressure can be monitored.
10. Open all valves on the tree to confirm no flow or leaks.
11. Unbolt the bonnet and lift the tree with the crane.
12. Remove the ***SSSV seal sleeve*** and ***tubing seal sleeve*** from the tubing hanger, inspect and install new O-rings.
13. Install the ***SSSV seal sleeve*** and ***tubing seal sleeve*** with the new O-rings in the tubing hanger. Install a new API ring.
14. Fill the top of the tubing hanger with oil.
15. Land the tree and button up the bonnet.

16. FMC service representative to conduct test on the SSSV seal sleeve, tubing seal sleeve and API ring. The space between the bonnet and the tubing hanger will be pressure tested to 5000 psi for 15 minutes.

17. Rig up FMC's lubricator, pressure test to 1200 psi and remove the back pressure valve.

18. Replace SSSV supply, re-install flowlines and C-section.

19. After the SSSV control is hooked up to the control panel, pressure the SSSV to 4500 psi. Isolate the control line and test for bleed off for 15 minutes.

20. When unloading the well, hold the injection gas to 200 MCF/D. Let the casing pressure build slowly. When the well begins to pass gas through the top valve, begin to increase the gas slowly to a maximum of 500 MCF/D. Increase the gas 50 MCF/D at a time once every two hours after the well begins to pass gas.

PROPRIETARY DATA

VEGA SANKUR

MAY 2 4 1995

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE

SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

PAAT, VTA PROJECT CTR.

OMB No. 1010-0045

Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:01	C-11	Chevron U.S.A. Inc
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	P.O. Box 6917 Ventura, CA 93006
Pt. Arguello	OCS-P-0450	00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE X	FRACTURE ___	PLUG BACK X	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY	___	
			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X = 710,993M Y = 3,819,242M	OCS-P-0450	SM.	464	California Map NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	HIDALGO	PLATFORM

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Worked performed on May 20, 1995
SEE ATTACHED PROCEDURE
Set a RZG plug in "R" nipple at sump packer.
Acidize well. Shut in pressure after acid job was 900 psi.
Pulled RZG plug
Put well back on production.

MINERALS MANAGEMENT SERVICE
JUN - 2 1995
RECEIVED
SANTA MARIA DISTRICT

MINERALS MANAGEMENT SERVICE
JUN - , 1995
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
TERRY RAY	805-658-4378
28. AUTHORIZING OFFICIAL (Type Name) A.. Cornelius	29. TITLE Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE 5/24/95

THIS SPACE FOR MMS USE ONLY

APPROVED BY M. J. Mitchell for Phillip R. Schroeder

TITLE District Supervisor

DATE 6/5/95

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which w

124-OUT-HID-P
Orig:Vta Well File
Originator T.RAY
V.Sankur
MMS Santa Maria (3+1 P.I.)
Phillips Petrol.(2)
Pt. Arguello File, T. RAY

C-11 OCS-P-0450
STIMULATION

SERVICE COMPANY: Dowell Schlumberger
CHEVRON: Engineer Technician - Terry Ray
PLATFORM HIDALGO
DATE: 5-20-95

SUMMARY

TYPE OF FLUID PUMPED	BARRELS PUMPED	PSI Pressure	BARRELS PER MINUTE
SEA WATER	10 bbls	900 psi	2 bpm
AMMONIUM CHLORIDE 21 %	12 bbls	980 psi	2 bpm
AMMONIUM CHLORIDE 3 %	12 bbls	980 psi	2 bpm
15% HCL	48 bbls	1,140 psi	2 bpm
13% HCL - 1.5% HF	71 bbls	1,140 psi	2 bpm
Shut down for twenty minutes to let 21% ammonium chloride settle on sump packer.			
15% HCL	48 bbls	1,140 psi	2 bpm
AMMONIUM CHLORIDE 3 %	36 bbls	1,120 psi	2 bpm
SEA WATER	150 bbls	1,150 psi	2 bpm

5-20-95 Saturday

6:45 am Held a 20 minute safety meeting in the control room.
8:00 am Witness emergency shut down on Dowell diesel engine.
8:05 am Pressure tested lines to valve above swab to 2,800 psi and held pressure for 10 minutes.
8:23 am Pressure tested lines to swab to 3,100 psi and held pressure for 10 minutes.
9:00 am Opened valve and started pumping sea water down casing to fill up back side.
10:50 am Opened master valve, pumping 10 bbls of sea water at 2 bpm.
10:55 am Pumping 12 bbls of Ammonium Chloride 21% at 2 bpm.
11:00 am Pumping 12 bbls of Ammonium Chloride 3% at 2 bpm.
11:10 am Pumping 48 bbls of HCL 15% at 2 bpm.
11:22 am Pumping 71 bbls of HCL 13% + 1.5% HF at 2 bpm.
12:00 pm Stopped pumping letting Ammonium Chloride 21% settle to the sump packer and plug.
12:22 pm Pumping 48 bbls of HCL 15% at 2 bpm.
12:38 pm Pumping 36 bbls of Ammonium Chloride 3% at 2 bpm.
12:56 pm Pumping 150 bbls of sea water at 2 bpm.
2:15 pm Stopped pumping, shut in pressure at surface went to 900 psi.
2:35 pm Pumped 12 bbls of caustic into V71 and 12 bbls into V72.

5-21-95 Sunday: Pulled RZG plug, put well on production.

PROPRIETARY DATA

File 5/16/95

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:01	C-11	Chevron U.S.A. Inc
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	P.O. Box 6917 Ventura, CA 93006
Pt. Arguello	OCS-P-0450	00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE X	FRACTURE ___	PLUG BACK X	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X = 710,993M Y = 3,819,242M	OCS-P-0450	SM.	464	California Map NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	HIDALGO	PLATFORM

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)
Scheduled for May 15 1995
SEE ATTACHED PROCEDURE
Set a RZG plug in "R" nipple at sump packer.
Acidize well.
Put well back on production.

verbal approval by Dan Knowlson 5/9/95

MAY 11 1995
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
TERRY RAY	805-658-4378
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
A.. Cornelius	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE
A. Cornelius	5/9/95

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder

Phillip R. Schroeder

TITLE District Supervisor

DATE 5/9/95

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

May 8, 1995

WELL C-11
OCS-P-0450
HIDALGO

PROPOSAL:
Run in with a 2.75 RZG plug and set it in the " R" nipple at 11,645 MD. Produce and test the well for 24 hours. Rig up Dowell services to acidize well. Pump 500 gallons 21% Ammonium Chloride to set on sump packer and plug. Pump 500 gallons 3% Ammonium Chloride preflush. Pumped 1,000 gallons of 15% HCL, 2,000 gallons 13%HCL & 1.5% HF, 1,000 gallons of 15% HCL and then 1,500 gallons of 3% Ammonium Chloride for postflush. If you have any questions about this procedure, contact Terry Ray at 658-4378

SLICK LINE PROCEDURES: WELL C-11

1. Conduct safety meeting with operations to discuss safety hazards and proper procedures to be followed.
2. Rig up 2.75 RZG plug, pressure test lubricator to 2,000 psi
3. Run in hole with 2.75 RZG plug to (11,645 MD) 11,583 WL and set in the "R" nipple.
4. Rig down slick line and secure the area.
5. Bring well back on production with gas lift and test for 24 hours.

ACID JOB: WELL C-11

1. Conduct safety meeting with operations to discuss safety hazards and proper procedures to be followed.
2. Rig up Dowell services and pressure test line to 3,000 psi.
3. Pump 62 bbls of sea water in casing. This is assuming that operations has put 380 bbls in the day before.
4. Start pumping 10 bbls (420 gallons) of sea water down tubing.
5. Pump 12 bbls (500 gallons) 21% Ammonium Chloride at 2 BPM.
6. Pump 12 bbls (500 gallons) 3% Ammonium Chloride pre flush 2 BPM.
7. Pump 24 bbls (1,000 gallons) 15% HCL 2 BPM.
8. Pump 48 bbls (2,000 gallons) 13% HCL/1.5% HF at 2 BPM.

9. Pump 24 bbls (1,000 gallons) 15% HCL 2 BPM

10. When a total of 138 bbls have been pumped stop pumping. This will allow the 21% Ammonium Chloride to settle on the packer and the "R" nipple. Resume pumping after 20 mins.

11. Pump 36 bbls (1,500 gallons) Ammonium Chloride post flush at 2 BPM.

12. Pump 150 bbls of sea water for flush.

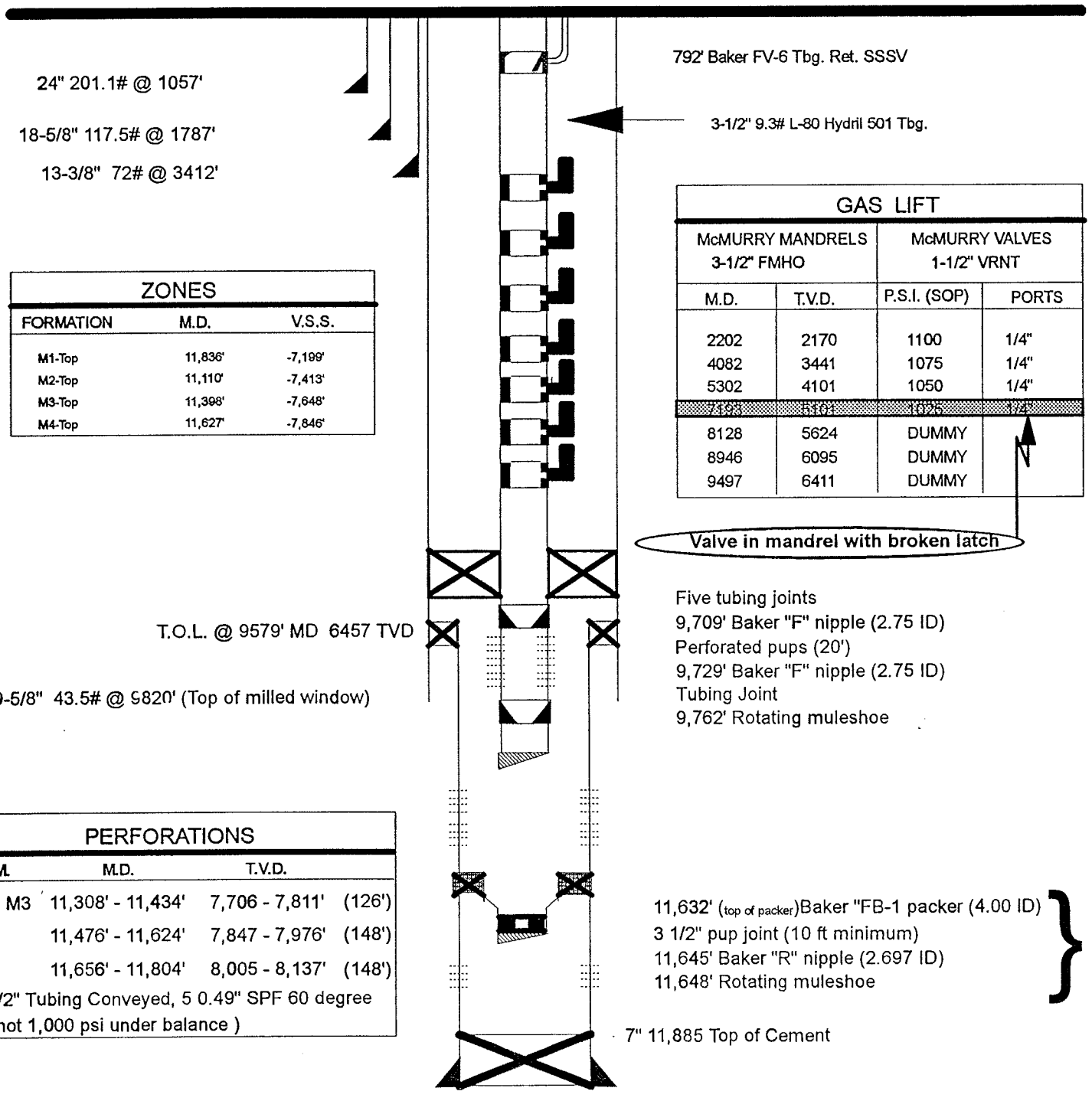
13. Closed well in, pump 12 bbls each of deluded caustic into tank V71 & V72.

14. Flush lines with 2 bbls of sea water. Rig down Dowell and secure the area.

15. Bring well back on production.

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-11 (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

CURRENT



ZONES

FORMATION	M.D.	V.S.S.
M1-Top	11,836'	-7,199'
M2-Top	11,110'	-7,413'
M3-Top	11,398'	-7,648'
M4-Top	11,627'	-7,846'

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
2202	2170	1100	1/4"
4082	3441	1075	1/4"
5302	4101	1050	1/4"
7193	5101	1025	1/4"
8128	5624	DUMMY	
8946	6095	DUMMY	
9497	6411	DUMMY	

Valve in mandrel with broken latch

PERFORATIONS

FORM.	M.D.	T.V.D.	
M2 / M3	11,308' - 11,434'	7,706 - 7,811'	(126')
M3	11,476' - 11,624'	7,847 - 7,976'	(148')
M4	11,656' - 11,804'	8,005 - 8,137'	(148')

4 1/2" Tubing Conveyed, 5 0.49" SPF 60 degree
(Shot 1,000 psi under balance)

DIRECTIONAL DATA

VERTICAL TO 1,350'
MAX ANGLE 61° @ 6,600' AND
25° @ 11,885' TD

PBTD 11,885'

TD 11,991' MD 8,234' TVD

DATE 5-2-95
BY TAR

PROPRIETARY DATA

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION ___	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:01	C-11	Chevron U.S.A. Inc P.O. Box 6917 Ventura, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE X	FRACTURE ___	PLUG BACK X	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X = 710,993M Y = 3,819,242M	OCS-P-0450	SM.	464	California Map NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	HIDALGO	PLATFORM

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED PROCEDURE
Replace pack off with new one.
Set a RZG plug in "R" nipple at sump packer.
Acidize well.

Verbal approval by Dan Knowlson 9:55AM 4-24-95

26. CONTACT NAME	27. TELEPHONE NUMBER
TERRY RAY	805-658-4378
28. AUTHORIZING OFFICIAL (Type Name) A.. Cornelius	29. TITLE Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE C. Cornelius	31. DATE 4/21/95

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder
Phillip R. Schroeder

TITLE District Supervisor

DATE 4/24/95

MINERALS MANAGEMENT SERVICE
MAY 15 1995
RECEIVED
PACIFIC DISTRICT

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

April 21, 1995

WELL C-11
OCS-P-0450
HIDALGO

PROPOSAL:
Run a hole finder tool above the tubing pack off and pressure test tubing. Pull pack off tool and then go down to the sump packer and pull the standing valve from the "R" nipple. Run in with a 2.75 RZG plug and set it in the "R" nipple at 11,645 MD. Insert tubing pack off at 8,128 MD. Produce and test the well for 24 hours. Rig up BJ services to acidize well. Pump 500 gallons 21% Ammonium Chloride to set on sump packer and plug. Pump 500 gallons 3% KCL preflush. Pumped 6,000 gallons of 15% HCL and then 2,000 gallons of 3% KCL for postflush. If you have any questions about this procedure, contact Terry Ray at CTN# 4378

SLICK LINE PROCEDURES: WELL C-11

Conduct safety meeting with operations to discuss safety hazards and proper procedures to be followed.

1. Rig up hole finder tool, pressure test lubricator to 2,000 psi.
2. Run in hole to (8,000 MD) 7,938 WL and set hole finder tool.
3. Pressure test tubing to 500 psi and observe for 30 minutes.

   NOTE: if pressure holds go to step 4, if pressure does not hold replace valves and retests.
4. Rig up pack off pulling tool, run in hole and pull pack off tool.
5. Rig up plug retrievable tool and run in hole to "R" nipple (11,645 MD) 11,583 WL and pull standing valve.
6. Rig up 2.75 RZG plug and run in the hole to (11,645 MD) 11,583 WL and set in the "R" nipple.
7. Rig up tubing pack off tool and run in hole to 8,066 WL (8,128 MD) and set tool.
8. Rig down slick line and secure the area.

COMMUNICATION TEST: WELL C-11

1. Pressure casing to 1,200 psi, bleed down to 1,000 psi and watch for communication.
2. Witness for 30 minutes that there is no communication from packer or tubing.
3. Bring well back on production with gas lift and test for 24 hours.

ACID JOB: WELL C-11

Conduct safety meeting with operations to discuss safety hazards and proper procedures to be followed.

1. Rig up BJ services and pressure test line to 5,000 psi.
2. Pump 331 bbls of sea water in casing.
3. Start pumping 10 bbls (420 gallons) of sea water down tubing.
4. Pump 12 bbls (500 gallons) 21% Ammonium Chloride at 2 BPM.
5. Pump 12 bbls (500 gallons) 3% KCL pre flush 2 BPM.
6. Pump 143 bbls (6,000 gallons) 15% HCL 2 BPM.
7. When a total of 138 bbls have been pumped stop pumping. This will allow the 21% Ammonium Chloride to settle on the packer and the "R" nipple. Resume pumping after 20 mins.
8. Pump 48 bbls (2,000 gallons) 3% KCL post flush at 2 BPM.
9. Pump 150 bbls of sea water for flush.
10. Closed well in, pump deluded caustic into tank V71 & V72.
11. Flush lines with 2 bbls of sea water. Rig down BJ and secure the area.
12. Bring well back on production.

D.F. ELEVATION _____ FIELD _____

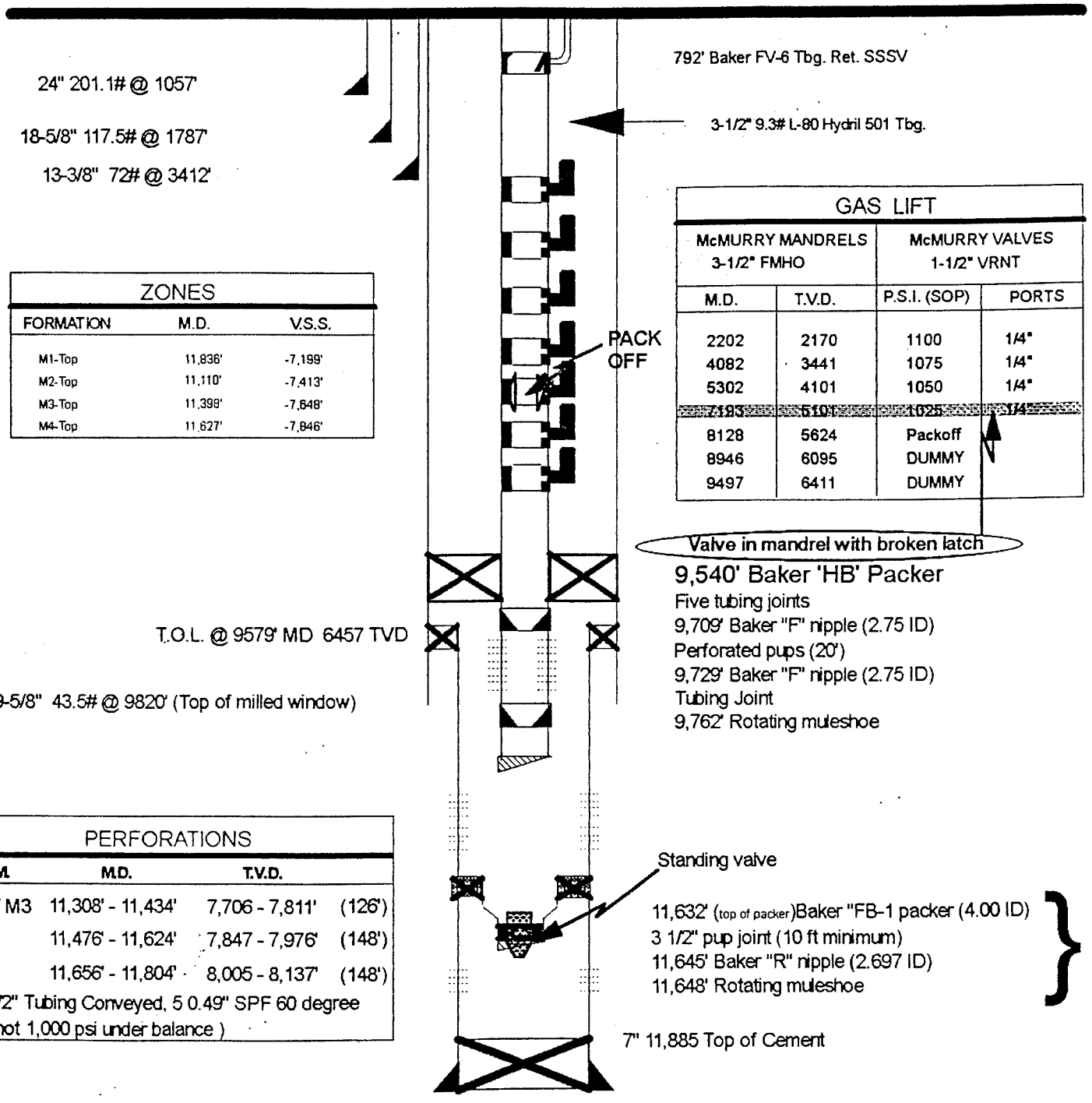
D.F. TO TBG. HEAD _____ LEASE _____

WATER DEPTH _____ WELL _____

TREE FMC COMPLETION DATE MAY 14, 1994

5000 PSI W.P. WORKOVER _____

CURRENT



ZONES

FORMATION	M.D.	V.S.S.
M1-Top	11,836'	-7,199'
M2-Top	11,110'	-7,413'
M3-Top	11,398'	-7,648'
M4-Top	11,627'	-7,846'

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
2202	2170	1100	1/4"
4082	3441	1075	1/4"
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8128	5624	Packoff	
8946	6095	DUMMY	
9497	6411	DUMMY	

PERFORATIONS

FORM.	M.D.	T.V.D.	
M2 / M3	11,308' - 11,434'	7,706 - 7,811'	(126')
M3	11,476' - 11,624'	7,847 - 7,976'	(148')
M4	11,656' - 11,804'	8,005 - 8,137'	(148')

4 1/2" Tubing Conveyed, 5 0.49" SPF 60 degree
(Shot 1,000 psi under balance)

DIRECTIONAL DATA

VERTICAL TO 1,350'

MAX ANGLE 61° @ 6,600' AND
25° @ 11,885' TD

PBTD 11,885'

TD 11,991' MD 8,234' TVD

DATE 12-12-94

BY TAR

PROPRIETARY DATA

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
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8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

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REQUEST APPROVAL ___	ACIDIZE X	FRACTURE ___	PLUG BACK X	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	_____	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	_____	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	_____	

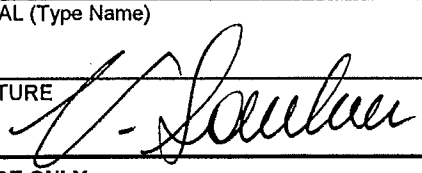
WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
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NAD 27 X NAD 83 ___	00430'	00133'	HIDALGO	PLATFORM

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED PROCEDURE
Pulled packoff, put dummy valve in mandrel.
Tested for communication with casing. Test showed no communication.
Set a RZG plug in "R" nipple at sump packer.
Acidize well.
Pulled RZG plug in "R" nipple at sump packer.

26. CONTACT NAME	27. TELEPHONE NUMBER
TERRY RAY	805-658-4378
28. AUTHORIZING OFFICIAL (Type Name) A.. Cornelius	29. TITLE Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE 	31. DATE 5/3/95

THIS SPACE FOR MMS USE ONLY

APPROVED BY  for Phillip R. Schroeder

TITLE District Supervisor

DATE 5/11/95

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MAY 10 1995
RECEIVED

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not

124-OUT-HID-P
Orig:Vta Well File
Originator T. RAY
V.Sankur
MMS Santa Maria (3+1 P.I.)
Phillips Petrol.(2)
Pt. Arguello File, T. Judkins

C-11 STIMULATION

SERVICE COMPANY: BJ
CHEVRON: Engineer Technician - Terry Ray
PLATFORM HIDALGO
DATE: 4-29-95

SUMMARY

TYPE OF FLUID PUMPED	BARRELS PUMPED	PSI Pressure	BARRELS PER MINUTE
SEA WATER	10 bbls	1,125 psi	2 bpm
AMMONIUM CHLORIDE 21 %	12 bbls	1,125 psi	2 bpm
KCL 3 %	12 bbls	1,125 psi	2 bpm
15% HCL	104 bbls	1,480 psi	2 bpm

Shut down for twenty minutes to let 21% ammonium chloride settle on sump packer.

15% HCL	40 bbls	1,480 psi	2 bpm
KCL 3 %	48 bbls	1,480 psi	2 bpm
SEA WATER	85 bbls	1,480 psi	2 bpm

Shut down for over night to let acid work at the perfs.

TYPE OF FLUID PUMPED	BARRELS PUMPED	PSI Pressure	BARRELS PER MINUTE
SEA WATER	30 bbls	1,250 psi	2 bpm
SEA WATER	30 bbls	1,750 psi	4 bpm
SEA WATER	5 bbls	1,480 psi	2 bpm

4-29-95 Saturday

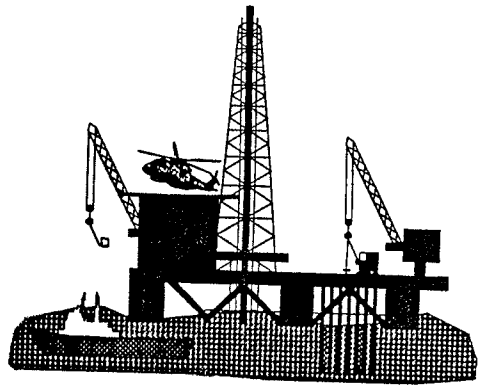
10:45am Held a 20 minute safety meeting in the control room, see attached sheet.
12:33pm Witness emergency shut down on both BJ diesel engines.
12:35pm Pressure tested lines to valve above swab to 2,900 psi and held pressure for 10 minutes.
12:45pm Pressure tested lines to swab to 3,000 psi and held pressure for 10 minutes.
12:50pm Opened valve and started pumping sea water down casing to fill up back side.
2:50pm Opened master valve, pumping 10 bbls of sea water at 2 bpm.
2:58pm Pumping 12 bbls of Ammonium Chloride 21% at 2 bpm.
3:06pm Pumping 12 bbls of KCL 3% at 2 bpm.
3:13pm Pumping 104 bbls of HCL 15% at 2 bpm.
4:08pm Stopped pumping letting Ammonium Chloride 21% settle to the sump packer and plug
4:28pm Pumping 40 bbls of HCL 15% at 2 bpm.
4:50pm Pumping 48 bbls of KCL 3% at 2 bpm.
5:15pm Pumping 85 bbls of sea water at 2 bpm.
6:02pm Stopped pumping, going to let well soak 12 hours.
7:05pm Pumped 12 bbls of caustic into V71 and 12 bbls into V72. Secured for the night.

4-30-95 Sunday

6:36am Pumping 30 bbls of sea water at 2 bpm.
6:51am Pumping 30 bbls of sea water at 4 bpm.
6:56am Pumping 5 bbls of sea water at 2 bpm.
7:00am Stopped pumping, well did not break down, pressure is at 1,000 psi at surface.

5-2-95 Tuesday, pulled RZG plug, put well on production.

DAILY SIMULTANEOUS OPERATIONS MEETING AND JOB LOG



PLATFORM Hidalgo

WELL C-11

DATE 4-29-95

Chevron Engineering Rep. T. Ray Service Co. BJ (Tom Sullivan)

Perforating ☐ Production Logging ☐ Pressure Testing ☐ Acid Thru Tubing ☒ Acid Coil Tubing ☐

_____ ☐

Safety Meeting Time 10:45 AM Location Control Rm Duration 20 min.

Mandatory Subjects To Cover: *put an x in box indicating which areas were covered*

H_2S ☒ Fire ☒ Briefing Area ☒ First Aid ☒ Spills ☒ Lubricator Testing ☐ SSV & SSSV ☒ ESD ☒

Procedures of work: See attached Sheet. Went over area above & talk about Communication & SAFety Showers & Locations.

Lubricator testing: BOP pressure N/A Time ____ ~~Lubricator~~ LINE pressure 1245 psi 12:55 Time 3,000. Before Swab 3,000 Swab.

Emergency Shut down on diesel engines. Time witness 12:33pm How many engines 2.

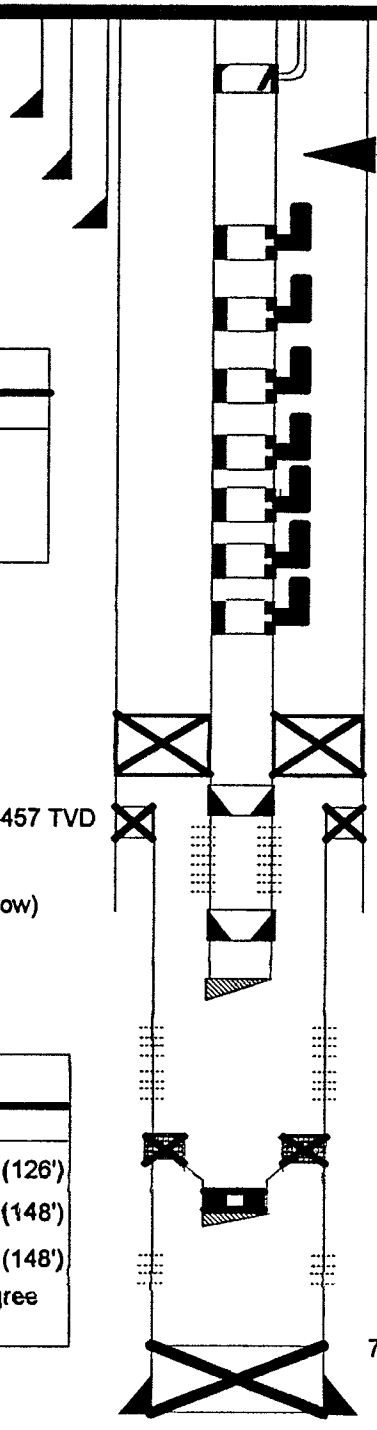
After Job Checklist

Tripping Hazards secured ☑ Area Clean ☑ Back load Equipment clean ☑ Manifest fill out ☑

Back load Equipment secure for lift ☑ Misc. _____ ☐

D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-11 (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1787'

13-3/8" 72# @ 3412'

792' Baker FV-6 Tbg. Ret. SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
2202	2170	1100	1/4"
4082	3441	1075	1/4"
5302	4101	1050	1/4"
7148	5101	1025	1/4"
8128	5624	DUMMY	
8946	6095	DUMMY	
9497	6411	DUMMY	

Valve in mandrel with broken latch

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	11,836'	-7,199'
M2-Top	11,110'	-7,413'
M3-Top	11,398'	-7,648'
M4-Top	11,627'	-7,846'

T.O.L. @ 9579' MD 6457 TVD

9-5/8" 43.5# @ 9820' (Top of milled window)

Five tubing joints
9,709' Baker "F" nipple (2.75 ID)
Perforated pups (20')
9,729' Baker "F" nipple (2.75 ID)
Tubing Joint
9,762' Rotating muleshoe

PERFORATIONS

FORM.	M.D.	T.V.D.	
M2 / M3	11,308' - 11,434'	7,706 - 7,811'	(126')
M3	11,476' - 11,624'	7,847 - 7,976'	(148')
M4	11,656' - 11,804'	8,005 - 8,137'	(148')

4 1/2" Tubing Conveyed, 5 0.49" SPF 60 degree
(Shot 1,000 psi under balance)

11,632' (top of packer) Baker "FB-1 packer (4.00 ID)
3 1/2" pup joint (10 ft minimum)
11,645' Baker "R" nipple (2.697 ID)
11,648' Rotating muleshoe

8 Round Threads

7" 11,885 Top of Cement

DIRECTIONAL DATA

VERTICAL TO 1,350'
MAX ANGLE 61° @ 6,600' AND
25° @ 11,885' TD

PBTD 11,885'

TD 11,991' MD 8,234' TVD

DATE 5-2-95
BY TAR

C-11 OCS-P-450
SLICK LINE

DATE: 4-22-95 Saturday

9:00am Golden State Wireline rigging up.
10:40am Shut well in, locked open SSV and SSSV.
11:15am Rigging up tools, stabbing lubricator.
11:30am Pressure tested lubricator to 1,000 psi.
12:00pm Bleeding down casing to 700 psi.
2:40pm Running in hole with tubing hole finder.
4:30pm Setting tool, tool slips are not setting, pumping water down well.
6:20pm Tool seems to be set, going to finish pumping water to pressure up.
8:20pm Tubing pressure 580 psi and holding. Casing pressure is 360 psi.
8:30pm Pulling out of hole. Weight indicator shows that the tools aren't on wire.
9:30pm Wire in lubricator, bleeding down lubricator, secure for the night.

DATE: 4-23-95 Sunday

6:30am Laid down lubricator, Witness no tools on wire.
7:00am Golden State Wireline rigging up 2.5" IB to go down and tag tools.
7:55am Running in hole with impression block.
8:15am Setting down on top of mandrel at 5302 MD, can't get though pulling out of hole.
9:30am Running in hole with wire finder, went down to 8,020' wl.
10:01am Pulling out of hole, could not find any indication of wire.
10:40am Running in hole with latch tool to grab rope socket.
11:15am Could not latch pulling out of hole.
11:50am Running in hole with smaller 2.25 IB, Tapped on tool and POOH.
2:10pm Running in hole with latch tool.
2:50pm Latch on after second try. Trying to shift tool to equalize tubing.
3:30pm Sheared off of tool, coming out of hole.
4:00pm Put a steel shear pin, running in hole.
5:15pm Latched on after numerous attempts. Trying to shift tool to equalize.
6:15pm Gas lifting, going to unload 30 bbls to take weight off tool.
There is about 70 bbls of fluid on tool. The tool at 5,624 TVD which is 2,530 psi plus 200 psi surface pressure. There is 2730 psi on top of tool. Pressure below is about 1700 psi (8,000 tvd perfs - 5624 tvd pack off = 2376 x .45= 1069 psi. 2800 form press. minus 1069 = 1731 psi.

9:00pm Been able to move up the hole 30 ft at a time about every 20 minutes of pulls.
9:30pm Breaker on power unit keeps tripping.
10:15pm Secured for the night.

DATE: 4-24-95 Monday

6:00am Well shows to be equalized, starting to try to pull out of the hole.
7:00am Moved about 100 ft to 7590 wl. Breaker still tripping having electrician look at it.
12:48pm Sheared off with running tool, pooh.
1:50pm Retrieved running tool that had parted wire in rope socket.
1:55pm Running in hole with wire finder, this will ball up all the wire in one spot.

C-11 Wire line continued.

2:30pm Out of hole with wire finder, rigging up wire grabber, running in hole.
3:45pm Out of hole with wire grabber. Had bits of wire about 6" long.
4:40pm Running in hole with wire grabber.
5:30pm Out of the hole with wire grabber, retrieved 3' of wire.
5:40pm Running in hole with wire grabber.
7:00pm Out of the hole with wire grabber, no wire on tool.
7:30pm Secured area for the night.

DATE: 4-25-95 Tuesday

6:00am Pressure lubricator to 1,500 psi. Had safety meeting at well site.
6:10am Running in hole with impression block.
7:10am No evidence of wire, running in hole to latch on DD testing tool.
7:50am Latch on to DD testing tool, attempting to pull out of hole.
8:45am Tool moving up hole about 20' every 20 minutes.
10:30am Tool started moving up hole, weight shows that we have the DD test tool.
11:00am Tool stopped at SSSV (792' MD), trying to pull though.
4:15pm Freed, pulling tools into lubricator.
5:40pm Running scraper tool, this will grab any wire along side of the tubing.
6:50pm Running in hole wire finder, this will ball up all the wire in one spot.
7:45pm Running in hole with wire grabber, pulled out about 2' of wire.
8:55pm Running in hole with wire grabber, pulled out about 4' of wire.
10:00pm Rigged up impression block, going to run first thing in the morning.

DATE: 4-26-95 Wednesday

6:00am Pressure lubricator to 1,500 psi. Had safety meeting at well site.
6:10am Running in hole with impression block.
7:00am Running in hole with wire grabber, retrieved 4" piece of wire.
8:10am Running in hole with wire grabber, retrieved 3" piece of wire.
9:15am Running in hole with wire grabber, did not pick up any wire.
10:15am Running in hole with pack off retrievable tool, restriction at 4,000' POOH.
11:10am Running in hole with wire grabber, retrieved 5" piece of wire.
1:05pm Running in hole with impression block, shows wire laying on pack off.
2:30pm Running in hole with wire grabber, did not pick up any wire.
3:40pm Running in hole with impression block, shows wire laying on pack off.
5:30pm Running in hole with pack off retrievable tool, retrieved G anchor top.
6:30pm Running in hole with pack off retrievable tool, retrieved 10' seal assy.
9:00pm Running in hole with pack off retrievable tool, didn't retrieve 5' section.
10:40pm Running in hole with pack off retrievable tool, retrieved 5' section.
11:00pm Stuck in SSSV coming out of the hole, worked through and pulled out of hole.
11:40pm Running in hole with pack off retrievable tool to retrieve bottom element.
11:50pm Tool stopped at SSSV, apparently the bottom element came up with the 5' assy. and unlatched at the SSSV. We latched back on and POOH.
12:05am Running in hole with pulling tool to grab standing valve .
12:40am Could not latch on, pulling out of hole to open centralizer more.
1:40am Running in hole with pulling tool to grab standing valve.
2:45am Could not latch on, pulling out of hole. Running in with IB.
3:30am IB shows some type of fill on standing valve. Secured for the night.

C-11 Wire line continued.

DATE: 4-27-95 Thursday

6:00am Pressure lubricator to 1,500 psi. Had safety meeting at well site.
6:20am Running in hole with a 2 1/8" bailer.
8:30am Bailer came out with chunks of rubber, assume they are from the pack off.
9:10am Open well to production to try and lift the debris up out of the well.
9:30am Shut well in decided it would be quicker to run bailer.
9:35am Running in hole with a 2 1/8" bailer.
11:00am Did not pick up any debris in bailer, going to run pulling tool.
11:10am Running in hole to pull standing valve.
12:15pm Did not get standing valve, running back in hole with pulling tool.
3:45pm Retrieved standing valve, running in hole with plug.
4:20pm Plug set in "F" nipple at 9,709 MD. Pulling out of hole to rig up pulling tool.
8:00pm Retrieved Plug, redressing plug, running in hole with gage ring.
9:00pm Gage ring went through both "F" nipples, pulling out of hole.
9:20pm Running in hole with plug.
10:40pm Set plug in "R" nipple at 11,648 MD, pulling out of hole.
11:40pm Running in hole with dummy valve, going to try to put in mandrel at 8,128 MD.
12:30am Set dummy in pocket successfully, pulling out hole.
1:00am Running in hole to set plug in "F" nipple at 9,709 to pressure test tubing.
2:10am Plug set, pumped 12 bbls of diesel pressuring up tubing to 1,000 psi.
2:30am Pressure held steady, shifted equalizer on plug to bleed down well.
4:15am Well equalized, pulling out of hole and rigging down.

END OF REPORT

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:01	C-11	Chevron U.S.A. Inc P.O. Box 6917 Ventura, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___		
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X = 710,993M Y = 3,819,242M	OCS-P-0450	SM.	464	California Map NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	HIDALGO	PLATFORM

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED PROCEDURE

REPAIR OF SSSV HYDRAULIC OIL LEAK BETWEEN THE TUBING HANGER AND THE BONNET

Verbal by M.M. 11/14

MINERALS MANAGEMENT SERVICE PACIFIC OCS REGION RECEIVED DEC 06 1994 FIELD OPERATIONS CAMARILLO

MINERALS MANAGEMENT SERVICE NOV 28 1994 RECEIVED SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
RUSSELL HOSHMAN	805-658-4513
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
A.. Cornelius	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	**31. DATE**
A. Cornelius	11/18/94

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder
Phillip R. Schroeder

TITLE District Supervisor

DATE 12/05/94

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, (and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of managemer Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will

124-OUT-HID-P
Orig:Vta Well File
Originator R. HOSHMAN
V.Sankur
MMS Santa Maria (3+1 P.I.)
Phillips Petrol.(2)
Pt. Arguello File, T. Judkins

OCS-P-0450 #C-11
HIDALGO PLATFORM
POINT ARGUELLO FIELD

Repaired SSSV hydraulic oil leak between the tubing hanger and the bonnet. Work completed 11/15/94.

1. Conducted prejob safety meeting.
2. Filled the 9 5/8" casing with 332 bbls of sea water.
3. Bled off pressure from both casing and production tubing to 0 psi.
4. FMC Service personnel installed a back pressure valve in the tubing hanger.
5. Installed new packing on all of the tubing hanger hold down pins.
6. Disconnected flow lines and C-section.
7. Opened all valves on the tree to confirm no flow or leaks
8. Unbolted the bonnet and lift the tree with the crane.
9. Removed the ***SSSV seal sleeve*** and ***tubing seal sleeve*** from the tubing hanger.
10. Installed a new ***SSSV seal sleeve*** and ***tubing seal sleeve*** with new O-rings in the tubing hanger. Installed a new API ring.
11. Filled the top of the tubing hanger with hydraulic oil.
12. Landed the tree and buttoned up the bonnet.
13. FMC service representative conducted a pressure test on the SSSV seal sleeve, tubing seal sleeve and API ring. The space between the bonnet and the tubing hanger was pressure tested to 4800 psi for 15 minutes.
14. Rigged up FMC's lubricator and remove the back pressure valve.
15. The SSSV control line was pressure tested to 4100 psi and isolated to test for bleed off for 10 minutes.

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

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OMB No. 1010-0045
Expiration Date: August 31, 1996

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	56-045-20067:01	C-11	Chevron U.S.A. Inc P.O. Box 6917 Ventura, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	_____	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	_____	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	_____	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X = 710,993M Y = 3,819,242M	OCS-P-0450	SM.	464	California Map NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	HIDALGO	PLATFORM

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED PROCEDURE

REPAIR OF SSSV HYDRAULIC OIL LEAK BETWEEN THE TUBING HANGER AND THE BONNET:

MINERALS MANAGEMENT SERVICE
NOV 15 1994
RECEIVED
SANTA MARIA DISTRICT

MINERALS MANAGEMENT SERVICE PACIFIC OCS REGION
DEC 08 1994
FIELD OPERATIONS

26. CONTACT NAME	27. TELEPHONE NUMBER
RUSSELLL HOSHMAN	805-658-4513
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
A.. Cornelius	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	**31. DATE**
M. A. Hutton for	14 Nov 1994

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder

Phillip R. Schroeder

TITLE District Supervisor

DATE 11/14/94

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which wi

124-OUT-HID-P
Orig:Vta Well File
Originator R. HOSHMAN
V.Sankur
MMS Santa Maria (3+1 P.I.)
Phillips Petrol.(2)
Pt. Arguello File, T. Judkins

OCS-P-0450 #C-11
HIDALGO PLATFORM
POINT ARGUELLO FIELD
Repair of SSSV hydraulic oil leak between the tubing hanger and the bonnet:

C-4 bottom hole pressure: 2989 psi at 7400 VSS (0.404 psi/ft.)
Shut in tubing pressure: 1200 psi due to gaslift gas.

Note: SSSV closed due to hydraulic leak and can not be opened. The leak has been determined to be between the bonnet and the tubing hanger.

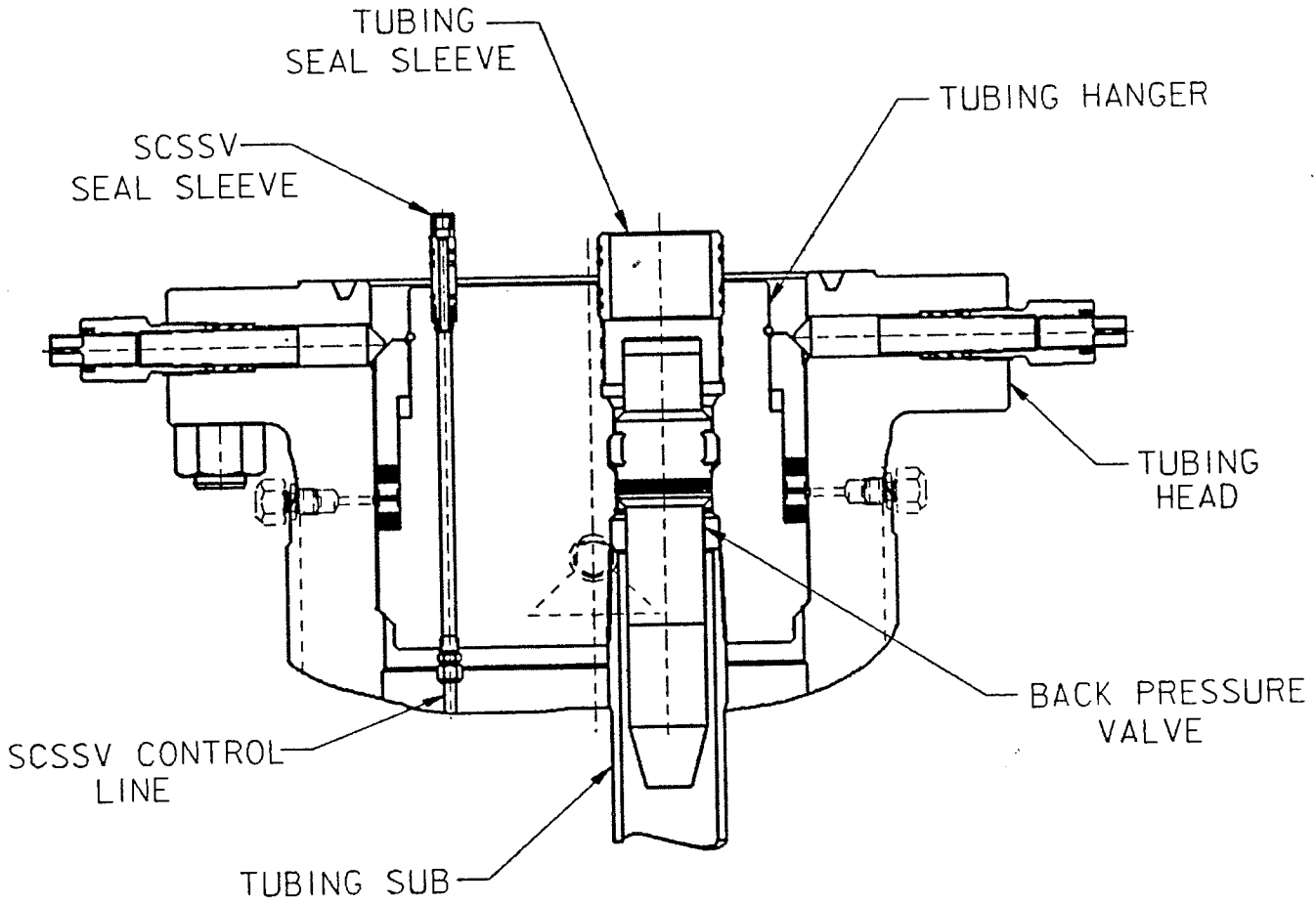
1. Conduct prejob safety meeting each day.
2. Bleed the gas lift gas from the 9 5/8" casing into the production system.
3. Fill the 9 5/8" casing with sea water. Estimated fill up volume 332 bbls.
4. Bleed off pressure from both casing and production tubing to 0 psi.
5. Rig up FMC's lubricator on well C-11.
6. FMC Service personnel to install back pressure valve in the tubing hanger.
7. Rig down the lubricator.
8. Disconnect flow lines and C-section.
9. A gauge will be on the casing such that the casing pressure can be monitored.
10. Open all valves on the tree to confirm no flow or leaks
11. Unbolt the bonnet and lift the tree with the crane.
12. Remove the ***SSSV seal sleeve*** and ***tubing seal sleeve*** from the tubing hanger, inspect and install new O-rings.
13. Install the ***SSSV seal sleeve*** and ***tubing seal sleeve*** with the new O-rings in the tubing hanger. Install a new API ring.
14. Fill the top of the tubing hanger with oil.
15. Land the tree and button up the bonnet.

16. FMC service representative to conduct test on the SSSV seal sleeve, tubing seal sleeve and API ring. The space between the bonnet and the tubing hanger will be pressure tested to 5000 psi for 15 minutes.

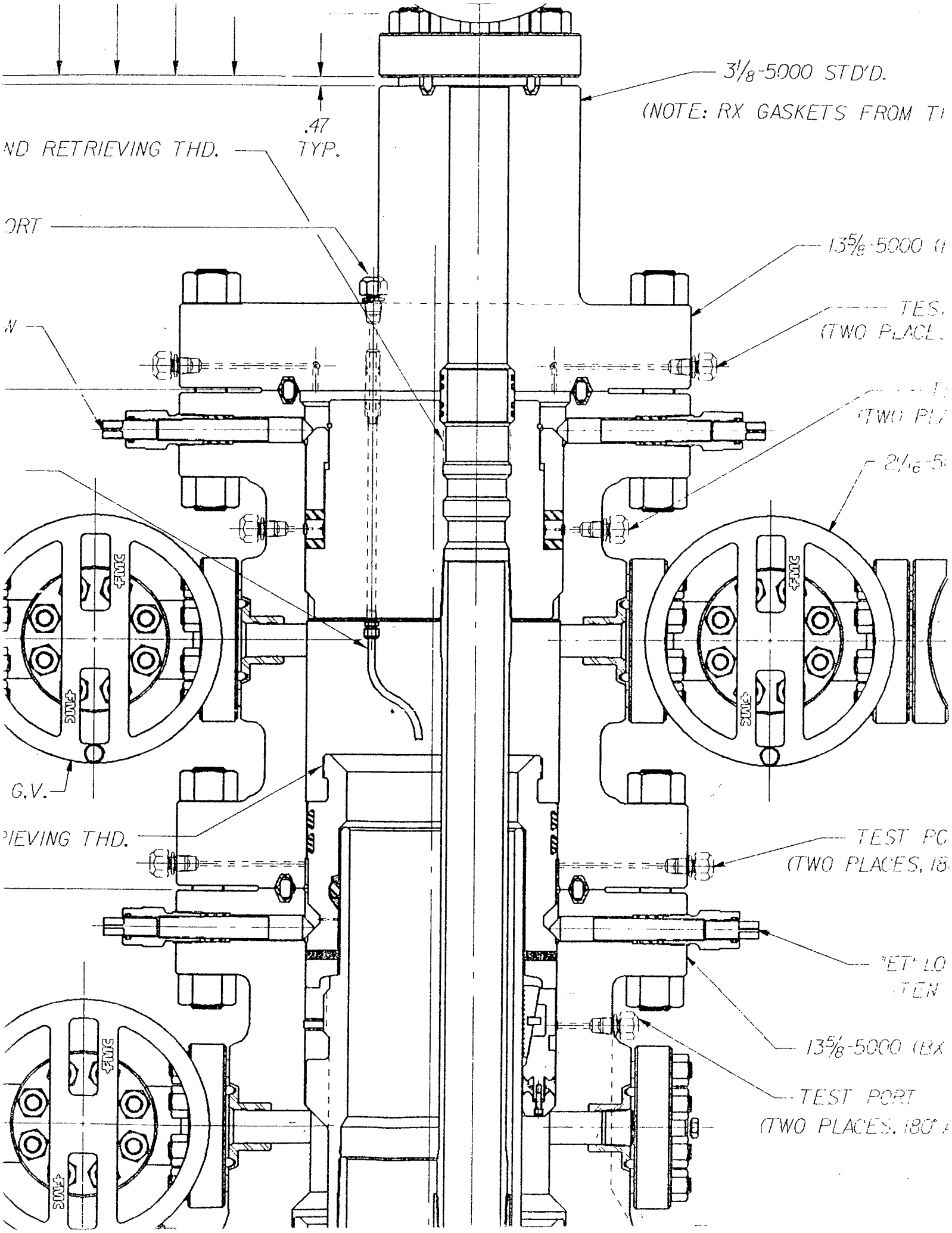
17. Rig up FMC's lubricator, pressure test to 1200 psi and remove the back pressure valve.

18. Replace SSSV supply, re-install flowlines and C-section.

19. After the SSSV control is hooked up to the control panel, pressure the SSSV to 4500 psi. Isolate the control line and test for bleed off for 15 minutes.



INSTALLATION OF THE
TUBING SEAL SLEEVE


3⅛-5000 STD'D.
(NOTE: RX GASKETS FROM TI
.47
TYP.
ND RETRIEVING THD.
ORT
13⅝-5000 (I
TES
(TWO PLACE
(TWO PL
2⅛-5
G.V.
IEVING THD.
TEST PO
(TWO PLACES, 18
"ET" LO
TEN
13⅝-5000 (BX
TEST PORT
(TWO PLACES, 180°

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE

SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information."

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:01	C-11	Chevron U.S.A. Inc P.O. Box 6917 Ventura, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Pt. Arguello	OCS-P-0450	00078

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL ___	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
5110N 678E	OCS-P-0450	SM	464	NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	Hidalgo	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

On June 27, 1994

1. MIRU'd acid tank, pump and equipment. NU'd to well.
2. Pressured test surface lines to 4500 psi.
3. Conducted pre-job safety meeting and verify:
   a. Approved Sundry Notice for acid work existed on site.
   b. Emergency shut-down switch on all diesel powered equipment were operational.
4. Acidized well with 2000 gal of 15% HCl and 10% Acetic Acid.
5. Placed well on production.

MINERALS MANAGEMENT SERVICE
JUL - 6 1994
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Rick Quilter	805-658-4400
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
A. Cornelius	Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE
Doris Patterson for AC	7/1/94

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder TITLE District Supervisor

DATE 7/11/94

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will

124-OUT-HID-P
Orig:Vta Well File
Originator RICK QUILTER
V.Sankur
MMS Santa Maria (3+1 P.I.)
Phillips Petrol.(2)
Pt. Arguello File, V.Kelley
D.E. Patterson

CONFIDENTIAL
MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

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1. ORIGINAL X / CORRECTION ___	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS
	56-045-20067:02	C-11	Chevron U.S.A. Inc
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	P.O. Box 6917 Ventura, CA 93006
Pt. Arguello	OCS-P-0450	00078	

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
OCS-P-0450	SM	464	NI10-06

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/TYPE CODE
REQUEST APPROVAL X	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER ___	POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___	
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___	
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
5110N 678E	OCS-P-0450	SM	464	NI10-06

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	00430'	00133'	Hidalgo	PF

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

1. MIRU acid tank, pump and equipment. NU to well.
2. Pressure test surface lines to 4500 psi.
3. Conduct pre-job safety meeting and verify:
   a. Approved Sundry Notice for perforation work exists on site.
   b. Emergency shut-down switch on all diesel powered equipment are operational.
4. Acidize well with 2000 gal of 15% HCl and 10% Acetic Acid.
5. Place well on production.

VERBAL APPROVAL RECEIVED BY MIKE MITCHELL, MMS ON 6/24/94 9:48 AM RMQ 6/24

MINERALS MANAGEMENT SERVICE
JUN 29 1994
RECEIVED
SANTA MARIA DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Rick Quilter	805-658-4400
28. AUTHORIZING OFFICIAL (Type Name) A. Cornelius Denis Patterson for AC	29. TITLE Ventura Profit Center Manager
30. AUTHORIZING SIGNATURE	31. DATE 6/22/94

THIS SPACE FOR MMS USE ONLY

APPROVED BY Phillip R. Schroeder TITLE District Supervisor

DATE 7/6/94

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gatherin and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Informal Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and Bu Reduction Project (OMB No. 1010-0045), Washington, DC 20503.

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be

124-OUT-HID-P
Orig:Vta Well File
Originator Rick Quilter
V.Sankur
MMS Santa Maria (3+1 P.I.)
Phillips Petrol.(2)
Pt. Arguello File, V.Kelley
D.E. Patterson

MINERALS MANAGEMENT SERV

Submit original plus three copies w one copy marked "Public Informat

OMB No. 1010-0046
Expiration Date: August 31, 1996

WELL SUMMARY REPORT

1. 1ST COMP. X RECOMPLETION __ ABANDONMENT __ CORRECTION __	2. API WELL NUMBER/PRODUCING INTERVAL CODE 56 - 045 - 20067-01	3. WELL NO. C - 11 (C-6 R/D)	11. OPERATOR NAME AND ADDRESS (Submitting Office) Chevron U.S.A. Inc P.O. Box 6917 Ventura, CA 93006
8. FIELD NAME POINT ARGUELLO	9. UNIT NUMBER	10. MMS OPERATOR NUMBER 00078	

WELL AT TOTAL DEPTH

37. WELL LOCATION AT TOTAL DEPTH (Surveyed)	38. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
N 00707 E 06669	OCS-P-0450	SM	464	NI 10-6

WELL AT PRODUCING ZONE

37. WELL LOCATION AT PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
N 00732 E 06380	OCS-P-0450	SM	464	NI 10-6

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
POW	94 / 05 / 14	94 / 05 / 16	94 / 04 / 30 (Orig. hole: 88 / 09 / 06)

44. DATE SIDETRACKED	45. DATE TD REACHED	24. TOTAL DEPTH (Surveyed)
N/A	94 / 05 / 06	MD 11,911' TVD 8234'

PERFORATED INTERVALS(S) THIS COMPLETION

46. TOP (MD)	49. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
11,308'	11,434'	7706'	7811'
11,476'	11,624'	7847'	7976'
11,656'	11,804'	8005'	8137'

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Monterey	M2, M3, M4, M4A

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT (FT^3)
30"	24" *	201#	X-52	1057	Class "G"	1824 cu.ft.
22"	18-5/8" *	117.5#	K-55	1787'	Class "G"	1778 cu. ft.
17"	13-3/8" *	72#	L-80	3413'	Class "G"	2146 cu. ft.
12-1/4"	9-5/8" *	43.5#, 47#	TC-80 & SS-95	9820' **	Class "G"	4216 cu. ft.***
	* C-6			**Top of milled window		*** Cemented t/10,536 in orig. hole, C-6

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64. PACKER SETTING DEPTH (MD)
9-5/8"; 7"	3-1/2"	9.3#	L-80	9763'	9540' (9-5/8")

MINERALS MANAGEMENT SERVICE
JUN 13 1994
RECEIVED
SANTA MARIA DISTRICT

FORM MMS-125 (August 1993) (Replaces Form MMS-330 which will not be used) *CONFIDENTIAL*

Chevron U.S.A. Inc.
646 County Square Drive, Ventura, California
Mail Address: P.O. Box 6917, Ventura, CA 93006

Completion Report
New Well PRO-318

Field: Point Arguello

Property: OCS-P-0450
Federal waters

Well No. C - 11 (C-6 Redrill)

Location Slot 3, Platform Hidalgo X = 710,993.36 m

Y = 3,819,242.40 m UTM Zone 10

Elevation 133' Derrick Floor D.F. is 133' MLLW.

Date June 10, 1994

by Chevron U.S.A. Production Co.

(for A. Cornelius, Ventura Profit Center Manager)

Drilled by Dual # 45

Date Commenced Operations 4 / 17 / 94
Date of C-11 kick-off 4 / 30 / 94

Date Completed Abandonment of C-6 4 / 30 / 94
Date Completed Operations 5 / 14 / 94

Date of Initial Production 5 / 16 / 94

Production: Daily Average, 1st 1 Days
Oil 916 Bbls.
Water 258 Bbls.
Gas 201 net Mcf.

Gravity 32.4 ° API
T.P. 150 PSI
C.P. 640 PSI
Bean _____ /64"

Pump _____
Flowing _____
Gas Lift X

Summary **T.D: 11,911' MD (8234' TVD) PBTD: 11,885' MD (8234' TVD)**

Casing:	24"	201.1# X-52 conductor cemented at 1057'. (C-6)
	18-5/8"	117.5# K-55 casing cemented at 1787'. (C-6)
	13-3/8"	72# L-80 casing cemented at 3412'. (C-6)
	9-5/8"	43.5# TC-80 & 47 # SS-95 casing cemented at **9820' (top of milled window).**
Liner:	7"	**26# L-80 liner cemented at 11,911', top of liner at 9579'.**
Tubing:	3-1/2"	**9.3# L-80 Hydril 501 tubing set at 9763'. SSSV at 792'.**
Perforations:	7" liner:	**11,308' - 11,434, 11,476' - 11,624' and 11,656' - 11,804'; .49" 5 SPF.**
Junk:	**None.**	
Plugs:	**Cement: 11,885' - 11,911'.**	

SWS	CORES	TESTS	DIRECTIONAL
☐ YES ■ NO	☐ YES ■ NO	☐ YES ■ NO	■ YES ☐ NO

DIRECTIONAL DATA

Directional Survey:	Well considered vertical to 563'		
	Eastman-Christensen Seeker Gyro	563' - 3324'	9/12/88 (C-6)
	Eastman-Christensen Seeker Gyro	3324' - 9820'*	10/18/88 (C-6 *gyro t/10191')
	Baker-Hughes Inteq MWD	10,004' - 11,864'	4/30 - 5/6/94
	Projected to T.D. @ 11,911'		

Maximum Hole Angle: 61° at 6600'
Method of calculation: Vector Averaging (Balanced Tangential)

Declination:		14.39°
UTM Zone 10	:	1.3°
Total Correction:		13.09°

LOGS

Company	Type Log	Date	Interval
Schlumberger	SHDT	5/7/94	9500' - 11,910'
Schlumberger	GR-Caliper	5/7/94	9500' - 11,910'
Schlumberger	DLL-GR	5/7/94	9816' - 11,896'
Schlumberger	CNL-LDT	5/7/94	9500' - 11,905'
Schlumberger	Array Sonic Var. Density	5/7/94	9816' - 11,862'
Schlumberger	Array Sonic Slowness Time Coh.	5/7/94	9816' - 11,862'
Schlumberger	Nat'l GR Spectroscopy	5/7/94	9500' - 11,875'
Schlumberger	CBT	5/11/94	9590' - 11,823'
Schlumberger	CET	5/11/94	9590' - 11,844'
Epoch	Mudlog	4/30 - 5/6/94	9820' - 11,911'

DRILLING FLUID HISTORY

Interval	Type of Fluid	Weight (ppg)	Date
Section milling, K/O	Freshwater/Gel	8.6 - 8.7	4/25 - 5/1/94
9900' - 11,911'	Seawater/X-C Polymer	8.7 - 9.1	5/1 - 5/9/94
Completion	Filtered KCl/Seawater	8.7	5/9 - 5/14/94

ATTACHMENTS

Report	Date	Pages
Operations Summary Report	4/17 - 5/14/94	4
Final Composite Directional Survey	5/27/94	6
Current Well Schematic	5/18/94	1

OPERATIONS SUMMARY REPORT

Field:**Point Arguello** Well: **OCS-P-0450 C-11 (C-6 Redrill)** Rig: **Dual 45**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Development**

OCS-P-0450 C-6 Abandonment API # 56-045-20067

4-17-94 **DAY 1 SUMMARY: SKID RIG; N/U BOPE.** **MW: 8.5**
Skid rig from Well B-2 to C-6 and R/U. Install & test lubricator t/1500 psi. Pump 30 bbls seawater down tbg. Shot holes in 3-1/2" tbg at 9920'. Kill well. Install BPV in tbg hanger. N/D prod tree. N/U Class IV 5M BOPE.
** ***Mr. Bob Hime with MMS on board; operations approved by Dan Knowlson.***

04-18-94 **DAY 2 SUMMARY: ATTEMPT TEST BOPE.** **MW: 8.5**
RIH w/screw-in sub. Attempt to test BOPE-no good, donut leaks. Unable to pull packer free w/270M#.
** ***Mr. Dale Roberts with MMS approved testing BOPE after POOH.***
** ***Mr. Bob Hime with MMS on board.***

04-19-94 **DAY 3 SUMMARY: PULL TUBING.** **MW: 8.5**
RIH w/Dia-Log 3-1/2" tbg cutter, jet cut tbg at 9987'. POOH w/3-1/2" tbg.
** ***Mr. Bob Hime with MMS inspected and approved operations.***

04-20-94 **DAY 4 SUMMARY: TEST BOPE.** **MW: 8.5**
Test BOPE using 4-1/2" DP tools 300 psi/3500 psi. RIH to TOF at 9969'. Dress top of tbg stub, work overshot over fish. Set jars off 3 time and free pkr. POOH w/fish to DC's. Circ well to prod vessel V-9 to clean out trapped oil from below pkr.
** ***Mr. Bob Hime and Roy Bobbitt with MMS onboard.***

04-21-94 **DAY 5 SUMMARY: RECOVER FISH, CEMENT LINER.** **MW: 8.5**
L/D fishing tools, pkr fish & tail ass'y. Test pipe rams, annular & 3-1/2" surface equip for 3-1/2" DP 300 psi/3500 psi. W/tbg at 12,545', pump 158 cu. ft. of 15.8 ppg cement, pull to 11,888' and pump 158 cu. ft. of 15.8 ppg cmt. Pull t/11,264', pump 107 cu. ft. cmt to plug 7" liner t/10,760'. Parted 3-1/2" tbg stinger leaving 707' fish at 9493'.
** ***Mr. Bob Hime and Roy Bobbitt with MMS onboard.***

04-22-94 **DAY 6 SUMMARY: FISHING.** **MW: 8.5**
RIH w/7-5/8" overshot w/3-7/8" grapple on 3-1/2" tbg, tag fish. Test csg and cmt plug t/2000 psi for 15 min-OK. Work mill & grapple over TOF at 9494'.
** ***Mr. Bob Hime with MMS onboard.***

04-23-94 **DAY 7 SUMMARY: FISHING.**
Run freepoint tools, found tbg fish stuck at 9987'. RIH w/2-3/4" gauge ring, stopped at 9350'. RIH w/2-5/8" chem cutter, stopped at 9350'. RIH w/string shot, pull 100K over string wt and attempt to jump collar-NG. Pipe parted leaving fish in hole.

04-24-94 **DAY 8 SUMMARY: FISHING.** **MW: 8.5**
RIH w/5-3/4" OS w/3-7/8" grapple, bumper sub & jars on 4-1/2" DP; workover fish at 7492'. Recovered 1289' of 3-1/2" tbg fish.
** ***Mr. Roy Bobbitt with MMS onboard.***

OPERATIONS SUMMARY REPORT

Field:**Point Arguello** Well: **OCS-P-0450 C-11 (C-6 Redrill)** Rig: **Dual 45**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Development**

OCS-P-0450 C-6 Abandonment API # 56-045-20067

04-25-94 **DAY 9 SUMMARY: RECOVER PARTIAL FISH. MILL WINDOW** **MW: 8.8**
RIH w/7-3/8" OS w/3-7/8" grapple. Tag TOF at 8781', engage grapple on fish. POOH w/OS. L/D fishing tools, recovered 1161' of 3-1/2" tbg (TOF at 9942'.) Section mill window in 9-5/8" csg 9820'-9823'.

04-26-94 **DAY 10 SUMMARY: MILL WINDOW IN CASING.** **MW: 8.8**
Cont section mill window in 9-5/8" csg f/9823'-9852'. Pump hi-vis sweep, circ & cond hole for trip.

04-27-94 **DAY 11 SUMMARY: MILLING.** **MW: 8.7**
Section mill window in 9-5/8" csg f/9852'-9870'. Sweep hole at 5' intervals w/lost circ material to clean hole.
** ***Mr. Dale Roberts with MMS granted variance to test BOP after trip out of hole w/section mill.***
** ***Mr. Roy Bobbitt on board approved operations.***

04-28-94 **DAY 12 SUMMARY: MILLING.** **MW: 8.7**
POOH w/section mill. Test Class IV BOPE t/300 psi/3500 psi. RIH w/8-1/2" X 14" underreamer hole opener. Underream window to 14" f/9820'-9870'. Circ & cond hole.
** ***Notified M. Mitchell with MMS and J. Johnston with EPA of final mud dump of FW gel system used for section milling.***

04-29-94 **DAY 13 SUMMARY: LAY CEMENT KICK-OFF PLUG.** **MW: 8.8**
RIH w/mule shoe, attempt to work into bottom of window in 9-5/8" csg at 9870'. Could not get tbg stinger past 9870'. Pump hi-vis sweep, circ & cond hole for cmting. Test lines t/3000 psi. W/EOT at 9870', pump 139 sx (134 cf) Class G cmt w/1.2% CD-32. Spot balanced plug f/9870'-9628'. Displace w/5 bbls fresh water and 114 bbls mud. Pull 3 stds DP, rev circ 2 DP volumes. Circ trace of cmt w/contaminated mud. POOH.
** ***Mr. Dan Knowlson with MMS approved setting kick-off plug from 9870'.***

04-30-94 **DAY 14 SUMMARY: DRILL CEMENT. C-6 ABANDONED. KICK-OFF C-11** **MW: 8.7**
RIH w/8-1/2" bit, tag cmt at 9656'. Drill hard cmt t/9820'. POOH w/bit #1. C-6 abandonment complete.

OCS-P-0450 C-11 API # 56-045-20067-01

Rename well as C-11. RIH w/bit #2, steerable BHA & 20 jts HWDP. Test Navi-drill & MWD. Kick-off, drill cement at 2.5 FPH f/9820'-9830'.
** ***Mr. Bob Hime with MMS approved operations.***

05-01-94 **DAY 15 SUMMARY: DRILL & SURVEY.** **MW: 8.7**
Drill 8-1/2" hole at 2.5-10 FPH f/9830'-9880'. Observed cutting percentage of formation increase f/.5 to 75%. Drill & survey f/9880'-10,283'.
Last Survey: 10,282' MD, 6912' TVD, 39.6 deg., N72.3W

05-02-94 **DAY 16 SUMMARY: DRILL & SURVEY.** **MW: 8.7**
Slide & rotary drill 8-1/2" hole & MWD survey f/10,283'-10,668'. POOH t/change bit & BHA.
Last Survey: 10,565' MD, 7128' TVD, 42.3 deg., N89.6W
** ***Mr. Allen Adams with MMS collected samples of seawater polymer mud.***

OPERATIONS SUMMARY REPORT

Field:**Point Arguello** Well: **OCS-P-0450 C-11 (C-6 Redrill)** Rig: **Dual 45**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Development**

05-03-94 **DAY 17 SUMMARY: DRILL & SURVEY.** **MW: 8.8**
RIH t/9-5/8" csg shoe , service drilling line. Finish RIH t/10,042'. Ream mud motor run f/10,042'-10,668'. Rotary drill 8-1/2" hole f/10,668'-10,825'.
Last Survey: 10,743' MD, 7260' TVD, 40.3 deg., S86.6W

05-04-94 **DAY 18 SUMMARY: DRILL & SURVEY.** **MW: 8.9**
RIH w/8-1/2" steerable BHA & bit #4 t/10,825'. Drill & survey t/11,135'. Drill in rotary mode f/11,135'-11,187'. Circ & make 5 stand wiper trip t/10,825'. Drill & survey in rotary mode f/11,187'-11,315'.
Last Survey: 11,212' MD, 7629' TVD, 36.0 deg., N83.6W

05-05-94 **DAY 19 SUMMARY: DRILL & SURVEY.** **MW: 9.0**
Drill & MWD survey 8-1/2" hole f/11,318'-11,658'. Bit torquing up. Circ B/U. POOH w/steerable BHA. Test BOPE w/4-1/2" DP 300 psi/3500 psi.
Last Survey: 11,588' MD, 7945' TVD, 28.0 deg., N85.0W
Mr. Roy Bobbitt with MMS on board.

05-06-94 **DAY 20 SUMMARY: DRILL & SURVEY.** **MW: 9.1**
Ream mud motor run f/10,825'-11,658'. Drill & survey 8-1/2" hole f/11,658'-11,911' (TD). Circ B/U. Wipe hole t/9-5/8" csg. Circ hi-vis sweep, spot Tek-mud pill in open hole ahead of dry job. POOH to run evaluation tools.
Last Survey: 11,911' MD, 8235' TVD, 25.3 deg., N82.2W

05-07-94 **DAY 21 SUMMARY: LOGGING.** **MW: 9.1**
R/U Schlumberger lubricator & packoff. Run DLL-SP-GR-AMS-SDT F/11,910'-9820', LDT-CNL-NGT-AMS f/11,911'-9820' & SHDT-GR-AMS f/11,910'-9820'. R/D loggers.

05-08-94 **DAY 22 SUMMARY: RUN LINER.** **MW: 9.0**
Ream hole f/11,737'-11,867'. Ream under gauge hole f/11,867'-11,911'. RIH w/55 jts of 7", 26#, L-80, Hydril 521 liner w/Baker insert type float shoe on bottom, insert float valve on top of 2nd jt and plug landing collar in btm of 3rd jt. Place centralizers 10' above shoe, top of 1st jt then every 35-40' to top of liner. M/U Baker-Brown 9-5/8"X7" Hyflo II hydraulic set liner hanger. RIH slowly w/7" liner.
** ***Mr. Roy Bobbitt with MMS reviewed and approved operations.***

05-09-94 **DAY 23 SUMMARY: RUN & CEMENT LINER.** **MW: 8.7**
Cont RIH w/55 jts, 7", 26#, L-80, Hydril 521 liner landed at 11,911' w/TOL at 9579'. Insert type float at 11,824', flag jt at 11,078'. Circ hole clean. Displace polymer mud w/KCl seawater comp fluid filtered to .5 micron treated w/Scaletrol 5 gal/200 bbls. Drop ball, set Baker hydraulic liner hanger w/1500 psi. Shear out ball at 2700 psi. Rotate off liner. Cement 7" liner w/428 sx (488 cf) Class G cmt w/1% CD-32 & .6% FL-52 15.8 ppg. Displace w/209 bbls seawater. Bump plug w/3000 psi-float held OK. POOH w/DP. RIH w/8-1/2" bit, 9-5/8" csg scraper & BHA. Drill out cmt f/9484' to TOL at 9579'.
Last Survey: 7471' MD, 6519' TVD, 59.1 deg., S68.3W
** ***Mr. Roy Bobbitt with MMS on board.***

OPERATIONS SUMMARY REPORT

Field:**Point Arguello** Well: **OCS-P-0450 C-11 (C-6 Redrill)** Rig: **Dual 45**
Platform: **Hidalgo** API#: **56-045-20067-01** Category: **Development**

05-10-94 **DAY 24 SUMMARY: DRILL CEMENT.** **MW: 8.7**

RIH w/3-1/2" & 4-1/2" DP to top of liner at 9579'. Clean out TOL f/9579'-9580'. RIH w/6-1/8" bit, 7" csg scraper; tag cmt stringers at 11,760'. D/O cmt f/11,760'-11,824'. D/O float & hard cmt t/11,885'. Circ hole clean.

05-11-94 **DAY 25 SUMMARY: LOGGING.** **MW: 8.7**

Test 13-5/8" Class IV BOPE 300/3500 psi. Run CBT/CET logs f/11,852'-9590'. CBT shows good to excellent bond. CET shows limited/intermittent channeling f/11,410'-10,110'. P/T 9-5/8" cg & 7" liner t/2700 psi for 30 min. RIH w/Schlumberger perf string.

05-12-94 **DAY 26 SUMMARY: LOGGING.** **MW: 8.7**

R/U Schlumberger, run GR Correlation log in DP & get on depth w/E log for perforating. Set pkr at 11,290'. R/U surface line & test same. Pressure up on annulus t/1500 psi to open PCT & fire guns. Perforate the following intervals using 4-1/2" TCP guns w/5 HPF & 37 gram charges: 11,308'-11,434', 11,476'-11,624', & 11,656'-11,804'. Had strong blow but fluid did not surface. Bleed off pressure on annulus & close PCT. Pull pkr-observe well. Fill hole w/24 bbls 8.7 ppg KCl seawater. POOH w/perf guns.

** ***Mr. Bob Hime with MMS observed and approved operations.***

05-13-94 **DAY 27 SUMMARY: RUNNING TUBING.** **MW: 8.7**

RIH w/6-1/8" bit & 7" csg scraper t/11,839'. RIH w/junk basket & gauge ring t/11,700'. RIH w/Baker FB-1 sump pkr, 10' 3-1/2" tbg pup, Baker R nipple & rotating mule shoe on WL. Set top of sump pkr at 11,632' E log depth w/mule shoe at 11,646'. Run 3-1/2" prod tbg.

05-14-94 **DAY 28 SUMMARY: RUNNING TUBING.** **MW: 8.7**

Run 3-1/2", 9.3#, L-80, Hydril 501 tbg as follows: Rotating mule shoe, 1 jt, F nipple, (2) 10" perf pups, F nipple, 5 jts, Baker 9-5/8" HB hydraulic pkr, 1 jt, GLM #1, 18 jts, GLM #2, 27 jts, GLM #3, 31 jts, GLM #4, 59 jts, GLM #5, 38 jts, GLM #6, 59 jts, GLM #7, 44 jts, Baker FV-6 SSSV, 23 jts, FMC fatigue nipple & tbg hanger. All tbg drifted & ext pressure tested t/5000 psi. P/T control line-OK. Land tbg hanger in WH. Tighten lockdown screws & p/t tbg hanger seals t/5000 psi-OK. Pressure up t/4000 psi on tbg to test tbg & set Baker HB pkr at 9540'. EOT at 9763' & Baker FV-6 SSSV at 792'. GLM's at 9491', 8940', 8121', 7187', 5296', 4075' & 2196'. P/T pkr & tbg/csg annulus t/2500 psi for 30 min-OK. Install FMC BPV in tbg hanger. N/D BOP's, remove riser. Install tree & p/t t/5000 psi. Released rig at 2400 hrs.

** ***Mr. Bob Hime with MMS observed and approved operations.***

CHEVRON U.S.A. PRODUCTION
PLATFORM HIDALGO

C-11 (C-6 REDRILL)
slot #3
OFFSHORE

S U R V E Y L I S T I N G

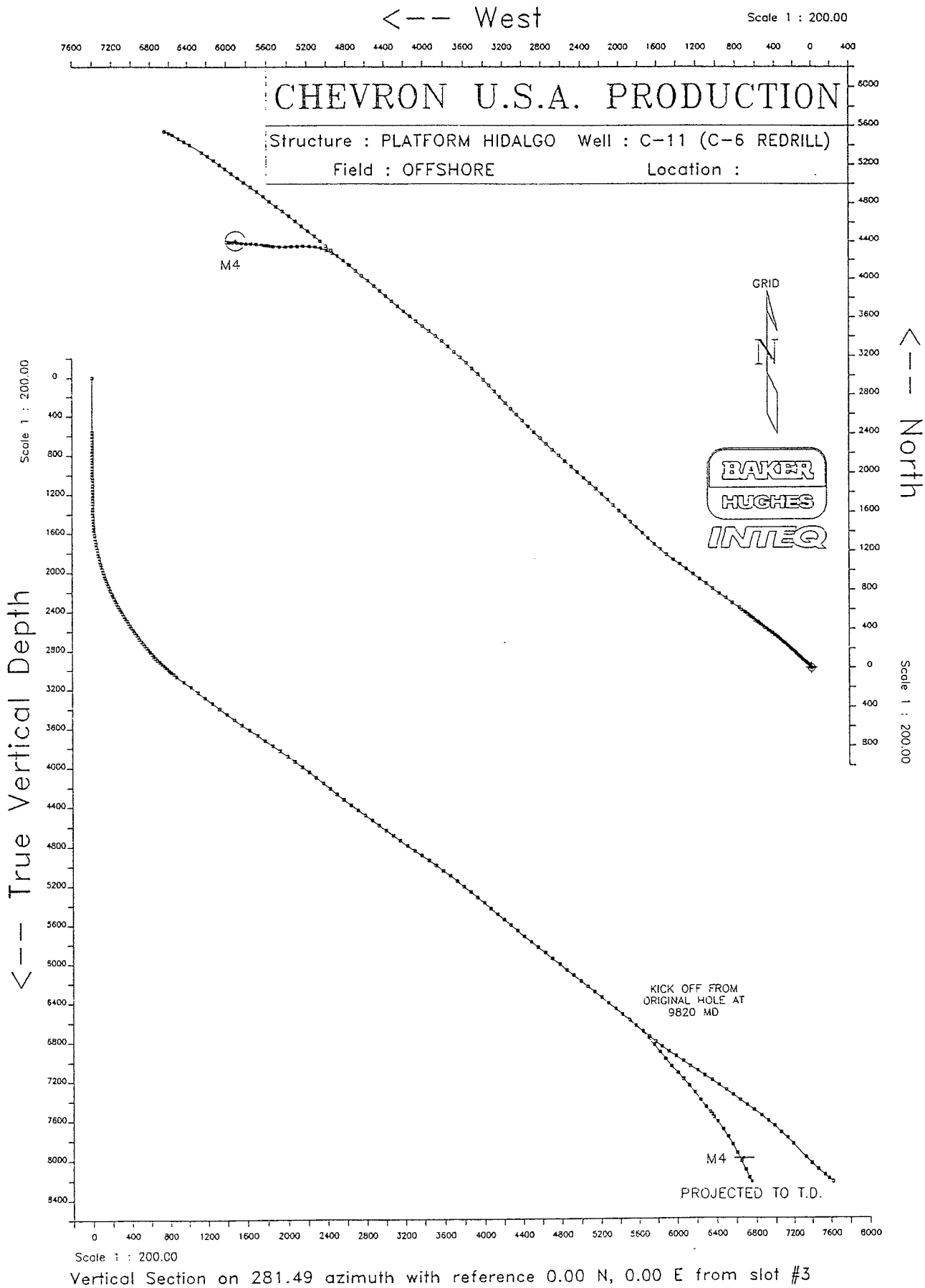
by
Baker Hughes INTEQ

Your ref : FINAL SURVEY
Our ref : svy3465
License :

Date printed : 27-May-94
Date created : 2-May-94
Last revised : 27-May-94

Field is centred on n34 29 42.065,w120 42 8.261
Structure is centred on n34 29 42.065,w120 42 8.261,-123

Slot location is n34 29 41.956,w120 42 7.529
Slot Grid coordinates are N 3819242.
Slot local coordinates are 9.62
Reference North is Grid N



Vertical Section on 281.49 azimuth with reference 0.00 N, 0.00 E from slot #3

CHEVRON U.S.A. PRODUCTION — SURVEY LISTING — Page 1
PLATFORM HIDALGO,C-11 (C-6 REDRILL) — Your ref : FINAL SURVEY
OFFSHORE, — Last revised : 27-May-94

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES	Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N 0.00 E	0.00	0.00
563.00	0.00	0.00	563.00	0.00 N 0.00 E	0.00	0.00
600.00	0.08	275.20	600.00	0.00 N 0.03 W	0.22	0.03
630.00	0.42	290.43	630.00	0.04 N 0.15 W	1.12	0.16
660.00	0.33	216.40	660.00	0.01 N 0.30 W	1.52	0.30
690.00	0.12	323.95	690.00	0.04 S 0.37 W	1.28	0.36
720.00	0.33	256.85	720.00	0.03 S 0.48 W	1.02	0.46
750.00	0.23	179.50	750.00	0.11 S 0.56 W	1.21	0.53
780.00	0.20	300.53	780.00	0.14 S 0.61 W	1.26	0.56
810.00	0.38	223.20	810.00	0.19 S 0.72 W	1.30	0.67
840.00	0.02	99.23	840.00	0.27 S 0.78 W	1.31	0.72
870.00	0.37	266.20	870.00	0.27 S 0.88 W	1.28	0.80
900.00	0.33	190.67	900.00	0.36 S 0.99 W	1.43	0.90
930.00	0.17	306.70	930.00	0.42 S 1.04 W	1.44	0.93
960.00	0.48	235.68	960.00	0.47 S 1.18 W	1.52	1.06
990.00	0.08	163.37	989.99	0.56 S 1.28 W	1.55	1.14
1020.00	0.43	251.00	1019.99	0.62 S 1.38 W	1.46	1.23
1050.00	0.37	179.30	1049.99	0.75 S 1.48 W	1.57	1.30
1080.00	0.43	244.13	1079.99	0.90 S 1.58 W	1.44	1.37
1110.00	0.52	196.47	1109.99	1.08 S 1.72 W	1.30	1.48
1140.00	0.30	245.58	1139.99	1.24 S 1.84 W	1.31	1.55
1170.00	0.50	217.20	1169.99	1.38 S 1.98 W	0.92	1.67
1200.00	0.20	242.57	1199.99	1.50 S 2.11 W	1.10	1.77
1230.00	0.55	239.57	1229.99	1.60 S 2.28 W	1.17	1.92
1260.00	0.13	257.65	1259.99	1.68 S 2.44 W	1.42	2.06
1290.00	0.72	303.72	1289.99	1.59 S 2.63 W	2.10	2.26
1320.00	0.87	327.72	1319.98	1.29 S 2.91 W	1.20	2.59
1350.00	1.87	321.05	1349.97	0.72 S 3.34 W	3.37	3.13
1380.00	2.78	334.87	1379.95	0.32 N 3.95 W	3.56	3.94
1410.00	3.45	328.87	1409.90	1.75 N 4.73 W	2.47	4.98
1440.00	4.50	329.92	1439.83	3.54 N 5.78 W	3.51	6.38
1470.00	4.93	330.82	1469.73	5.69 N 7.00 W	1.46	8.00
1500.00	5.68	321.92	1499.60	7.98 N 8.55 W	3.70	9.97
1530.00	7.02	323.38	1529.41	10.62 N 10.56 W	4.48	12.46
1560.00	7.87	322.33	1559.16	13.72 N 12.91 W	2.87	15.38
1590.00	8.58	319.67	1588.85	17.05 N 15.61 W	2.70	18.69
1620.00	9.63	316.47	1618.47	20.58 N 18.79 W	3.88	22.51
1650.00	10.70	315.50	1648.00	24.38 N 22.47 W	3.60	26.88
1680.00	11.75	313.58	1677.42	28.48 N 26.63 W	3.71	31.77
1710.00	12.70	313.57	1706.74	32.86 N 31.24 W	3.17	37.15
1740.00	13.58	312.77	1735.96	37.52 N 36.21 W	3.01	42.96
1770.00	13.85	312.48	1765.10	42.34 N 41.44 W	0.92	49.05
1800.00	14.40	313.47	1794.19	47.33 N 46.80 W	2.00	55.29
1830.00	14.85	312.22	1823.22	52.48 N 52.36 W	1.83	61.76
1860.00	15.63	310.82	1852.16	57.70 N 58.26 W	2.88	68.59
1890.00	16.63	310.03	1880.98	63.11 N 64.61 W	3.41	75.88
1920.00	17.63	309.70	1909.65	68.77 N 71.39 W	3.35	83.66
1950.00	18.70	309.93	1938.15	74.76 N 78.58 W	3.56	91.89
1980.00	19.68	309.45	1966.48	81.06 N 86.16 W	3.32	100.58
2010.00	20.80	309.65	1994.63	87.67 N 94.17 W	3.73	109.74

All data is in feet unless otherwise stated
Coordinates from slot #3 and TVD from wellhead (133.00 Ft above mean sea level).
Vertical section is from wellhead on azimuth 281.49 degrees.
Declination is 14.39 degrees, Convergence is 1.30 degrees.
Calculation uses the balanced tangential method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect
2040.00	21.75	309.12	2022.58	94.57 N	102.58 W	3.23	119.36
2070.00	22.92	309.38	2050.33	101.78 N	111.41 W	3.90	129.45
2100.00	23.88	310.35	2077.86	109.42 N	120.55 W	3.47	139.93
2130.00	24.70	309.60	2105.21	117.35 N	130.01 W	2.91	150.78
2160.00	25.43	309.50	2132.38	125.44 N	139.81 W	2.45	162.00
2190.00	26.25	310.15	2159.38	133.82 N	149.85 W	2.88	173.50
2220.00	27.12	309.20	2186.18	142.42 N	160.22 W	3.22	185.38
2250.00	27.97	309.62	2212.78	151.22 N	170.94 W	2.90	197.64
2280.00	28.83	310.23	2239.17	160.38 N	181.88 W	3.05	210.18
2310.00	29.53	309.98	2265.36	169.81 N	193.07 W	2.37	223.02
2340.00	30.33	309.92	2291.36	179.42 N	204.54 W	2.67	236.18
2370.00	31.13	309.95	2317.15	189.26 N	216.30 W	2.67	249.66
2400.00	32.00	310.23	2342.71	199.37 N	228.31 W	2.93	263.45
2430.00	32.83	309.73	2368.03	209.71 N	240.63 W	2.92	277.58
2460.00	33.40	309.27	2393.16	220.13 N	253.28 W	2.07	292.06
2490.00	33.93	309.40	2418.13	230.67 N	266.14 W	1.79	306.76
2520.00	34.67	309.48	2442.91	241.41 N	279.20 W	2.45	321.69
2550.00	35.38	309.40	2467.48	252.35 N	292.50 W	2.39	336.90
2580.00	35.98	309.20	2491.84	263.43 N	306.04 W	2.04	352.38
2610.00	36.62	308.65	2516.02	274.59 N	319.86 W	2.37	368.14
2640.00	37.28	308.90	2540.00	285.89 N	333.91 W	2.28	384.17
2670.00	38.13	308.15	2563.73	297.31 N	348.27 W	3.22	400.51
2700.00	38.78	307.75	2587.22	308.79 N	362.98 W	2.32	417.22
2730.00	39.32	306.83	2610.52	320.24 N	378.02 W	2.62	434.23
2760.00	39.63	306.68	2633.68	331.65 N	393.30 W	1.10	451.48
2790.00	40.07	306.52	2656.71	343.11 N	408.73 W	1.49	468.89
2820.00	40.85	306.42	2679.53	354.68 N	424.39 W	2.62	486.53
2850.00	41.45	306.20	2702.12	366.37 N	440.29 W	2.06	504.45
2880.00	42.07	306.53	2724.50	378.22 N	456.38 W	2.18	522.58
2910.00	42.57	306.95	2746.68	390.30 N	472.57 W	1.91	540.84
2940.00	43.25	306.68	2768.66	402.54 N	488.92 W	2.36	559.30
2970.00	43.67	306.73	2790.43	414.87 N	505.46 W	1.39	577.97
3000.00	44.02	307.37	2812.07	427.39 N	522.04 W	1.87	596.72
3030.00	44.72	307.02	2833.52	440.07 N	538.76 W	2.47	615.62
3060.00	45.53	308.28	2854.68	453.06 N	555.58 W	4.04	634.70
3090.00	46.83	309.22	2875.45	466.61 N	572.46 W	4.88	653.94
3120.00	48.33	308.57	2895.68	480.51 N	589.70 W	5.25	673.60
3150.00	49.70	309.28	2915.36	494.74 N	607.32 W	4.90	693.70
3180.00	50.37	308.63	2934.63	509.20 N	625.20 W	2.77	714.10
3210.00	51.40	308.80	2953.56	523.75 N	643.36 W	3.47	734.79
3240.00	52.93	310.35	2971.95	538.85 N	661.61 W	6.54	755.69
3270.00	54.20	311.07	2989.77	554.59 N	679.91 W	4.64	776.76
3300.00	54.98	308.82	3007.15	570.28 N	698.65 W	6.65	798.25
3324.00	56.72	308.22	3020.62	582.65 N	714.19 W	7.51	815.94
3360.00	56.60	307.78	3040.41	601.16 N	737.89 W	1.06	842.85
3400.00	56.62	305.57	3062.42	621.11 N	764.67 W	4.63	873.07
3500.00	56.63	305.85	3117.44	669.85 N	832.48 W	0.24	949.23
3600.00	56.60	306.47	3172.46	719.12 N	899.90 W	0.52	1025.11
3700.00	55.88	307.20	3228.03	768.95 N	966.44 W	0.94	1100.24
3800.00	56.27	306.02	3283.84	818.43 N	1033.04 W	1.05	1175.37

All data is in feet unless otherwise stated
Coordinates from slot #3 and TVD from wellhead (133.00 Ft above mean sea level).
Vertical section is from wellhead on azimuth 281.49 degrees.
Declination is 14.39 degrees, Convergence is 1.30 degrees.
Calculation uses the balanced tangential method.
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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect
3900.00	56.10	307.13	3339.49	867.93 N	1099.76 W	0.94	1250.61
4000.00	55.97	307.28	3395.36	918.09 N	1165.82 W	0.18	1325.33
4100.00	56.13	306.55	3451.21	967.91 N	1232.14 W	0.63	1400.25
4200.00	56.37	307.67	3506.77	1018.07 N	1298.44 W	0.96	1475.22
4300.00	56.73	307.15	3561.89	1068.76 N	1364.72 W	0.56	1550.26
4400.00	57.00	306.97	3616.54	1119.22 N	1431.54 W	0.31	1625.80
4500.00	57.40	307.53	3670.72	1170.10 N	1498.45 W	0.62	1701.50
4600.00	57.92	310.10	3724.21	1223.05 N	1564.26 W	2.23	1776.54
4700.00	57.62	311.97	3777.55	1278.58 N	1628.06 W	1.61	1850.12
4800.00	57.92	312.60	3830.88	1335.48 N	1690.64 W	0.61	1922.78
4900.00	58.12	312.35	3883.85	1392.76 N	1753.20 W	0.29	1995.50
5000.00	57.42	312.23	3937.19	1449.68 N	1815.77 W	0.71	2068.15
5100.00	56.97	312.48	3991.37	1506.31 N	1877.88 W	0.50	2140.30
5200.00	56.90	313.42	4045.93	1563.41 N	1939.22 W	0.78	2211.78
5300.00	57.03	312.25	4100.44	1620.40 N	2000.69 W	0.99	2283.38
5400.00	56.58	313.72	4155.19	1677.45 N	2061.91 W	1.31	2354.73
5500.00	55.72	312.88	4210.89	1734.40 N	2122.34 W	1.11	2425.30
5600.00	55.87	312.30	4267.11	1790.37 N	2183.23 W	0.50	2496.11
5700.00	56.52	311.93	4322.75	1846.09 N	2244.86 W	0.72	2567.61
5800.00	57.40	312.08	4377.27	1902.19 N	2307.15 W	0.89	2639.82
5900.00	58.18	312.20	4430.57	1958.96 N	2369.88 W	0.79	2712.61
6000.00	58.58	313.28	4483.00	2016.76 N	2432.42 W	1.00	2785.40
6100.00	58.60	312.17	4535.11	2074.66 N	2495.12 W	0.95	2858.38
6200.00	59.08	312.03	4586.85	2132.03 N	2558.61 W	0.50	2932.03
6300.00	58.93	312.98	4638.34	2189.95 N	2621.80 W	0.83	3005.49
6400.00	59.30	313.28	4689.67	2248.63 N	2684.43 W	0.45	3078.55
6500.00	59.45	313.75	4740.61	2307.88 N	2746.83 W	0.43	3151.51
6600.00	60.63	313.83	4790.54	2367.84 N	2809.37 W	1.18	3224.73
6700.00	60.52	314.30	4839.67	2428.41 N	2871.95 W	0.42	3298.13
6800.00	59.90	313.87	4889.36	2488.79 N	2934.29 W	0.72	3371.24
6900.00	59.02	315.12	4940.17	2549.14 N	2995.72 W	1.39	3443.47
7000.00	58.33	315.75	4992.16	2609.99 N	3055.67 W	0.87	3514.33
7100.00	57.88	316.25	5044.99	2671.06 N	3114.65 W	0.62	3584.30
7200.00	57.28	315.68	5098.60	2731.76 N	3173.32 W	0.77	3653.88
7300.00	56.50	316.02	5153.22	2791.86 N	3231.67 W	0.83	3723.03
7400.00	55.75	317.15	5208.96	2852.16 N	3288.73 W	1.20	3790.96
7500.00	55.10	316.70	5265.70	2912.30 N	3344.96 W	0.75	3858.05
7600.00	55.30	316.82	5322.78	2972.12 N	3401.22 W	0.22	3925.09
7700.00	55.02	315.12	5379.91	3031.12 N	3458.25 W	1.42	3992.74
7800.00	55.35	315.17	5437.00	3089.31 N	3516.16 W	0.34	4061.08
7900.00	55.20	313.97	5493.96	3146.99 N	3574.71 W	1.00	4129.94
8000.00	55.48	314.62	5550.83	3204.43 N	3633.59 W	0.60	4199.08
8100.00	55.08	313.32	5607.78	3261.49 N	3692.74 W	1.14	4268.42
8200.00	55.08	312.37	5665.02	3317.24 N	3752.87 W	0.78	4338.44
8300.00	55.43	309.78	5722.01	3371.22 N	3814.80 W	2.15	4409.88
8400.00	55.43	308.40	5778.75	3423.14 N	3878.71 W	1.14	4482.86
8500.00	55.22	308.33	5835.64	3474.18 N	3943.19 W	0.22	4556.21
8600.00	54.90	308.72	5892.91	3525.24 N	4007.32 W	0.45	4629.23
8700.00	54.42	309.23	5950.76	3576.55 N	4070.73 W	0.64	4701.59
8800.00	54.15	308.83	6009.14	3627.68 N	4133.80 W	0.42	4773.58

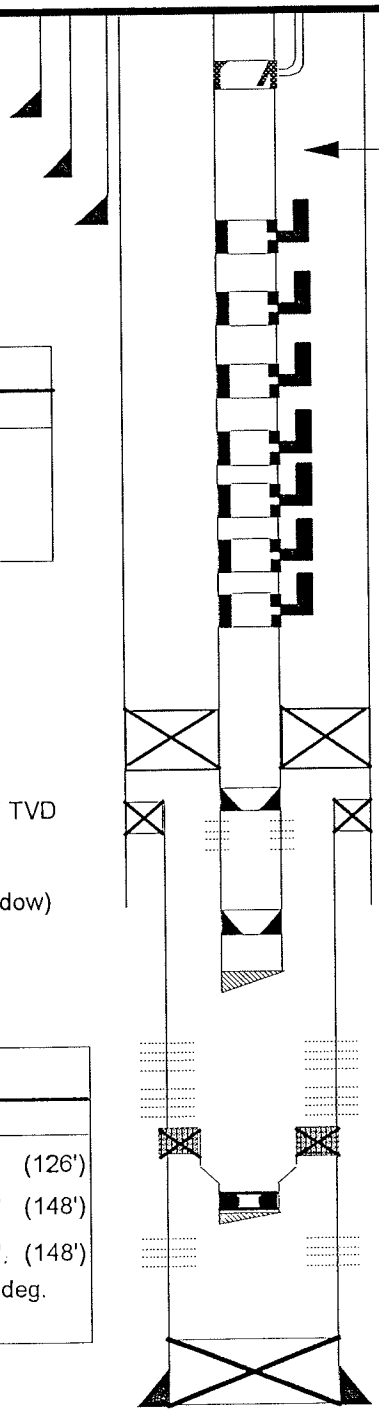
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Coordinates from slot #3 and TVD from wellhead (133.00 Ft above mean sea level).
Vertical section is from wellhead on azimuth 281.49 degrees.
Declination is 14.39 degrees, Convergence is 1.30 degrees.
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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100Ft	Vert Sect	
8900.00	53.82	309.80	6067.94	3678.92 N 4196.38 W	0.85	4845.11	
9000.00	54.20	309.98	6126.70	3730.82 N 4258.45 W	0.41	4916.28	
9100.00	54.77	310.17	6184.80	3783.22 N 4320.74 W	0.58	4987.75	
9200.00	55.23	310.20	6242.15	3836.07 N 4383.32 W	0.47	5059.61	
9300.00	55.37	310.78	6299.08	3889.46 N 4445.84 W	0.50	5131.51	
9400.00	55.37	309.78	6355.91	3942.65 N 4508.61 W	0.82	5203.62	
9500.00	55.58	309.72	6412.59	3995.34 N 4571.95 W	0.22	5276.18	
9600.00	55.33	310.05	6469.29	4048.15 N 4635.16 W	0.37	5348.64	
9700.00	54.93	310.30	6526.46	4101.08 N 4697.85 W	0.45	5420.62	
9800.00	55.02	310.50	6583.85	4154.16 N 4760.21 W	0.18	5492.31	
9820.00	54.99	310.36	6595.32	4164.78 N 4772.68 W	0.60	5506.65	KICK OFF FROM
10004.00	48.00	304.50	6709.66	4252.30 N 4886.45 W	4.54	5635.57	ORIGINAL HOLE AT
10094.00	44.60	299.60	6771.82	4286.85 N 4941.48 W	5.45	5696.38	9820 MD
10188.00	41.20	291.90	6840.64	4314.70 N 4998.90 W	6.64	5758.19	
10282.00	39.60	287.70	6912.22	4335.35 N 5056.16 W	3.36	5818.42	
10375.00	38.80	279.90	6984.29	4349.38 N 5113.10 W	5.37	5877.02	
10470.00	42.20	273.60	7056.50	4356.50 N 5174.27 W	5.60	5938.37	
10565.00	42.30	270.40	7126.82	4358.72 N 5238.08 W	2.27	6001.35	
10651.00	42.70	269.00	7190.22	4358.42 N 5296.18 W	1.19	6058.22	
10743.00	40.30	266.60	7259.11	4356.11 N 5357.07 W	3.13	6117.43	
10834.00	37.10	266.20	7330.10	4352.54 N 5413.83 W	3.53	6172.34	
10928.00	38.80	272.50	7404.22	4351.95 N 5471.54 W	4.50	6228.78	
11024.00	38.70	276.40	7479.09	4356.60 N 5531.41 W	2.54	6288.38	
11089.00	38.60	278.20	7529.85	4361.76 N 5571.68 W	1.74	6328.86	
11117.00	37.90	278.20	7551.84	4364.24 N 5588.83 W	2.50	6346.17	
11152.00	37.20	277.80	7579.59	4367.20 N 5609.96 W	2.12	6367.46	
11212.00	36.00	276.40	7627.75	4371.63 N 5645.45 W	2.44	6403.13	
11306.00	34.90	275.00	7704.32	4377.05 N 5699.69 W	1.45	6457.36	
11400.00	32.50	275.00	7782.51	4381.60 N 5751.64 W	2.55	6509.17	
11493.00	30.80	274.30	7861.67	4385.56 N 5800.27 W	1.87	6557.62	
11588.00	28.00	275.00	7944.41	4389.33 N 5846.74 W	2.97	6603.91	
11683.00	26.90	273.60	8028.71	4392.62 N 5890.40 W	1.34	6647.35	
11778.00	26.20	275.40	8113.69	4395.94 N 5932.73 W	1.12	6689.49	
11864.00	25.30	277.80	8191.15	4400.23 N 5969.84 W	1.60	6726.71	
11911.00	25.30	277.80	8233.64	4402.95 N 5989.74 W	0.00	6746.75	PROJECTED TO T.D.

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Vertical section is from wellhead on azimuth 281.49 degrees.
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D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-11 (C-6 Redrill)
TREE	FMC	COMPLETION DATE	MAY 14, 1994
5000 PSI W.P.		WORKOVER	

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1787'

13-3/8" 72# @ 3412'

792' Baker FV-6 Tbg. Ret. SSSV

3-1/2" 9.3# L-80 Hydril 501 Tbg.

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SCP)	PORTS
2196	2156	1065	1/4"
4076	3438	1054	1/4"
5296	4098	Orifice	5/16"
7187	5092	DUMMY	
8122	5620	DUMMY	
8940	6091	DUMMY	
9491	6407	DUMMY	

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	10,836'	-7,199'
M2-Top	11,110'	-7,413'
M3-Top	11,398'	-7,648'
M4-Top	11,627'	-7,846'

T.O.L. @ 9579' MD 6457 TVD

9-5/8" 43.5# @ 9820' (Top of milled window)

9,540' Baker 'HB' Packer
Five tubing joints
9,709' Baker "F" nipple (2.75 ID)
Perforated pups (20')
9,729' Baker "F" nipple (2.75 ID)
Tubing Joint
9,762' Rotating muleshoe

PERFORATIONS

FORM.	M.D.	T.V.D.	
M2 / M3	11,308' - 11,434'	7,706 - 7,811'	(126')
M3	11,476' - 11,624'	7,847 - 7,976'	(148')
M4	11,656' - 11,804'	8,005 - 8,137'	(148')

4 1/2 Tubing Conveyed, 5 , 0.49" SPF 60 deg.
(Shot 1,000 psi under balance)

11,632' (top of packer) Baker "FB-1 packer (4.00 ID)
3 1/2" 10' pup joint
11,645' Baker "R" nipple (2.697 ID)
11,648' Rotating muleshoe

8 Round Threads

11,885 Top of Cement

7" 26# @ 11.911'

DIRECTIONAL DATA

VERTICAL TO 1,350'
MAX ANGLE 61° @ 6,600' AND
25° @ 11,885' TD

PBTD 11,885'

TD 11,911' MD 8,234' TVD'

DATE 5-18-94
BY TAR

MINERALS MANAGEMENT SERVICE *CONFIDENTIAL* Submit original plus three copies and one copy marked "Public Information." OMB No. 1010-0044

APPLICATION FOR PERMIT TO DRILL (APD) Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER	3. WELL NUMBER	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01	C - 11 (C-6 R/D)	Chevron USA Production Co. P.O. Box 6917 Ventura, CA 93006
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	
PT. ARGUELLO		00078	

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Estimated)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
N 00716 E 06716	OCS - P - 0450	SM	464	NI 10-06

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Estimated)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NUMBER	16. OPD NUMBER
N 05110 E 00678	OCS - P - 0450	SM	464	NI 10-06

18. WATER DEPTH (Estimated)	19. ELEVATION AT KB (Estimated)	20. RIG NAME	21. RIG TYPE
430'	133'	PLATFORM HIDALGO	PF

22. TYPE OF WELL:	23. SPUD DATE (Proposed)	24. TOTAL DEPTH (Proposed)
EXPLORATORY / DEVELOPMENT X	94 04 19	MD 11,978' TVD 8233'

MINERALS MANAGEMENT SERVICE
APR 15 1994
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SANTA MARIA DISTRICT

25. ATTACHMENTS (Attach complete well prognosis and attachments required under 30 CFR 250.64(b) through (g) or 30 CFR 250.[illegible] as appropriate)

1. PRO 316-1 Proposal for Well Operations including H2S contingency plan & BOP program
2. Proposed Casing & Cementing Program
3. Casing & Cementing Diagram
4. Casing Specifications
5. Anticipated Surface Pressures
6. Pressure Plot
7. Mud Quantities
8. Slot Diagram
9. Proposed Directional Survey
10. Directional Plots
11. Formation Evaluation Program
12. BOPE - Schematics
13. Current C-6 and Proposed C-11 Well Schematics

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
D. H. BILLINGS	(805) 658-4456
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
A. L. SMITH for A. CORNELIUS	PROFIT CENTER MANAGER
30. AUTHORIZING SIGNATURE	31. DATE
W B Richards FOR A.C.	4/13/94

THIS SPACE FOR MMS USE ONLY

APPROVED (With Attached Conditions X) BY Phillip R. Schroeder TITLE District Supervisor

(Without Conditions ____) DATE 4-18-94

API WELL NO. ASSIGNED TO THIS WELL 56-045-20067-01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used in drilling operations. This information will be used by MMS District Supervisors to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 1/2 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden es[illegible] other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management S[illegible] Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB Nc[illegible] Washington, DC 20503.

FORM MMS-123 (August 1993) (Replaces Form MMS-331C which will not be used)

Orig: LLP; Vta Well File
MMS, Santa Maria, (3+PI)
D.E. Patterson
Sec. 971, CON
BAK Well Files
V. Sankur
R.H.Skillin, BAK
V. Kelley
Phillips Petrol.(2) REGION

MINERALS MANAGEMENT SERVICE

APPLICATION FOR PERMIT TO DRILL (APD)

Submit original plus three co with one copy marked "Public Information."

OMB No. 1010-0044

Expiration Date: August 31, 1996

1. ORIGINAL X / CORRECTION	2. API WELL NUMBER	3. WELL NUMBER	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	56-045-20067-01	C - 11 (C-6 R/D)	Chevron USA Production Co. P.O. Box 6917 Ventura, CA 93006
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	
PT. ARGUELLO		00078	

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Estimated)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Estimated)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NUMBER	16. OPD NUMBER
N 05110 E 00678	OCS - P - 0450	SM	464	NI 10-06

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430'	133'	PLATFORM HIDALGO	PF

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EXPLORATORY / DEVELOPMENT X	94 04 19	MD 11,978' TVD 8233'

25. ATTACHMENTS (Attach complete well prognosis and attachments required under 30 CFR 250.64(b) through (g) or 30 CFR 272(c) and (d), as appropriate)

PUBLIC INFORMATION

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A. L. SMITH for A. CORNELIUS	PROFIT CENTER MANAGER
30. AUTHORIZING SIGNATURE	31. DATE
W R Richards FOR A.C.	4/13/94

THIS SPACE FOR MMS USE ONLY

APPROVED (With Attached Conditions X) BY Phillip R. Schroeder TITLE District Supervisor

(Without Conditions _____)

DATE 4-18-94

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CONFIDENTIAL

April 13, 1994

PROPOSAL FOR WELL OPERATIONS
PRO-316-1

(Work to be supervised by Drilling)

FIELD:PT ARGUELLO PLATFORM:HIDALGO PROPERTY:OCS-P-0450 WELL:C-11 (C-6R/D)

OBJECTIVE:

To plug and abandon existing perforations and the 7" liner in well C-6 and re-designate as C-11 and re-drill well to proposed location and complete a Monterey single string producer.

SURFACE LOCATION:

3819242.40 m N and 710993.36 m E, UTM Zone 10 (slot #3)

PROPOSED BOTTOM HOLE LOCATION

3820581.8 m N and 709153.0 m E, UTM Zone 10

ELEVATIONS:

Water depth:	430'
Derrick floor to MLLW:	133'
Derrick floor to ocean floor:	563'

PROPOSED ESTIMATED WELL CORRELATIONS:

MARKER	MD	TVD	VSS	Fm. Press.	Maximum Mud Wt.
S4	10187'	6811'	-6678'	3005 psi	9.8-10.5ppg
M4	11706'	7998'	-7865'	3539 psi	8.7-9.2 ppg
T.D.	11978'	8233'	-8100'	3645 psi	8.7-9.2 ppg

CURRENT CONDITIONS:

SIZE	WEIGHT	GRADE	THREAD	MD	TVD
24"	201#	X-52	RL-4	1057'	1057'
18 5/8"	117#	K-55	Butt	1787'	1782'
13 3/8"	72#	L-80	Butt	3413'	3070'
9 5/8"	43.5	TC80	HYD-563	10536'	6990'
	47# (top 4 joints are 47#)				
Liner: 7"	26#	L-80	HYD-521	12670'	8232'

T.D.: 12674' MD / 8234' TVD PBTD: 12587' MD

PERFORATIONS: Selectively perforated from 10920' to 12550'.

PROPOSED CASING PROGRAM AND SETTING DEPTHS:

SIZE	WEIGHT	GRADE	THREAD	MD	TVD
9 5/8"	43.5	L-80	HYD-563	9995'	6696' (top of window)
	47# (Top 4 land joints)				
Liner: 7"	26#	L-80	HYD-521	11978'	8233'

DHB

PROPOSED DIRECTIONAL
Follow attached directional plot.
Build and hold well path.

Kick off point:	10000' MD
Drop and turn rate	4 deg/ 100' to 11216'
Hold angle	30 deg to T.D.
Hold direction	S81°W to T.D.

Target geometry is a 100' radius at the M4 pierce point.
Have 6 3/4" directional tools available as needed.

DIRECTIONAL CONSIDERATIONS:
Carefully review and follow all directional plots and maps.
Use Directional MWD survey data during drilling from kick-off point to T.D. No gyro is required.

BLOWOUT PREVENTION EQUIPMENT:
A 13-5/8" 5000 PSI Class IV (RSRRA) BOP will be installed and utilized for all drilling and completion operations.
NOTE: BOPE test pressures for 13 3/8" BOPE to be 3500 psi high and 300 psi low through entire program.

HYDROGEN SULFIDE CONSIDERATIONS:
The Monterey has strong potentials for H_2S gas. Hydrogen sulfide concentrations from producing wells on Platform Hidalgo is currently 8-12,000 ppm. Approved H2S Contingency Plan to be followed.
★ Assume all gas circulated to surface to have H_2S potential. ★

EQUIPMENT FOR MEASUREMENT OF H2S:
- H2S monitors will be located on the flow nipple, shale shakers and other areas on the drilling deck.
- Frequent measurements with a Garrett Gas Train will be made to monitor the sulfide concentration of well control fluids.

MUD PROGRAM:
While section milling and opening hole maintain mud as follows:
WT 8.7-9.0
FV 90-100
PV 20-25
YP 20-30
WL NO CONTROL

Hole Size	Interval (MD)	Mud Type	Mud Wt.	pH	W/L
8 1/2"	10000'-11978'	Seawater X-C polymer	8.7-9.0	8.5	12-14

Note: Maintain chlorides between 16,000 and 18,000 ppm in the 8 1/2" hole.
PH control not required until 200' below kick-off point.

DRILLING FLUIDS AND H2S ENVIRONMENT

Chevron requests that approval be given to maintain the pH of the drilling fluids in the 8.5 to 9.5 range in the S5 zone and below including the Monterey to prevent formation damage. Additionally it is requested that completion fluids consist of seawater and KCL for weight material, as necessary, without pH control. The following are proposed additives and discussion regarding contingencies for drilling and working over wells in the potential H2S environment. Base fluids for these intervals will be sea water.

COMPLETION AND WORKOVER FLUIDS ADDITIVES

ADDITIVE	CONCENTRATION	REASON
KCL	as needed	For weight to control formation pressure
SCALTROL	5 gals/200bbl (opt)	Scale Inhibitor against formation
(or equivalent)	5 gals/1000bbl(min)	Barium Sulfate.
K.O. 1200	As needed	To provide Zn ion for reaction with
Zinc Chelate Agent		sulfides
(Contingency only)		

DRILLING MUD ADDITIVES

ADDITIVE	CONCENTRATION	REASON
Calcium Carbonate	as needed	For weight to control formation pressure
Caustic	maintain pH 8.5-9.5	Mud alkalinity provides neutralization of H2S
SCALTROL	5 gals/200bbl (opt)	Scale Inhibitor against formation
(or equivalent)	5 gals/1000bbl(min)	Barium Sulfate.
Zinc Carbonate	As needed	To provide Zn ion for reaction with
(Contingency only)		Sulfides

DB

PROGRAM:

1. Skid rig to well #C-6.

2. Kill well, install BPV, close SSSV. N/D tree.

3. N/U and test class IV BOPE to 300 psi low pressure and 3500 psi high pressure test. These test pressures to used throughout work over. Test Blind rams after first trip out of hole.

4. Remove BPV and POH with completion string.

NOTES:
- After initially removing tree check threads in top of hanger and ensure X-O will make up into same.
- Inspect alignment pin.
- Drift tubing on trip out and check for scale.
- Send completion equipment, to respective original supplier for re-work/redress as needed.
- Pressure Xmas tree body and all valves to 5000 psi prior to re-installation.
- Prior to rig skid check tubing pressures and all annulus pressures and note same.

5. RIH with OEDP to 12587' and plug 7" liner in stages from 12587' to 10720' with class G cement with additives as recommended by BJ Services.

6. Pressure test cement plug, 7" liner, and 9 5/8" casing to 2000 psi for 15 minutes. Record pressure on chart and no more than 200 psi leak-off in 15 minutes is allowed.

7. Mill a 40' window starting near 9995', start milling approximately one foot above nearest collar. Maintain recommended drilling fluid parameters.

8. Open section to 12 1/4".

9. Plug 7" liner, 9 5/8"casing, and 12 1/4" open hole from 10100' to 9945' with class G cement densified to 16.7 ppg. Use additives as recommended by DTC and BJ.

10. Polish off plug to 9995'. Re-designate well as C-11. Install Mudloggers and change-over to XC-seawater system. Original leak-off at 10536' was 15.0 ppg, do not re-test unless indicated in approved APD.

11. Drill 8 1/2" hole to 11978' M.D./ 8233' TVD per provided directional plan. Attempt maintain minimal mud weights. The kick-off point is above the top S4 and there is potential need to weight up to as much as 10.5 ppg. Use CaCO3 for weight material, if necessary.

12. Run logs as per the Formation Evaluation Program. Use an appropriate pack-off during all open hole logging operations

13. Run and cement approximately 2183' of 7" 26# L-80 Hydril 521 liner near bottom with top near 9795' and bottom near 11978' M.D.
    a. Casing to be equipped with a float shoe on bottom, a float collar on top of second joint, one 20' flag joint near top perforation, and 7"x9-5/8" Hydraulic set liner hanger to allow reciprocation.
    b. Prior to commencing cementing displace hole with clean 8.7 ppg completion fluid while reciprocating liner. Displace a minimum of two hole volumes. Set liner and release from same prior commencing cement operations.
    c. Cement 7" liner through shoe with Class G cement mixed to 15.8 ppg sufficient to fill 200' above liner lap into 9-5/8" casing. Use rheology and fluid loss additives as specified by cement field program.
    d. Place one 7" Davis-Lynch centralizer on each joint. Use stop collars.

14. Clean-out 9-5/8" casing and 7" liner to within 20' of shoe and change over to seawater completion fluid filtered through .5 micron filters.

15. Rig up and run CBT/CET as indicated. Be prepared to run bond log under 1000 psi pressure using a **flanged lubricator**. Perform isolation squeeze as required, field program to be provided.

16. Pressure test 7" liner and 7" liner lap to surface pressure equivalent to 500 psi over 9 5/8" casing shoe leak-off test pressure at the 9 5/8" shoe. Do not exceed 2800 psi.

17. Perforate 7" liner with 4 1/2" deep penetrator TCP guns shot 1000 psi under-balance in the M3 and M4 zones. Kill well after perforating and complete with 3 1/2" tubing completion string. Have 300' of loaded 20' guns on board with 4-10' and 4-20' blank guns on board. Perforation intervals to be provided based upon open hole logs.

18. Scrape 7" liner (if necessary) and run 7" isolation packer assembly to indicated depth.

19. Rig-up and run completion equipment per attached schematic.

NOTES:
- GAS LIFT MANDRELS TO BE INSTALLED NEAR MEASURED DEPTHS: PROVIDED BY PRODUCTION ENGINEER.
- SEALS ON SSSV TO BE KALRAZ OR CHEMREZ.
- POSITION NIPPLE AT 3000' TO BE 4130. OTHER NIPPLES TO BE 9 CR.
- GLM TO BE 4130 SUITABLE FOR SOUR SERVICE.
- ALL TUBING AND COMPLETION EQUIPMENT TO BE HYDRIL 501.
- DRIFT TUBING AND ALL COMPLETION EQUIPMENT TO SPECIFIED DRIFT.
- GATORHAWK TUBING AND ALL CONNECTONS TO 5000 PSI, COMPLETION EQUIPMENT ASSEMBLIES TO BE PLUG TESTED TO 5000 PSI ON LOCATION (EXCEPT HYDRAULIC PACKER ASSEMBLIES).

DHB

- M/U TORQUE ON 3 1/2" HYDRIL 501 TUBING IS 3000/3450/4500 FT/LBS (MIN/OPT/MAX)
- LIGHTLY DOPE PIN END ONLY.

20. Install SSSV near 700' M.D. Connect control line and test to 5000 psi. (Use GST 32 control line fluid).

21. Continue to RIH with tubing with 5000 psi pressure on control line placing bands 2 per joint one above each connection and one in the middle of each joint.

22. Install necessary pups and tubing hanger. Connect control line to tubing hanger and re-connect line to test port. Pressure test same to 5000 psi.

23. Displace hole with seawater packer fluid with scale inhibitor and biocide approved for OCS discharge, if recommended by Petroleum Engineering.

24. Ensure lock-downs are fully backed out, align and land tubing hanger and pressure test to 5000 psi.

25. Run 2.75" Model FB test plug to X nipple below packer. Pressure tubing to 2500 psi to set 9 5/8" Baker Model HB Production Packer. Test annulus to 2500 psi.

26. Back-out landing joints and install BPV in tubing hanger.

27. N/D BOPE, N/U tree and test to 5000 psi.

28. Release rig.

D. H. Billings D H Billings 4/13/94
Senior Drilling Engineer

A. L. Smith W R Richards FOR A.L.S. 4-14-94
Drilling Superintendent

PARG\PRO3161.PRG

DHB

PROPOSED CASING AND CEMENTING PROGRAM

PLATFORM HIDALGO: OCS-P-0450 WELL C - 11 (C-6 R/D) SLOT 3

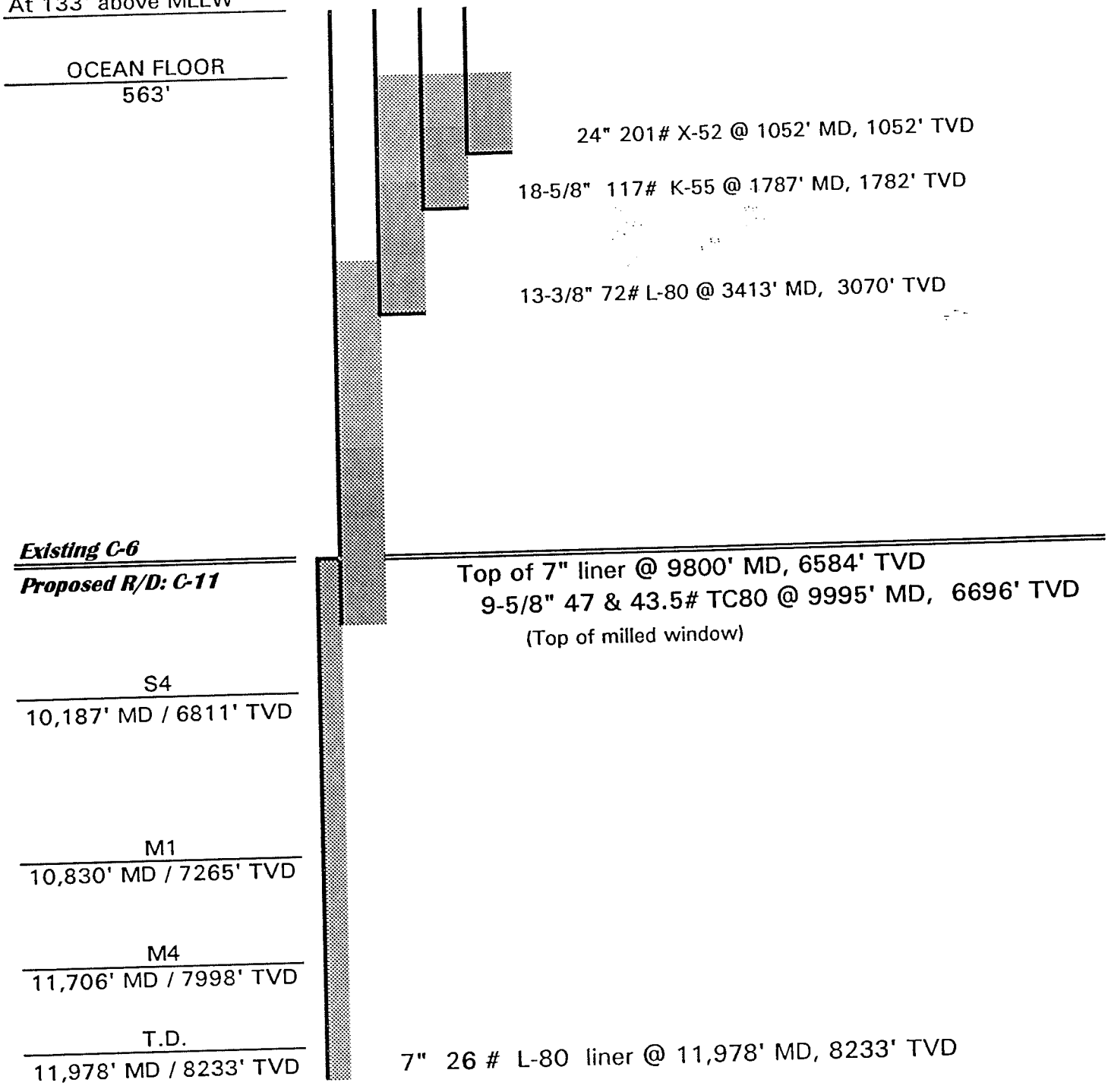
	Size of Hole	Size & Grade of Casing	Weight per ft.	Setting Depth	Cement
EXISTING	30"	24" X-52	201 #	1057'	1824 cu. ft. Class "G"
	22"	18-5/8" K-55	117.5 #	1787'	1778 cu. ft. Class "G"
	17"	13-3/8" L-80	72 #	3413'	2146 cu.ft. Class "G"
	12-1/4"	9-5/8" TC80 & SS95	47 & 43.5#	10,536'	4216 cu.ft. Class "G"
			Proposed top of window:	9995'	
			Proposed KOP:	10000	
PROPOSED	8-1/2"	7" L-80 liner	26#	11978	288 cu.ft. Class "G" + addditives as required Yield: 1.15 cu.ft./sx Wt: 15.8 ppg

Use 25% excess over theoretical

Note: Cement additives will be specified after testing.

PROPOSED CASING & CEMENTING DIAGRAM

Platform Hidalgo: OCS-P-0450 Well C-11 (C-6 R/D) SLOT 3



LLP C11CSGD.XLS 4/13/94

CASING SPECIFICATIONS

Platform Hidalgo: OCS-P-0450 Well C - 11 (C-6 R/D) SLOT 11

Size (in)	24	18-5/8	13-3/8	9-5/8	9-5/8		7
Wt./ft.	201	117	72	43.5	47		26
Grade	X-52	K-55	L-80	TC-80	SS-95		L-80
Threads	RL-4	BUTT	BUTT	HYD 563	ST/L		HYD 521
ID (in)	22.376	17.439	12.347	8.705	8.675		6.276
Drift dia. (in)	22.185	17.251	12.191	8.599	8.599		6.151
Wall thick. (in)	0.812	0.593	0.514	0.435	0.435		0.362
Collapse (psi)	1685	1500	2670	4800	7100		5410
Burst (psi)	2300	3060	5380	6330	6870		7240
Jt. strength (kips)	2433	1929	1650	1076	923	**	631
PE strength (kips)	3074	1848	1661	1005	1086		604

* 69% of PE strength per Atlas Bradford specifications

** 68% of PE strength per Atlas Bradford specifications

SAFETY FACTORS

Collapse	1.80	1.86	1.53	2.27	1.40
Burst	3.43	3.81	2.41	2.61	--
Tension	10.25	7.79	2.54	2.33	12.37

NOTES:

1. ST/L denotes Sealtech super flush joint connection used on top five landing joints only.
2. HYD denotes Hydril wedge thread
3. Load Collapse = Mud wt. * 0.052 * VD of casing
4. Load Burst = MASP (neglect shoe breakdown) (F.)

ANTICIPATED SURFACE PRESSURE

Platform Hidalgo: OCS-P-0450 Well C - 11 (C-6 R/D) SLOT 11

A.	Casing Size (in)	24	18-5/8	13-3/8	9-5/8	7
B.	Setting depth (TVD ft.)	1057	1782	3070	6696	8233
C.	Depth of next casing (TVD ft.)	1782	3070	6696	8233	
D.	Maximum formation pressure (ppg)	8.54	8.54	8.54	8.54	8.54
E.	Maximum formation pressure (psi)	791	1363	2974	3656	
F.	Surface pressure neglecting shoe (psi)	756	1302	2188	2631	
G.	Fracture pressure at shoe (ppg)	9.3	10.0	11.1	13.8	
H.	Fracture gradient at shoe (psi)	0.484	0.520	0.577	0.718	
I.	Fracture pressure at shoe (psi)	511	927	1772	4805	
J.	Average gas gradient (psi/ft)	0.020	0.020	0.117	0.125	
K.	Surface pressure when shoe breaks down (psi)	490	891	1412	3971	
L.	Maximum anticipated surface pressure (psi)	490	891	1412	2631	

D. Based on known maximum reservoir pressure gradients.

E. C * D * 0.052

F. PSurf = C * [(-.161 * S.G.) + (.0488 * D)] + 260

Note: Gas S.G. is 0.65 above 6500' TVD; 0.80 below 6500' TVD

G. Offset data

H. G * 0.052

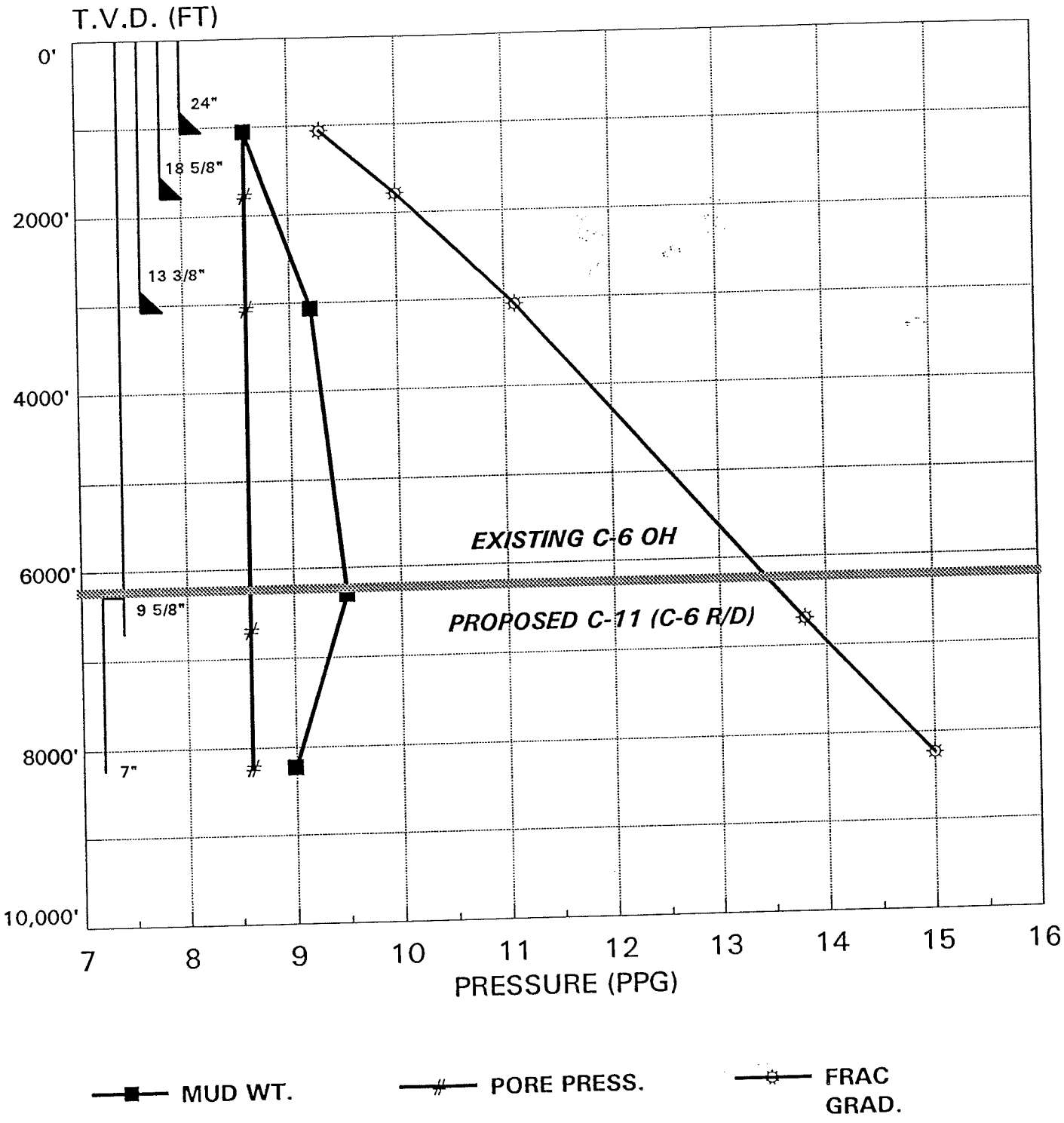
I. H * B

J. (E - F) / C

K. I - (J * B)

L. The smaller of F or K

HIDALGO PROPOSED C-11 (C-6 R/D)
PRESSURE PLOT



LLP B12PPLOT 7/16/93

MUD QUANTITIES

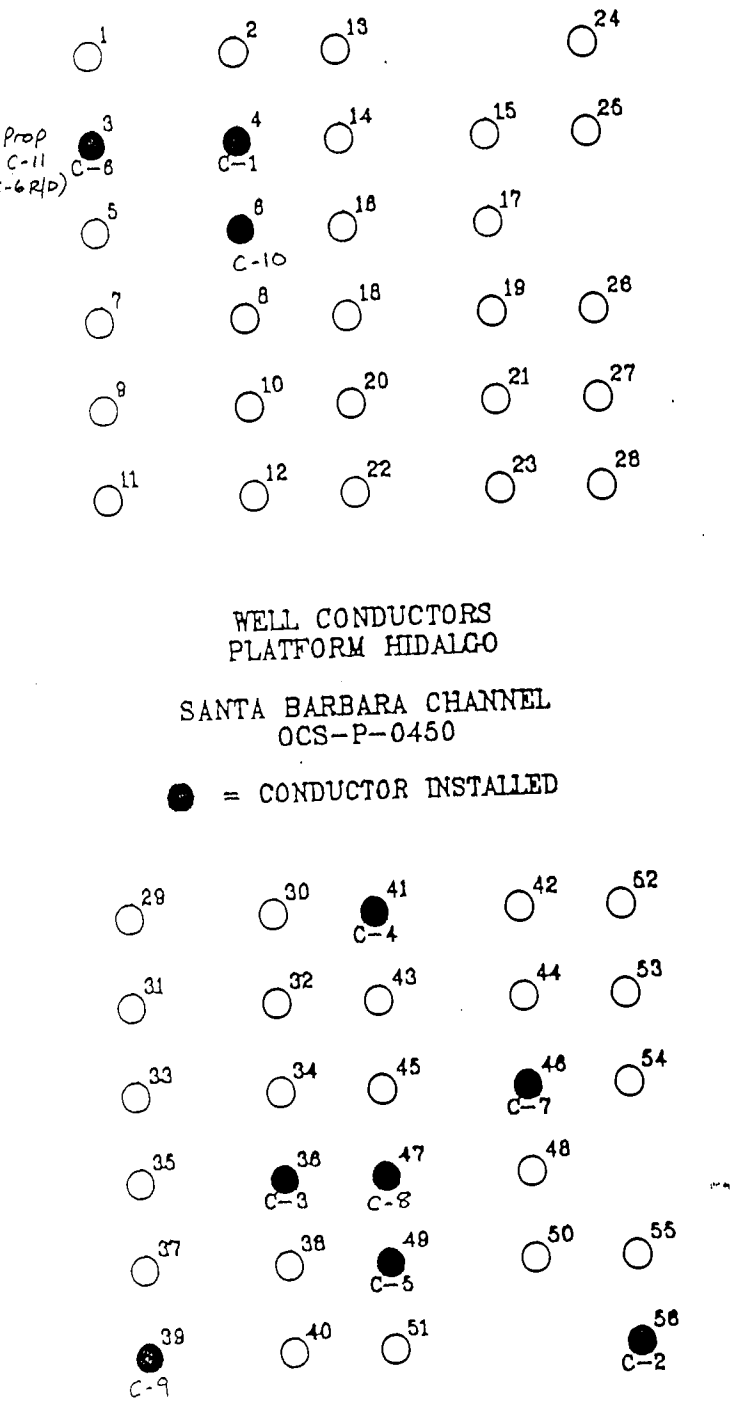
Platform Hidalgo: OCS-P-0450 WELL C - 11 (C-6 R/D) Slot 3

Casing Size to be set	Hole Size	Setting Depth (feet)	Previous Casing Volume (barrels)	Hole Vol. (barrels)	Total Circ. System	Mud Weight (ppg)	Drilling Fluid Formulation Product	Material Required to Make & Maintain Total System SX	Pkg size (lb)
24"	30"	1052					N/A		
18-5/8"	22"	1787					N/A		
13-3/8"	17"	3413					N/A		
9-5/8"	12-1/4"	10536	(Original Hole)				N/A		
		10000	(KOP)						
7"	8-1/2"	11,978	702	139	1341	9.2	XCD Polymer	150	25
							Calcium Carbonate	175	100
							Starch CMS	230	50
							Scaletrol	30 cans	5 gal.can

NOTE: 1. Total circulating system includes 500 bbl active surface system

2. Adequate barite and gel will be kept on location to weight up system to 0.5 ppg above mud weight used to drill the proposed section.

Adequate barite and gel, or in completion interval KCl and CaCO3, will be kept on location to weight up system to 0.5 ppg above mud weight used to drill the proposed section.



CONFIDENTIAL

PT	X	Y	WELL #
1	710,994.69	3,819,243.65	
2	710,996.78	3,819,241.43	
3	710,993.36	3,819,242.40	C-6
4	710,995.44	3,819,240.18	C-1
5	710,992.02	3,819,241.15	
6	710,994.11	3,819,238.93	C-10
7	710,990.69	3,819,239.90	
8	710,992.78	3,819,237.68	
9	710,989.36	3,819,238.65	
10	710,991.44	3,819,236.42	
11	710,988.02	3,819,237.39	
12	710,990.11	3,819,235.17	
13	710,998.24	3,819,239.88	
14	710,996.90	3,819,238.63	
15	710,998.99	3,819,236.40	
16	710,995.57	3,819,237.37	
17	710,997.66	3,819,235.15	
18	710,994.24	3,819,236.12	
19	710,996.33	3,819,233.90	
20	710,992.91	3,819,234.87	
21	710,994.99	3,819,232.65	
22	710,991.57	3,819,233.62	
23	710,993.66	3,819,231.40	
24	711,001.78	3,819,236.10	
25	711,000.45	3,819,234.85	
26	710,997.79	3,819,232.35	
27	710,996.45	3,819,231.09	
28	710,995.12	3,819,229.84	

Prop C-11 (C-6 R/D)

PT	X	Y_	WELL #
29	710,981.81	3,819,231.55	
30	710,983.89	3,819,229.33	
31	710,980.47	3,819,230.30	
32	710,982.56	3,819,228.08	
33	710,979.14	3,819,229.05	
34	710,981.23	3,819,226.82	
35	710,977.81	3,819,227.79	
36	710,979.89	3,819,225.57	C-3
37	710,976.47	3,819,226.54	
38	710,978.56	3,819,224.32	
39	710,975.14	3,819,225.29	C-9
40	710,977.23	3,819,223.07	
41	710,985.35	3,819,227.77	C-4
42	710,987.44	3,819,225.55	
43	710,984.02	3,819,226.52	
44	710,986.11	3,819,224.30	
45	710,982.69	3,819,225.27	
46	710,984.77	3,819,223.05	C-7
47	710,981.35	3,819,224.12	C-8
48	710,983.44	3,819,221.80	
49	710,980.02	3,819,222.76	C-5
50	710,982.11	3,819,220.54	
51	710,978.69	3,819,221.51	
52	710,988.90	3,819,224.00	
53	710,987.57	3,819,222.74	
54	710,986.24	3,819,221.49	
55	710,983.57	3,819,218.99	
56	710,982.24	3,819,217.74	C-2

HIDALGO (1987):
Magnetic Decl: 14° 27'
Grid Correct : 1° 18'
Tot Correct : 13° 09'

14.45
1.3
13.15

N43°13'00"W

1993
Mag 14.39
Grid 1.3
Total 13.09

PORT OF INPUT DATA INCLUDING ANY DEFAULTS ASSUMED:

USER TITLE	: PROPOSED C-11 (C-6 R/D) KOP 10,000' CHEVRON USA PLATFORM HIDALGO
METHOD OF CALCULATION	: VECTOR AVERAGING
INPUT DATA	: DEGREES AND FRACTION OF DEGREES
FIRST OUTPUT DATA OPTION	: COMPLETE SURVEY WITH NO ELLIPSE
SECOND OUTPUT DATA OPTION	: DO NOT LIST AVERAGED ANGLES AND SURVEY STATIONS
CASING FILE OPTION	: DO NOT WRITE CASING FILE
UNIT OF MEASURE	: INPUT/OUTPUT IN FEET
MARKER TABLE OPTION	: WRITE MARKER TABLE
WSEC PLOT FILE OPTION	: WRITE WSEC PLOT FILE

COORDINATE SYSTEM DATA:

COORDINATE SYSTEM	: UNIVERSAL TRANSVERSE MERCATOR CLARKE 1866 SPHEROID ONLY USE WITH CAUTION OUTSIDE N.AMERICAN CONT.
COORDINATE OUTPUT OPTION	: COMPLETE OUTPUT & COORD. TABLE
COORDINATE ZONE	: UTM PROJECTION ZONE 10 NORTHERN HEMISPHERE
"X" COORDINATE	: 710993.36000 (METERS)
"Y" COORDINATE	: 3819242.40000 (METERS)
ANGULAR DIRECTION	: GRID NORTH

DOWNHOLE REFERENCE DATUM:

MEASURED DEPTH	: 10000.0
INCLINATION	: 55.30
DIRECTION (DEG.)	: N 49.77 W
NORTH-SOUTH COORDINATE	: 4259.70
EAST-WEST COORDINATE	: -4885.60
TRUE VERTICAL DEPTH	: 6698.50
ELEVATION OF DERRICK FLOOR	: 133.00 ABOVE SEA-LEVEL
MAP DISTANCE	: 9000.00
AZIMUTH OF BEARING LINE	: N 67 DEG. 0 MIN. W

SURVEY (PE301) - VERSION 2 (11/07/90)

PROPOSED C-11 (C-6 R/D) KOP 10,000' CHEVRON USA PLATFORM HIDALGO

MEAS. DEPTH FEET	DRIFT ANGLE DEGREES	TRUE VERTICAL DEPTH	MAP SECTION FEET	CUMUL. CLOSURE FEET	DIRECTION DEGREES		RECTANGULAR COORDS N IS + S IS -	E IS + W IS -	DOGLEG SEVER. INC/100	VERT. SUBSEA
10000.0	55.30	6698.5	2532.7	6481.8	N 49.77 W		4259.7	-4885.6	0.00	-6565.5
10100.0	52.86	6757.2	6239.7	6562.7	N 53.68 W		4309.9	-4949.1	4.00	-6624.2
10200.0	50.55	6819.1	6316.6	6640.5	N 57.85 W		4354.0	-5013.9	4.01	-6686.1
10300.0	48.40	6884.1	6391.9	6715.1	N 62.29 W		4391.9	-5079.7	4.00	-6751.1
10400.0	46.44	6951.7	6465.4	6786.0	N 67.02 W		4423.5	-5146.1	4.00	-6818.7
10500.0	44.68	7021.7	6536.7	6853.0	N 72.06 W		4448.4	-5213.0	4.00	-6888.7
10600.0	43.16	7093.8	6605.4	6915.8	N 77.39 W		4466.7	-5279.8	4.00	-6960.8
10700.0	41.90	7167.4	6671.1	6974.1	N 83.01 W		4478.3	-5346.3	4.00	-7034.4
10800.0	40.93	7242.4	6733.6	7027.7	N 88.87 W		4483.0	-5412.2	3.99	-7109.4
10900.0	40.26	7318.4	6792.5	7076.5	S 85.06 W		4480.8	-5477.1	4.01	-7185.4
10965.8	40.00	7368.7	6829.3	7105.9	S 81.00 W		4475.7	-5519.2	4.00	-7235.7
11000.0	38.63	7395.1	6847.6	7120.4	S 81.00 W		4472.3	-5540.6	4.01	-7262.1
11065.8	36.00	7447.5	6881.4	7147.2	S 81.00 W		4466.1	-5580.0	4.00	-7314.5
11100.0	34.63	7475.4	6898.2	7160.5	S 81.00 W		4463.0	-5599.5	4.01	-7342.4
11165.8	32.00	7530.3	6928.9	7184.9	S 81.00 W		4457.3	-5635.2	4.00	-7397.3
11200.0	30.63	7559.6	6943.9	7197.0	S 81.00 W		4454.6	-5652.8	4.01	-7426.6
11215.8	30.00	7573.2	6950.7	7202.4	S 81.00 W		4453.3	-5660.6	3.99	-7440.2
11500.0	30.00	7819.3	7071.2	7299.7	S 81.00 W		4431.1	-5801.0	0.00	-7686.3
11705.9	30.00	7997.6	7158.5	7371.1	S 81.00 W		4415.0	-5902.7	0.00	-7864.6
11978.0	30.00	8233.3	7273.9	7466.6	S 81.00 W		4393.7	-6037.0	0.00	-8100.3

ROPOSED C-11 (C-6 R/D) KOP 10,000' CHEVRON USA PLATFORM HIDALGO 04/13/94

COORDINATE SYSTEM OUTPUT

MEAS. DEPTH FEET	TRUE VERTICAL DEPTH	UTM COORDINATES (METERS) NORTHERN HEMISPHERE TRUE NORTH	TRUE EAST
0000.0	6698.5	3820540.9	709504.0
0100.0	6757.2	3820556.2	709484.7
0200.0	6819.1	3820569.7	709464.9
0300.0	6884.1	3820581.3	709444.8
0400.0	6951.7	3820590.9	709424.6
0500.0	7021.7	3820598.5	709404.2
0600.0	7093.8	3820604.1	709383.8
0700.0	7167.4	3820607.6	709363.6
0800.0	7242.4	3820609.0	709343.5
0900.0	7318.4	3820608.4	709323.7
0965.8	7368.7	3820606.8	709310.9
1000.0	7395.1	3820605.8	709304.3
1065.8	7447.5	3820603.9	709292.3
1100.0	7475.4	3820602.9	709286.4
1165.8	7530.3	3820601.2	709275.5
1200.0	7559.6	3820600.3	709270.1
1215.8	7573.2	3820600.0	709267.7
1500.0	7819.3	3820593.2	709225.0
1705.9	7997.6	3820588.3	709194.0
1978.0	8233.3	3820581.8	709153.0

NOTE : PLOTTER INPUT DATA FILE CREATED WITH SAME FILENAME AS INPUT FILE AND FILETYPE OF PLOT

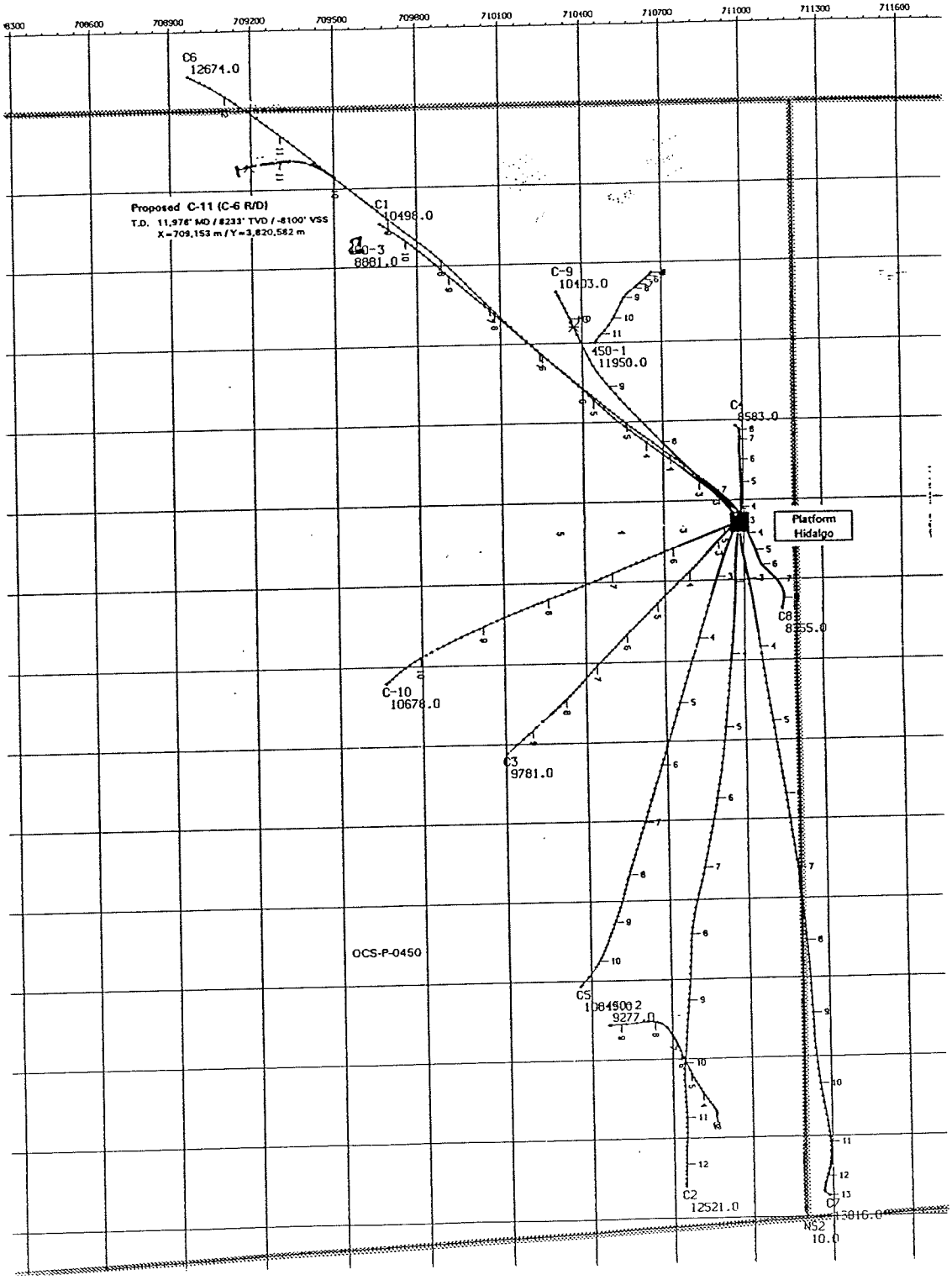
Platform Hidalgo - Chevron USA

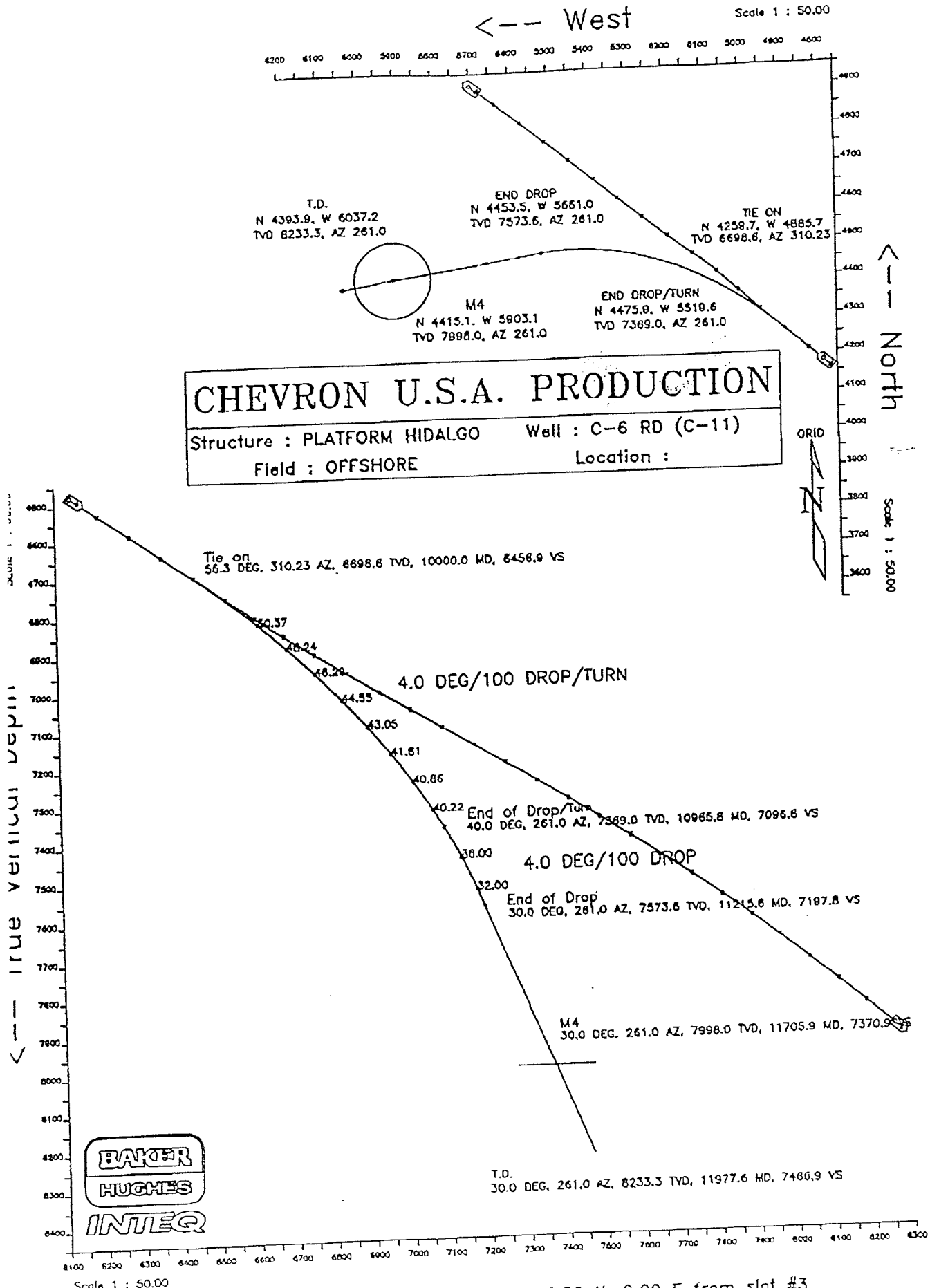
OCS-P-0450 # C - 11 (C-6 R/D)

Proposed Well Course - Map View

UTM Zone 10 - NAD 27 - Slot 3

1" = 2000' (Adjacent wells shown)





Vertical Section on 306.05 azimuth with reference 0.00 N, 0.00 E from slot #3

PROPOSED FORMATION EVALUATION PROGRAM

PLATFORM HIDALGO: OCS-P-0450 WELL C - 11 (C-6 R/D) SLOT 3

Logging Program:

1. **From 10,000' (KOP) to 11,978' MD (T.D.)**
   Lower Sisquoc and Monterey Formations
   - Dual Laterolog - SP - Full Waveform Sonic
   - LithoDensity - Neutron - Spectral Gamma Ray
   - Dipmeter - GR

2. **Cased Hole**
   - Cement Bond Log

Coring: No SWS.
No conventional cores.

Mud Logging: Begin mudlogging @ 10,000' (KOP), collect samples @ 30' intervals.

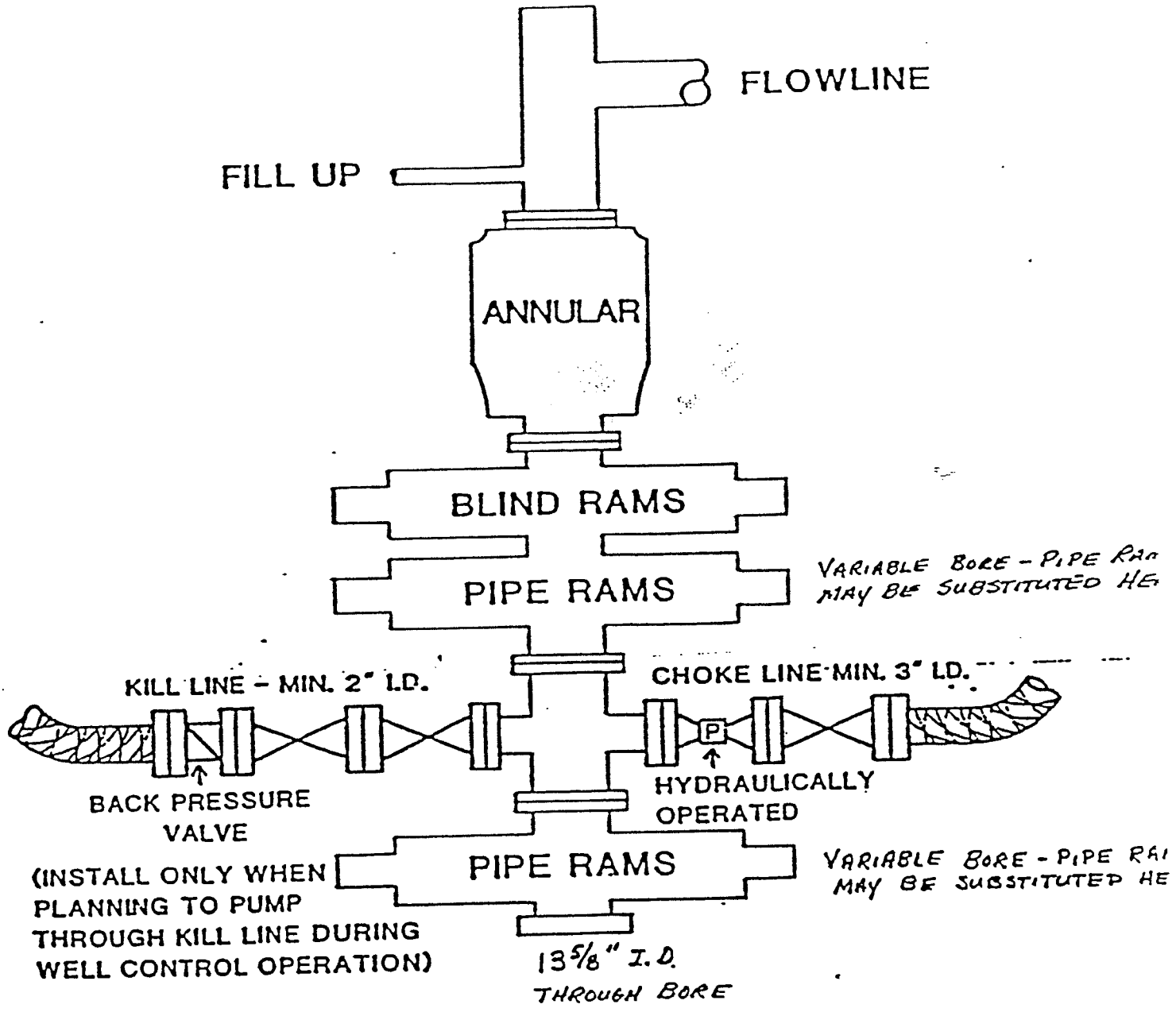
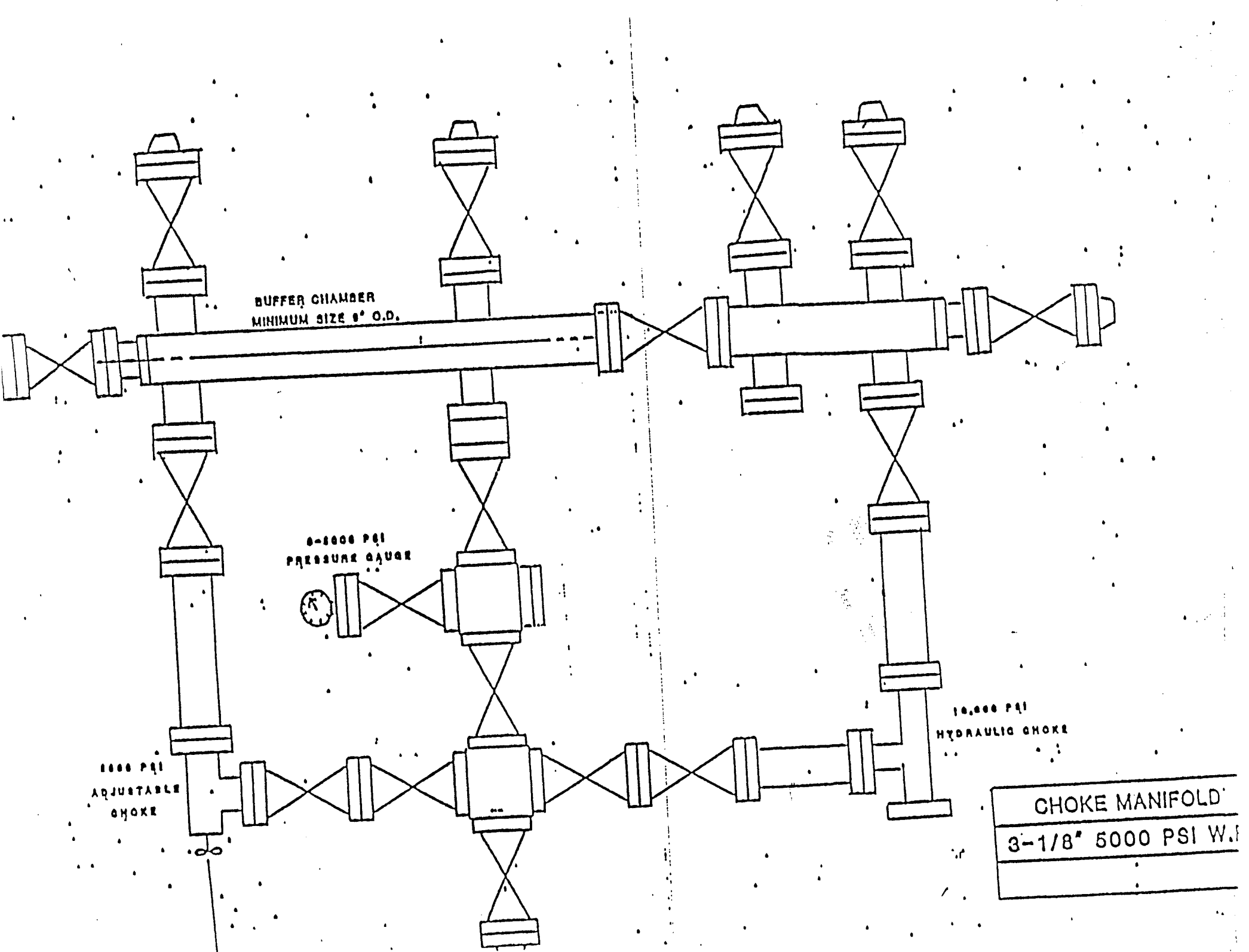
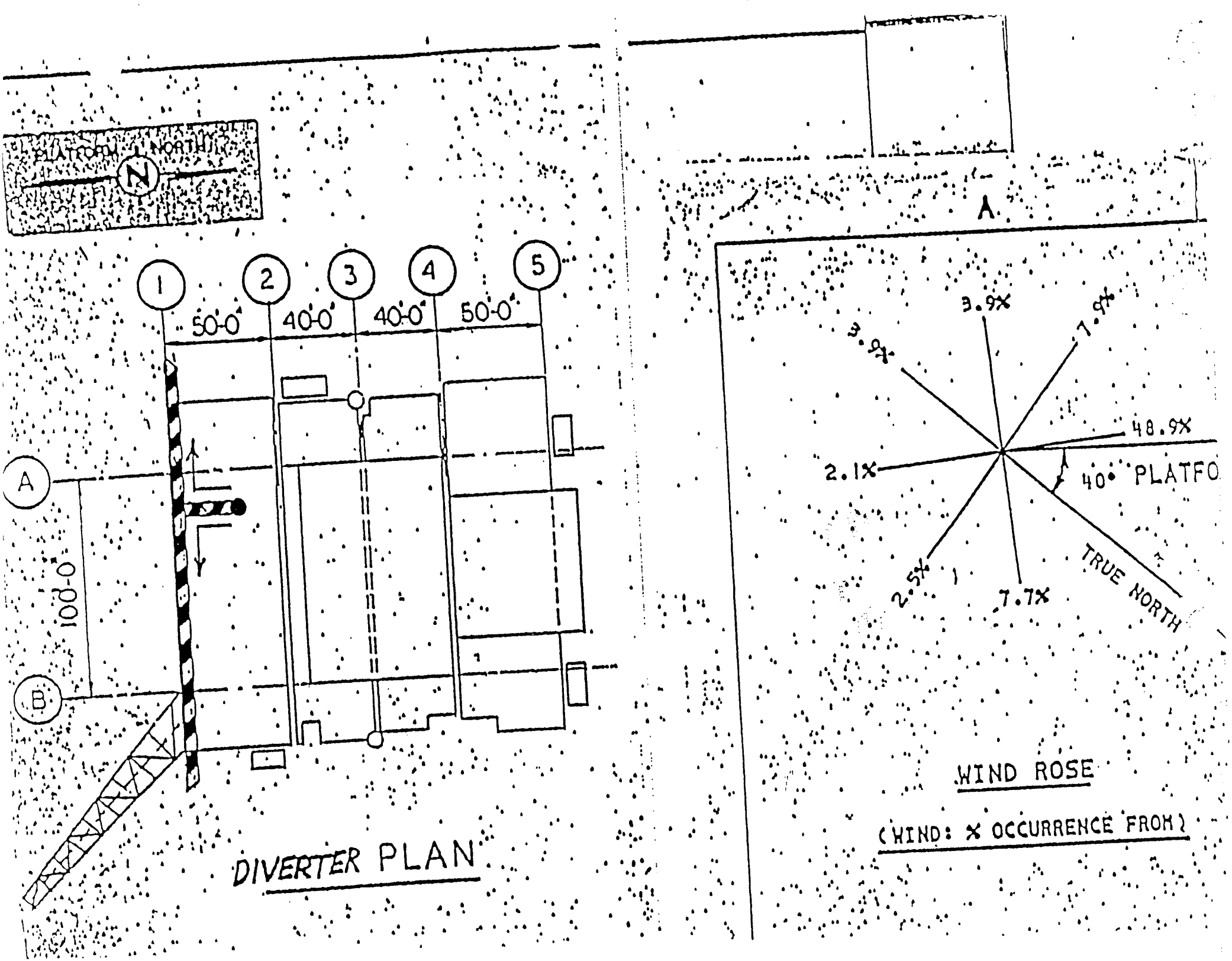


FIGURE 1

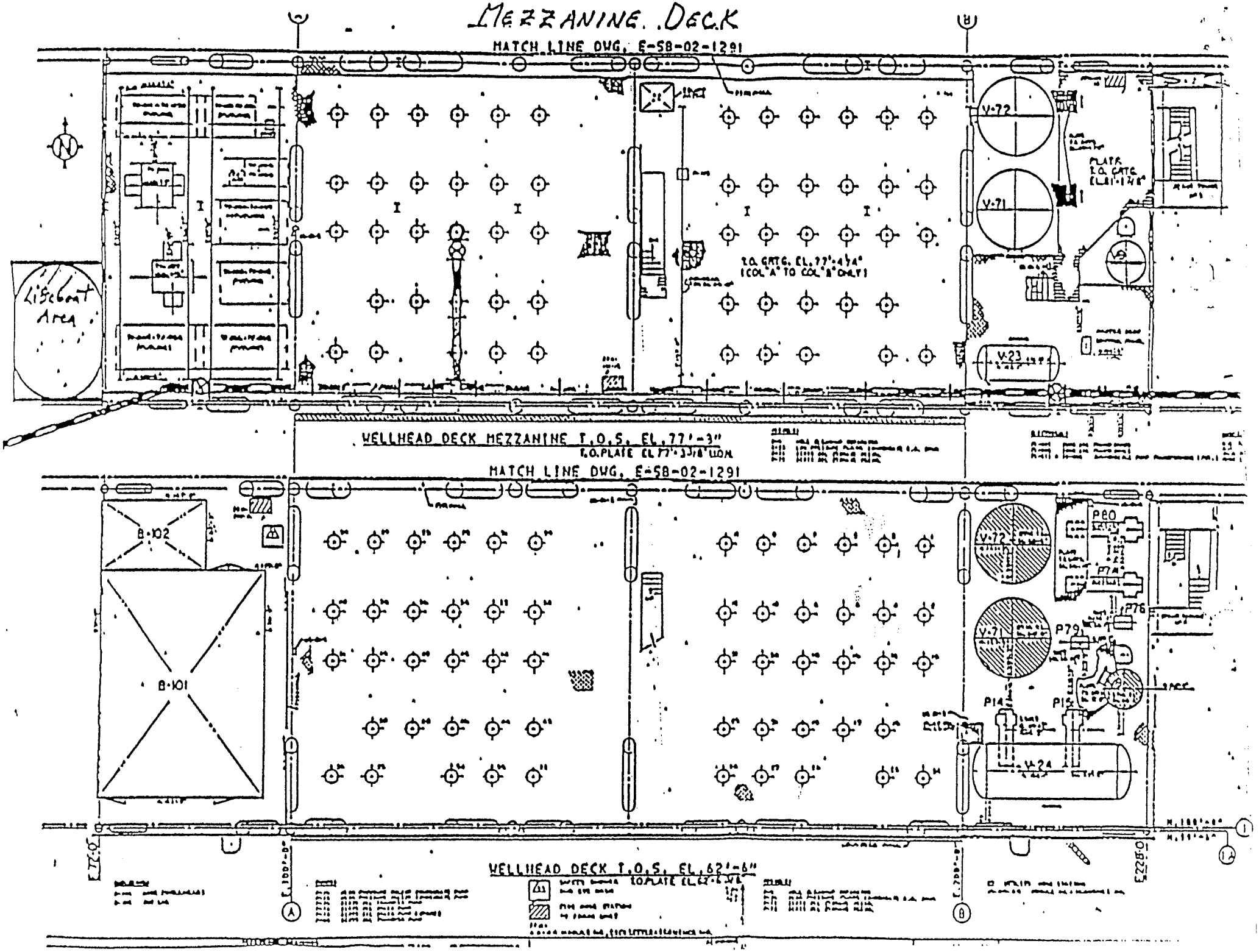
13 5/8", 5000 PSI

BOP STACK


BUFFER CHAMBER
MINIMUM SIZE 8" O.D.
0-5000 PSI
PRESSURE GAUGE
5000 PSI
ADJUSTABLE
CHOKE
10,000 PSI
HYDRAULIC CHOKE
CHOKE MANIFOLD
3-1/8" 5000 PSI W.P


PLATFORM NORTH
N
1
2
3
4
5
50'-0"
40'-0"
40'-0"
50'-0"
A
B
100'-0"
A
3.9%
3.9%
7.9%
48.9%
2.1%
40° PLATFO
2.5%
7.7%
TRUE NORTH
WIND ROSE
(WIND: % OCCURRENCE FROM)
DIVERTER PLAN

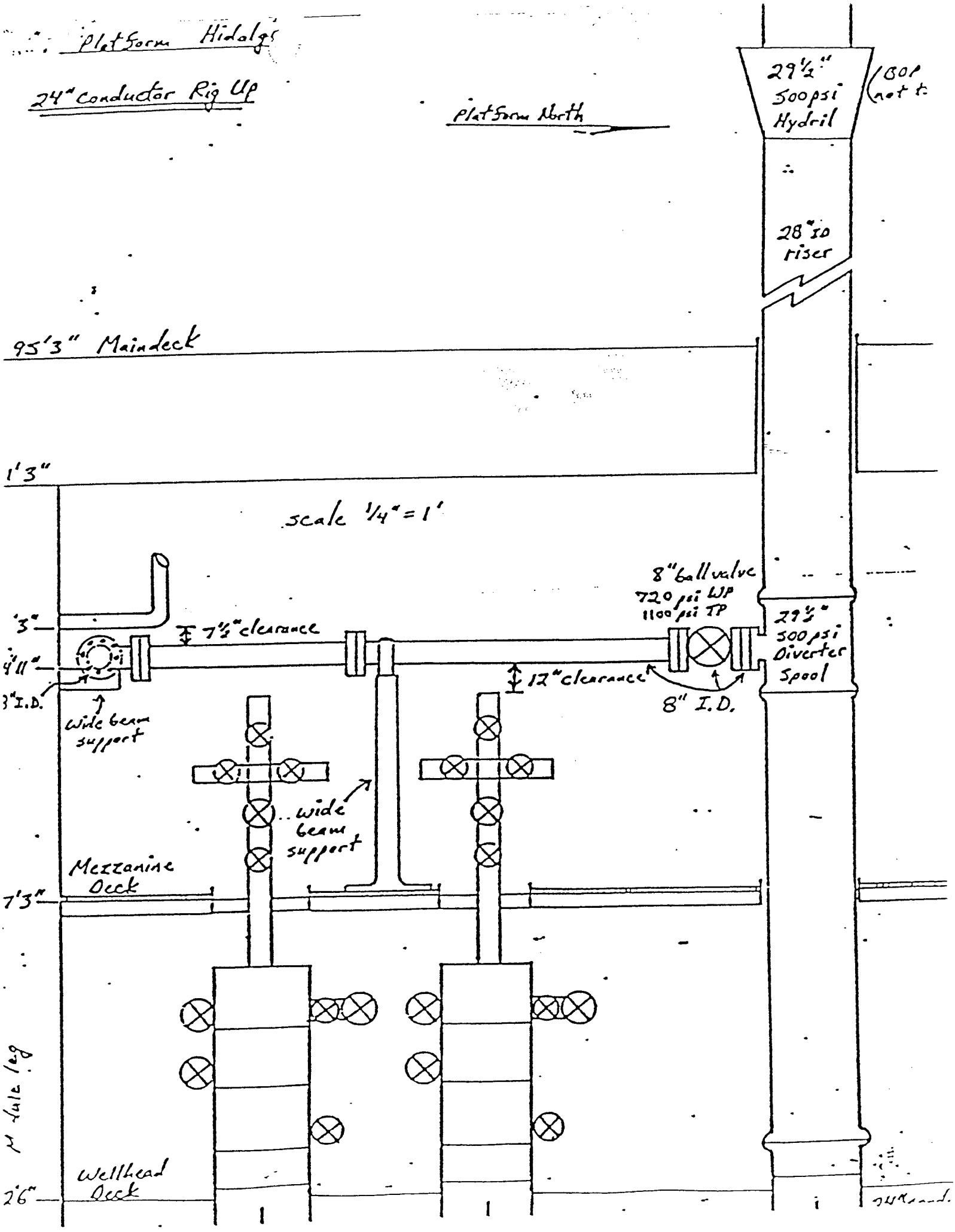
MEZZANINE DECK



Platform Hidalgo

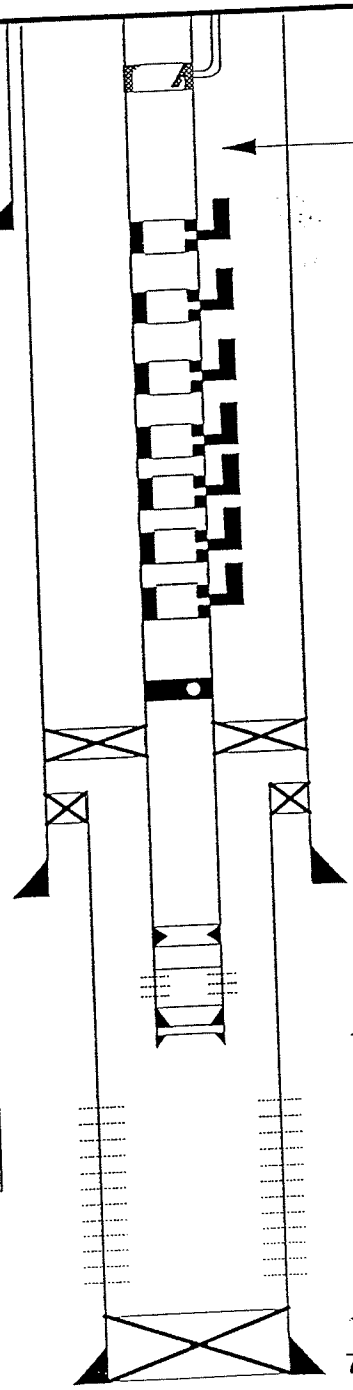
24" conductor Rig Up

Platform North



D.F. ELEVATION	133'	FIELD	Point Arguello
D.F. TO TBG. HEAD	61.43	LEASE	OCS-P-0450
WATER DEPTH	430'	WELL	C-6
TREE	F.M.C. Inc.	COMPLETION DATE	3/21/92
5000	PSI W.P.	WORKOVER	

CURRENT



24" 201.1# @ 1057'

18-5/8" 117.5# @ 1787'

13-3/8" 72# @ 3412'

685' Baker FV-6 Tbg. Ret. SSSV with F profile (2.81" ID)

3-1/2" 9.3# L-80 Hydril 501 Tbg.

PERFORMATIONS

FORM.		M.D.	V.S.S.
S5	■	10920'-10985'	-7055'- -7089'
S5	◆	10985'-11007'	-7089'- -7100'
S5	■	11007'-11067'	-7100'- -7132'
S5	◆	11067'-11090'	-7132'- -7144'
S5	◆	11153'-11172'	-7176'- -7188'
S5	■	11184'-11202'	-7194'- -7204'
S5	◆	11202'-11225'	-7204'- -7216'
S5	◆	11255'-11275'	-7232'- -7243'
S5,M1	■	11275'-11315'	-7243'- -7265'
M1	◆	11325'-11335'	-7270'- -7276'
M1	◆	11368'-11395'	-7293'- -7309'
M1	◆	11434'-11448'	-7330'- -7338'
M1	■	11448'-11492'	-7338'- -7362'
M1	◆	11492'-11502'	-7362'- -7368'
M1	■	11538'-11598'	-7389'- -7423'
M2	◆	11589'-11650'	-7423'- -7453'
M2	◆	11752'-11796'	-7515'- -7540'
M2	◆	11818'-11828'	-7555'- -7562'
M2	◆	11863'-11890'	-7584'- -7600'
M2	◆	11914'-11925'	-7615'- -7622'
M2	◆	11992'-12009'	-7664'- -7675'
M2	◆	12016'-12062'	-7678'- -7709'
M2	◆	12076'-12093'	-7717'- -7729'
M2&3	◆	12150'-12190'	-7767'- -7793'
M3	◆	12240'-12375'	-7826'- -7914'
M3	◆	12395'-12435'	-7927'- -7953'
M3	◆	12449'-12469'	-7962'- -7975'
M4	◆	12486'-12506'	-7986'- -7999'
M4	◆	12520'-12560'	-8007'- -8032'
M4	*	12540'-12550'	-8020'- -8026'

SEPT 23RD 1993

■ 0.40" dia. @ 4 SPF, 60-90 Deg Phasing

◆ 0.31" dia. @ 4 SPF, 0 Deg Phasing (Strip Gun)

* 0.33" dia. @ 4 SPF, 180 Deg Phasing(Pivot Gun)

GAS LIFT

CAMCO MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
1900'	1891'	1125	1/4"
3813'	3290'	1090	1/4"
5478'	4197'	1068	1/4"
6916'	4948'	1047	1/4"
7994'	5547'	1030	1/4"
8865'	6046'	1014	1/4"
9650'	6497'	ORIFICE	5/16"

9964' Baker 'L' Sliding Sleeve w/ 'F' Profile (2.81" ID)

10005' Baker 'HB' Packer (40K Shear)

T.O.L. @ 10133'

9-5/8" 43.5# @ 10536'

10310' Baker 'F' Nipple (2.75" ID)
10341' Perf'd Pup (10' Pup)
10351' Perf'd Pup (10' Pup)
10360' Baker 'R' Nipple (2.697" ID)
10391' W/L Re-entry Guide

12587' Cement Plug

7" 26# @ 12670'

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	11295'	-7254'
M2-Top	11721'	-7495'
M3-Top	12182'	-7788'
M4-Top	12485'	-7985'

DIRECTIONAL DATA

VERTICAL TO 1500'

MAX ANGLE 60 @ 6600' AND

53 @ _____ TD

PBTD 12587

TD 12674' (-8100)

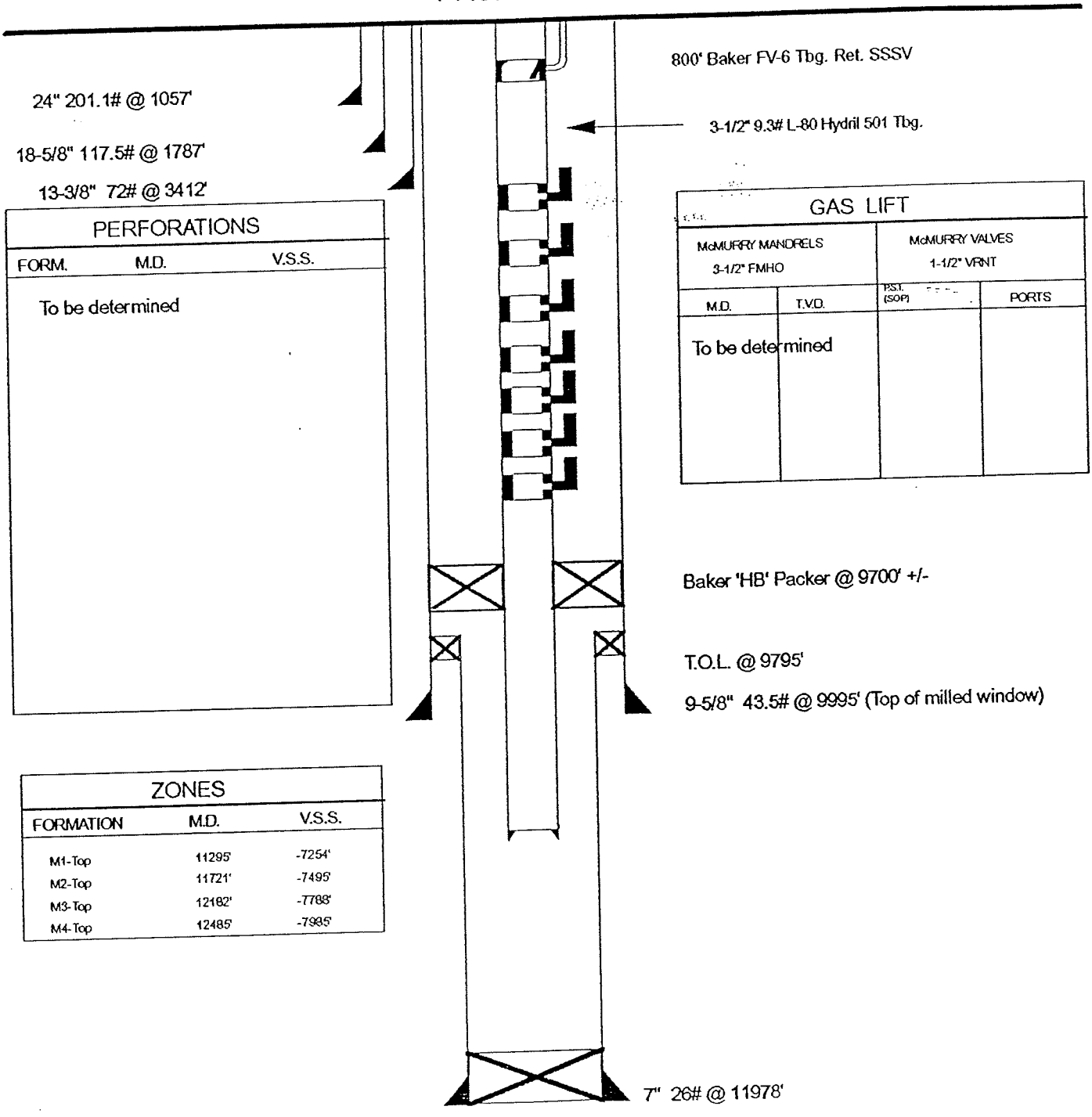
DATE 9/23/93

BY TAR

D.F. ELEVATION 133'
D.F. TO TBG. HEAD 61.43
WATER DEPTH 430'
TREE
5000 PSI W.P.

FIELD Point Arguello
LEASE OCS-P-0450
WELL C-11 (C-6 Redrill)
COMPLETION DATE
WORKOVER

PROPOSED



PERFORATIONS

FORM.	M.D.	V.S.S.
To be determined		

GAS LIFT

McMURRY MANDRELS 3-1/2" FMHO		McMURRY VALVES 1-1/2" VRNT	
M.D.	T.V.D.	P.S.I. (SOP)	PORTS
To be determined			

ZONES

FORMATION	M.D.	V.S.S.
M1-Top	11295'	-7254'
M2-Top	11721'	-7495'
M3-Top	12182'	-7788'
M4-Top	12485'	-7985'

DIRECTIONAL DATA

VERTICAL TO _____'
MAX ANGLE ____ @ _____' AND
____ @ _____'. TD

PBTD _____'
TD _____

DATE 4/13/94
BY VDK

SANTA MARIA DISTRICT OCS OPERATIONS
CONDITIONS OF APPROVAL TO DRILL FOR OIL AND GAS
DEVELOPMENT WELLS

Operator: Chevron Date: 04-18-94

Platform: Hidalgo Unit: Pt. Arguello Field: Pt. Arguello

Lease: OCS-P 0450 Well No.: C-11 (C-6 R/D) Slot No.: #3

API Well No.: 56-045-20067-01

1. The date drilling is started shall be reported promptly to the District Supervisor.

2. When changes are proposed in the approved Application for Permit to Drill (APD), Form MMS-124, "Sundry Notices and Reports on Wells" must be submitted in triplicate to the District Supervisor. One public information copy shall also be submitted. When verbal approval has been obtained, the sundry notice shall be filed promptly thereafter.

3. Any unusual occurrences, such as fires, serious injury to personnel, loss of equipment or debris overboard, damage to surface or subsurface equipment, well control problems, pollution, or major equipment failure, shall be reported without delay to the District Supervisor by telephone, and a full written report shall be filed within 10 days.

4. A drilling and progress report shall be called (805/922-7958) or telefaxed (805/925-8546) into the District Office daily, prior to 9:00 a.m.

5. Diesel fuel or other oil-based substances (including mineral oil) shall not be added to the drilling mud system without prior approval by the District Supervisor.

6. Before a completion program is commenced or the hole is abandoned, the District Supervisor shall be allowed sufficient time to examine well records and give separate approval for this portion of the drilling program.

7. The Notice of Intent to Abandon a well shall be submitted on Form MMS-124 as outlined in 30 CFR 250.111, notwithstanding any verbal approval that may have been granted by the District Supervisor. This includes wells that are to be temporarily abandoned prior to reaching total depth or wells that have not yet been completed in any zone. A Subsequent Report, Form MMS-124, shall be submitted not later than 30 days after completion of the approved work. Public information copies shall be submitted in accordance with 30 CFR 205.17.

8. A Completion Report, Form MMS-125, shall be submitted in duplicate no later than 30 days after completion of each new zone in the well. Public information copies shall be submitted in accordance with 30 CFR 250.17. The pertinent and applicable reports and logs required under 30 CFR 250.66 will be properly and timely submitted.

9. Two copies of a final composite directional survey and report shall be submitted within 30 days of completion of the well.

10. Two copies of interim directional survey reports shall be submitted as soon as available.

11. MWD logs shall be submitted to the District Supervisor as follows:

    a. Two copies of MWD logs submitted weekly.

    b. Two copies of composite final MWD log(s) and the MWD service company final well report shall be submitted within 30 days of well completion.

12. Mud logs shall be submitted to the District Supervisor as follows:

    a. Two copies of formation evaluation logs to date shall be submitted at least weekly. This may include partial sheets as necessary.

    b. Two copies of available auxiliary logs, such as pressure evaluation, drilling data pressure, and temperature logs shall also be submitted.

    c. Two copies of composite final log(s) and the mud logger's report shall be submitted within 30 days of well completion.

13. Wire line logs shall be submitted to the District Supervisor as follows:

    a. Two copies of all field prints of individual runs of electric, radioactive and other logs (at appropriate scales, usually 2" and 5") and velocity survey information shall be submitted promptly after logging.

    b. Two copies of computed surveys, such as dipmeter and velocity checkshot data, shall be submitted as soon as available.

    c. Two copies of final composite prints of all log runs and final computed logs shall be submitted within 30 days of well completion.

    d. If log data has been recorded and processed on magnetic tape, one copy of the processed digitized well log data shall be submitted within 30 days of well completion, formatted according to Notice to Lessees 86-01.

    e. The identity of rock units in time-stratigraphic terms shall be established by showing, as accurately as the present state of knowledge allows, the depths to the

top of the upper Pliocene, middle Pliocene, lower Pliocene, upper Miocene, middle Miocene, etc., as appropriate, on the completion report or on a final print of a marked electric log.

14. Cores and Coring Operations

When sidewall cores are taken, the following requirements shall be met:

a. The number of cores attempted, recovered, and misfired, and depth interval over which cores were taken shall be reported to the District Office on the next daily drilling report.

b. Two copies of the well site description of cores shall be submitted promptly after coring.

c. Two copies of the core analysis report shall be submitted within 30 days of well completion.

When a conventional core is taken, the following requirements shall be met:

a. The amount of core recovered and coring depth interval shall be reported to the District Office on the next daily drilling report.

b. Two copies of the well site core description shall be submitted promptly after coring.

c. Two copies of the core analysis report including core description and core photos (if available) shall be submitted within 30 days of well completion.

Upon request, sidewall core samples and conventional core slabs shall be made available for MMS use.

15. Upon request, washed samples or paleontological slides shall be made available to MMS.

16. Prior to cementing the 9 5/8" casing, appropriate well data (i.e., mud logs, etc.) shall be reviewed with the District Supervisor in order to determine the presence of hydrocarbons above the Monterey. This review shall provide the information necessary for the District Supervisor to ensure compliance with 30 CFR 250.54(e).

17. Notification of final mud dump shall be provided to the District Supervisor at least 48 hours in advance to allow for possible sampling.

18. This APD is approved subject to the requirement that, should the well be successfully completed for production or recompleted and production resumed after being off of production more than 90 days, this office must be notified when it is placed in a producing status. Such notification may be provided orally if confirmed in writing and

must be received in this office by no later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following information items:

a. Operator's name.

b. Platform name and well number.

c. Date well began or resumed production.

d. The lease and, if applicable, unit participating area to which the well's production is attributable.

19. This APD is valid for one year from the date it is approved.

CONDITION OF APPROVAL

The MMS is currently assessing the performance of blowout preventer (BOP) equipment used in the OCS. The MMS will gather BOP test data from drilling operations conducted during the next several months. The MMS will use this data to evaluate the current testing and maintenance requirements for BOP equipment.

The lessee/operator is directed to submit copies of BOP test data to MMS for each test. Test data includes BOP pressure test charts and BOP test reports. Problems or irregularities observed during BOP testing, and any actions taken to remedy such problems or irregularities, should be noted and included with the test data. Copies of all data must be legible.

Data from individual BOP tests should be held until after the completion of drilling activities. Within 30 days after completion of drilling activities, test data for the entire well will be collected offshore by MMS inspectors and sent to the following address by the MMS District:

Minerals Management Service
Attention: William S. Hauser
MS 4700
381 Elden Street
Herndon, VA 22070-4817

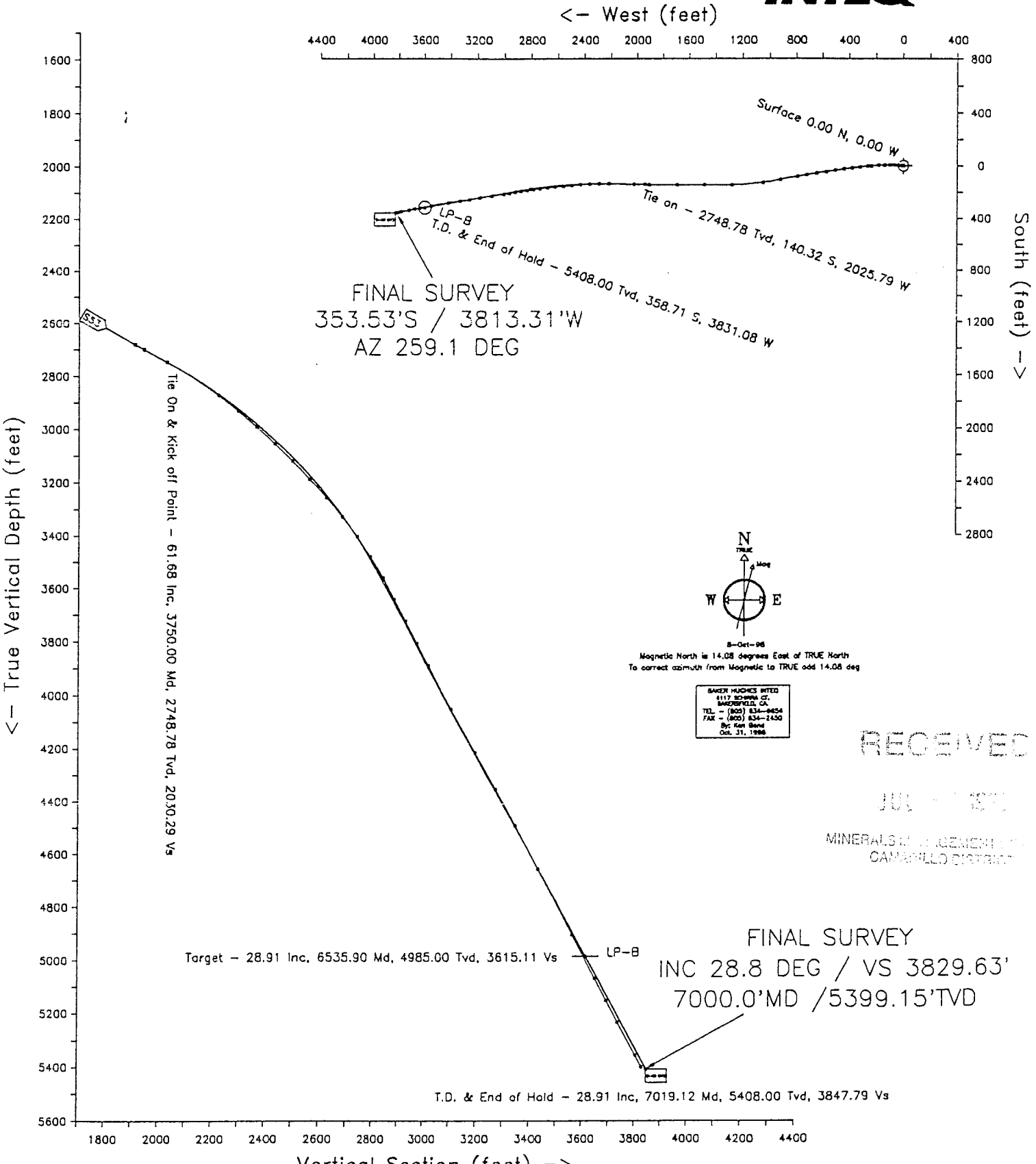
This data collection is authorized under 30 CFR 250.57(h)(4) and 250.66(c).

TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : S-89 (A1)

Field : OFFSHORE SANTA BARBARA Location : CALIFORNIA

BAKER HUGHES INTEQ



RECEIVED
JUL
MINERALS MANAGEMENT
CAMARILLO DISTRICT

Azimuth 264.96 with reference 0.00 N, 0.00 E from S-53/S-89

P 0216 S-89

04-311-20605-01

SIDETRACK OF S-53

TORCH OPERATING COMPANY
PLATFORM GILDA

S53
S-53/S-89
OFFSHORE SANTA BARBARA
CALIFORNIA

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : S-89
Our ref : svy5948
License :

Date printed : 31-Oct-96
Date created : 28-Oct-96
Last revised : 31-Oct-96

Field is centred on n34 10 56.434,w119 25 6.83
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.608,w119 25 7.415
Slot Grid coordinates are N 748007.988, E 1041684.351
Slot local coordinates are 17.50 N 49.20 W

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 W	0.00	0.00
50.00	0.25	285.13	50.00	0.03 N	0.11 W	0.50	0.10
100.00	0.17	308.65	100.00	0.10 N	0.27 W	0.23	0.26
150.00	0.25	30.45	150.00	0.24 N	0.27 W	0.56	0.25
200.00	0.28	27.57	200.00	0.45 N	0.16 W	0.07	0.12
250.00	0.23	349.67	250.00	0.65 N	0.12 W	0.34	0.06
300.00	0.25	47.27	300.00	0.83 N	0.06 W	0.46	-0.01
350.00	0.23	48.42	350.00	0.97 N	0.10 E	0.04	-0.18
400.00	0.25	33.17	400.00	1.12 N	0.23 E	0.13	-0.33
450.00	0.22	20.63	450.00	1.31 N	0.32 E	0.12	-0.44
500.00	0.25	24.23	500.00	1.49 N	0.40 E	0.07	-0.53
550.00	0.25	56.85	550.00	1.65 N	0.54 E	0.28	-0.68
600.00	0.17	13.55	600.00	1.79 N	0.65 E	0.34	-0.80
650.00	1.33	301.17	649.99	2.16 N	0.17 E	2.58	-0.36
700.00	0.33	315.27	699.98	2.56 N	0.43 W	2.03	0.20
789.00	3.75	260.00	788.92	2.24 N	3.48 W	4.01	3.27
877.00	6.50	268.75	876.56	1.63 N	11.29 W	3.24	11.11
1061.00	13.83	276.50	1057.55	3.89 N	43.60 W	4.04	43.09
1151.00	18.00	273.50	1144.09	5.96 N	68.18 W	4.72	67.39
1243.00	22.50	268.50	1230.39	6.37 N	99.98 W	5.24	99.04
1335.00	26.00	269.25	1314.25	5.64 N	137.76 W	3.82	136.73
1426.00	30.25	269.00	1394.49	4.98 N	180.64 W	4.67	179.50
1531.00	34.75	263.25	1483.05	1.00 N	236.84 W	5.19	235.84
1577.00	36.40	264.80	1520.46	1.78 S	263.46 W	4.09	262.59
1671.00	38.10	264.50	1595.28	7.09 S	320.10 W	1.82	319.49
1762.00	41.10	262.40	1665.39	13.73 S	377.71 W	3.61	377.46
1853.00	44.10	263.10	1732.37	21.50 S	438.81 W	3.34	439.00
1946.00	47.60	260.60	1797.14	31.00 S	504.84 W	4.23	505.61
2038.00	51.70	260.90	1856.70	42.26 S	574.03 W	4.46	575.52
2130.00	55.10	260.20	1911.54	54.39 S	646.87 W	3.75	649.15
2221.00	59.20	260.60	1960.89	67.13 S	722.23 W	4.52	725.34
2304.00	61.80	260.20	2001.76	79.18 S	793.45 W	3.16	797.34
2456.00	61.10	257.80	2074.41	104.65 S	924.50 W	1.46	930.12
2606.00	57.70	262.40	2150.79	126.92 S	1051.61 W	3.48	1058.69
2879.00	57.00	269.70	2298.21	142.80 S	1280.67 W	2.27	1288.26
3124.00	57.70	269.70	2430.39	143.88 S	1486.95 W	0.29	1493.84
3369.00	59.10	270.10	2558.77	144.23 S	1695.62 W	0.59	1701.73
3611.00	60.10	270.80	2681.23	142.59 S	1904.34 W	0.48	1909.50
3649.00	60.60	270.80	2700.02	142.13 S	1937.36 W	1.32	1942.35
3750.00	61.68	271.54	2748.78	140.32 S	2025.79 W	1.25	2030.29
3980.00	52.90	270.00	2872.96	137.58 S	2219.10 W	3.86	2222.60
4074.00	50.60	270.00	2931.15	137.58 S	2292.91 W	2.45	2296.13
4167.00	48.30	266.50	2991.61	139.70 S	2363.52 W	3.78	2366.65
4261.00	45.80	265.10	3055.66	144.72 S	2432.13 W	2.87	2435.44
4353.00	44.40	264.70	3120.60	150.51 S	2497.04 W	1.55	2500.61
4446.00	42.00	265.40	3188.39	156.02 S	2560.46 W	2.63	2564.26
4538.00	41.10	264.70	3257.24	161.28 S	2621.25 W	1.10	2625.28
4631.00	37.80	264.00	3329.04	167.08 S	2680.05 W	3.58	2684.36
4724.00	35.70	263.30	3403.55	173.23 S	2735.35 W	2.30	2739.99
4817.00	32.60	262.60	3480.51	179.62 S	2787.15 W	3.36	2792.16

All data is in feet unless otherwise stated.
Coordinates from S-53/S-89 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 3829.67 on azimuth 264.70 degrees from wellhead.
Vertical section is from wellhead on azimuth 264.96 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect
4911.00	29.00	260.90	3561.24	186.49 S 2834.78 W	3.94	2840.20
5004.00	28.70	260.20	3642.70	193.86 S 2879.04 W	0.49	2884.94
5098.00	28.60	260.20	3725.19	201.53 S 2923.46 W	0.11	2929.86
5192.00	28.10	260.20	3807.91	209.12 S 2967.44 W	0.53	2974.34
5286.00	28.80	260.90	3890.56	216.47 S 3011.61 W	0.82	3018.99
5470.00	28.30	261.60	4052.19	229.86 S 3098.53 W	0.33	3106.74
5657.00	29.50	260.50	4215.90	243.93 S 3187.79 W	0.70	3196.90
5814.00	28.20	260.50	4353.41	256.43 S 3262.51 W	0.83	3272.42
5971.00	27.80	261.90	4492.03	267.71 S 3335.34 W	0.49	3345.96
6158.00	27.80	261.20	4657.45	280.53 S 3421.61 W	0.17	3433.02
6438.00	28.30	258.40	4904.57	303.87 S 3551.16 W	0.50	3564.12
6624.00	27.20	260.20	5069.18	319.97 S 3636.24 W	0.74	3650.29
6718.00	28.50	259.50	5152.29	327.71 S 3679.46 W	1.43	3694.03
6810.00	29.10	258.90	5232.91	336.02 S 3723.00 W	0.72	3738.12
6950.00	28.90	259.10	5355.35	348.97 S 3789.62 W	0.16	3805.63
7000.00	28.80	259.10	5399.15	353.53 S 3813.31 W	0.20	3829.63

All data is in feet unless otherwise stated.
Coordinates from S-53/S-89 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 3829.67 on azimuth 264.70 degrees from wellhead.
Vertical section is from wellhead on azimuth 264.96 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
LP-B	1038075.000,747800.000,0.0000	4878.00	317.54S	3601.14W	6-Aug-96

04/17/13 mrb

			0216S-89			
1037408.38	747127.63	-5334.98	7000.00	0216S-89	GILDA	89

1037891 based on Company directional

747654 based on Company directional

which references true north

0216S-89

1041684.00	748008.00	0.00	0.00	0216S-89	GILDA	89
1041683.88	748008.00	-50.00	50.00	0216S-89	GILDA	89
1041683.75	748008.13	-100.00	100.00	0216S-89	GILDA	89
1041683.69	748008.25	-150.00	150.00	0216S-89	GILDA	89
1041683.81	748008.50	-200.00	200.00	0216S-89	GILDA	89
1041683.88	748008.69	-250.00	250.00	0216S-89	GILDA	89
1041683.94	748008.88	-300.00	300.00	0216S-89	GILDA	89
1041684.06	748009.00	-350.00	350.00	0216S-89	GILDA	89
1041684.19	748009.19	-400.00	400.00	0216S-89	GILDA	89
1041684.31	748009.38	-450.00	450.00	0216S-89	GILDA	89
1041684.38	748009.56	-500.00	500.00	0216S-89	GILDA	89
1041684.50	748009.75	-550.00	550.00	0216S-89	GILDA	89
1041684.63	748009.88	-600.00	600.00	0216S-89	GILDA	89
1041684.38	748010.44	-649.99	650.00	0216S-89	GILDA	89
1041683.81	748010.88	-699.98	700.00	0216S-89	GILDA	89
1041680.94	748011.81	-788.91	789.00	0216S-89	GILDA	89
1041673.13	748011.00	-876.55	877.00	0216S-89	GILDA	89
1041640.69	748012.50	-1057.54	1061.00	0216S-89	GILDA	89
1041616.13	748014.69	-1144.07	1151.00	0216S-89	GILDA	89
1041584.31	748015.25	-1230.37	1243.00	0216S-89	GILDA	89
1041543.50	748014.31	-1312.73	1335.00	0216S-89	GILDA	89
1041504.56	748089.75	-1477.99	1531.00	0216S-89	GILDA	89
1041798.69	747570.94	-459.30	264.80	0216S-89	GILDA	89
1040850.69	747462.13	-1612.79	1762.00	0216S-89	GILDA	89
1040789.63	747454.31	-1679.76	1853.00	0216S-89	GILDA	89
1040723.56	747444.88	-1744.53	1946.00	0216S-89	GILDA	89
1040654.38	747433.63	-1804.08	2038.00	0216S-89	GILDA	89
1040581.56	747421.50	-1858.93	2130.00	0216S-89	GILDA	89
1040506.19	747408.75	-1908.28	2221.00	0216S-89	GILDA	89
1040434.94	747396.69	-1949.15	2304.00	0216S-89	GILDA	89
1040303.88	747371.25	-2021.79	2456.00	0216S-89	GILDA	89
1040176.75	747349.06	-2098.14	2606.00	0216S-89	GILDA	89
1039947.63	747333.19	-2245.42	2879.00	0216S-89	GILDA	89
1039741.31	747332.13	-2377.60	3124.00	0216S-89	GILDA	89
1039532.69	747331.75	-2505.97	3369.00	0216S-89	GILDA	89
1040186.44	747326.63	-2122.40	2611.00	0216S-89	GILDA	89
1039284.44	747339.25	-2635.90	3649.00	0216S-89	GILDA	89
1039196.00	747341.06	-2684.65	3750.00	0216S-89	GILDA	89
1039002.69	747343.63	-2808.82	3980.00	0216S-89	GILDA	89
1038928.88	747343.63	-2867.01	4074.00	0216S-89	GILDA	89
1038858.25	747341.50	-2927.46	4167.00	0216S-89	GILDA	89
1038789.63	747336.44	-2991.51	4261.00	0216S-89	GILDA	89
1038724.75	747330.63	-3056.45	4353.00	0216S-89	GILDA	89
1038661.31	747325.13	-3124.23	4446.00	0216S-89	GILDA	89
1038600.50	747319.88	-3193.08	4538.00	0216S-89	GILDA	89
1038541.69	747314.06	-3264.89	4631.00	0216S-89	GILDA	89
1038486.44	747307.94	-3339.40	4724.00	0216S-89	GILDA	89
1038434.63	747301.50	-3416.35	4817.00	0216S-89	GILDA	89
1038387.00	747294.63	-3497.08	4911.00	0216S-89	GILDA	89
1038342.69	747287.25	-3578.54	5004.00	0216S-89	GILDA	89
1038298.31	747279.56	-3661.03	5098.00	0216S-89	GILDA	89
1038254.31	747271.94	-3743.76	5192.00	0216S-89	GILDA	89
1038210.13	747264.63	-3826.41	5286.00	0216S-89	GILDA	89
1038123.25	747251.25	-3988.03	5470.00	0216S-89	GILDA	89
1038033.94	747237.19	-4151.74	5657.00	0216S-89	GILDA	89
1037959.25	747224.69	-4289.25	5814.00	0216S-89	GILDA	89
1037886.44	747213.38	-4427.87	5971.00	0216S-89	GILDA	89
1037800.13	747200.56	-4593.29	6158.00	0216S-89	GILDA	89
1037670.56	747177.25	-4840.40	6438.00	0216S-89	GILDA	89
1037585.50	747161.19	-5005.00	6624.00	0216S-89	GILDA	89
1037542.25	747153.44	-5088.11	6718.00	0216S-89	GILDA	89
1037498.69	747145.13	-5168.73	6810.00	0216S-89	GILDA	89
1037432.06	747132.19	-5291.18	6950.00	0216S-89	GILDA	89

1101-02b(4)
Lease # 216
S-89

RECEIVED
JAN 2 9 2004
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

NUEVO ENERGY COMPANY

Noted - Dunaway
1/29/04

January 29, 2004

Mr. Tom Dunaway
Mineral Management Service
770 Paseo Camarillo
Camarillo, CA 93010

Re: Request Variance for Welding, Burning and Grinding
Well S-89
Platform Gilda P-OCS-216

Dear Mr. Dunaway:

Nuevo Energy is requesting a variance to solder an ESP cable for the completion of well S-89 on Platform Gilda beginning on or about January 30, 2004. This variance is requested in reference to 30 CFR Section 250.113; using non-intrinsically safe electrical equipment on the rig floor with an open hole condition. Nuevo Energy will stay within Safety Standards set forth in Section 4.02 - Hot Work Procedure found in the Nuevo Safety Manual.

This work will consist of the use of a soldering iron and 110 V extension cord to solder the outer protective shielding of the cable splice. The two ends of the 110 V cord will be taped to prevent parting. This work will take approximately four (4) hours to complete.

SAFETY PROCEDURES

The following safety procedures will be in place during all Hot Work and will be conducted in accordance with our approved Hot Work/Safe Work Procedures.

- Fire-resistant guards or curtains will enclose the hot work area. – Not applicable
- All fire watch personnel will remain in place for a minimum of 30 minutes after completion of Hot Work.
- LEL gas detectors will be placed at key points to continuously monitor ambient conditions.
- Radio and verbal means of communication will be in place during all hot work activities.
- A new Hot Work Permit will be issued if work is stopped or delayed for 1 hour.
- Hot Work Permit Supervisor and all simultaneous operations personnel will attend a pre-job safety meeting.
- As per the requirements of the Hot Work/Safe Work procedures a detailed job survey analysis will be prepared and reviewed by all effected personnel.

Should you have any questions concerning this request, please call John Herron, Well site Representative at (805) 585-1000.

Sincerely,

Suzanne J. Foley
ES&RC Supervisor

C: ESRC file
Plt Gilda
Drilling
R. Harmon
B. Martin

District Supervisor

APPROVED 1/29/04

hp officejet 7130
printer/fax/scanner/copier

Fax-History Report for

Jan 29 2004 5:46pm

Last Transaction

Date	Time	Type	Identification	Duration	Pages	Result
Jan 29	5:45pm	Fax Sent	818059373030	0:53	2	OK

WEEKLY ACTIVITY REPORT
Period: 10/11/96 to 10/13/96

Week No. 1

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: N/A
14. Mud Weight: N/A
15. Last BOP Test Date: N/A Test Pressure (psi): N/A
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST

17 Summary of Operations:

MIRU. Bleed dwn well. Install BPV & ND prod tree. Install 8RD test sub in hanger. NU x-o spool, 20" riser & hydril typ V 3000 psi rams. Install 20" 2000 psi hydril. MSP annular BOP adapter. RU to test BOP's.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 10/14/96 to 10/20/96

Week No. 2

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 3800'
14. Mud Weight: 9.6
15. Last BOP Test Date: 10/14/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST

17 Summary of Operations:

Test BOP's & annular - o.k. TIH and tag pkr @ 9531'. Circ. MU 9 5/8" '6AA' cmt retainer & TIH. Tag WB pkr @ 9531'. Set cmt retainer @ 9523' and test - o.k. MMS approved isolating perfs by setting 100' plug on top of cmt retainer. Adjust slurry design f/sq. schedule to plug cmt. Mix H2O & M&P 50 sxs (58 ft3) of Class 'G' cmt + .5% CD32 + 3% R-3 w/FSW. Est. TOC @ 9390'. TIH & tag cmt @ 9386' w/10K wt - o.k. POOH w/cmt retainer LD DP to 3800'. Displace FSW w/9.5 ppg mud @ 3800'. PU Baker 9 5/8" sect. mill & BHA. TIH to 3740' SLM. PU & test Kelly to 2500 psi - o.k. Mill to 3800'. PU 15" UR & TIH to 3798'. POOH. PU & TIH w/2 7/8" tbg to 3900' - tbg plugged w/metal cuttings. Unplug tbg. LD and replace 3 jts. Brk circ. w/15 bbls every 10 stds.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 10/21/96 to 10/27/96

Week No. 3

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Plat. Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-89	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-2060501	10. Spud Date:	10/25/96
5. Water Depth:	205'	11. TD Date:	N/A
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 5864'
14. Mud Weight: 10.7
15. Last BOP Test Date: 10/22/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST

17 Summary of Operations:

Test BJ lines to 2000 psi. Pump 29 bbls FSW - mix chem. - M&P 148 sxs Class 'G' + 1.4% CD32 + .1% R3 + 2 ghs FP 6-L @ 17.2 ppg w/FSW & spot balanced plug f/3650' to 3900'. MU bit #1 & TIH to 3500'. Tag @ 3600'. Clean out cmt to 3740'. Left 10' cmt in 9 5/8" csg @ 3750'. Test BOP's and annular. BJ M&P 200 ft^3 (174 sxs) Class 'G' w/.5% CD32 + .5% FL-62 w/pkr set @ 3452'. CIP 10/24/97. POOH w/pkr. CO cmt to 3750' & circ. POOH. PU bit, mud motor, MWD, & 6 jts HWDP & RIH. Drill f/3750' to 5864'. POOH and change bit. RIH w/bit #2 to 5822'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 10/28/96 to 11/03/96

Week No. 4

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Plat. Gilda	7. Designated Operator:	Nuevo Energy
2. Well No.:	S-89	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-2060501	10. Spud Date:	10/25/96
5. Water Depth:	205'	11. TD Date:	10/29/96
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 7000'
14. Mud Weight: 8.5
15. Last BOP Test Date: 10/30/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST

17 Summary of Operations:

Cont. drilling f/5822' to 7000'. Ream f/6978' to 7000'. RU Schlumberger & run logs 10/31/96. RU to run 7" csg. MU f/shoe and run 7" csg to 6876' (11/1/96). RU BJ M&P 13 bbls of 12.5 ppg mud sweep M&P 600 ft^3 Class G' w/.9% CD-32, 1.2% FL-C2, 3% KCL & .1% R-3. Drop top plug and displace cmt w/FSW. Bump plug w/2550 psi FE held. RU Hyd. lift kit and set slips on 7" csg. w/170000# tension. Turn well over to production @ 0900 hrs. on 11/2/96. Pressure test csg @ 2100 for 30 min.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	6876'	2100		600

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
10/31/96	AIT/Density/Neutron/GR/MCFL/ML	6988' - 3750'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 11/04/96 to 11/10/96

Week No. 5

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 10/25/96
11. TD Date: 10/29/96
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: TD 7000' (PB TD 6840.7')
14. Mud Weight: 8.65
15. Last BOP Test Date: 11/6/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST/COM

17 Summary of Operations:

Set test plug. Install new VBR's 2 7/8" x 5". NU BOP's & test. PU 2000' of 2 7/8" tbg and rabbit ea. jt. - 2 7/8" tbg 6.50 N-80 8RD to 6773' (tag cmt) - total of 215 jts. MU 6 1/8" bit & BHA. TIH w/7 stds of 3 1/2" 9.30 501 tbg. Tag up @ 6771'. Drill cmt, wiper plugs, & FE (6800') + 45' cmt below FC to 6845'. Test 7" csg to 2500 psi - 15 min. - ok. RU and run Schlumberger logs - o.k. RU WL adapter and Baker "Delta" bridge plug. RIH w/top @ 6840.7. Circ. and filter @ 5 bpm to '0' solids & <30 NTU's - filtered to <1 NTU in, 35 NTU's out @ flowline. POOH w/scraper assy. Filter 200 bbls reserve fluid to 2.5 NTU's. POOH. RIH w/TCP assy. Tag CIBP & space out tbg. Perforate well. Observe well in bubble bucket for 2 hrs. - good perf ind.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	6876'	2100		600

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
10/31/96	AIT/Density/Neutron/GR/MCFL/ML	6988' - 3750'	
11/8/96	GR/CBL/USIT/Bond Log	6830' - 3500'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 11/11/96 to 11/17/96

Week No. 6

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 10/25/96
11. TD Date: 11/8/96 (PB TD)
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: TD 7000' (PB TD 6840.7')
14. Mud Weight: 8.65
15. Last BOP Test Date: 11/17/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST/COM

17 Summary of Operations:

POOH to 6590' & reset pkr. Rev. circ. Pickle tbg w/14 bbls 15% HCL. Rev. out acid. Pumped 9000# sand in 2 stages. Pulled pkr free and rev. out 2100# sand. Lowered guns and tagged sand at 6682' (9' below top shot). M&P 10 ft^3 (1000#) sand in 1 ppb slurry. RIH and tag sand @ 6572'. Pull stds to 6119'. POOH w/TCP guns. All shots fired. RIH & tag at 6559'. Rev. out & washed to 6622'. RIH w/TCP to 6615'. RU Schlumberger. Ran GR/Neutron. RD loggers. Perforated well. Rev. circ. Released pkr. RIH & tag sand @ 6537' (12' below top shot). Circ. POOH w/TCP. All guns fired. RIH w/scraper, tag @ 6482'. Rev. washed to 6840'. Tag CIBP. Ran 4 1/2" screen liner (326.94'). Ran 3 1/2" tbg tail pipe inside GP screen.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	6876'	2100		600
4 1/2"	6843'			

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
10/31/96	AIT/Density/Neutron/GR/MCFL/ML	6988' - 3750'	
11/8/96	GR/CBL/USIT/Bond Log	6830' - 3500'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 11/18/96 to 11/24/96

Week No. 7

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 10/25/96
11. TD Date: 11/8/96 (PB TD)
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: TD 7000' (PB TD 6840.7')
14. Mud Weight: 8.65
15. Last BOP Test Date: 11/17/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST/COM

17 Summary of Operations:

RIH and set GP pkr at 6426'. Gravel pack w/3500# 20/40 gravel. POOH & LD 3 1/2" workstring & Baker service tools. RIH w/completion string, banding elec. cable & chem. injection line. RIH w/35 stds 2 7/8" 6.5 tbg. MU pkr. RIH to 6426'. Test hanger to 3000 psi. Remove BOPE. MU prod. tree. Rig released @ 0400 hrs. 11/21/96.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	6876'	2100		600
4 1/2"	6843'			

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
10/31/96	AIT/Density/Neutron/GR/MCFL/ML	6988' - 3750'	
11/8/96	GR/CBL/USIT/Bond Log	6830' - 3500'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Report Center : 64220 **Name :** OCS-P-0216 # S-89
Api : 043112060501
Field : Santa Clara
County : OFFSHORE **State :** CA
Operator : Nuevo Energy Company

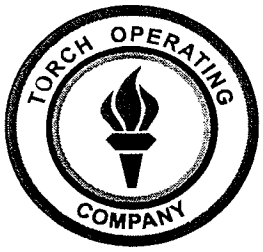
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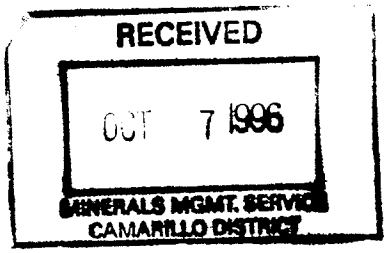
PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
10/96	0	0	0	0	0	0	0	0	0
11/96	4825	1873	300	4745	1668	388	6	4825	1873
/96	2342	1891	120	2397	1651	808	5	7167	3764
Tot/ 96	7167	3764	420	7143	3319				
01/97	2768	2568	112	2755	2255	928	4	9935	6332
02/97	1295	1881	2716	1311	1618	1452	68	11231	8213
03/97	143	90	3690	163	79	628	96	11374	8303
04/97	6156	2610	1653	6078	2283	424	21	17530	10913
05/97	5079	2719	403	5082	2370	535	7	22609	13632
06/97	3959	1954	60	3981	1698	494	1	26568	15586
07/97	4304	1804	62	4289	1634	419	1	30872	17390
08/97	4179	1994	62	4183	1865	477	1	35051	19384
09/97	3756	1801	30	3767	1697	479	1	38807	21185
10/97	3773	1952	31	3827	1831	517	1	42580	23137
11/97	3563	2030	30	3566	1909	570	1	46143	25167
'97	3530	2046	62	3521	1915	580	2	49674	27213
Tot/ 97	42507	23449	8911	42521	21154				
01/98	3077	1663	31	3085	1555	541	1	52750	28876
02/98	2836	1973	28	2827	1843	696	1	55586	30849
03/98	3857	2173	31	3835	2038	563	1	59444	33022
Tot/ 98	9770	5809	90	9747	5436				

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
10/96	0	0	0	0	0	0	0	0	0
11/96	4825	1873	300	4745	1668	388	6	4825	1873
12/96	2342	1891	120	2397	1651	808	5	7167	3764
Tot/96	7167	3764	420	7143	3319				
01/97	2768	2568	112	2755	2255	928	4	9935	6332
02/97	1295	1881	2716	1311	1618	1452	68	11231	8213
03/97	143	90	3690	163	79	628	96	11374	8303
04/97	6156	2610	1653	6078	2283	424	21	17530	10913
05/97	5079	2719	403	5082	2370	535	7	22609	13632
06/97	3959	1954	60	3981	1698	494	1	26568	15586
07/97	4304	1804	62	4289	1634	419	1	30872	17390
08/97	4179	1994	62	4183	1865	477	1	35051	19384
09/97	3756	1801	30	3767	1697	479	1	38807	21185
10/97	4007	1952	31	3827	1831	487	1	42815	23137
11/97	3641	2030	30	3571	1909	558	1	46456	25167
12/97	3356	2046	62	3536	1915	610	2	49812	27213
Tot/97	42645	23449	8911	42541	21154				
01/98	3098	1663	31	3099	1555	537	1	52909	28876
Tot/98	3098	1663	31	3099	1555				





TORCH OPERATING COMPANY
201 S. Broadway
Orcutt, CA 93455

TEL 805-934-8261
FAX 805-937-8709

October 16, 1996

Mr. Rishi Tyagi
District Manager
Minerals Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RE: Sundry Notice for Platform Gilda
Well #S-89-Subsequent Report

Mr. Tyagi:

Please accept the enclosed notice as referenced above. You will find an original and two copies (including a 'Public Information' copy) as per your requirements.

If you have any questions, please give Jim Martin or myself a call at (805) 739-9111.

Thank you,

Lisa A. Chacon
Environmental Clerk

WEEKLY ACTIVITY REPORT
Period: 10/11/96 to 10/13/96

Week No. 1

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: N/A
14. Mud Weight: N/A
15. Last BOP Test Date: N/A Test Pressure (psi): N/A
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST

17 Summary of Operations:

MIRU. Bleed dwn well. Install BPV & ND prod tree. Install 8RD test sub in hanger. NU x-o spool, 20" riser & hydril typ V 3000 psi rams. Install 20" 2000 psi hydril. MSP annular BOP adapter. RU to test BOP's.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 10/14/96 to 10/20/96

Week No. 2

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 3800'
14. Mud Weight: 9.6
15. Last BOP Test Date: 10/14/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST

17 Summary of Operations:

Test BOP's & annular - o.k. TIH and tag pkr @ 9531'. Circ. MU 9 5/8" '6AA' cmt retainer & TIH. Tag WB pkr @ 9531'. Set cmt retainer @ 9523' and test - o.k. MMS approved isolating perfs by setting 100' plug on top of cmt retainer. Adjust slurry design f/sq. schedule to plug cmt. Mix H2O & M&P 50 sxs (58 ft3) of Class 'G' cmt + .5% CD32 + 3% R-3 w/FSW. Est. TOC @ 9390'. TIH & tag cmt @ 9386' w/10K wt - o.k. POOH w/cmt retainer LD DP to 3800'. Displace FSW w/9.5 ppg mud @ 3800'. PU Baker 9 5/8" sect. mill & BHA. TIH to 3740' SLM. PU & test Kelly to 2500 psi - o.k. Mill to 3800'. PU 15" UR & TIH to 3798'. POOH. PU & TIH w/2 7/8" tbg to 3900' - tbg plugged w/metal cuttings. Unplug tbg. LD and replace 3 jts. Brk circ. w/15 bbls every 10 stds.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 10/21/96 to 10/27/96

Week No. 3

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 10/25/96
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 5864'
14. Mud Weight: 10.7
15. Last BOP Test Date: 10/22/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST

17 Summary of Operations:

Test BJ lines to 2000 psi. Pump 29 bbls FSW - mix chem. - M&P 148 sxs Class 'G' + 1.4% CD32 + .1% R3 + 2 ghs FP 6-L @ 17.2 ppg w/FSW & spot balanced plug f/3650' to 3900'. MU bit #1 & TIH to 3500'. Tag @ 3600'. Clean out cmt to 3740'. Left 10' cmt in 9 5/8" csg @ 3750'. Test BOP's and annular. BJ M&P 200 ft^3 (174 sxs) Class 'G' w/.5% CD32 + .5% FL-62 w/pkr set @ 3452'. CIP 10/24/97. POOH w/pkr. CO cmt to 3750' & circ. POOH. PU bit, mud motor, MWD, & 6 jts HWDP & RIH. Drill f/3750' to 5864'. POOH and change bit. RIH w/bit #2 to 5822'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 10/28/96 to 11/03/96

Week No. 4

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 10/25/96
11. TD Date: 10/29/96
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 7000'
14. Mud Weight: 8.5
15. Last BOP Test Date: 10/30/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST

17 Summary of Operations:

Cont. drilling f/5822' to 7000'. Ream f/6978' to 7000'. RU Schlumberger & run logs 10/31/96. RU to run 7" csg. MU f/shoe and run 7" csg to 6876' (11/1/96). RU BJ M&P 13 bbls of 12.5 ppg mud sweep M&P 600 ft^3 Class G' w/.9% CD-32, 1.2% FL-C2, 3% KCL & .1% R-3. Drop top plug and displace cmt w/FSW. Bump plug w/2550 psi FE held. RU Hyd. lift kit and set slips on 7" csg. w/170000# tension. Turn well over to production @ 0900 hrs. on 11/2/96. Pressure test csg @ 2100 for 30 min.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	6876'	2100		600

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
10/31/96	AIT/Density/Neutron/GR/MCFL/ML	6988' - 3750'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 11/04/96 to 11/10/96

Week No. 5

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 10/25/96
11. TD Date: 10/29/96
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: TD 7000' (PB TD 6840.7')
14. Mud Weight: 8.65
15. Last BOP Test Date: 11/6/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST/COM

17 Summary of Operations:

Set test plug. Install new VBR's 2 7/8" x 5". NU BOP's & test. PU 2000' of 2 7/8" tbg and rabbit ea. jt. - 2 7/8" tbg 6.50 N-80 8RD to 6773' (tag cmt) - total of 215 jts. MU 6 1/8" bit & BHA. TIH w/7 stds of 3 1/2" 9.30 501 tbg. Tag up @ 6771'. Drill cmt, wiper plugs, & FE (6800') + 45' cmt below FC to 6845'. Test 7" csg to 2500 psi - 15 min. - ok. RU and run Schlumberger logs - o.k. RU WL adapter and Baker "Delta" bridge plug. RIH w/top @ 6840.7. Circ. and filter @ 5 bpm to '0' solids & <30 NTU's - filtered to <1 NTU in, 35 NTU's out @ flowline. POOH w/scraper assy. Filter 200 bbls reserve fluid to 2.5 NTU's. POOH. RIH w/TCP assy. Tag CIBP & space out tbg. Perforate well. Observe well in bubble bucket for 2 hrs. - good perf ind.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	6876'	2100		600

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
10/31/96	AIT/Density/Neutron/GR/MCFL/ML	6988' - 3750'	
11/8/96	GR/CBL/USIT/Bond Log	6830' - 3500'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 11/11/96 to 11/17/96

Week No. 6

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 10/25/96
11. TD Date: 11/8/96 (PB TD)
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: TD 7000' (PB TD 6840.7')
14. Mud Weight: 8.65
15. Last BOP Test Date: 11/17/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST/COM

17 Summary of Operations:

POOH to 6590' & reset pkr. Rev. circ. Pickle tbg w/14 bbls 15% HCL. Rev. out acid. Pumped 9000# sand in 2 stages. Pulled pkr free and rev. out 2100# sand. Lowered guns and tagged sand at 6682' (9' below top shot). M&P 10 ft^3 (1000#) sand in 1 ppb slurry. RIH and tag sand @ 6572'. Pull stds to 6119'. POOH w/TCP guns. All shots fired. RIH & tag at 6559'. Rev. out & washed to 6622'. RIH w/TCP to 6615'. RU Schlumberger. Ran GR/Neutron. RD loggers. Perforated well. Rev. circ. Released pkr. RIH & tag sand @ 6537' (12' below top shot). Circ. POOH w/TCP. All guns fired. RIH w/scraper, tag @ 6482'. Rev. washed to 6840'. Tag CIBP. Ran 4 1/2" screen liner (326.94'). Ran 3 1/2" tbg tail pipe inside GP screen.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	6876'	2100		600
4 1/2"	6843'			

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
10/31/96	AIT/Density/Neutron/GR/MCFL/ML	6988' - 3750'	
11/8/96	GR/CBL/USIT/Bond Log	6830' - 3500'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 11/18/96 to 11/24/96

Week No. 7

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Plat. Gilda
2. Well No.: S-89
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2060501
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Nuevo Energy
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 10/25/96
11. TD Date: 11/8/96 (PB TD)
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: TD 7000' (PB TD 6840.7')
14. Mud Weight: 8.65
15. Last BOP Test Date: 11/17/96 Test Pressure (psi): 250/2100
16. Well Status (Dlg, Redrl, ST, Com, WO, TA, PA): ST/COM

17 Summary of Operations:

RIH and set GP pkr at 6426'. Gravel pack w/3500# 20/40 gravel. POOH & LD 3 1/2" workstring & Baker service tools. RIH w/completion string, banding elec. cable & chem. injection line. RIH w/35 stds 2 7/8" 6.5 tbg. MU pkr. RIH to 6426'. Test hanger to 3000 psi. Remove BOPE. MU prod. tree. Rig released @ 0400 hrs. 11/21/96.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
7"	6876'	2100		600
4 1/2"	6843'			

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
10/31/96	AIT/Density/Neutron/GR/MCFL/ML	6988' - 3750'	
11/8/96	GR/CBL/USIT/Bond Log	6830' - 3500'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

SJS 4/5/04

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies, with ONE copy marked "Public Information"

OMB Control Number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

1. TYPE OF SUBMITTAL	2. MMS OPERATOR NO.	3. OPERATOR NAME and ADDRESS *(Submitting Office)*
☐ REQUEST ☒ SUBSEQUENT ☐ CORRECTION APPROVAL REPORT	01546	Nuevo Energy Company 1200 Discovery Dr. Suite 500 Bakersfield, CA 93309

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
Gilda S-89	01	00

7. API WELL NO. *(12 digits)*	8. START DATE *(Proposed)*	9. PRODUCING INTERVAL CODE	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
043112060501	2/20/04	S01	COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216	16. LEASE NO. P-0216
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861	18. BLOCK NO. 4861

RECEIVED
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ☐ INITIAL COMPLETION
- ☐ MULTI-COMPLETION
- ☐ RECOMPLETION
- ☐ MODIFY PERFORATIONS
- ☐ CHANGE ZONE
- ☐ PERMANENT PLUGGING
- ☐ TEMPORARY ABANDONMENT
- ☐ PLUG BACK TO SIDETRACK / BYPASS
- ☒ OTHER Pull & Replace ESP
- ☐ ACIDIZE WITH COIL TUBING
- ☒ ARTIFICIAL LIFT (INITIAL)
- ☐ WORKOVER
- ☐ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)*	21. RIG TYPE
Nuevo Rig # 10	PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

See attached summary.

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CAMARILLO DISTRICT

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
John Chao	661-323-1600	

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company

28. AUTHORIZING SIGNATURE	29. DATE
Richard F. Garcia	3/31/04

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
Shannon J. Shaw	for: District Manager	4/5/04

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover, and production operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

INSTALL ESP SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-89

3/2/2004	Held safety meeting. Service cranes. Skid rig South. Remove spreader beam. Rig circulation hose to tubing. Test to 2000 Psi. Pump 100 Bbls of 9.6 KCL fluid down tubing. Returns to production. Well static. Set BPV. Nipple down tree. Sid rig North. Install spreader beam. Skid over S89. Held safety meeting. Service rig and cranes. Set testing unit. Tighten BOP flanges. Raise derrick. Install guide wires. Set V-door and stairs in place. Spot choke. Install coflex hose to choke manifold. Rig up hoses to mud pump and kill line. Rig up tubing tongs. MU landing joint. Install Koomey lines to BOP.
3/3/2004	Held safety meeting. Service rig and cranes. Space out test joint. Latch "J" tool. Fill stack with water. Finish Koomey lines. Function test BOPE from Koomey and remote. Held pre-job safety meeting. Conduct full BOP test from 250 PSI to 3000 PSI. Annular 250 low and 2100 High for 5 minutes on each test with water. Remove "J" tool. Install landing joint. Back out lock down screws. Pull packer loose with 100K. Fill casing with 30 Bbls of 9.6 KCL fluid. Pull and down hanger. POOH to packer. Check cable. Feed through good. Splices good. EFT connection bad. Down 7" Baker packer. Held safety meeting. Service rig and cranes. POOH with production string. LD Reda ESP.
3/4/2004	Continue laying down Reda ESP equipment. Clean rig floor. Splice motor flat cable to round ESP cable. PU motor and pump assembly while making splice. MU cable to motor and install flat guards. RU and hydro-test tools. PU 7" packer and installed feed through mandrel. Making vertical splice below packer. No soldering was needed.
3/5/2004	Continue to make vertical splice with no soldering. Connected chemical and SCSSV lines to top of packer. Continue to RIH with ESP while hydro testing to 3500 PSI. Connected chemical and SCSSV control line to tubing hanger. Made up EFT connector to tubing hanger. Installed BPV. Landed tubing hanger. Prep rig to skid and skid off of well. Nipple down BOPE. Nipple up and test production tree to 3000 PSI. Connected flow lines and ESP cable. Started pump at 22:45 and fluid to surface at 22:47. Turned well over to production. Cleaned platform. Released crew at 06:00. Final report.

SJS 4/5/04

U.S. Department of the Interior
Minerals Management Service (MMS)

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OMB Control Number 1010-0045
OMB Approval Expires 10/31/2005

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(Replaces Sundry Notices and Reports on Well)

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☐ REQUEST ☒ SUBSEQUENT ☐ CORRECTION APPROVAL REPORT	01546	Nuevo Energy Company 1200 Discovery Dr. Suite 500 Bakersfield, CA 93309

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
Gilda S-89	01	00

7. API WELL NO. *(12 digits)*	8. START DATE *(Proposed)*	9. PRODUCING INTERVAL CODE	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
043112060501	1/9/04	S01	COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216	16. LEASE NO. P-0216
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861	18. BLOCK NO. 4861

RECEIVED
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CAMARILLO DISTRICT

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- ☐ INITIAL COMPLETION
- ☐ MULTI-COMPLETION
- ☐ RECOMPLETION
- ☐ MODIFY PERFORATIONS
- ☐ CHANGE ZONE
- ☐ PERMANENT PLUGGING
- ☐ TEMPORARY ABANDONMENT
- ☐ PLUG BACK TO SIDETRACK / BYPASS
- ☒ OTHER Pull & Replace Worn ESP Cable.
- ☐ ACIDIZE WITH COIL TUBING
- ☒ ARTIFICIAL LIFT (INITIAL)
- ☐ WORKOVER
- ☐ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)*	21. RIG TYPE
Nuevo Rig # 10	PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

See attached summary.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
John Chao	661-322-7600	

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company
28. AUTHORIZING SIGNATURE Richard F. Garcia	29. DATE 4/1/04

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
Shannon J. Shaw	for: District Manager	4/5/04

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NUEVO ENERGY

United States Department of the Interior

MINERALS MANAGEMENT SERVICE

Summary

OPERATOR : NUEVO ENERGY
WELL NAME : P/F GILDA S-89
API # : 0431120605
DATE : 2/11/2004

NAME : Richard F. Garcia TITLE : Agent

SIGNATURE :

1200 Discovery Drive, Suite 500,
Bakersfield, CA 93309
(ADDRESS)

(661) 322 - 7600
(TELEPHONE)

REPORT DATE: 01/27/04 MD : 6,840 TVD : 5,260 DAYS : 1 MW : VISC :

DAILY DETAILS SKID RIG FROM S-7 TO S-89. NOTE: WESTERN WIRELINE PUNCHED HOLE IN TUBING AT 6238' ON 1/26/04.

REPORT DATE: 01/28/04 MD : 6,840 TVD : 5,260 DAYS : 2 MW : VISC :

DAILY DETAILS HELD SAFETY MEETING AND INSPECT CRANE. CONTINUE MOVING RIG TO S-89. REMOVED SPREADER BEAM AND SKID RIG SOUTH OFF OF WELL. R/U TO PUMP DOWN TUBING. CHECKED VALVES ON PUMP. SKID TOP SECTION ONE FOOT. PUMPED 50 BBLS OF FSW AT 1 BPM AND 250 PSI. PUMPED 250 BBLS OF 9.5 PPG KILL FLUID AROUND AT 1 BPM AND 450 PSI. OPEN WELL TUBING AND CASING STATIC. INSTALLED BPV IN HANGER. N/D PRODUCTION TREE. INSTALL "J" TOOL INTO HANGER. N/U B.O.P. STACK. SKID RIG NORTH. INSTALLED SPREADER BEAM. INSTALL STAIRS, HOOKED UP ELECTRIC, SET KOOMEY UNIT AND CHOKE MANIFOLD IN PLACE. RAISED MAST AND SCOPED UP. RAN KOOMEY LINES AND CONNECTED CHOKE LINE. TIGHTEN BOLTS ON B.O.P. STACK AND FUNCTION TEST. INSTALLED "V" DOOR. P/U TEST JOINT WITH "J" TOOL.

REPORT DATE: 01/29/04 MD : 6,840 TVD : 5,260 DAYS : 3 MW : 9.6 VISC :

DAILY DETAILS HELD SAFETY MTG. SERVICE RIG AND CRANE. CONDUCT FULL B.O.P. TEST 250 LOW - 3000 HIGH AND ANNULAR TESTED TO 250 LOW - 2100 HIGH. BACK OUT LOCK DOWN SCREWS. PULL PACKER LOOSE W/ 100 K. FILL ANNULUS W/ 29 BBLS. UP WEIGHT 53K DN WEIGHT 40 K. RIG UP SHEAVES. POOH LAYING DOWN 2 7/8" PRODUCTION STRING. DOWN 7" PACKER. POOH LAYING DOWN 2 7/8" PROD STRING. LAY DOWN ESP ASSY. LOST A TOTAL OF 15 STAINLESS STEEL CABLE BANDS. ESP MOTOR GROUNDED OUT. CLEAN RIG FLOOR. INSTALL GUIBERSON PACK OFF.

REPORT DATE: 01/30/04 MD : 6,840 TVD : 5,260 DAYS : 4 MW : 9.6 VISC :

DAILY DETAILS SAFETY MTG. SERVICE RIG & CRANE. M/U 2 3/8" SAW TOOTH COLLAR, 15 JTS OF 2 3/8" TBG. RIH PICKING 2 7/8" 6.5 # N-80 TBG. TAG BOTTOM AT 6840'. RIG UP HALLIBURTON TEST LINES TO 3000 PSI. CLOSE WELL IN. PERFORM INJECTIVITY TEST 2 BBLS/MIN AT 1420 PSI. OPEN WELL. PUMP 15 BBLS OF ARO-100, 28.5 BBLS OF NSA-15. CLOSE WELL IN. PUMP 20 BBLS OF NSA-15, FOLLOW W/ 24 BBLS OF NH4CL. DISPLACE W/ 40 BBLS OF 22% KCL 9.6#. FINAL PRESSURE = 1450 PSI. CLOSE 2 7/8" TBG IN. RIG DOWN HALLIBURTON. BLEED OFF ANNULAS. OPEN WELL. LAY DOWN EXTRA 2 7/8" TBG. POOH. LAY DOWN 15 JOINTS OF 2 3/8" TBG. REMOVE TWIST IN DRILL LINE. REMOVE GUIBERSON (PGSR). RIH 7" 26# SCRAPER TO 600'. RIG UP HYDRO TEST. DRIFT AND PLUG TEST 4 JTS OF 2 7/8 6.5# N-80 TBG W/ XA SLEEVE XN NIPPLE IN PLACE TO 3500 PSI. PULL OUT. M/U UP ESP ASSY.

REPORT DATE: 01/31/04 MD : 6,840 TVD : 5,260 DAYS : 5 MW : 9.6 VISC :

DAILY DETAILS BAND FLAT GUARDS. CHECK CABLE. RIH WITH 2 7/8", 6.5#, N-80 PRODUCTION STRING, TESTING TO 3500 PSI AND DRIFTING. M/U UP 7" 26# TWIN SEAL PACKER ASSY. CHANGE OUT INSTALL UPPER CABLE ON SPOOLER. FEED CABLE THRU PACKER. VERTICAL SPLICE. SPLICE 3/8" CHEMICAL & CONTROL LINES BOTTOM & TOP OF PACKER. TEST CONTROL LINE TO 5000 PSI. RIH WITH 2 7/8", 6.5#, N-80, EUE PRODUCTION STRING TESTING TO 3500 PSI & DRIFTING. M/U TBG HANGER. TEST THRU HANGER TO 3500 PSI. RIG DOWN HYDRO TEST. INSTALL CHEMICAL & CONTROL LINE. TEST CONTROL LINE TO 5000 PSI. INSTALL E.F.T. CONNECTION. M/U CABLE TO ELECTRIC FEED THRU. TEST CABLE (OK). LAND HANGER. RUN LOCK SCREWS. TEST HANGER SEAL TO 1500 PSI (OK). PRODUCTION STRING UP WEIGHT = 50 K, DOWN WEIGHT = 32 K - BOTTOM ESP AT 6370'. RIG UP WIRELINE. TEST LUBRICATOR TO 3000 PSI.

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NUEVO ENERGY

United States Department of the Interior

MINERALS MANAGEMENT SERVICE

Summary

OPERATOR : NUEVO ENERGY
WELL NAME : P/F GILDA S-89
API # : 0431120605
DATE : 2/11/2004

NAME : Richard F. Garcia TITLE : Agent

SIGNATURE : _____

1200 Discovery Drive, Suite 500,
Bakersfield, CA 93309
(ADDRESS)

(661) 322 - 7600
(TELEPHONE)

REPORT DATE: 02/01/04 MD : 6,840 TVD : 5,260 DAYS : 6 MW : 9.6 VISC :

DAILY DETAILS RIH W/ WIRELINE PLUG SET AT 516'. SET PACKER. SAW PACKER SET AT 1300 PSI - PRESSURE UP TO 3000 PSI FOR 15 MIN. TEST ANNULAS TO 500 PSI (OK). RIG DOWN WIRELINE. LOWER DERRICK. SKID RIG SOUTH FOR NIPPLE DOWN. NIPPLE DOWN BOP. INSTALL BONNET. TEST TO 3000 PSI. INSTALL TREE AND FLOW LINES. TEST TREE TO 3000 PSI. REMOVE B.P.V. TURN WELL OVER TO PRODUCTION 1/31/04. STARTED WELL AT 16:12 HRS. FLUID TO SURFACE AT 16:15 HRS. SKID RIG TO NORTH SIDE FOR RIG DOWN. TIGHTEN RIG CLAMPS. CLEAN DRILL DECK AND WELL ROOM. BACK LOAD RENTAL EQUIPMENT. RELEASE CREWS AT 18:00 HRS. FINAL REPORT.

REPORT DATE: 02/03/04 MD : 6,840 TVD : 5,260 DAYS : 7 MW : 9.6 VISC :

DAILY DETAILS RIG UP WESTERN WIRELINE. TEST LUBRICATOR TO 3000 PSI. RIH OPEN SLEEVE AT 6244'. POOH. RIG DOWN WIRELINE. RIG CIRC HOSE. TEST TO 1500 PSI. KILL WELL WITH 243 BBLS OF 9.6# KCL FLUID. TUBING PRESSURE 450 PSI WHILE CIRC. CHECK WELL FOR PRESSURE. WELL DEAD. TURN WELL OVER TO PRODUCTION. ATTEMPT TO RUN ESP (NEG).. RELEASE PERSONNEL.

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SJS 2/24/04

U.S. Department of the Interior
Minerals Management Service (MMS)

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Gilda S-89	01	00 SJS

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WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216 ✓	16. LEASE NO. P-0216 ✓
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861 ✓	18. BLOCK NO. 4861 ✓

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MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ☐ INITIAL COMPLETION
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- ☐ RECOMPLETION
- ☐ MODIFY PERFORATIONS
- ☐ CHANGE ZONE
- ☐ PERMANENT PLUGGING
- ☐ TEMPORARY ABANDONMENT
- ☐ PLUG BACK TO SIDETRACK / BYPASS
- ☒ OTHER Pull & Replace ESP
- ☐ ACIDIZE WITH COIL TUBING
- ☒ ARTIFICIAL LIFT (INITIAL)
- ☐ WORKOVER
- ☐ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)*	21. RIG TYPE
Nuevo Rig # 10	PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

See attached procedure.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
John Chao	661-322-7600	

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company
28. AUTHORIZING SIGNATURE Richard F. Garcia	29. DATE 2/17/04

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
Thomas Dunham	District Manager	2/18/04

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover, and production operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

SANTA CLARA FIELD, PLATFORM GILDA, VENTURA COUNTY
WELL S-89 – PULL AND REPLACE ESP/CABLE

GENERAL DATA:

T.D.	7,000' MD (5,399' TVD)
PBTD	6,840' MD (5,260' TVD)
WELLHEAD	13-5/8", 3M, National, BX 160
SURFACE CASING	20", 94 ppf, casing at 726'
INTERMEDIATE CASING	16", 75 ppf casing at 1,625' –TLH at 395' 13-3/8", 68/54 ppf, casing at 3677'
PRODUCTION CASING	9-5/8", 47 ppf, casing at 3750' MD (milled window)
PRODUCTON LINER	7", 26 ppf, N-80, 0-6876' MD 4-1/2" 11.6 ppf K-55 liner 6426-6839' MD. .010GA SSWW
PRODUCTION TUBING	2-7/8", 6.4 ppf, N-80 8RD
PERFORATIONS (CURRENT)	6525-6830' MD selectively SSWW: 6426-6839' MD, GP w/20-40 sand
CURRENT PACKER/SCSSV	Baker 7" Twin Seal packer @ 507' MD SCSSSV @ 516' MD
WORKOVER OBJECTIVE:	Pull and replace failed ESP/Cable
ANTICIPATED PRESSURE UPPER REPETTO:	2100 psi @ 6677' MD/ 5117' TVD – mid sand screen
MAX. EXPECTED SURFACE PRESSURE:	2100 – (0.1) X (5117) = 1589 psi
HYDROSTATIC OVERBALANCE WITH KILL FLUID:	(0.052) (9.6) (5117) - 2100 = 454 psi

SIZES NEEDED FOR BOP TEST: 2-7/8" TBG

1. Mix sufficient 9.6 ppg filtered kill fluid.
2. Skid the rig over Well S-89.
3. RU slickline. RIH with shifting tool and shift XA sliding sleeve @ 6,248' MD to open position.
4. RU and pump down tubing with 9.6 ppg kill fluid and take returns to the production line. Ensure the well is in static.
5. Install back pressure valve and remove tree.
6. Install and test riser and Class IV BOPE to 3000 psi/annular to 2100 psi high and 250 psi low.
7. Pull production equipment out of the wellbore (2-7/8" tubing and ESP pump).

8. MU new ESP equipment, tubing, 7" Baker Twin-seal packer (or equivalent). RIH w/ ESP to ± 6370' MD. Set packer @ ± 510' MD.

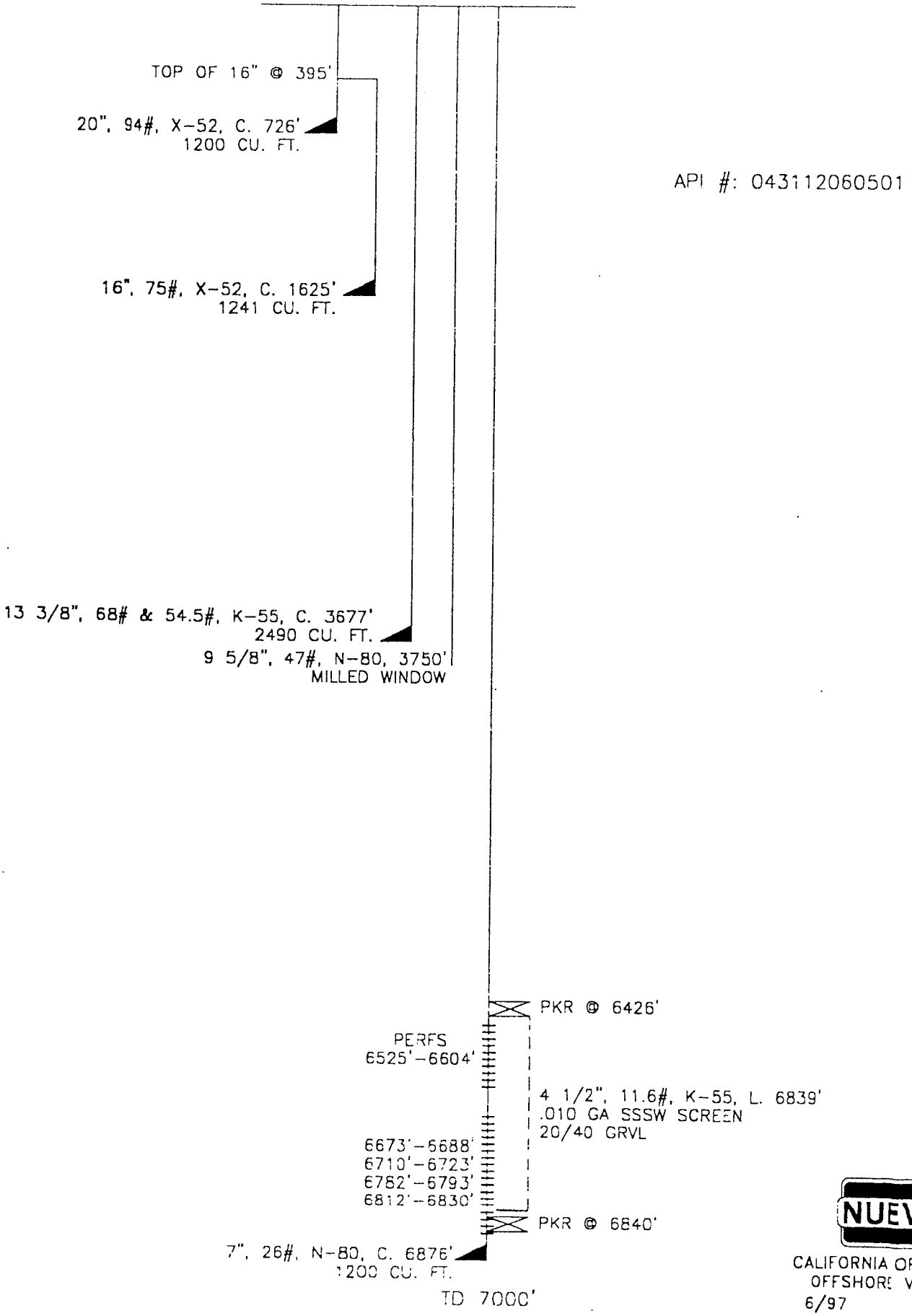
9. Set BPV, and remove BOPE, and riser.

10. Install production tree. Remove the BPV. Install a blanking plug. Test tree to 3000 psi.

11. Remove blanking plug.

12. Connect electrical, secure well, and return to production. Rig down.

S NTA CLARA UNIT
Well #S-89
(Redrill Of #S-53)
Slot #6



API #: 043112060501

NUEVO

CALIFORNIA OPERATIONS
OFFSHORE VENTURA

6/97 RJDIII

Platform GiLDA
Well Name: S-89
Lease:OCS-P-0216
DATE RAN 1/30/04

DISCRIPTION	O.D.	I.D.	LENGTH	BOTTOM
BELOW ZERO			50.00	50.00
TUBING HANGER - NATIONAL	13.625	2.875	1.00	51.00
2 7/8" 6.5# N-80 FATIGUE NIPPLE		2.441	1.65	52.65
14 Jts 2 7/8" N80 6.5# EUE		2.441	433.47	486.12
PUP JOINT 2 7/8" 6.5# N-80 EUE		2.441	3.96	490.08
PUP JOINT 2 7/8" 6.5# N-80 EUE		2.441	10.02	500.10
PACKER 7" 26# TWIN SEAL BAKER		2.441	7.37	507.47
FLOW COUPLING - 2 7/8" - BAKER		2.441	3.83	511.30
SCSSV - 2 7/8" - 2.312 PROFILE BAKER		2.312	4.74	516.04
FLOW COUPLING - 2 7/8" BAKER		2.441	3.85	519.89
PUP JOINT 2 7/8" 6.5# N-80 EUE		2.441	2.17	522.06
185 JOINTS OF 2 7/8" 6.5# N-80 EUE		2.441	5722.70	6244.76
XA SLEEVE HALLIBURTON		2.312	3.18	6247.94
1 - JOINT OF 2 7/8" 6.5# N-80		2.441	31.43	6279.37
XN NIPPLE 2 7/8" HALLIBURTON		2.312	1.42	6280.79
PUP JOINT 2 7/8" 6.5# N-80 EUE		2.441	6.10	6286.89
CROSSOVER 2 7/8" EUE BOX BY 2 3/8" PIN			1.08	6287.97
UPPER PUMP-REDA - DN1750-CR-CT-93 STG-400/400			18.08	6306.05
LOWER PUMP-REDA -DN1750-CR-CT-93 STG 400/400			17.60	6323.65
GAS SEPERATOR/INTAKE-REDA -VSGA-D20-60-400/400			3.33	6326.98
UPPER PROTECTOR-REDA -LSBPB-400/456-NTB/HL			5.94	6332.92
LOWER PROTECTOR-REDA -BSL-400/456-STB/STB			8.50	6341.42
MOTOR-REDA -456 SERIES-125 HP -2400 VOLT-33 AMP-60 HZ			25.95	6367.37
PHOENIX MULTI SENSOR DOWNHOLE TOOL-TYPE O			3.11	6370.48

TUBING UP WEIGHT = 50K TUBING DOWN WEIGHT = 32K
3/8" CHEMICAL LINE FROM INTAKE TO SURFACE
ALL NEW 2 7/8" 6.5# N-80 TUBING & PUP JOINTS
TESTED TUBING TO 3500 PSI & DRIFTED
WELLHEAD - NATIONAL 3000 PSI - API RING RX 57

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies, with ONE copy marked "Public Information"

OMB Control Number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

1. TYPE OF SUBMITTAL	2. MMS OPERATOR NO.	3. OPERATOR NAME and ADDRESS *(Submitting Office)*
☒ REQUEST ☐ SUBSEQUENT ☐ CORRECTION APPROVAL REPORT	01546	Nuevo Energy Company 1200 Discovery Dr. Suite 500 Bakersfield, CA 93309

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
Gilda S-89	01	

7. API WELL NO. *(12 digits)*	8. START DATE *(Proposed)*	9. PRODUCING INTERVAL CODE	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
043112060501	1/9/03		COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216	16. LEASE NO. P-0216
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861	18. BLOCK NO. 4861

RECEIVED
DEC 22 2003
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ☐ INITIAL COMPLETION
- ☐ MULTI-COMPLETION
- ☐ RECOMPLETION
- ☐ MODIFY PERFORATIONS
- ☐ CHANGE ZONE
- ☐ PERMANENT PLUGGING
- ☐ TEMPORARY ABANDONMENT
- ☐ PLUG BACK TO SIDETRACK / BYPASS
- ☒ OTHER Pull & Replace worn ESP Cable.
- ☐ ACIDIZE WITH COIL TUBING
- ☒ ARTIFICIAL LIFT (INITIAL)
- ☐ WORKOVER
- ☐ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)*	21. RIG TYPE
Nuevo Rig # 10	PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

See attached procedure.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
John Chao	661-322-7600	

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company
28. AUTHORIZING SIGNATURE Richard F. Garcia BY WV	29. DATE 12/18/03

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
	District Supervisor	DEC 22 2003

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover, and production operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

SANTA CLARA FIELD, PLATFORM GILDA, SANTA BARBARA COUNTY, WELL S-89 – PULL AND REPLACE WORN ESP/CABLE

GENERAL DATA:

T.D.	7,000' MD (5,399' TVD)
PBTD	6,840' MD (5,260' TVD)
WELLHEAD	13-5/8", 3M, National, BX 160
SURFACE CASING	20", 94 ppf, casing at 726'
INTERMEDIATE CASING	16", 75 ppf casing at 1,625' –TLH at 395' 13-3/8", 68/54 ppf, casing at 3677'
PRODUCTION CASING	9-5/8", 47 ppf, casing at 3750' MD (milled window)
PRODUCTON LINER	7", 26 ppf, N-80, 0-6876' MD 4-1/2" 11.6 ppf K-55 liner 6426-6839' MD. .010GA SSWW
PRODUCTION TUBING	2-7/8", 6.4 ppf, N-80 8RD
PERFORATIONS (CURRENT)	6525-6830' MD selectively SSWW: 6426-6839' MD, GP w/20-40 sand
CURRENT PACKER/SCSSV	Halco 7" RDH packer @ 500' MD SCSSV @ 495' MD

AVG. PROD. RT. PRIOR TO PUMP FAILURE: ~90/75 G/N

WORKOVER OBJECTIVE: Pull and replace failed ESP/Cable

ANTICIPATED PRESSURE UPPER REPETTO: 2260 psi @ 6677' MD/ 5117' TVD – mid sand screen

MAX. EXPECTED SURFACE PRESSURE: 2260 – (0.1) X (5117) = 1749 psi

HYDROSTATIC OVERBALANCE WITH KILL FLUID: (0.052) (10) (5117) - 2260 = 400 psi

SIZES NEEDED FOR BOP TEST: 2-7/8" TBG

1. Mix sufficient 10.0 ppg filtered kill fluid.
2. Skid the rig over Well S-89.
3. RU slickline. RIH and pull SCSSV at 495' MD. RIH with shifting tool and shift XA sliding sleeve @ 6,282' MD to open position.
4. RIH w/ DC dummy and set at 495' MD.
5. RU and pump down tubing with 10.0 ppg kill fluid and take returns to the production line. Ensure the well is in static.
6. Install back pressure valve and remove tree.

7. Install and test riser and Class IV BOPE to 3000 psi/annular to 2100 psi high and 250 psi low.

8. Pull production equipment out of the wellbore (2-7/8" tubing and ESP pump).

9. MU new ESP equipment, tubing, 7" RDH packer (or equivalent). RIH w/ ESP to ± 6388' MD. Set packer @ ± 510' MD.

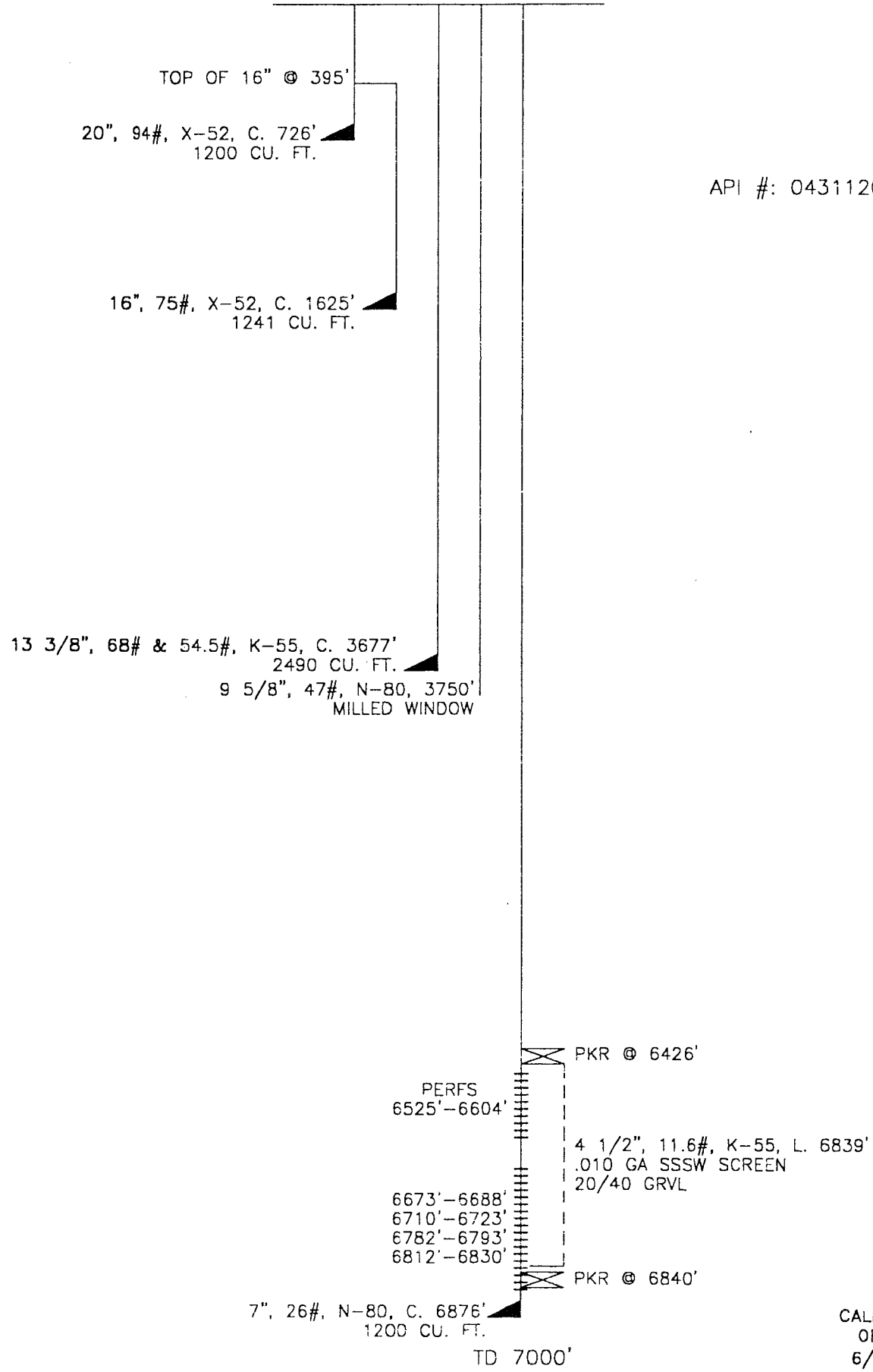
10. Set BPV, and remove BOPE, and riser.

11. Install production tree. Remove the BPV. Install a blanking plug. Test tree to 3000 psi.

12. Remove blanking plug.

13. Connect electrical, secure well, and return to production. Rig down.

SANTA CLARA UNIT
Well #S-89
(Redrill Of #S-53)
Slot #6



API #: 043112060501

NUEVO

CALIFORNIA OPERATIONS
OFFSHORE VENTURA
6/97 RJDIII

PLETION GUIDE

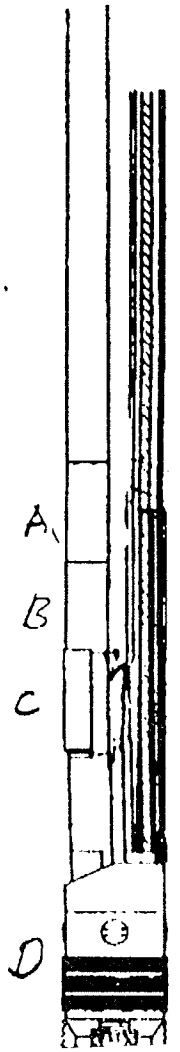
HALLIBURTON

PREPARED FOR	COMPANY	TELEPHONE	DATE
Randy Harrison	Torch	682-7565	11-19-96

FIELD NAME	WELL NAME	COUNTY	STATE	☐ COMPLETION ☐ WORKOVER
Gilley	S-89	Ford	Texas	

	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	7"	26.0	N-80	5LL Hydril 6TC	6876
LINER					

TUBING SIZE: UT | MT | LT | THREAD: 2 7/8 EUE 8Rd N-80 6.5#



DESCRIPTION	I.D.	O.D.	LENGTH	ESTIMATE OR DEPTH
Hanger			1.00	50.
2 7/8 N-80 Pup Joint 6.5	2.441	3.63	1.65	51.
2 7/8 N-80 Pup Joint 6.5#	2.441	3.63	9.95	52.65
2 7/8 N-80 Pup Joint 6.5#	2.441	3.625	4.15	62.60
2 7/8 N-80 Pup Joint 6.5#	2.441	3.625	10.31	66.75
2 7/8 N-80 Tubing 6.5# 13 Jts	2.441	3.63	410.20	77.06
A 2 7/8 N-80 Pup Joint 6.5#	2.441	3.63	4.10	487.26
B Flow Coupling	2.441	3.63	4.24	491.36
C SSSV Nipple	2.313	3.50	4.85	495.60
D RDH Packer			5.69	500.45
E SSSV Nipple Lower		3.62	1.97	506.14
F 2 7/8 N-80 Pup Joint 6.5#		3.63	4.18	508.11
2 7/8 N-80 Tubing 6.5# 183 Jts	2.441	3.63	5700	512.29
2 7/8 XA Sliding Sleeves	2.313	3.63	3.18	6282.75
2 7/8 API-EU Pup 7.1 6.5#				

MINERALS MANAGEMENT SERVIC COPY TO REGION
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL / CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20605-01	S-89	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	Shut-In
SUBSEQUENT REPORT ___	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03528 E 07916	P-0216	4861	6B	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Revise procedure submitted with Sundry Notice submitted 10/16/96. Verbal approval given for this procedural change by Jack McCarthey on 10/17/96.

After setting cement retainer at 9523', unable to breakdown at 4000 psi surface pressure and cement squeeze existing perforations as planned. After contacting Jack McCarthey with MMS on 10/17/96, changed procedure to lay 100' cement plug on top of cement retainer at 9523' and proceded with sidetract.

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111

CONFIDENTIAL

RECEIVED
OCT 21 1996
MINERALS MGMT. SERVICE
CAMARILLO DISTRICT

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon OCT 22	ES&RC Manager

30. AUTHORIZING SIGNATURE	31. DATE
70896	10/18/96

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for District Supervisor

DATE 10/22/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

WELL #S-89

Abandonment Plug

Depth	9150'	
Cement Volume	150 ft3	
BHST	180' F (estimated)	

Cement Design ***(150 ft3)***

Premium Cement	Yield	1.15 ft3/sk
Halad-322 (.5%)	Density	15.8 lb/gal
HR-5 (.1%)	Water	5.0 gal/sk (fresh)

Kick-off Plug

Depth	3700'
Hole Size	18"
BHST	120' F (estimated)
Excess	100%
Casing	9 5/8"

Cement Design

Premium Cement	Yield	.99 ft/sk
CFR-3 (.75%)	Density	17.0 lb/gal
	Water	3.78 gal/sk (fresh)

Liner Job

Depth	7000'
Liner	7"
Hole Size	8 1/2"
BHST	150' F (estimated)
Excess	30% in open hole
Cement Top	3400'

Cement Design

Premium Cement	Yield	1.15 ft3/sk
Halad-322 (.75%)	Density	15.8 lb/sk
	Water	5.0 gal/sk (fresh)

OCS-P0216
PLATFORM GILDA
WELL S-89
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
3750'-7019'	DIL/GR/MSFL

Mud Logs

Interval (MD)	
3750'-7019'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

OCS P-0216
PLATFORM GILDA
WELL S-89
BOP Program

9 5/8"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 2500 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi
7"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 2500 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which is prior to drilling out the 9 5/8" casing and at 7 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-89
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position toll joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 2000 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	3 RPM READING	FLUID LOSS (cc 30 min)	MUD COMPONENTS
3700'-3750	9.6 ppg	80-100	25+	NC	Seawater Durogel Soda Ash
		Mill Window in 9-5/8" Casing			
3750'-7000'	12.0-12.5	40-50		6-8 cc	Seawater Gelite SP 101 Soltex SXC Polymer
		Set Casing @ 7000'			

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate gas cut mud out (small intrusion).
    b) Raise mud weight if necessary

2. Kick

    a) Prevention. Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking

    a) Maintain a low fluid loss.
    b) Maintain 3 - 6 ppb of Soltex in the system.

4. Tight Hole

    a) Wipe the hole.
    b) Reduce the fluid loss if necessary.

5. Solids Build-up

    a) Run all applicable solids control equipment.
    b) Dilute.

6. Foaming

    a) Use Defoam X.
    b) Add fresh Gelite.

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20605-01	S-89	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	Shut-In
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03528 E 07916	P-0216	4861	6B	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Revise step #5 of procedure submitted with Sundry Notice Approved 10/3/96 to set cement retainer above permanent packer at 9531 prior to squeezing existing perforations and not leave 50' of cement on top of packer as originally planned. Verbal approval given for this procedural change by Jack McCarthey on 10/15/96.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111

RECEIVED
OCT 7 1996
MINERALS MGMT. SERVICE
CAMARILLO DISTRICT

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	ES&RC Manager

30. AUTHORIZING SIGNATURE	31. DATE
	10/16/96

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE Acting District Supervisor

DATE 10/17/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

COPY TO REGION

MINERALS MANAGEMENT SERVIC
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20605 01	S-89	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE	FRACTURE	PLUG BACK	WORKOVER	Shut-In
	ALTER CASING	INITIAL COMPLETION	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		
	CHANGE ZONE	PERFORATE	SIDETRACT X		
SUBSEQUENT REPORT	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03528 E07916	P-0216	4861	6B	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See Attached

OCT - 3
7878
30

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	ES&RC Manager
30. AUTHORIZING SIGNATURE	**31. DATE** 9-27-96

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for/ District Supervisor

DATE 10/3/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

OSC-P0216
PLATFORM GILDA
WELL S-89
LOCATION OF WELL

AT SURFACE:	07916 FWL & 03528 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1041684.4 Y= 748008.0
KICKOFF POINT:	09941 FWL & 03668 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1039659 Y= 747868
TARGET NO. 1: LP-B SAND	11517 FWL & 03845 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1038173 Y= 747800
BOTTOM HOLE LOCATION:	11747 FWL & 03886 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1037853 Y= 747649

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-89 DRILLING PROGRAM
REDRILL OF S-53

Proposed TD: 5408' TVD / 7019' MD

Surface Location: Slot No. 6
X= 1041684 Y= 748007

Subsurface Location: 359' South and 3831' West of the surface location at 5408' TVD

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	VSS	TVD	MD	Est. Press.(psi)
MP-1B1	3003'	3110'	4364'	1200-1500
MP-3	3919'	4026'	5448'	1200-1500
LP-1	4190'	4297'	5757'	1200-1500
LP-2	4321'	4428'	5900'	1200-1500
LP-3	4593'	4700'	6210'	3100-3200
LP-4	4698'	4805'	6339'	3100-3200
LP-B	4877'	4984'	6536'	3100-3200
LP-B2	5028'	5135'	6707'	3100-3200
LP-D	5236'	5343'	6948'	2200-2500

Existing Casing

20", 94#, X-52	0-726'
16", 75#, X-52	0-1625'
13 3/8", 54.5 & 68#, K-55	0-3677'
9 5/8", 47#, N-80	0-10303'
5 ½", 15.5 & 17#, K-55 SSWW Liner	9589'-10215'

Perforations

9674'-9862'	12-3/4" HPF
9910'-10211'	12-3/4" HPF
9670'	4-1/2" Squeeze Holes
9910'	4-1/2" Squeeze Holes

Drilling Procedure

1. MIRU wireline. Pull SSSV from the X-nipple @ 796'. Open the "XA" sleeve @ 9496' and change the well over to seawater. Bleed the well down to the production system.

2. Skid the rig over slot #6, well S-53.

3. Check tubing and casing pressure and circulate kill weight mud if necessary. Install a BPV and nipple down the tree. Install a new tubing spool on top of the existing wellhead to allow the 7" casing to be landed and the tubing run and landed in the new spool. Nipple up a 20 3/4", Class IV, 3M BOPE. Test BOPE at 250/2100 psi in accordance with Field Rules and MMS regulations.

4. Unsting from the packer at 9531' and circulate the well with seawater or kill weight mud. Pull and lay down the production equipment. Run in the hole and stab back into the Otis "WB" packer at 9531'.

5. With the seal assembly stabbed into the packer establish a breakdown rate and pressure. Abandon the existing production interval by down squeezing cement (100 cu. ft.) through the permanent packer and balancing a 50 cu. ft. cement plug on top of the packer. Pull above the top of the cement, circulate clean and WOC.

6. RIH and tag the top of the cement. Change the well over to 9.5 ppg gel abandonment mud from the top of the cement to 3700'. Pull out of the hole laying down the production tubing.

Note:

1) See attached cementing program for abandonment cement slurry specifications.

7. Run in the hole picking up 5" drill pipe and a section mill. Mill a window from 3750' to 3800'. The milling fluid will need to have a minimum of 100 sec. viscosity. Pump at high rates and sweep the hole with sawdust to remove the metal cuttings. Pull out of the hole and pick up a 15" under reamer. Run in the hole and and underream the milled section to 15".

8. Pick up a 2 7/8" tubing stinger and run in the hole. Balance a cement plug from 100' below the window , across the window and 100' above the window.

Note:

1) See the attached cementing program for the slurry specifications. A high density cement slurry (16.5 ppg) will be used for the kick off plug.
2) Consider using a drill pipe wiper dart when laying the cement plug.

9. Run in the hole with an 8 ½" bit and polish off the cement plug. Pull out of the hole. Run in the hole with a steerable directional drilling assembly. Drill 15' of new formation and perform a pressure integrity test at the shoe to 13.5 ppg EMW. Continue directionally drill an 8 ½" hole from 3800' to 5408' TVD / 7019' MD (through the LP-D Sands). Treat the mud system for cement contamination. The mud system to be used through the openhole section will be seawater, SP-101 and pre-hydrated gel.

Note:

1) The LP-2 through LP-4 could be over pressured requiring 11.5 to 12.0 ppg mud weights.
2) Mud loggers to start upon drilling out the window.
3) See the attached drilling fluids program.

10. At total depth circulate and condition the mud for electric logging. Wipe the hole to the 9 5/8" casing shoe. Pull out of the hole and rig up wireline. Run a quad-combo consisting of AIT/PLT/MSFL and DP Sonic from 3800' to 7019'. Rig down wireline.

11. Run in the hole and circulate and condition the mud for running casing. Wipe the hole to the 9 5/8" casing shoe. Run back to bottom and pull out of the hole laying down the 5" drill pipe.

12. Rig up casing crew and run the 7", 26#, N-80, Hydril 521 & LT&C casing from 7019' to surface as follows;

A) 7", Hydril 521, Float Shoe
B) 2 jts. of 7", Hydril 521, casing
C) 7", Hydril 521, Float Collar
D) 3420' of 7", Hyrdril 521, casing
E) 7" x-over: Hydril 521 x LT&C
F) +/- 3500' of 7", LT&C, casing

Note:

1) Positive standoff centralizers to be placed two per joint through the zones of interest then one every other joint to the 9 5/8" shoe.
2) Thread lock the shoe and the next 2 collars.

13. With the casing on bottom, circulate the well a minimum of two casing volumes or until the mud returns are clean. Mix and pump cement per the attached program. Reciprocate the casing while circulating, mixing and displacing the cement. Displace the cement at a high pump rate (8 to 10 bbls/min). Bump the plug with 500 psi above the final circulating pressure and check the floats.

Note:

1) See the attached cementing program for slurry specifications.

14. Land the 7" casing in the existing tubing spool and back out the landing joint. Activate the 7" by 9 5/8" casing packing.

15. Turn the rig and well over to the production department.

Completion Procedure

16. Pick up the production tubing and 7" scraper and run in the hole. Change the well over to clean completion fluid. Pull out of the hole.

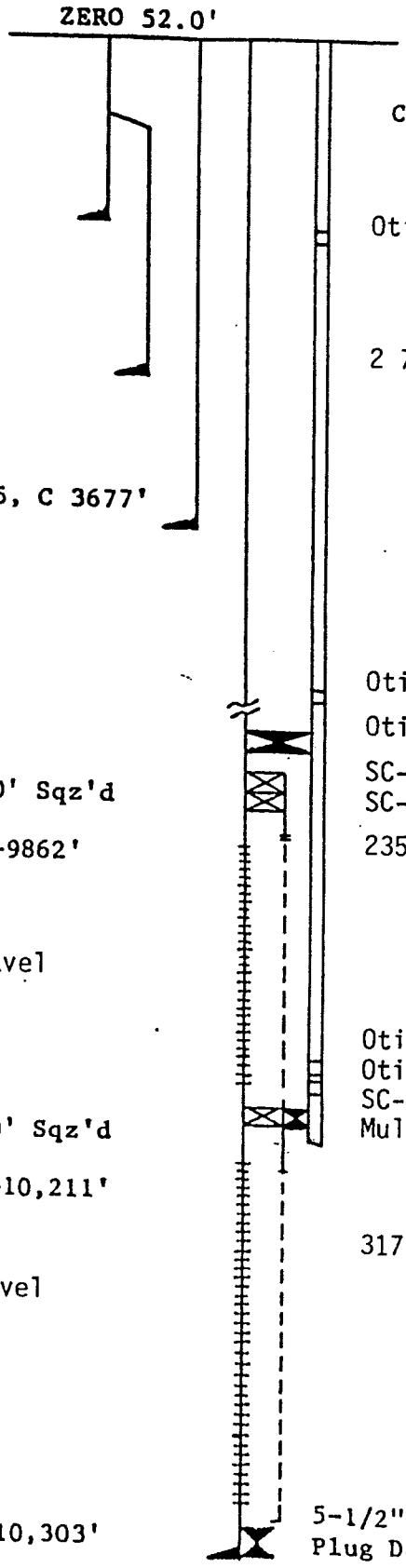
17. Rig up wireline and run a CBL/VDL/Neutron correlation log. Review the log and decide on the need to squeeze cement any zones of interest.

18. Perforate and hydraulically fracture stimulate the LP-B1 and LP-B sands. Clean out the fracture sand. Place the well on production and determine if a gravel pack is needed to produce the well without sand production.

19. If sand production is a problem, perforate any additional zones of interest and run a 5" SSWW screen across the entire perforated interval and gravel pack.

20. Run the production equipment and hydro test the tubing into the hole. Land the tubing with a back pressure valve and nipple down the BOPE. Install the production tree and release the rig.

SANTA CLARA UNIT
WELL S-53 (SLOT 6)



ZERO 52.0'

Top of 16" 395'

20", 94#, X-52, C 726'
1200 cu.ft.

16", 75#, X-52, C ~~3677~~'
1241 cu.ft.

13-3/8", 68# & 54.5#, K-55, C 3677'
2490 cu.ft.

4 - 1/2" Holes @ 9670' Sqz'd

12 - 3/4" JHPF 9674'-9862'
(188')

Gravel packed w/16-30M gravel

4 - 1/2" Holes @ 9910' Sqz'd

12 - 3/4" JHPF 9910'-10,211'
(301')

Gravel packed w/16-30M gravel

9-5/8", 47#, N-80, C 10,303'
2467 cu.ft.

GER 6-18-88

SPUD 2-11-85
COMPLETED 3-30-85

Otis "X" Nipple 796'

2 7/8" 6.5# N-80 tubing

Otis sliding sleeve 9496'

Otis "WB" Packer 9531'

SC-IL Packer 9589'
SC-IL Packer 9595'

235' of .02" SSWW Screen
9633' - 9868'

Otis sliding sleeve 9822' 2.313" ID
Otis "XN" Nipple 9856' 2.205" ID
SC-1A Packer & Seal Ass'by @ 9868'
Mule Shoe @ 9885'

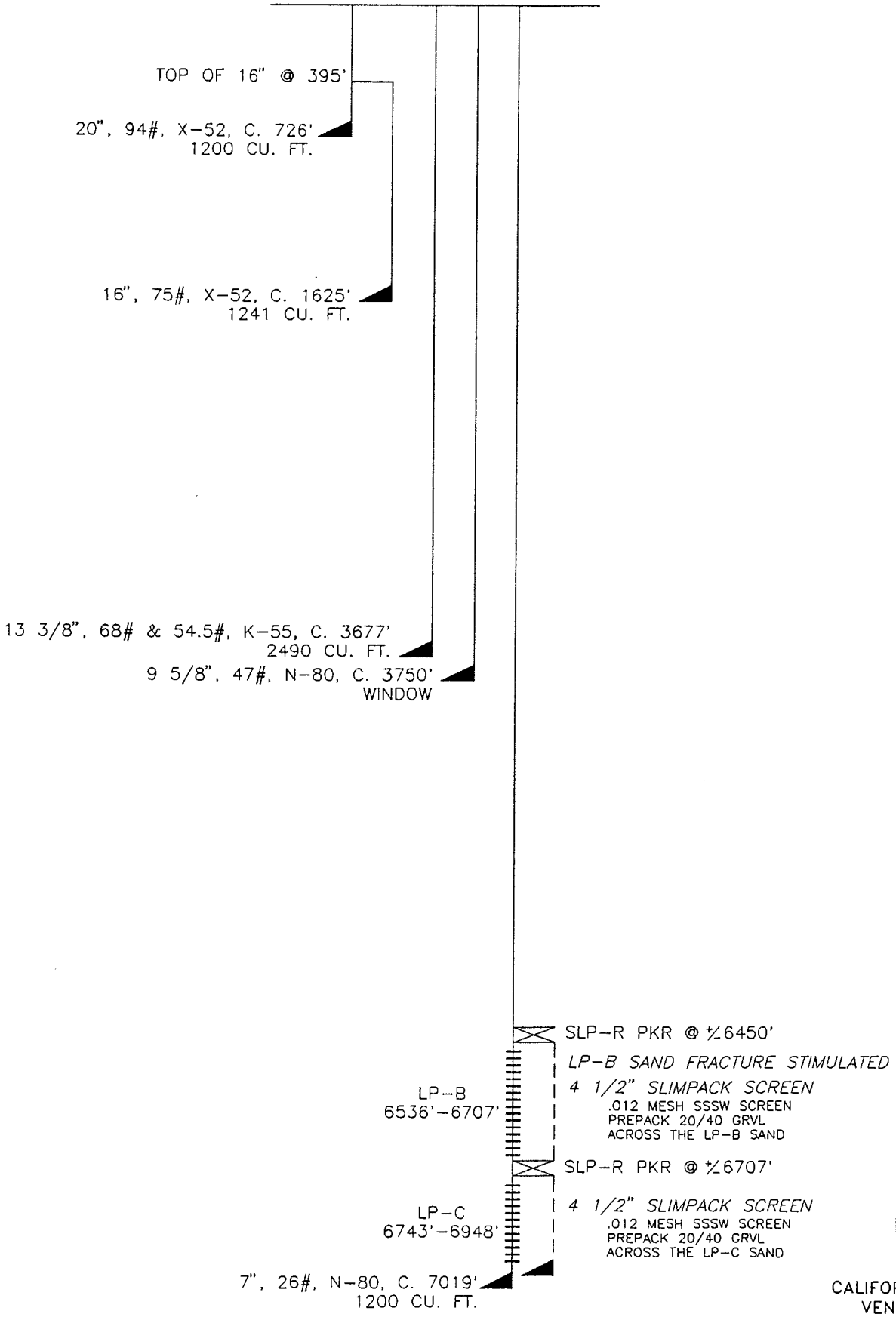
317' of .02" SSWW Screen
9897' - 10,214'

5-1/2", 17# & 15.5#, K-55, L 10,215'
Plug Depth 10,216'

TD 10,325'

SANTA CLARA UNIT
Well #S-89

Slot #6



TORCH OPERATING COMPANY

CALIFORNIA OPERATIONS
VENTURA COUNTY
9/96 RJDIII

OCS-P0216
PLATFORM GILDA
WELL S-89
CASING DESIGN

9 5/8" CASING

Effective Setting Depth (KOP) = 3750' MD / 2749' TVD

Existing: 9 5/8", 47#, N-80, LT&C 8 Rnd
Estimated Top of Cement: +/- 2500'

Collapse

Original mud weight for the 9 5/8" casing interval = 10.1 ppg

P_c = (2749') (10.1 ppg) (.052) = 1444 psi

S_F = 4750 psi / 1444 psi = 3.29

Tensile

N/A (already set and cemented)

Burst

Burst with gas to surface for BHP = 3200 psi
WHP = 2880 psi

S_F = 6870 psi / 2880 psi = 2.38

7 " Casing @ 5408' TVD, 7019' MD

Collapse

Maximum mud weight of 11.5 ppg @ casing point, pipe evacuated @ TD.

P_C = (5408') (11.5 ppg) (.052) = 3234 psi

7 ", 26#, N-80 Pressure Rating w/ 1.25 safety factor
(5410 psi) / (1.25) = 4328 psi

S_F = 4328 psi / 3234 psi = 1.34

Burst

Anticipated BHP of 3200 psi
Maximum anticipated WHP w/ .1 psi/ft. gas = 2880 psi

7", 26#, N-80 P_B = 7240 psi

S_F = 7240 psi / 2880 psi = 2.51

Tensile

Buoy Weight = (26) (7019') (.8243) = 150429#
W/ 11.5 ppg Drilling Mud

7", 26#, N-80, LT&C Joint = 519000#
Body = 604000#

S_{FJT} = 519000 # / 150429 # = 3.45

S_{FB} = 604000# / 150429# = 4.02

Maximum Overpull w/ S_F

Jt = 519000# / 2 - 150429# = 109071#

WELL #S-89

Abandonment Plug

Depth	9150'	
Cement Volume	150 ft3	
BHST	180' F (estimated)	
Cement Design	***(150 ft3)***	
Premium Cement	Yield	1.15 ft3/sk
Halad-322 (.5%)	Density	15.8 lb/gal
HR-5 (.1%)	Water	5.0 gal/sk (fresh)

Kick-off Plug

Depth	3700'	
Hole Size	18"	
BHST	120' F (estimated)	
Excess	100%	
Casing	9 5/8"	
Cement Design		
Premium Cement	Yield	.99 ft/sk
CFR-3 (.75%)	Density	17.0 lb/gal
	Water	3.78 gal/sk (fresh)

Liner Job

Depth	7000'
Liner	7"
Hole Size	8 1/2"
BHST	150' F (estimated)
Excess	30% in open hole
Cement Top	3400'

Cement Design

Premium Cement	Yield	1.15 ft3/sk
Halad-322 (.75%)	Density	15.8 lb/sk
	Water	5.0 gal/sk (fresh)

OCS-P0216
PLATFORM GILDA
WELL S-89
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
3750'-7019'	DIL/GR/MSFL

Mud Logs

Interval (MD)	
3750'-7019'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

OCS P-0216
PLATFORM GILDA
WELL S-89
BOP Program

9 5/8"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 2500 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi
7"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 2500 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which is prior to drilling out the 9 5/8" casing and at 7 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-89
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position toll joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 2000 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	3 RPM READING	FLUID LOSS (cc 30 min)	MUD COMPONENTS
3700'-3750	9.6 ppg	80-100	25+	NC	Seawater Durogel Soda Ash
		Mill Window in 9-5/8" Casing			
3750'-7000'	12.0-12.5	40-50		6-8 cc	Seawater Gelite SP 101 Soltex SXC Polymer
		Set Casing @ 7000'			

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate gas cut mud out (small intrusion).
    b) Raise mud weight if necessary

2. Kick

    a) Prevention. Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking

    a) Maintain a low fluid loss.
    b) Maintain 3 - 6 ppb of Soltex in the system.

4. Tight Hole

    a) Wipe the hole.
    b) Reduce the fluid loss if necessary.

5. Solids Build-up

    a) Run all applicable solids control equipment.
    b) Dilute.

6. Foaming

    a) Use Defoam X.
    b) Add fresh Gelite.

DISCUSSION BY INTERVAL

INTERVAL:	Milling	9-5/8" Casing	3700' - 3750'

FLUID TYPE: Milling Fluid

COMPONENTS WITH TYPICAL USAGE LEVELS:

Durogel	25 ppb
Soda Ash	.5 ppb
Sawdust	as needed
Barite	as needed for weight

RECOMMENDED MUD SPECIFICATIONS:

Density	9.5
Viscosity	100± sec/qt.
PV:YP: Ratio	1:4 - 1:5
Fluid Loss	no control
3 rpm reading	20+
Gels	22 / 31

POSSIBLE PROBLEMS / SOLUTIONS:

1. Hole Cleaning
   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

DISCUSSION:

Use the clay base left from abandoning the S-53 well for milling. Add enough Durogel to convert it into a milling fluid.

Use this same fluid to underream the window and lay the cement plug. Thin back the milling fluid with a small amount of chrome free Desco for polishing off the cement plug and for any leak off tests.

DISCUSSION:

Changeover to a pre-mixed 10.0 ppg seawater/Gelite-SP-101.

Gradually increase the mud weight while drilling ahead. Have the entire system wieghted up to 12.0 ppg by 5850' (top of the LPA is projected to be around 6250'MD / 4805'TVD).

Closely monitor the well for gas while drilling ahead - a higher mud weight might be required sooner.

Differential sticking is a potential problem in this interval, especially in the Pico sands. A concentration of 3 lbs/bbl of Soltex is recommended to be maintained in the system at all times.

Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. Sp-101 should be added to control the API fluid loss in the 6 - 8 cc range.

Keep 80 to 100 barrels of a spotting fluid on the platform for differential stuck pipe.

Soda Ash should be added to keep the Calcium level below 200 Mg/L. This will help the effectiveness of the SP-101 and other chemicals.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 200 mesh screen on the mud cleaner.

Barite should be used to maintain the proper mud density.

With the hole angle at 60°, there is the possibility of the cuttings sliding down the hole if there isn't any pipe rotation; we recommend a small amount of XCD polymer be added to the system if needed to help adequately clean the hole.

PLATFORM Gilda
Workover Report

Date	Description
	WELL # S89- *POOH To Test BOPS*
10-19-96	POOH laying down DP to 3800'. Transfer mud to active pits, build mud VOL.. and wt up to 9.5 displace Seawater with 9.5 ppg Mud @ 3800' - POOH STD back 32 stands and LD 32 vts.. PU and assemble kelly. PU Baker 9 5/8 section mill & BHA. TIH to 3740' SLM. PU Kelly - pump thru lines and Kelly MU lower Kelly valve and saver subs - test Kelly, lines and hose to 2500 PSI swivel leaked - tighten swivel and adjust kelly hose retest to retest to 2500 PSI OK. - Brk. circ. @ RT.
10-20-96	Brk circ. & start mill . Mill 3750 -3751 open arms. Check for flow, Neg. Mill 9 5/8 to 3761 (11') catching mill cuttings in bins, work "birdnest" off mill pump sawdust, sweep mill 9 5/8 section to 3800' (50'). Sweep hole - POOH to 3463' pipe dragging 100k over string wt. on each stand- att to pump hole. neg. Work mill back to section w/Kelly. Brk. circ. @ 3795 circ. hole clean - rotate and work pipe 3800-3750, circ. hole clean again. Work mill into 9 5/8 and out ATT to clean off section mill. Circ. Hivis sweep w/sawdust. Work 5 stands out to 3029'.
10/21/96	Circ. BTS up @ 3029, recovered small amount of metal cuttings and scale then cleaned up quickly, worked section mill P/3029 - 2750 - Normal drag 20k above 2768'. POOH & LD 9 5/8 section mill. Mill was clean and had no significant marks or deep scratches. PU 15' UR & TIH - TIH slow last 500' - No excess drag. UR section to 15' F/3750 - 3798 - Circ. hole clean - recovered some cement. POOH & LD UR. PU 473' 2 7/8' Tbg. and TIH to 3900' - to brk. circ. & neg. - tbg. plugged. POOH w/ wet string - last joint of DP plugged w/ metal cuttings - LD & replace 3 joints. TIH w/tbg string & TIH - Brk. circ. w/ 15 bbls every 10 stands @ 1403, 2338, 3277, 3649.
10-22-96	FIN TIH - work tubing into Csg. stub @ 3800 and RIH to 3915 RV CIRC lines & circ. hole clean. RU BJ lines, test BJ lines to 2000 PSI - pump 29 BIIS SW - Mix defoamer and circ. in disp. tanks - M&P 1485x class G cement + 1.4% CD-32 + 1% R-3 + 2 PP-66 @ 17.2 ppg w/SW and spot balanced plug F/3650' to 3900'. Pumped 5.5 bbls water behind slurry. CIP 0315 10-21-96. Pulled 3 stands. CIRC @ 3/4 BPM & PU to 3560 circ out @ 12 BPM. Circ out 5bbls CMT contaminated mud/water interphase- clean break to good mud - water, water brought out good load of cuttings - POOH & LD tubing tail string. MU Bit No. 1 TIH to 3500' (Brk. circ. @ 2500' - ok) wash down Tag CMT @ 3600' circ. out thick mud, clean out to 3700' circ. and cond. mud change over to gelite SP101 and mt up to 10.0 ppg, clean out CMT to 3716. Test drill, WOB 10k, 300-400 fph CIP 15 hrs. circ out - clean out 3716 to 3740 inc WOB to 15k drilled 80-250 fph left 10' CMT in 9 5/8 above section top @ 3750 - circ. hole clean - slug pipe. POOH to Test BOPS - LD 7" DCS.

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10-23-96	FIN LD 7" DCS (4) CH pipe rams to 2 7/8 x 5 VBR's top & 4 1/2 on BTM, RU to test BOPS install test plug on - RU test pump to choke manifold - ATT to test BOPE - could not get test plug to seat, ATT to test CSG & blind rams to 1000 PSI. Did not test. Drain BOP stack and riser - wash out w/mud and water remove some metal cuttings, PU Kelly RIH and washout Tbg. Hgr. above raise kelly - Function rams washout bowl again - drain stack, remove lock -down pin, change test plug observe landing thru lockdown oriface - plug landed OK - PU to 2100 against VBR and test plug dropped 4" fully landed. Test BOPE lines, RAMS & valves 250/2100 - annular to 250/1400 - VBRS leaked after PU to test kelly - could not get VBRS to seal. (Had tested earlier - OK). Hydrik service rep. on morning boats to inspect failed brand new VBR's.
10-24-96	Install fast plug and fill stack. Try to P.T. VBR - No test. LD 2 jts. D.R. Remove VBR & install 5" rams, P.U. Test string & MU Test plug,, P.T. pipe rams 250 low + 2100 high, L.D. test string and fast plug, MU baker full bore - Tension PKR, RIH to 1853' RU + circ. sat PKR = PT csg. 1000 PSI - OK, RIH and set PKR @ 3246 , PT Csg. 1000 PSI - OK RIH and set PKR @ 3526 and PT Csg. 1000 PSI - OK, RIH and set PKR @ 3713 ft. pressure test Csg. 1000 PSI - OK, circ. bottoms up, POOH check PKR, leave HWD out and RIH w/ 4 1/2 DP, MU head and circ., RU B.J. P.T. lines to 3500 PSI set PKR @ 3452' pump 5 bbls H2O for injection rate 1 1/2 BPM @ 1700 PSI.
10-25-96	B.J. M & P 200 cu' (174svs) G CMT,w/pkr set @ 3452, CIP @ 0100 10-24-96, SI pressure 900 PSI after 3 hours, bleed off 1/4 bbls + pressure went to 0, bleed off annulus, open annulus and unseat PKR and reverse out, 60 bbls, POH + L.D. PKR C.O. rig floor MU 8 1/8" BIT & RIH, tag CMT stringer 3453', C.O. stringers to 3676', circ. & WOC, CO CMT to 3707' circ. CO CMT to 3750' + circ., POH, PU bit motor and MWD..
10-26-96	PU 6 JTS, HWDR + RIH, LD 15 JTS excess DP. Circ. & orient drill F/3750, T/3762, circ. perform P.I.T. 13.5 PPG EMW. Drill F/3762, T/3844, Pull T/3750 + circ. perform P.I.T. 13.5 PPG EMW, RIH Drill F/3844, T/4403 circ. , POH, P.U. Jars + RIH A.R.T.
10-27-96	RIH wash F/4372', T/4403', Drill F/4403' T/4660' work on brake, POH to shoe, Remove flooring over rotor motor and brake, remove air brake assembly and remove brake pads, install air brake replace flooring, RIH drill F/4660', T/4743' - swivel Pkg. leaking, POH to shoe, change out wash pipe and packing ,RIH.
10/28/96	Circ and wash F/4701', T/4743', drill F/4743' T/5367' Circ wipe hole F/5367' T/4717' Drill F/5367' T/5864', Circ. POH LD 12 JTS DP, Change bits, check tools, RIH to 3738', replace mud gauge on stand pipe, Fix air leak on high,clutch and adjust brakes. RIH w/bit #2 T/5822 .
10-29-96	Circ. and wash F/5882 T/5864' Drill F/5864' T/6270' circ., wipe hole F/6270' T/5620', Drill F/6270' T/6519', Circ and work mud pumps, drill F/6519' T/6598'.
10-30-96	Drill, F/6598 T/6613, Circ. Wipe hole F/6613' T/5869' circ and wash F/6571' T/6613' Drill F/6613' T/7000' circ , POH L.D. BHA, MU test plug + test assembly, P.T. BOPS A.R.T.

COPY TO REGION

PLATFORM Gilda
Workover Report

Date	Description
	WELL # S89-
11/1/96	POOH, Ran platform express logs (AIT,DENS,NEURON,GR) MCFL/ML, F/6988, T/3750, RIH T/7000 , Circ., POOH Ld jars, R.U. to run 7" csg., MU F/shoe and run 7" csg. A.R.T.
11/3/96	CUT OFF 7" csg., RD BOP lift kit LD cut off, pull diverter and PU BOPS, Dress Csg. and install packoff, NU tbg. Spool, PT seal assembly to 3000 PSI, turn well over to production , lower BOPS and MU lower clamp on riser. Change out pipe rams. Install 3 1/2" RAMS in bottom and 2 7/8' rams in top. PT csg. to 2100 PSI F/30 min. (Cleaning MUD PIT's) MU test plug and 2 7/8" test string attempt to PT annular. No test on annular change out 4" valves on both stand pipes A.R.T.
11/4/96	Change out 4" stand pipe valve, C.O. rig floor D.P., SUBS and handling equip., clean mud pits. Install diverter and get measurements for 13 5/8 annular, remove diverter and clamp on 20 3/4 hydril annular continue to dump and clean mud pits, load workboat, hang 20 3/4 annular on trolly.
11/5/96	Clean mud tanks w/high pressure washer. MU test plug , remove top 3 1/2 RAMS, clean 4 1/2" + 5" RAM and put in dry storage, set test plug. Pump through all mud lines w/sea water, hydril service rep. checked wear on RAM cavities. .0050 wearover minimumtolerance on slides, install new VBR's 2 7/8" x 5" attempt to PT RAMS. Pump past RAMS, back out of test plug. Pull and L.D. test JTS> Remove all RAMS F/BOPS, N.D. double gate. Pull gate out of substructure N.D. mud cross and single gate. Pull mudcross, single gate and annular out of sub structure. Install cross over spool on riser for 13 5/8" x 3000 BOPS wrong HUB connection on cross over spool. Remove spool and sand from crew boat. Clean trip tank and offload work boat A.R.T.
11/6/96	2 1/2 tbg. and 3 1/2 tbg. BJ and Baker equipt., install new salt water line to mud pits and BJ unit, MU cross to single gate and MU spool to bottom gate. MU annular to double gate on the drill deck, PU single gate and Mud cross + MU choke and kill lines, offload XOspool (20 3/4 HUB x 13 5/8 flange) + MU to riser. NU BOP's A.R.T.
11/8/96	Fin picking up 2 7/8 6.50 N-80 8rd to 6773 (Tag CMT) total 215 JTS-LD Jts and POOH and stand back 71 Stds. MU 6 1/8 BIT and BHA and TIH with 3 1/2 9.3#/FT 501 Tbg. , then cont. in hole strapping and PU 3 1/2, tubing off rack - tag-up @ 6771, break out and LD DP subs F/Kelly and MU 3 1/2 tbg. SUB's to Kelly, drill CMT wiper plugs and F/C (6800') + 45' CMT below FC to 6845' tbg. meas. - pumped sweep after drlg., and circ. hole clean,RU test equip. clean VBR's and tested, 7" csg. to 2500 PSI 15 min. OK, RD test pump and POOH.

PLATFORM Gilda
Workover Report

PROPRIETARY DATA

Date	Description
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11/3/96	CUT OFF 7" csg., RD BOP lift kit LD cut off, pull diverter and PU BOPS, Dress Csg. and install packoff, NU tbg. Spool, PT seal assembly to 3000 PSI, turn well over to production , lower BOPS and MU lower clamp on riser. Change out pipe rams. Install 3 1/2" RAMS in bottom and 2 7/8' rams in top. PT csg. to 2100 PSI F/30 min. (Cleaning MUD PIT's) MU test plug and 2 7/8" test string attempt to PT annular. No test on annular change out 4" valves on both stand pipes A.R.T.
11/4/96	Change out 4" stand pipe valve, C.O. rig floor D.P., SUBS and handling equip., clean mud pits. Install diverter and get measurements for 13 5/8 annular, remove diverter and clamp on 20 3/4 hydril annular continue to dump and clean mud pits, load workboat, hang 20 3/4 annular on trolly.
11/5/96	Clean mud tanks w/high pressure washer. MU test plug , remove top 3 1/2 RAMS, clean 4 1/2" + 5" RAM and put in dry storage, set test plug. Pump through all mud lines w/sea water, hydril service rep. checked wear on RAM cavities. .0050 wearover minimumtolerance on slides, install new VBR's 2 7/8" x 5" attempt to PT RAMS. Pump past RAMS, back out of test plug. Pull and L.D. test JTS> Remove all RAMS F/BOPS, N.D. double gate. Pull gate out of substructure N.D. mud cross and single gate. Pull mudcross, single gate and annular out of sub structure. Install cross over spool on riser for 13 5/8" x 3000 BOPS wrong HUB connection on cross over spool. Remove spool and sand from crew boat. Clean trip tank and offload work boat A.R.T.
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11/8/96	Fin picking up 2 7/8 6.50 N-80 8rd to 6773 (Tag CMT) total 215 JTS-LD Jts and POOH and stand back 71 Stds. MU 6 1/8 BIT and BHA and TIH with 3 1/2 9.3#/FT 501 Tbg. , then cont. in hole strapping and PU 3 1/2, tubing off rack - tag-up @ 6771, break out and LD DP subs F/Kelly and MU 3 1/2 tbg. SUB's to Kelly, drill CMT wiper plugs and F/C (6800') + 45' CMT below FC to 6845' tbg. meas. - pumped sweep after drlg., and circ. hole clean,RU test equip. clean VBR's and tested, 7" csg. to 2500 PSI 15 min. OK, RD test pump and POOH.

Barajas
NOV 27 1996

MINERALS MANAGEMENT SERVIC
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20605-01	S-89	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ____	ACIDIZE ____	FRACTURE ____	PLUG BACK ____	WORKOVER ____	Shut-In
	ALTER CASING ____	INITIAL COMPLETION ____	PULL CASING ____	OTHER ____	
	ARTIFICIAL LIFT ____	MULTICOMPLETION ____	RECOMPLETION ____		
	CHANGE ZONE ____	PERFORATE ____	SIDETRACT X		
SUBSEQUENT REPORT X	DEEPEN ____	PERM ABANDONMT ____	TEMPORARY ABANDONMENT ____		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03528 E 07916	P-0216	4861	6B	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ____	205	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Revise step #5 of procedure submitted with Sundry Notice Approved 10/3/96 to set cement retainer above permanent packer at 9531 prior to squeezing existing perforations and not leave 50' of cement on top of packer as originally planned. Verbal approval given for this procedural change by Jack McCarthey on 10/15/96.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
	10/16/96

RECEIVED
OCT 17 1996
MINERALS MGMT. SERVICE
CAMARILLO DISTRICT

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE acting District Supervisor

DATE 10/17/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH OPERATING COMPANY
201 S. Broadway
Orcutt, CA 93455

RECEIVED
OCT 21 1996
MINERALS MGMT. SERVICE
CAMARILLO DISTRICT

TEL 805-934-8261
FAX 805-937-8709

October 18, 1996

Mr. Rishi Tyagi
District Manager
Minerals Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RE: Sundry Notice for Platform Gilda
Well #S-89-Subsequent Report - Second Notice

Mr. Tyagi:

Please accept the enclosed notice as referenced above. You will find an original and two copies (including a 'Public Information' copy) as per your requirements.

If you have any questions, please give Jim Martin or myself a call at (805) 739-9111.

Thank you,

Lisa A. Chacon
Environmental Clerk

PLATFORM Gilda
Workover Report

Date	Description
	WELL # S89- *POOH To Test BOPS*
10-19-96	POOH laying down DP to 3800'. Transfer mud to active pits, build mud VOL.. and wt up to 9.5 displace Seawater with 9.5 ppg Mud @ 3800' - POOH STD back 32 stands and LD 32 vts.. PU and assemble kelly. PU Baker 9 5/8 section mill & BHA. TIH to 3740' SLM. PU Kelly - pump thru lines and Kelly MU lower Kelly valve and saver subs - test Kelly, lines and hose to 2500 PSI swivel leaked - tighten swivel and adjust kelly hose retest to retest to 2500 PSI OK. - Brk. circ. @ RT.
10-20-96	Brk circ. & start mill . Mill 3750 -3751 open arms. Check for flow, Neg. Mill 9 5/8 to 3761 (11') catching mill cuttings in bins, work "birdnest" off mill pump sawdust, sweep mill 9 5/8 section to 3800' (50'). Sweep hole - POOH to 3463' pipe dragging 100k over string wt. on each stand- att to pump hole. neg. Work mill back to section w/Kelly. Brk. circ. @ 3795 circ. hole clean - rotate and work pipe 3800-3750, circ. hole clean again. Work mill into 9 5/8 and out ATT to clean off section mill. Circ. Hivis sweep w/sawdust. Work 5 stands out to 3029'.
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SUNDRY NOTICES AND REPORTS ON WELL

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OMB No. 1010-0045
Expiration Date:

1 ORIGINAL / CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20605-01	S-89	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	Shut-In
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03528 E 07916	P-0216	4861	6B	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Revise step #5 of procedure submitted with Sundry Notice Approved 10/3/96 to set cement retainer above permanent packer at 9531 prior to squeezing existing perforations and not leave 50' of cement on top of packer as originally planned. Verbal approval given for this procedural change by Jack McCarthey on 10/15/96.

OCT 22

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin 10896	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
	10/16/96

RECEIVED
OCT 7 1996
MINERALS MGMT. SERVICE
CAMARILLO DISTRICT

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE Acting District Supervisor

DATE 10/17/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

Confidential

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045

Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20605 01	S-89	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE	FRACTURE	PLUG BACK	WORKOVER	Shut-In
	ALTER CASING	INITIAL COMPLETION	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		
	CHANGE ZONE	PERFORATE	SIDETRACT X		
SUBSEQUENT REPORT	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03528 E07916	P-0216	4861	6B	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See Attached

ENTERED IN OCSIS OCT 3 1996 BY:

OCT - 3 7.8.78

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	ES&RC Manager

30. AUTHORIZING SIGNATURE	31. DATE
	OCT 0 4 1996

MINERALS MANAGEMENT SERVICE PACIFIC OCS REGION FIELD OPERATIONS CAMARILLO

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for/ District Supervisor

DATE 10/3/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

OSC-P0216
PLATFORM GILDA
WELL S-89
LOCATION OF WELL

AT SURFACE:	07916 FWL & 03528 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1041684.4 Y= 748008.0
KICKOFF POINT:	09941 FWL & 03668 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1039659 Y= 747868
TARGET NO. 1: LP-B SAND	11517 FWL & 03845 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1038173 Y= 747800
BOTTOM HOLE LOCATION:	11747 FWL & 03886 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1037853 Y= 747649

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-89 DRILLING PROGRAM
REDRILL OF S-53

Proposed TD: 5408' TVD / 7019' MD

Surface Location: Slot No. 6
X= 1041684 Y= 748007

Subsurface Location: 359' South and 3831' West of the surface location at 5408' TVD

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	VSS	TVD	MD	Est. Press.(psi)
MP-1B1	3003'	3110'	4364'	1200-1500
MP-3	3919'	4026'	5448'	1200-1500
LP-1	4190'	4297'	5757'	1200-1500
LP-2	4321'	4428'	5900'	1200-1500
LP-3	4593'	4700'	6210'	3100-3200
LP-4	4698'	4805'	6339'	3100-3200
LP-B	4877'	4984'	6536'	3100-3200
LP-B2	5028'	5135'	6707'	3100-3200
LP-D	5236'	5343'	6948'	2200-2500

Existing Casing

20", 94#, X-52	0-726'
16", 75#, X-52	0-1625'
13 3/8", 54.5 & 68#, K-55	0-3677'
9 5/8", 47#, N-80	0-10303'
5 ½", 15.5 & 17#, K-55 SSWW Liner	9589'-10215'

Perforations

9674'-9862'	12-3/4" HPF
9910'-10211'	12-3/4" HPF
9670'	4-1/2" Squeeze Holes
9910'	4-1/2" Squeeze Holes

Drilling Procedure

1. MIRU wireline. Pull SSSV from the X-nipple @ 796'. Open the "XA" sleeve @ 9496' and change the well over to seawater. Bleed the well down to the production system.

2. Skid the rig over slot #6, well S-53.

3. Check tubing and casing pressure and circulate kill weight mud if necessary. Install a BPV and nipple down the tree. Install a new tubing spool on top of the existing wellhead to allow the 7" casing to be landed and the tubing run and landed in the new spool. Nipple up a 20 3/4", Class IV, 3M BOPE. Test BOPE at 250/2100 psi in accordance with Field Rules and MMS regulations.

4. Unsting from the packer at 9531' and circulate the well with seawater or kill weight mud. Pull and lay down the production equipment. Run in the hole and stab back into the Otis "WB" packer at 9531'.

5. With the seal assembly stabbed into the packer establish a breakdown rate and pressure. Abandon the existing production interval by down squeezing cement (100 cu. ft.) through the permanent packer and balancing a 50 cu. ft. cement plug on top of the packer. Pull above the top of the cement, circulate clean and WOC.

6. RIH and tag the top of the cement. Change the well over to 9.5 ppg gel abandonment mud from the top of the cement to 3700'. Pull out of the hole laying down the production tubing.

Note:

1) See attached cementing program for abandonment cement slurry specifications.

7. Run in the hole picking up 5" drill pipe and a section mill. Mill a window from 3750' to 3800'. The milling fluid will need to have a minimum of 100 sec. viscosity. Pump at high rates and sweep the hole with sawdust to remove the metal cuttings. Pull out of the hole and pick up a 15" under reamer. Run in the hole and and underream the milled section to 15".

8. Pick up a 2 7/8" tubing stinger and run in the hole. Balance a cement plug from 100' below the window , across the window and 100' above the window.

Note:

1) See the attached cementing program for the slurry specifications. A high density cement slurry (16.5 ppg) will be used for the kick off plug.
2) Consider using a drill pipe wiper dart when laying the cement plug.

9. Run in the hole with an 8 ½" bit and polish off the cement plug. Pull out of the hole. Run in the hole with a steerable directional drilling assembly. Drill 15' of new formation and perform a pressure integrity test at the shoe to 13.5 ppg EMW. Continue directionally drill an 8 ½" hole from 3800' to 5408' TVD / 7019' MD (through the LP-D Sands). Treat the mud system for cement contamination. The mud system to be used through the openhole section will be seawater, SP-101 and pre-hydrated gel.

Note:

1) The LP-2 through LP-4 could be over pressured requiring 11.5 to 12.0 ppg mud weights.
2) Mud loggers to start upon drilling out the window.
3) See the attached drilling fluids program.

10. At total depth circulate and condition the mud for electric logging. Wipe the hole to the 9 5/8" casing shoe. Pull out of the hole and rig up wireline. Run a quad-combo consisting of AIT/PLT/MSFL and DP Sonic from 3800' to 7019'. Rig down wireline.

11. Run in the hole and circulate and condition the mud for running casing. Wipe the hole to the 9 5/8" casing shoe. Run back to bottom and pull out of the hole laying down the 5" drill pipe.

12. Rig up casing crew and run the 7", 26#, N-80, Hydril 521 & LT&C casing from 7019' to surface as follows;

A) 7", Hydril 521, Float Shoe
B) 2 jts. of 7", Hydril 521, casing
C) 7", Hydril 521, Float Collar
D) 3420' of 7", Hyrdril 521, casing
E) 7" x-over: Hydril 521 x LT&C
F) +/- 3500' of 7", LT&C, casing

Note:

1) Positive standoff centralizers to be placed two per joint through the zones of interest then one every other joint to the 9 5/8" shoe.
2) Thread lock the shoe and the next 2 collars.

13. With the casing on bottom, circulate the well a minimum of two casing volumes or until the mud returns are clean. Mix and pump cement per the attached program. Reciprocate the casing while circulating, mixing and displacing the cement. Displace the cement at a high pump rate (8 to 10 bbls/min). Bump the plug with 500 psi above the final circulating pressure and check the floats.

Note:

1) See the attached cementing program for slurry specifications.

14. Land the 7" casing in the existing tubing spool and back out the landing joint. Activate the 7" by 9 5/8" casing packing.

15. Turn the rig and well over to the production department.

Completion Procedure

16. Pick up the production tubing and 7" scraper and run in the hole. Change the well over to clean completion fluid. Pull out of the hole.

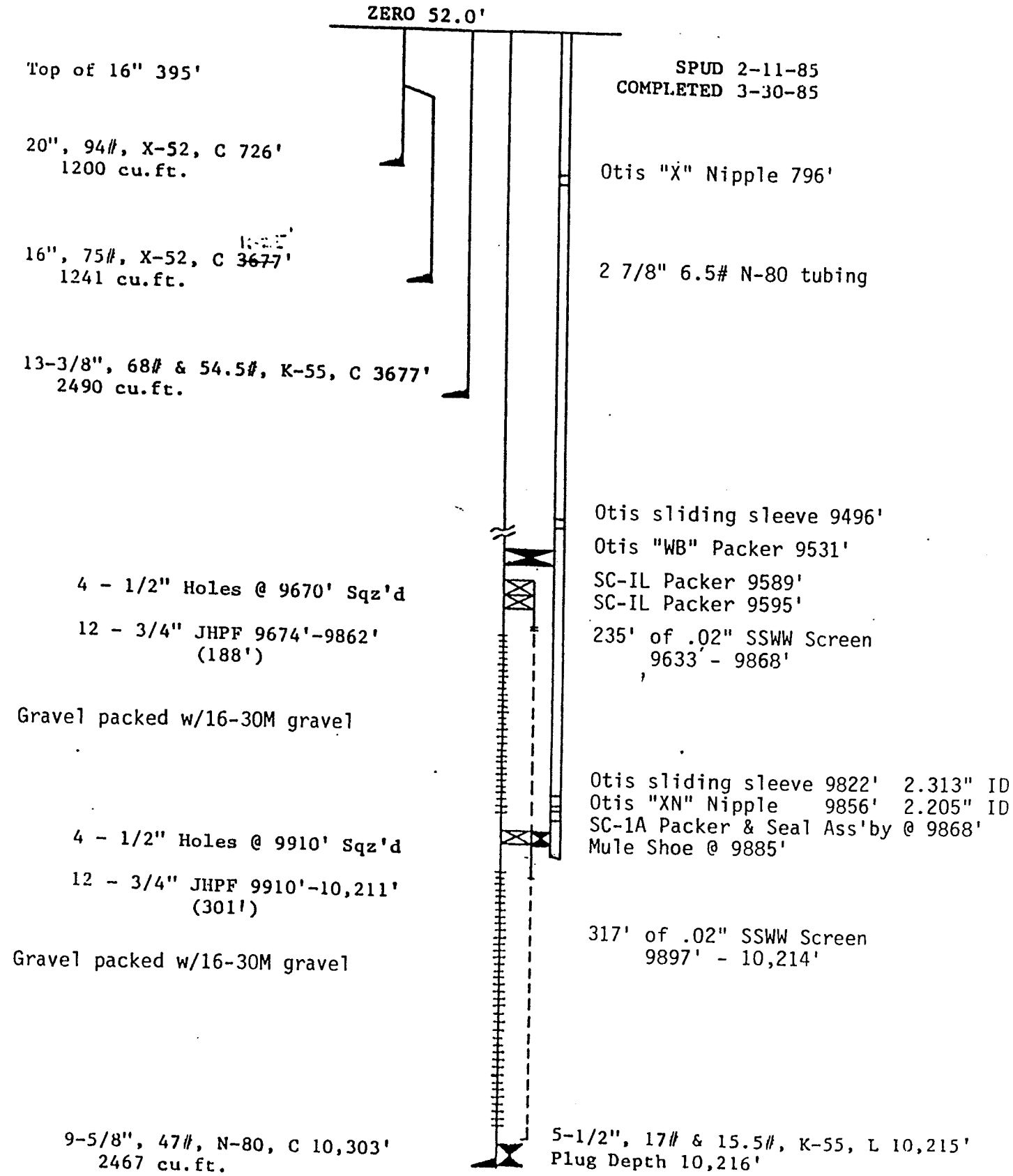
17. Rig up wireline and run a CBL/VDL/Neutron correlation log. Review the log and decide on the need to squeeze cement any zones of interest.

18. Perforate and hydraulically fracture stimulate the LP-B1 and LP-B sands. Clean out the fracture sand. Place the well on production and determine if a gravel pack is needed to produce the well without sand production.

19. If sand production is a problem, perforate any additional zones of interest and run a 5" SSWW screen across the entire perforated interval and gravel pack.

20. Run the production equipment and hydro test the tubing into the hole. Land the tubing with a back pressure valve and nipple down the BOPE. Install the production tree and release the rig.

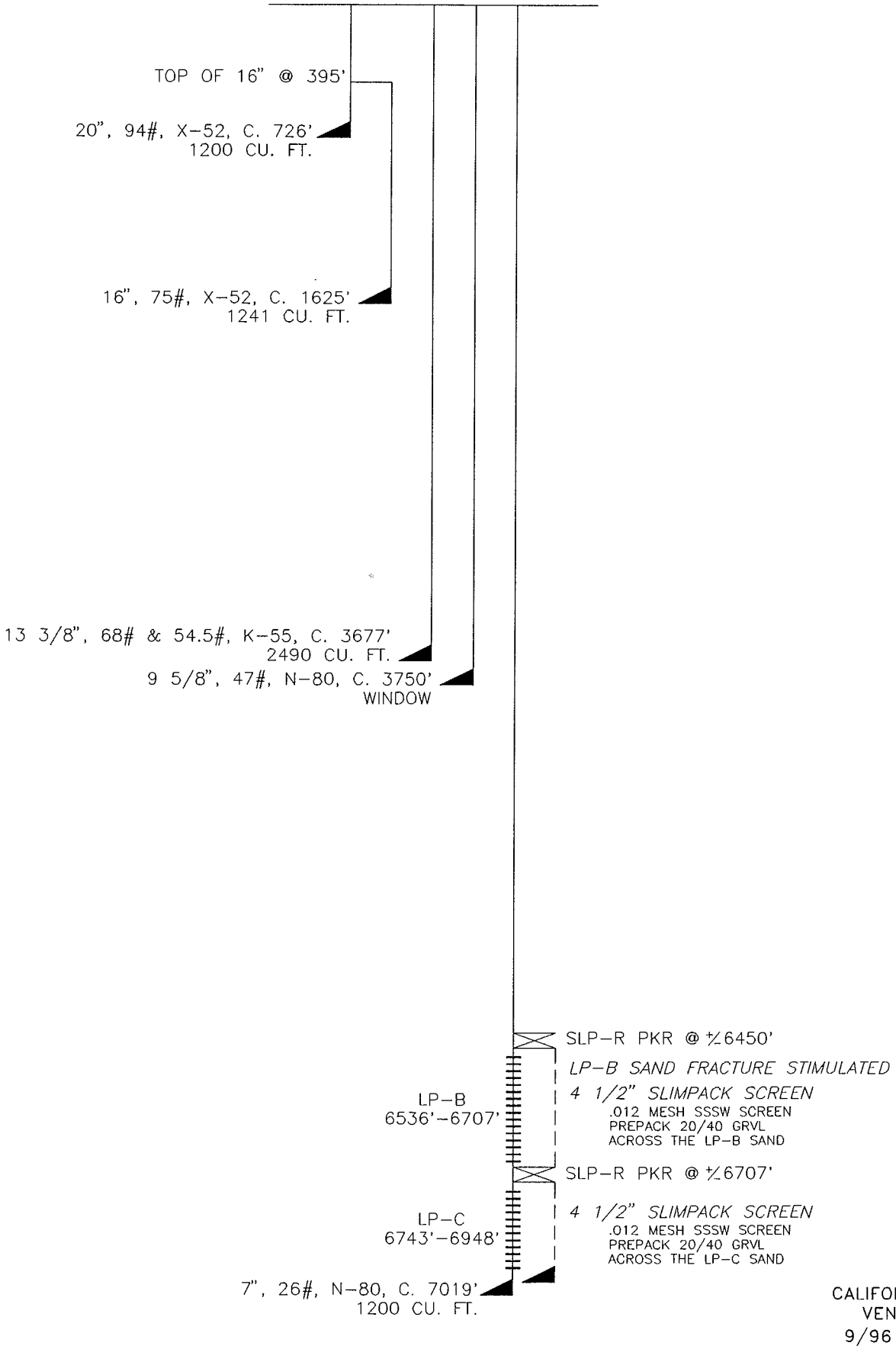
SANTA CLARA UNIT
WELL S-53 (SLOT 6)



GER 6-18-88

ANTA CLARA UNIT
Well #S-89

Slot #6



TORCH OPERATING COMPANY

CALIFORNIA OPERATIONS
VENTURA COUNTY
9/96 RJDIII

OCS-P0216
PLATFORM GILDA
WELL S-89
CASING DESIGN

9 5/8" CASING

Effective Setting Depth (KOP) = 3750' MD / 2749' TVD

Existing: 9 5/8", 47#, N-80, LT&C 8 Rnd
Estimated Top of Cement: +/- 2500'

Collapse

Original mud weight for the 9 5/8" casing interval = 10.1 ppg

P_c = (2749') (10.1 ppg) (.052) = 1444 psi

S_F = 4750 psi / 1444 psi = 3.29

Tensile

N/A (already set and cemented)

Burst

Burst with gas to surface for BHP = 3200 psi
WHP = 2880 psi

S_F = 6870 psi / 2880 psi = 2.38

7 " Casing @ 5408' TVD, 7019' MD

Collapse

Maximum mud weight of 11.5 ppg @ casing point, pipe evacuated @ TD.

P_C = (5408') (11.5 ppg) (.052) = 3234 psi

7 ", 26#, N-80 Pressure Rating w/ 1.25 safety factor
(5410 psi) / (1.25) = 4328 psi

S_F = 4328 psi / 3234 psi = 1.34

Burst

Anticipated BHP of 3200 psi
Maximum anticipated WHP w/ .1 psi/ft. gas = 2880 psi

7", 26#, N-80 P_B = 7240 psi

S_F = 7240 psi / 2880 psi = 2.51

Tensile

Buoy Weight = (26) (7019') (.8243) = 150429#
W/ 11.5 ppg Drilling Mud

7", 26#, N-80, LT&C Joint = 519000#
Body = 604000#

S_{FJT} = 519000 # / 150429 # = 3.45

S_{FB} = 604000# / 150429# = 4.02

Maximum Overpull w/ S_F

Jt = 519000# / 2 - 150429# = 109071#

WELL #S-89

Abandonment Plug

Depth	9150'	
Cement Volume	150 ft3	
BHST	180' F (estimated)	

Cement Design ***(150 ft3)***

Premium Cement	Yield	1.15 ft3/sk
Halad-322 (.5%)	Density	15.8 lb/gal
HR-5 (.1%)	Water	5.0 gal/sk (fresh)

Kick-off Plug

Depth	3700'
Hole Size	18"
BHST	120' F (estimated)
Excess	100%
Casing	9 5/8"

Cement Design

Premium Cement	Yield	.99 ft/sk
CFR-3 (.75%)	Density	17.0 lb/gal
	Water	3.78 gal/sk (fresh)

Liner Job

Depth	7000'
Liner	7"
Hole Size	8 1/2"
BHST	150' F (estimated)
Excess	30% in open hole
Cement Top	3400'

Cement Design

Premium Cement	Yield	1.15 ft3/sk
Halad-322 (.75%)	Density	15.8 lb/sk
	Water	5.0 gal/sk (fresh)

OCS-P0216
PLATFORM GILDA
WELL S-89
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
3750'-7019'	DIL/GR/MSFL

Mud Logs

Interval (MD)	
3750'-7019'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

OCS P-0216
PLATFORM GILDA
WELL S-89
BOP Program

9 5/8"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 2500 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi
7"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 2500 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which is prior to drilling out the 9 5/8" casing and at 7 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-89
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position toll joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 2000 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	3 RPM READING	FLUID LOSS (cc 30 min)	MUD COMPONENTS
3700'-3750	9.6 ppg	80-100	25+	NC	Seawater Durogel Soda Ash
		Mill Window in 9-5/8" Casing			
3750'-7000'	12.0-12.5	40-50		6-8 cc	Seawater Gelite SP 101 Soltex SXC Polymer
		Set Casing @ 7000'			

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate gas cut mud out (small intrusion).
    b) Raise mud weight if necessary

2. Kick

    a) Prevention. Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking

    a) Maintain a low fluid loss.
    b) Maintain 3 - 6 ppb of Soltex in the system.

4. Tight Hole

    a) Wipe the hole.
    b) Reduce the fluid loss if necessary.

5. Solids Build-up

    a) Run all applicable solids control equipment.
    b) Dilute.

6. Foaming

    a) Use Defoam X.
    b) Add fresh Gelite.

DISCUSSION BY INTERVAL

INTERVAL:	Milling	9-5/8" Casing	3700' - 3750'

FLUID TYPE: Milling Fluid

COMPONENTS WITH TYPICAL USAGE LEVELS:

Durogel	25 ppb
Soda Ash	.5 ppb
Sawdust	as needed
Barite	as needed for weight

RECOMMENDED MUD SPECIFICATIONS:

Density	9.5
Viscosity	100± sec/qt.
PV:YP: Ratio	1:4 - 1:5
Fluid Loss	no control
3 rpm reading	20+
Gels	22 / 31

POSSIBLE PROBLEMS / SOLUTIONS:

1. Hole Cleaning
   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

DISCUSSION:

Use the clay base left from abandoning the S-53 well for milling. Add enough Durogel to convert it into a milling fluid.

Use this same fluid to underream the window and lay the cement plug. Thin back the milling fluid with a small amount of chrome free Desco for polishing off the cement plug and for any leak off tests.

DISCUSSION:

Changeover to a pre-mixed 10.0 ppg seawater/Gelite-SP-101.

Gradually increase the mud weight while drilling ahead. Have the entire system wieghted up to 12.0 ppg by 5850' (top of the LPA is projected to be around 6250'MD / 4805'TVD).

Closely monitor the well for gas while drilling ahead - a higher mud weight might be required sooner.

Differential sticking is a potential problem in this interval, especially in the Pico sands. A concentration of 3 lbs/bbl of Soltex is recommended to be maintained in the system at all times.

Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. Sp-101 should be added to control the API fluid loss in the 6 - 8 cc range.

Keep 80 to 100 barrels of a spotting fluid on the platform for differential stuck pipe.

Soda Ash should be added to keep the Calcium level below 200 Mg/L. This will help the effectiveness of the SP-101 and other chemicals.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 200 mesh screen on the mud cleaner.

Barite should be used to maintain the proper mud density.

With the hole angle at 60°, there is the possibility of the cuttings sliding down the hole if there isn't any pipe rotation; we recommend a small amount of XCD polymer be added to the system if needed to help adequately clean the hole.

TORC'' OPERATING COMPANY

Structure : PLATFORM GILDA | Well : S-53 RD1 (A1)

Field : OFFSHORE SANTA BARBARA | Location : CALIFORNIA

BAKER HUGHES INTEQ

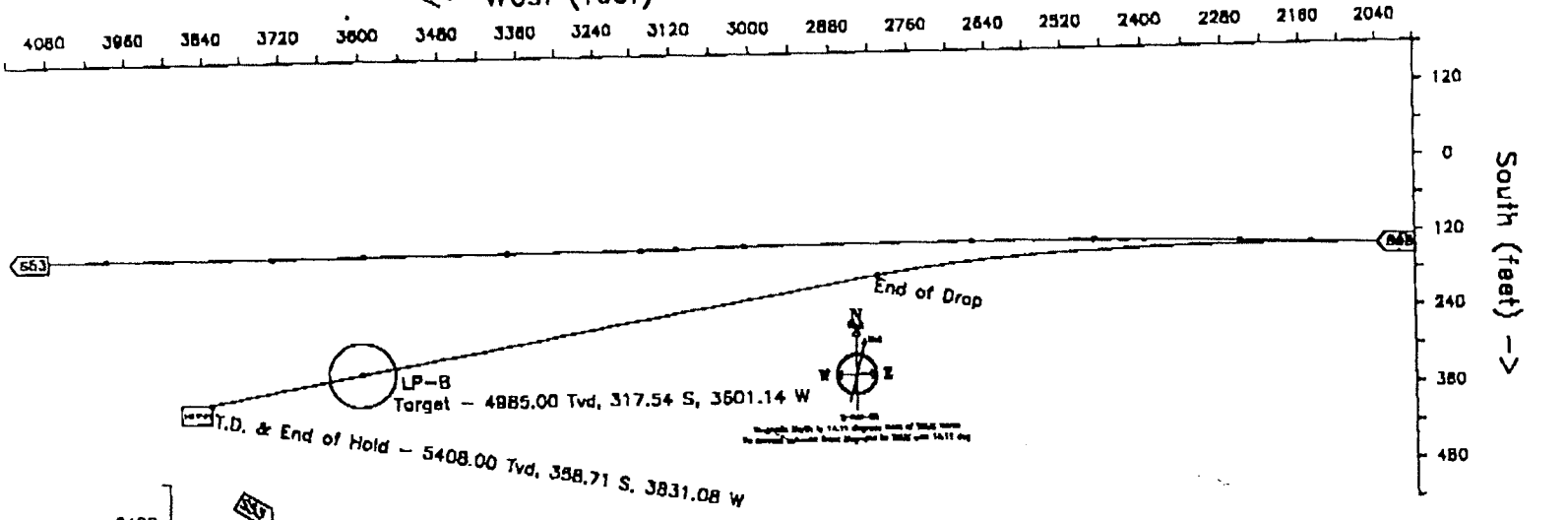
QUALITY ASSURANCE AUTHORIZATION

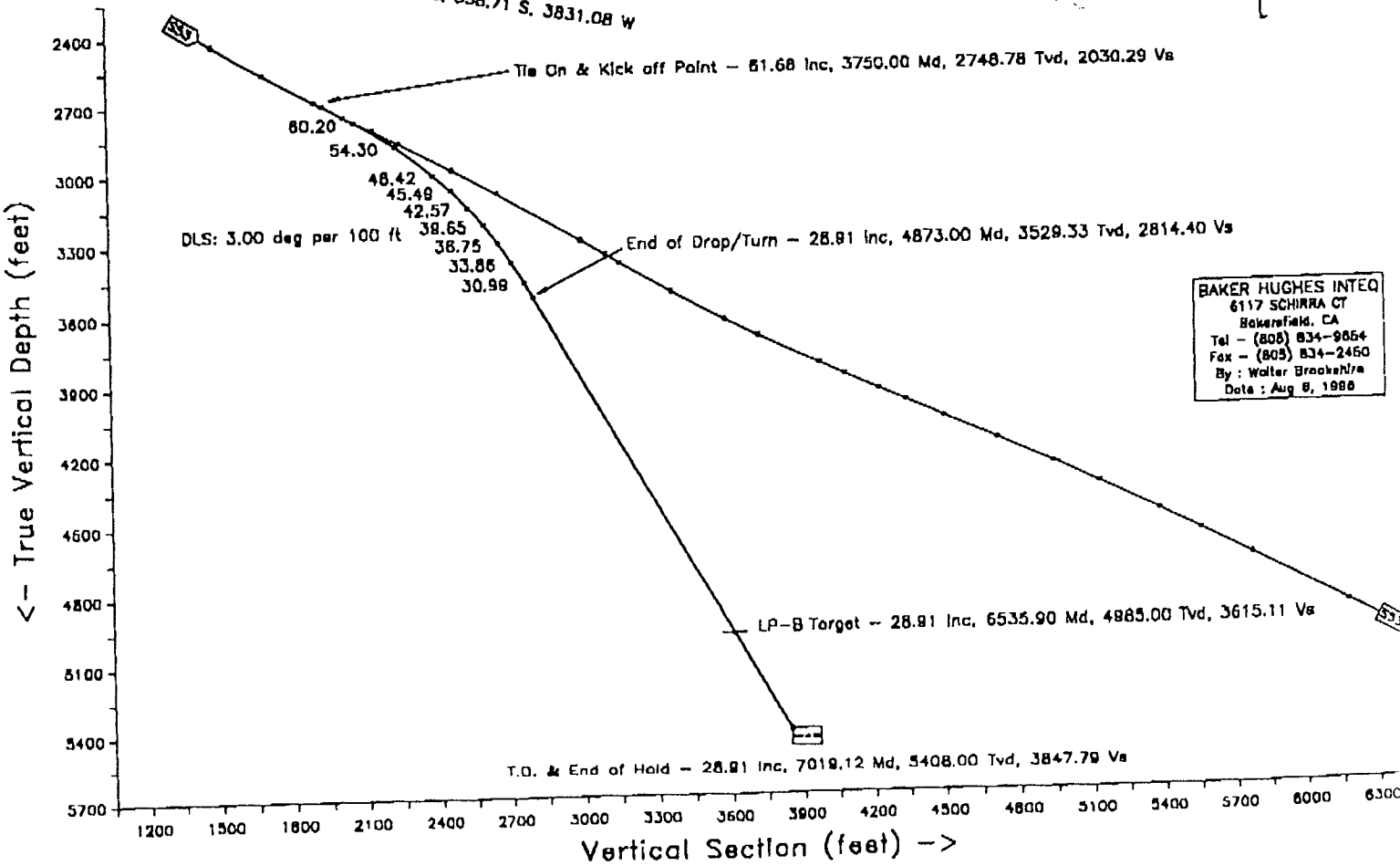
CUSTOMER SIGNATURE | DATE

COORDINATOR SIGNATURE | DATE 8/4/96

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	Deg/100
KOP	3750.00	61.68	271.54	2748.78	-140.32	-2025.79	0.00
End of Drop/Turn	4873.00	28.91	258.85	3529.33	-175.67	-2809.81	3.00
Target LP-B	6535.90	28.91	258.85	4985.00	-317.54	-3601.14	0.00
T.D. & End of Hold	7019.12	28.91	258.85	5408.00	-358.71	-3831.08	0.00





BAKER HUGHES INTEQ
6117 SCHIRRA CT
Bakersfield, CA
Tel - (805) 834-9854
Fax - (805) 834-2460
By : Walter Brockshire
Date : Aug 6, 1996

TORCH OPERATING COMPANY
PLATFORM GILDA

Well : 853
slot #6
OFFSHORE SANTA BARBARA
CALIFORNIA

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Renamed 5-89

Your ref : S-53 RD1 (A1)
Our ref : prop2681
License :

Date printed : 6-Aug-96
Date created : 6-Aug-96
Last revised : 6-Aug-96

Field is centred on n34 10 56.434,w119 25 6.83
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.608,w119 25 7.413
Slot Grid coordinates are N 748007.988, E 1041684.351
Slot local coordinates are 17.50 N 49.20 W

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

TORCH OPERATING COMPANY
PLATFORM GILDA,SS3
OFFSHORE SANTA BARBARA,CALIFORNIA

Your ref : S-53 RD1 (A1)
Last revised : 6-Aug-96

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	
3750.00	61.68	271.54	2748.78	140.32 S	2025.79 W	0.00	2030.29	
3800.00	60.20	271.24	2773.06	139.25 S	2069.48 W	3.00	2073.71	
3900.00	57.25	270.60	2824.97	137.88 S	2154.93 W	3.00	2158.71	
4000.00	54.30	269.92	2881.21	137.50 S	2237.60 W	3.00	2241.03	
4100.00	51.36	269.18	2941.62	138.11 S	2317.28 W	3.00	2320.45	
4200.00	48.42	268.38	3006.03	139.73 S	2393.74 W	3.00	2396.76	
4300.00	45.49	267.51	3074.28	142.33 S	2466.77 W	3.00	2469.74	
4400.00	42.57	266.54	3146.17	145.92 S	2536.17 W	3.00	2539.19	
4500.00	39.65	265.46	3221.50	150.48 S	2601.76 W	3.00	2604.92	
4600.00	36.75	264.24	3300.08	156.01 S	2663.34 W	3.00	2666.75	
4700.00	33.86	262.84	3381.68	162.49 S	2720.77 W	3.00	2724.52	
4800.00	30.99	261.22	3466.08	169.89 S	2773.86 W	3.00	2778.07	
4873.00	28.91	259.85	3529.33	175.87 S	2809.81 W	3.00	2814.40	
4900.00	28.91	259.85	3552.96	178.17 S	2822.66 W	0.00	2827.40	
5000.00	28.91	259.85	3640.50	186.69 S	2870.25 W	0.00	2875.55	
5100.00	28.91	259.85	3728.04	195.21 S	2917.83 W	0.00	2923.70	
5200.00	28.91	259.85	3815.58	203.73 S	2965.42 W	0.00	2971.85	
5300.00	28.91	259.85	3903.11	212.25 S	3013.01 W	0.00	3020.00	
5400.00	28.91	259.85	3990.65	220.77 S	3060.59 W	0.00	3068.16	
5500.00	28.91	259.85	4078.19	229.29 S	3108.18 W	0.00	3116.31	
5600.00	28.91	259.85	4165.73	237.81 S	3155.77 W	0.00	3164.46	
5700.00	28.91	259.85	4253.27	246.33 S	3203.36 W	0.00	3212.61	
5800.00	28.91	259.85	4340.80	254.85 S	3250.94 W	0.00	3260.76	
5900.00	28.91	259.85	4428.34	263.36 S	3298.53 W	0.00	3308.91	
6000.00	28.91	259.85	4515.88	271.88 S	3346.12 W	0.00	3357.06	
6100.00	28.91	259.85	4603.42	280.40 S	3393.70 W	0.00	3405.22	
6200.00	28.91	259.85	4690.96	288.92 S	3441.29 W	0.00	3453.37	
6300.00	28.91	259.85	4778.49	297.44 S	3488.88 W	0.00	3501.52	
6400.00	28.91	259.85	4866.03	305.96 S	3536.46 W	0.00	3549.67	
6500.00	28.91	259.85	4953.57	314.48 S	3584.05 W	0.00	3597.82	
6535.90	28.91	259.85	4985.00	317.54 S	3601.14 W	0.00	3615.11	LP-B
6600.00	28.91	259.85	5041.11	323.00 S	3631.64 W	0.00	3645.97	
6700.00	28.91	259.85	5128.65	331.52 S	3679.22 W	0.00	3694.12	
6800.00	28.91	259.85	5216.18	340.04 S	3726.81 W	0.00	3742.27	
6900.00	28.91	259.85	5303.72	348.56 S	3774.40 W	0.00	3790.43	
7000.00	28.91	259.85	5391.26	357.08 S	3821.98 W	0.00	3838.58	
7019.12	28.91	259.85	5408.00	358.71 S	3831.08 W	0.00	3847.79	

All data is in feet unless otherwise stated.
Coordinates from slot #6 and TVD from wellhead (214.00 Ft above mean sea level).
Bottom hole distance is 3847.84 on azimuth 264.65 degrees from wellhead.
Vertical section is from wellhead on azimuth 264.96 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Comments in wellpath

MD	TVD	Rectangular Coords.	Comment
6535.90	4985.00	317.54 S 3601.14 W	LP-B

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
LP-B	1038075.000,747800.000,0.0000	4985.00	317.54S	3601.14W	6-Aug-96

COPY TO REGION

MINERALS MANAGEMENT SERVIC
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20605 01	S-89	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	Shut-In
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03528 E07916	P-0216	4861	6B	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See Attached

OCT - 3
7e878

SEP 30

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	ES&RC Manager
30. AUTHORIZING SIGNATURE	**31. DATE**
	9-27-96

THIS SPACE FOR MMS USE ONLY

APPROVED BY Edward L. Thelen TITLE for/ District Supervisor

DATE 10/3/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

OSC-P0216
PLATFORM GILDA
WELL S-89
LOCATION OF WELL

AT SURFACE:	07916 FWL & 03528 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1041684.4 Y= 748008.0
KICKOFF POINT:	09941 FWL & 03668 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1039659 Y= 747868
TARGET NO. 1: LP-B SAND	11517 FWL & 03845 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1038173 Y= 747800
BOTTOM HOLE LOCATION:	11747 FWL & 03886 FNL of OCS-P0216
Lambert Cal 6 Coordinates	X=1037853 Y= 747649

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-89 DRILLING PROGRAM
REDRILL OF S-53

Proposed TD: 5408' TVD / 7019' MD

Surface Location: Slot No. 6
X= 1041684 Y= 748007

Subsurface Location: 359' South and 3831' West of the surface location at 5408' TVD

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	VSS	TVD	MD	Est. Press.(psi)
MP-1B1	3003'	3110'	4364'	1200-1500
MP-3	3919'	4026'	5448'	1200-1500
LP-1	4190'	4297'	5757'	1200-1500
LP-2	4321'	4428'	5900'	1200-1500
LP-3	4593'	4700'	6210'	3100-3200
LP-4	4698'	4805'	6339'	3100-3200
LP-B	4877'	4984'	6536'	3100-3200
LP-B2	5028'	5135'	6707'	3100-3200
LP-D	5236'	5343'	6948'	2200-2500

Existing Casing

20", 94#, X-52	0-726'
16", 75#, X-52	0-1625'
13 3/8", 54.5 & 68#, K-55	0-3677'
9 5/8", 47#, N-80	0-10303'
5 ½", 15.5 & 17#, K-55 SSWW Liner	9589'-10215'

Perforations

9674'-9862'	12-3/4" HPF
9910'-10211'	12-3/4" HPF
9670'	4-1/2" Squeeze Holes
9910'	4-1/2" Squeeze Holes

Drilling Procedure

1. MIRU wireline. Pull SSSV from the X-nipple @ 796'. Open the "XA" sleeve @ 9496' and change the well over to seawater. Bleed the well down to the production system.

2. Skid the rig over slot #6, well S-53.

3. Check tubing and casing pressure and circulate kill weight mud if necessary. Install a BPV and nipple down the tree. Install a new tubing spool on top of the existing wellhead to allow the 7" casing to be landed and the tubing run and landed in the new spool. Nipple up a 20 3/4", Class IV, 3M BOPE. Test BOPE at 250/2100 psi in accordance with Field Rules and MMS regulations.

4. Unsting from the packer at 9531' and circulate the well with seawater or kill weight mud. Pull and lay down the production equipment. Run in the hole and stab back into the Otis "WB" packer at 9531'.

5. With the seal assembly stabbed into the packer establish a breakdown rate and pressure. Abandon the existing production interval by down squeezing cement (100 cu. ft.) through the permanent packer and balancing a 50 cu. ft. cement plug on top of the packer. Pull above the top of the cement, circulate clean and WOC.

6. RIH and tag the top of the cement. Change the well over to 9.5 ppg gel abandonment mud from the top of the cement to 3700'. Pull out of the hole laying down the production tubing.

Note:

1) See attached cementing program for abandonment cement slurry specifications.

7. Run in the hole picking up 5" drill pipe and a section mill. Mill a window from 3750' to 3800'. The milling fluid will need to have a minimum of 100 sec. viscosity. Pump at high rates and sweep the hole with sawdust to remove the metal cuttings. Pull out of the hole and pick up a 15" under reamer. Run in the hole and and underream the milled section to 15".

8. Pick up a 2 7/8" tubing stinger and run in the hole. Balance a cement plug from 100' below the window , across the window and 100' above the window.

Note:

1) See the attached cementing program for the slurry specifications. A high density cement slurry (16.5 ppg) will be used for the kick off plug.
2) Consider using a drill pipe wiper dart when laying the cement plug.

9. Run in the hole with an 8 ½" bit and polish off the cement plug. Pull out of the hole. Run in the hole with a steerable directional drilling assembly. Drill 15' of new formation and perform a pressure integrity test at the shoe to 13.5 ppg EMW. Continue directionally drill an 8 ½" hole from 3800' to 5408' TVD / 7019' MD (through the LP-D Sands). Treat the mud system for cement contamination. The mud system to be used through the openhole section will be seawater, SP-101 and pre-hydrated gel.

Note:

1) The LP-2 through LP-4 could be over pressured requiring 11.5 to 12.0 ppg mud weights.
2) Mud loggers to start upon drilling out the window.
3) See the attached drilling fluids program.

10. At total depth circulate and condition the mud for electric logging. Wipe the hole to the 9 5/8" casing shoe. Pull out of the hole and rig up wireline. Run a quad-combo consisting of AIT/PLT/MSFL and DP Sonic from 3800' to 7019'. Rig down wireline.

11. Run in the hole and circulate and condition the mud for running casing. Wipe the hole to the 9 5/8" casing shoe. Run back to bottom and pull out of the hole laying down the 5" drill pipe.

12. Rig up casing crew and run the 7", 26#, N-80, Hydril 521 & LT&C casing from 7019' to surface as follows;

A) 7", Hydril 521, Float Shoe
B) 2 jts. of 7", Hydril 521, casing
C) 7", Hydril 521, Float Collar
D) 3420' of 7", Hyrdril 521, casing
E) 7" x-over: Hydril 521 x LT&C
F) +/- 3500' of 7", LT&C, casing

Note:

1) Positive standoff centralizers to be placed two per joint through the zones of interest then one every other joint to the 9 5/8" shoe.
2) Thread lock the shoe and the next 2 collars.

13. With the casing on bottom, circulate the well a minimum of two casing volumes or until the mud returns are clean. Mix and pump cement per the attached program. Reciprocate the casing while circulating, mixing and displacing the cement. Displace the cement at a high pump rate (8 to 10 bbls/min). Bump the plug with 500 psi above the final circulating pressure and check the floats.

Note:

1) See the attached cementing program for slurry specifications.

14. Land the 7" casing in the existing tubing spool and back out the landing joint. Activate the 7" by 9 5/8" casing packing.

15. Turn the rig and well over to the production department.

Completion Procedure

16. Pick up the production tubing and 7" scraper and run in the hole. Change the well over to clean completion fluid. Pull out of the hole.

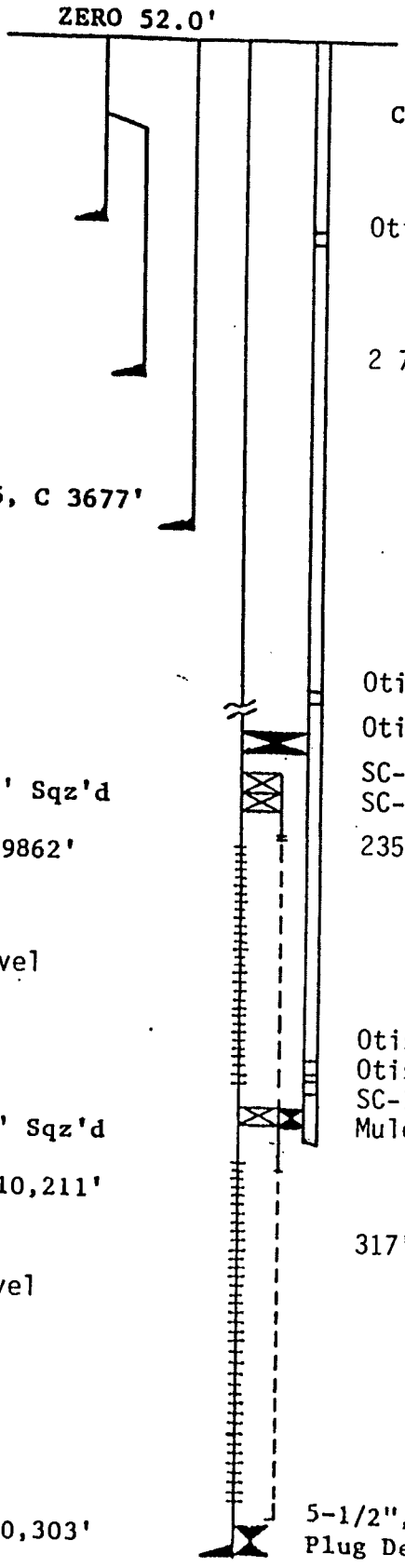
17. Rig up wireline and run a CBL/VDL/Neutron correlation log. Review the log and decide on the need to squeeze cement any zones of interest.

18. Perforate and hydraulically fracture stimulate the LP-B1 and LP-B sands. Clean out the fracture sand. Place the well on production and determine if a gravel pack is needed to produce the well without sand production.

19. If sand production is a problem, perforate any additional zones of interest and run a 5" SSWW screen across the entire perforated interval and gravel pack.

20. Run the production equipment and hydro test the tubing into the hole. Land the tubing with a back pressure valve and nipple down the BOPE. Install the production tree and release the rig.

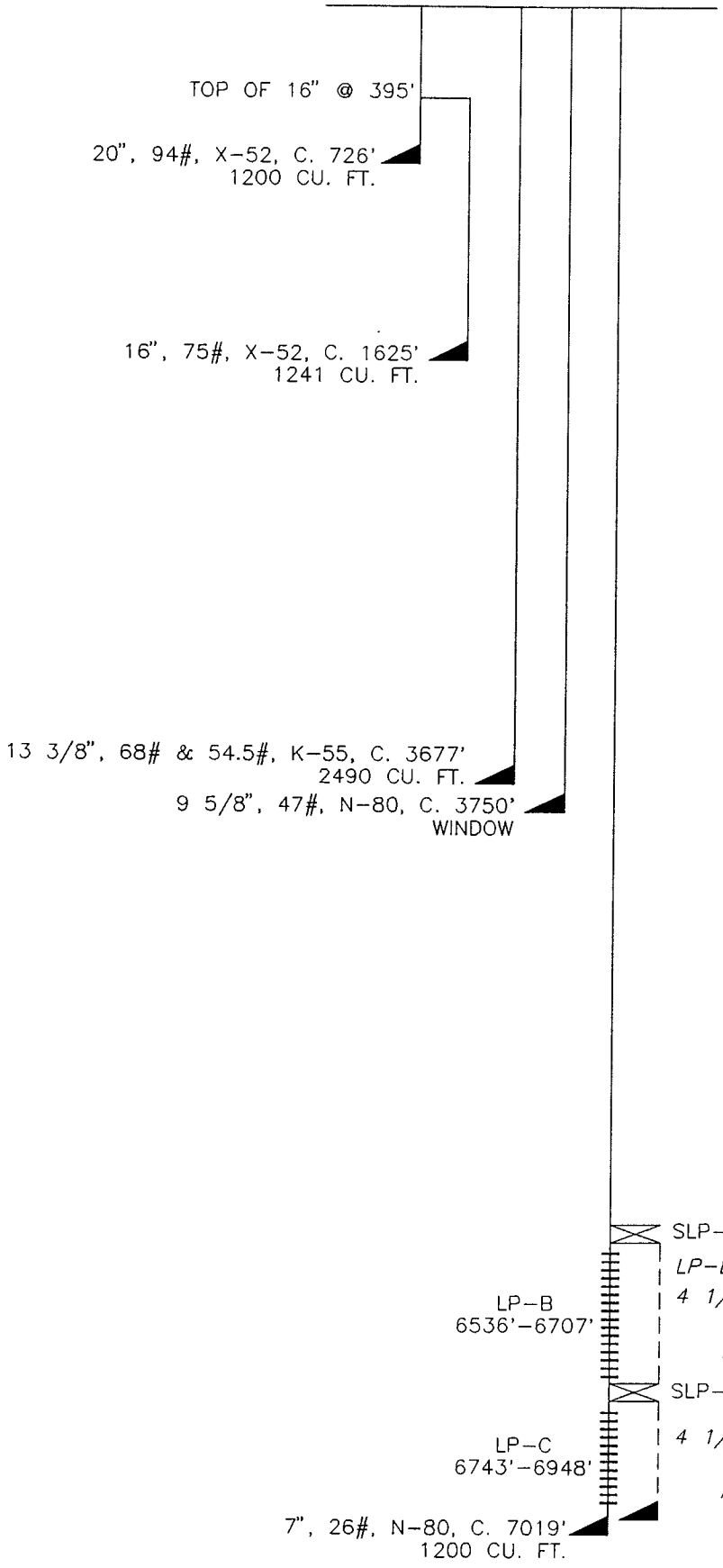
SANTA CLARA UNIT
WELL S-53 (SLOT 6)



GER 6-18-88

SANTA CLARA UNIT
Well #S-89

Slot #6



TORCH OPERATING COMPANY

CALIFORNIA OPERATIONS
VENTURA COUNTY
9/96 RJDIII

OCS-P0216
PLATFORM GILDA
WELL S-89
CASING DESIGN

9 5/8" CASING

Effective Setting Depth (KOP) = 3750' MD / 2749' TVD

Existing: 9 5/8", 47#, N-80, LT&C 8 Rnd
Estimated Top of Cement: +/- 2500'

Collapse

Original mud weight for the 9 5/8" casing interval = 10.1 ppg

P_c = (2749') (10.1 ppg) (.052) = 1444 psi

S_F = 4750 psi / 1444 psi = 3.29

Tensile

N/A (already set and cemented)

Burst

Burst with gas to surface for BHP = 3200 psi
WHP = 2880 psi

S_F = 6870 psi / 2880 psi = 2.38

7 " Casing @ 5408' TVD, 7019' MD

Collapse

Maximum mud weight of 11.5 ppg @ casing point, pipe evacuated @ TD.

P_C = (5408') (11.5 ppg) (.052) = 3234 psi

7 ", 26#, N-80 Pressure Rating w/ 1.25 safety factor
(5410 psi) / (1.25) = 4328 psi

S_F = 4328 psi / 3234 psi = 1.34

Burst

Anticipated BHP of 3200 psi
Maximum anticipated WHP w/ .1 psi/ft. gas = 2880 psi

7", 26#, N-80 P_B = 7240 psi

S_F = 7240 psi / 2880 psi = 2.51

Tensile

Buoy Weight = (26) (7019') (.8243) = 150429#
W/ 11.5 ppg Drilling Mud

7", 26#, N-80, LT&C Joint = 519000#
Body = 604000#

S_{FJT} = 519000 # / 150429 # = 3.45

S_{FB} = 604000# / 150429# = 4.02

Maximum Overpull w/ S_F

Jt = 519000# / 2 - 150429# = 109071#

MINERALS MANAGEMENT SERVICE 589 RO 03 S-53 Submit original plus two copies with one copy marked "Public Information" COPY TO REGION OMB No. 1010-0046

WELL SUMMARY REPORT Expiration Date: August 31, 1996

1. 1ST COMP. / RECOMPLETION / ABANDONMENT / CORRECTION	2. API WELL NUMBER / PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-20605-01	S-89	TORCH OPERATING COMPANY SANTA MARIA, CALIFORNIA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
S03528 E 07916	P-0216	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
S 03882 E 04102	P-0216	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
Producing	11/22/96	11/23/96	10/16/96

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
10/26/96	10/30/96	MD 7000' TVD 5398'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
6,525'	6,604'	4,981'	5,051'
6,673'	6,688'	5,112'	5,126'
6,710.5'	6,723.5'	5,145'	5,156.5'
6,782'	6,793.5'	5,207.5'	5,217.5'
6,812.5	6,830	5,234.5'	5,250

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Upper Repetto	Upper Repetto

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
26"	20'	94#/ft.	X-52	726	Class G	1200
22"	16"	75#/ft.	X-52	1625	Class G	1241
17 1/2"	13 3/8"	54.5#/ft.	K-55	3677'	Class G	2490
12 1/4"	9 5/8"	47#/ft.	N-80	3750'	Class G	2467
8 1/2"	7"	26#/ft.	N-80	6876'	Class G	635

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
6.276"	2.875"	6.5 ppf	N-80	6,292'	500.5

RECEIVED MAR 1 1 '97

FORM MMS -125 (August 1993) (Replaces Form MMS-330 which will not be used)

CONFIDENTIAL

MAR 12 180

MAR 1

WELL SUMMARY REPORT

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
6.276"	4-5	11-6#	K-55	6,427'	6,844'	20/40 gravel	

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

DIL - GR - FDC - CNL, MWD.

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
LP-B	6526	4849	6673	5111	Sand, Oil
LP-C	6730	5163	6918	5326	Shale, Sand, Tight, Oil Stain

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
LP-4	6268	4756	LP-C	6730	5163
LP-A	6377	4849	LP-C1	6752	5181
LP-B	6526	4981	LP-C2	6797	5220
LP-B1	6610	5053	LP-C4	6848	5265
LP-B2	6673	5111	LPD	6918	5326

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	**31. DATE**
Robert for John Deacon	March 7, 1997

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain geologic, well test, and well-completion equipment data. This information will be used by MMS District Supervisors to ensure that they have accurate data and information on the wells under their jurisdiction and to ensure compliance with approved plans. It is also used to evaluate remedial action in the event of well-equipment failure or well-control loss. Response to this request is mandatory (43 U.S.C. 1334). Properietary data are covered under 30 CFR 250.18.

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Torch Operating Company

201 S. Broadway
Oruett, CA 93455
(805)739-9111
Fax: (805)937-0237

FAX TRANSMISSION COVER SHEET

Date: 10/29/96

To: Malinda Mayes

Fax: 805-389-7592

Re: S-87

Sender: Jim Martin

YOU SHOULD RECEIVE 4 PAGE(S), INCLUDING THIS COVER SHEET. IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (805)739-9111.

Attached is Clearance Report + Platform map for the subject well.

Jim Martin

TORCH OPERATING COMPANY
PLATFORM GILDA

S-87 (A2)
S-87
OFFSHORE SANTA BARBARA
CALIFORNIA

S U M M A R Y C L E A R A N C E R E P O R T

by
Baker Hughes INTEQ

Your ref : S-87 (A2)
Our ref : prop2680
License :

Date printed : 19-Oct-96
Date created : 6-Aug-96
Last revised : 19-Oct-96

Field is centred on n34 10 56.434,w119 25 6.83
Structure is centred on 1041733.000,747989.000,999.00000,M

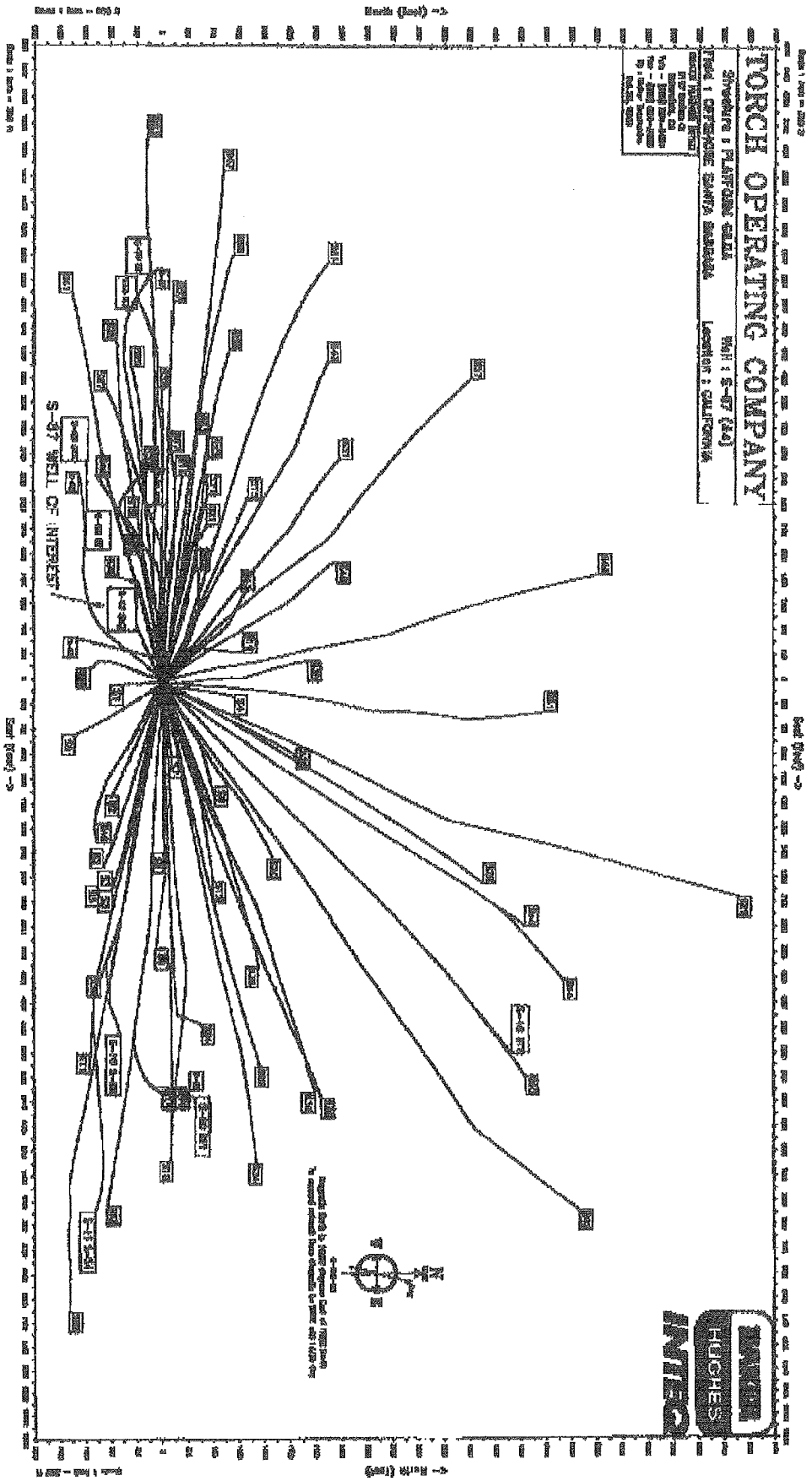
Slot location is n34 10 56.213,w119 25 7.437
Slot Grid coordinates are N 747968.159, E 1041681.340
Slot local coordinates are 22.40 S 51.00 W

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

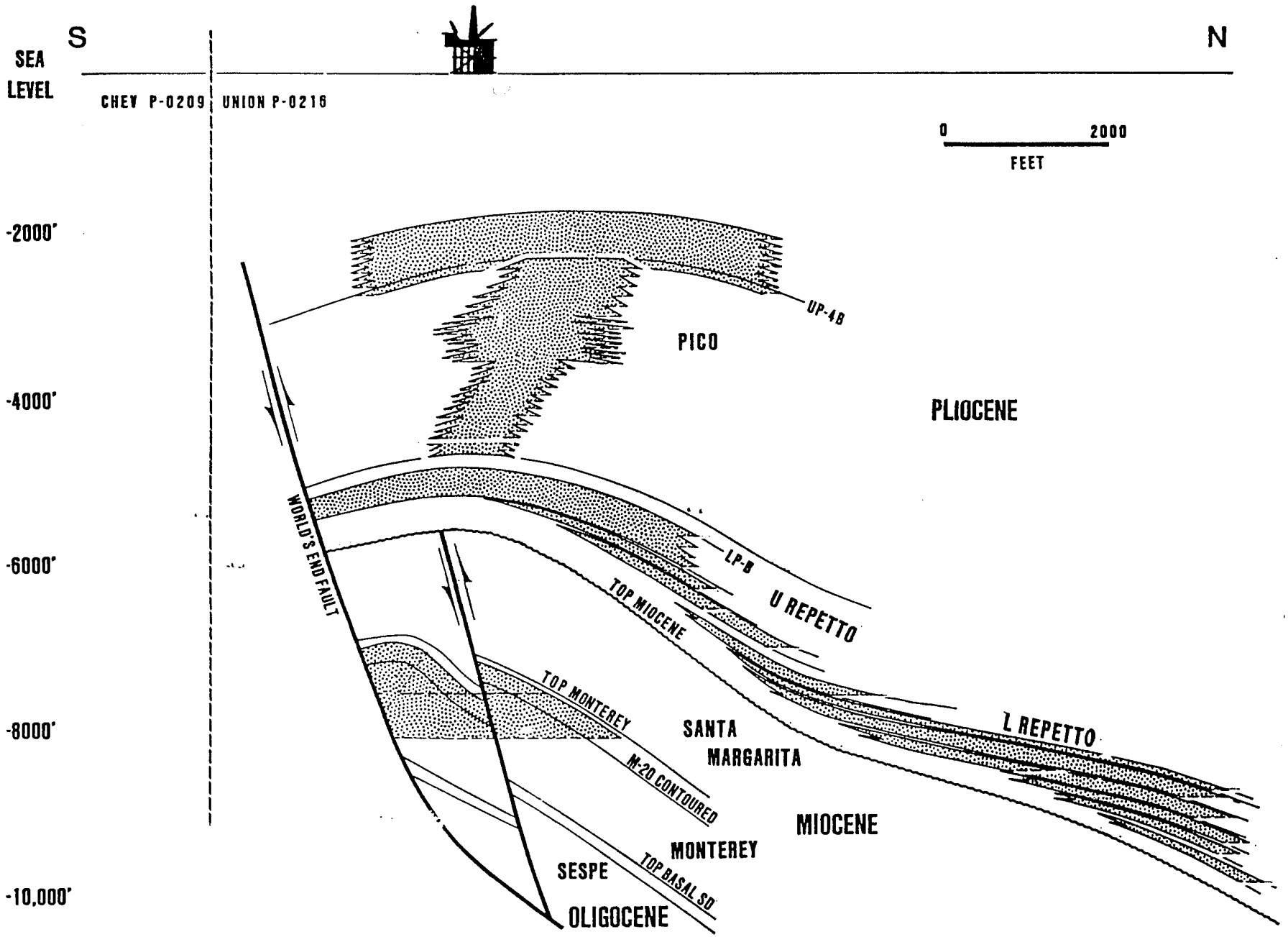
Object wellpath	Closest approach with 3-D Minimum Distance method			
	Last revised	Distance	M.D.	Diverging from M.D.
S-46,,S46,PLATFORM GILDA	6-Aug-96	19.9	0.0	0.0
S63,,S63,PLATFORM GILDA	6-Aug-96	10.0	260.0	260.0
S-4,,S4,PLATFORM GILDA	6-Aug-96	96.9	0.0	0.0
S-42,,S42,PLATFORM GILDA	6-Aug-96	101.8	260.0	260.0
S-18,,S18,PLATFORM GILDA	6-Aug-96	109.4	0.0	0.0
S-33,,S33,PLATFORM GILDA	6-Aug-96	6.8	100.0	1360.0
S-33RD,,S33 RD,PLATFORM GILDA	6-Aug-96	6.8	100.0	1360.0
S-61,,S61,PLATFORM GILDA	6-Aug-96	37.7	0.0	0.0
S-21,,S21,PLATFORM GILDA	6-Aug-96	47.1	0.0	1640.0
S13,,S13,PLATFORM GILDA	6-Aug-96	56.8	0.0	0.0
S45,,S45,PLATFORM GILDA	6-Aug-96	61.1	100.0	100.0
S31,,S31,PLATFORM GILDA	6-Aug-96	66.0	260.0	260.0
S-23ST,,S23,PLATFORM GILDA	6-Aug-96	40.6	0.0	1340.0
S-23,,S23,PLATFORM GILDA	6-Aug-96	40.6	0.0	1340.0
S-43,,S43,PLATFORM GILDA	6-Aug-96	55.4	0.0	0.0
S15,,S15,PLATFORM GILDA	6-Aug-96	60.4	0.0	0.0
S27F,,S27,PLATFORM GILDA	6-Aug-96	44.8	260.0	1220.0
S-25,,S25,PLATFORM GILDA	6-Aug-96	55.0	0.0	0.0
S-47,,S47,PLATFORM GILDA	6-Aug-96	60.0	0.0	260.0
S-51,,S51,PLATFORM GILDA	6-Aug-96	65.0	0.0	0.0
S7,,S7,PLATFORM GILDA	6-Aug-96	94.7	0.0	0.0
S-36,,S36,PLATFORM GILDA	6-Aug-96	92.6	260.0	260.0
S-36ST,,S36,PLATFORM GILDA	6-Aug-96	92.6	260.0	260.0
s38,,S38,PLATFORM GILDA	6-Aug-96	107.8	200.0	200.0
S12,,S12,PLATFORM GILDA	6-Aug-96	105.0	260.0	260.0
S6,,S6,PLATFORM GILDA	6-Aug-96	103.1	0.0	0.0
S26,,S26,PLATFORM GILDA	6-Aug-96	113.2	0.0	260.0
S20,,S20,PLATFORM GILDA	6-Aug-96	104.7	0.0	0.0

S30,,S30,PLATFORM GILDA	6-Aug-96	101.9	0.0	0.0
S-34,,S34,PLATFORM GILDA	6-Aug-96	116.4	100.0	260.0
S24,,S24,PLATFORM GILDA	6-Aug-96	111.6	0.0	0.0
S-28,,S28,PLATFORM GILDA	6-Aug-96	110.5	0.0	0.0
S-14ST,,S14,PLATFORM GILDA	6-Aug-96	113.9	0.0	0.0
S-14,,S14,PLATFORM GILDA	6-Aug-96	113.9	0.0	0.0
S-29,,S29,PLATFORM GILDA	6-Aug-96	50.0	0.0	0.0
S39,,S39,PLATFORM GILDA	6-Aug-96	14.7	260.0	5529.8
S57,,S57,PLATFORM GILDA	6-Aug-96	24.3	100.0	100.0
S35,,S35,PLATFORM GILDA	6-Aug-96	11.7	335.0	1440.0
S-32,,S32,PLATFORM GILDA	6-Aug-96	99.3	0.0	0.0
S-50,,S-10 (S-50),PLATFORM GILDA	6-Aug-96	99.4	260.0	260.0
S-10,,S10,PLATFORM GILDA	6-Aug-96	99.4	260.0	260.0
S-54,,S-11 (S-54),PLATFORM GILDA	6-Aug-96	99.9	0.0	285.0
S11,,S11,PLATFORM GILDA	6-Aug-96	99.9	0.0	285.0
S16,,S16,PLATFORM GILDA	6-Aug-96	61.7	1860.0	1860.0
S-48,,S-40&ST (S48),PLATFORM GILDA	6-Aug-96	107.6	100.0	260.0
S-40,,S40,PLATFORM GILDA	6-Aug-96	107.6	100.0	260.0
S-71,,S71,PLATFORM GILDA	6-Aug-96	65.4	260.0	260.0
S-75,,S75,PLATFORM GILDA	6-Aug-96	29.9	260.0	1280.0
S-44ST,,S44,PLATFORM GILDA	6-Aug-96	94.9	100.0	260.0
S-44,,S44,PLATFORM GILDA	6-Aug-96	94.9	100.0	260.0
S-56,,S56,PLATFORM GILDA	6-Aug-96	100.1	260.0	260.0
S-3 ST3,,S3,PLATFORM GILDA	6-Aug-96	100.3	0.0	0.0
S-3 ST2,,S3,PLATFORM GILDA	6-Aug-96	100.3	0.0	0.0
S-3 ST1,,S3,PLATFORM GILDA	6-Aug-96	100.3	0.0	0.0
S-3 OH,,S3,PLATFORM GILDA	6-Aug-96	100.3	0.0	0.0
S2,,S2,PLATFORM GILDA	6-Aug-96	91.8	285.0	285.0
S-5,,S5,PLATFORM GILDA	6-Aug-96	85.8	260.0	260.0
S52,,S52,PLATFORM GILDA	6-Aug-96	96.7	285.0	285.0
S-9,,S9,PLATFORM GILDA	6-Aug-96	99.1	100.0	100.0
S8,,S8,PLATFORM GILDA	6-Aug-96	100.8	100.0	260.0
S-1,,S1,PLATFORM GILDA	6-Aug-96	85.8	260.0	260.0
S-19,,S19,PLATFORM GILDA	6-Aug-96	51.9	0.0	0.0
S-65,,S65,PLATFORM GILDA	6-Aug-96	33.0	260.0	260.0
S-55,,S55,PLATFORM GILDA	6-Aug-96	14.7	0.0	3820.0
S-77,,S-37,PLATFORM GILDA	6-Aug-96	3.9	382.2	1180.0
DMWD,,S-77 RD,PLATFORM GILDA	6-Aug-96	3.9	382.2	1180.0
S59ST1,,S59,PLATFORM GILDA	6-Aug-96	8.5	200.0	1620.0
S59,,S59,PLATFORM GILDA	6-Aug-96	8.5	200.0	1620.0
S-85 MWD,,S-85,PLATFORM GILDA	6-Aug-96	21.1	100.0	4150.0
SIDETRACK,,S-85 ST,PLATFORM GILDA	6-Aug-96	21.1	100.0	4150.0
S49,,S49,PLATFORM GILDA	6-Aug-96	21.1	100.0	5240.0
SIDETRACK 2,,S-85 ST2,PLATFORM GILDA	6-Aug-96	21.1	100.0	4150.0
DMWD SIDETRACK,,S-60 SIDETRACK,PLATFORM GILDA	6-Aug-96	107.4	0.0	0.0
S-22,,S22,PLATFORM GILDA	6-Aug-96	107.4	0.0	0.0
DMWD,,S-60,PLATFORM GILDA	6-Aug-96	107.4	0.0	0.0
S-69,,S-69,PLATFORM GILDA	6-Aug-96	7.8	404.4	1160.0
S41,,S41,PLATFORM GILDA	6-Aug-96	12.2	1220.0	1220.0
S-79 MWD,,S-79,PLATFORM GILDA	6-Aug-96	12.2	1220.0	5529.8
S-79 ST2,,S-79 ST2,PLATFORM GILDA	6-Aug-96	12.2	1220.0	5529.8
S-83 (S-67RD),,S67,PLATFORM GILDA	6-Aug-96	17.1	260.0	4040.0
S67,,S67,PLATFORM GILDA	6-Aug-96	17.1	260.0	4040.0
S-53,,S53,PLATFORM GILDA	6-Aug-96	39.9	0.0	0.0


TORCH OPERATING COMPANY
S-97 WELL OF INTEREST
INTEQ
HUGHES

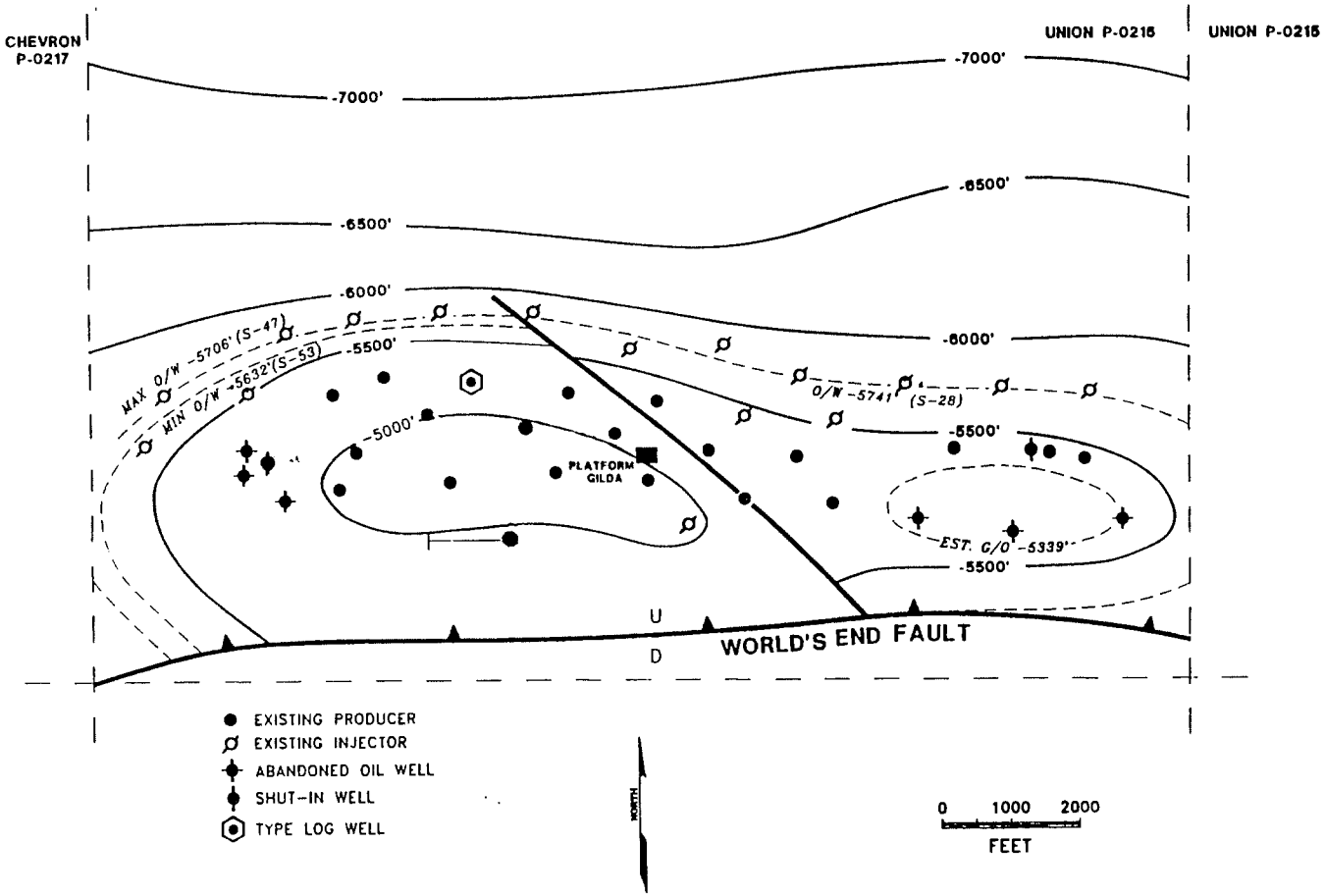
SANTA CLARA FIELD

PLATFORM GILDA

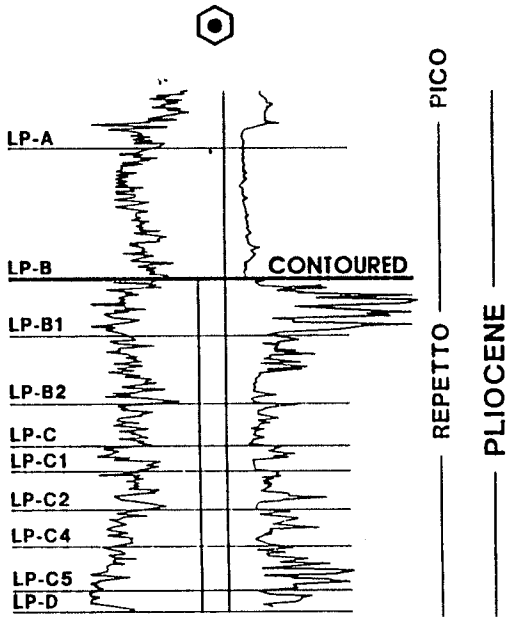


SANTA CLARA FIELD

UPPER REPETTO LP-B STRUCTURE



TYPE LOG



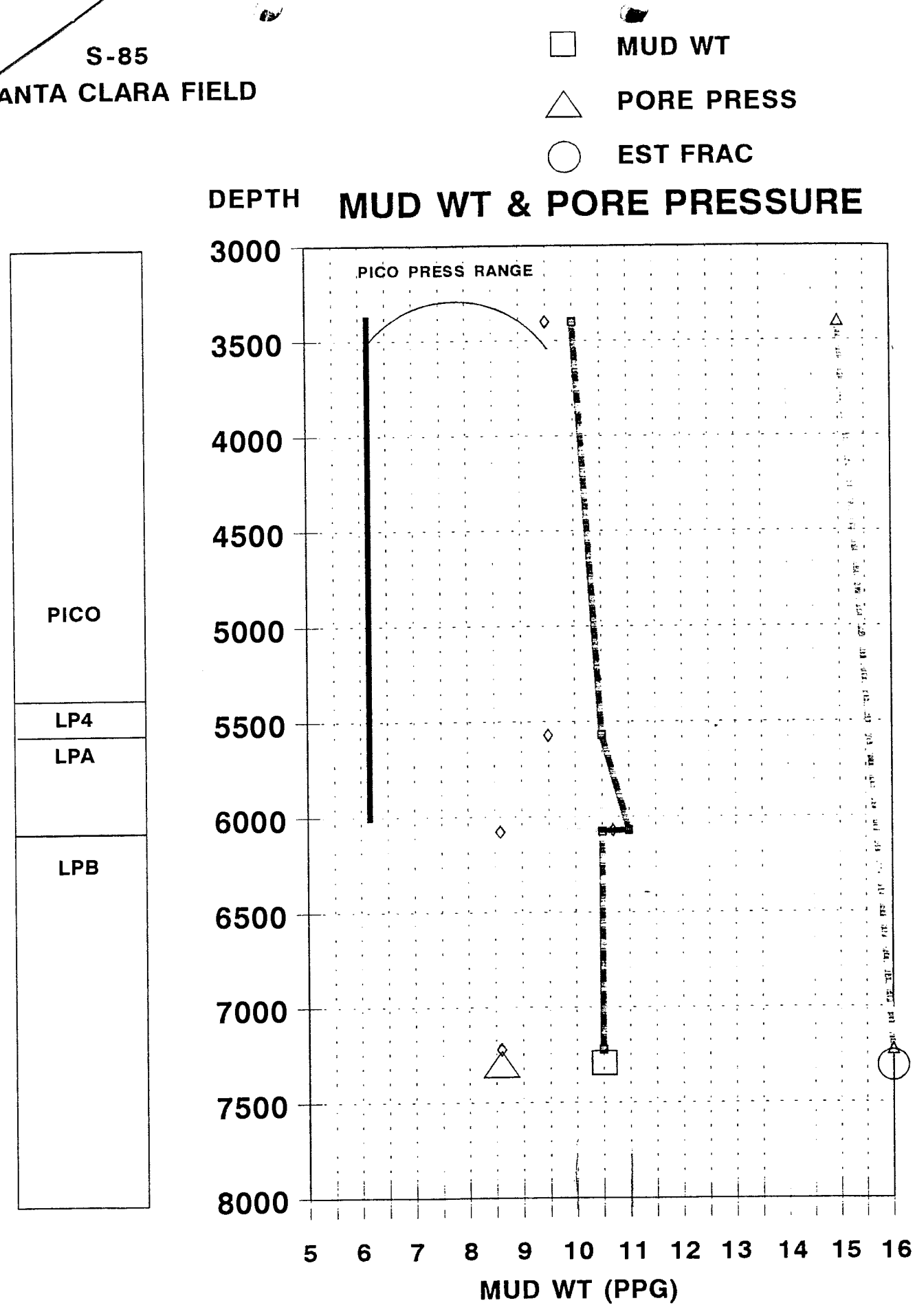
HYDROSTATIC PRESSURE AND FLUID WEIGHT CONVERSION TABLES

Lbs./Gal.	Lbs./Cu. Ft.	Sp. Gr.	Lbs./Sq. In. 100' Depth
7 0	52.36	0.84	36.33
7 1	53.11	0.85	36.85
7.2	53.86	0.86	37.37
7.3	54 60	0.88	37.89
7.4	55.35	0.89	38.41
7 5	56.10	0.90	38.93
7.6	56.85	0.91	39.44
7 7	57.60	0.92	39.96
7.8	58.34	0.94	40.48
7.9	59.09	0.95	41.00
8.0	59.84	0.96	41.52
8.1	60.59	0.97	42.04
8.2	61.34	0.98	42.56
8.3	62.08	0.996	43.08
8.34	62.38	1.00	43.28
8.4	62.83	1.01	43.60
8.5	63.58	1.02	44.12
8.6	64 33	1.03	44.63
8.7	65.08	1.04	45.15
8.8	65.82	1.06	45.67
8.9	66.57	1.07	46.19
9.0	67.32	1.08	46.71
9.1	68.07	1.09	47.23
9.2	68.82	1.10	47.75
9.3	69.56	1.12	48.27
9.4	70.31	1.13	48.79
9.5	71.06	1.14	49.31
9.6	71.81	1.15	49.82
9.7	72.56	1.16	50.34
9.8	73.30	1.18	50.86
9.9	74.05	1.19	51.38
10.0	74.70	1.20	51.90
10.1	75.55	1.21	52.42
10.2	76.30	1.22	52.94
10.3	77.04	1.24	53.46
10.4	77.79	1.25	53.98
10.5	78.54	1.26	54.50
10.6	79.29	1.27	55.01
10.7	80.04	1.28	55.53
10.8	80.78	1.30	56.05
10.9	81.53	1.31	56.57
11.0	82.38	1.32	57.09
11.1	83.03	1.33	57.61
11.2	83.78	1.34	58.13
11.3	84.52	1 36	58.65
11.4	85.27	1.37	59.17
11.5	86.02	1.38	59.69
11.6	86.77	1.39	60.20
11.7	87.52	1.40	60.72
11.8	88.26	1.42	61.24
11.9	89.01	1.43	61.76
12.0	89.76	1.44	62.28
12.1	90.51	1.45	62.80
12.2	91.26	1.46	63.32
12.3	92.00	1.48	63.84
12.4	92.75	1.49	84.36
12.5	93.50	1.50	64.88
12.6	94.25	1.51	65.39
12.7	95.00	1.52	65.91
12.8	95.74	1.54	66.43
12.9	96.49	1.55	66.95
13.0	97.24	1.56	67.47
13.1	97.99	1.57	67.99
13.2	98.74	1.58	68.51
13.3	99.48	1.60	69.03
13.4	100.23	1.61	69.55

Lbs./Gal.	Lbs./Cu. Ft.	Sp. Gr.	Lbs./Sq. In. 100' Depth
13 5	100 98	1 62	70 07
13 6	101 73	1 63	70 58
13 7	102 48	1 64	71 10
13 8	103 22	1 66	71 62
13 9	103 97	1 67	72 14
14 0	104 72	1 68	72 66
14 1	105 47	1 69	73 18
14 2	106 22	1 72	74 22
14.3	106 96	1.72	74 22
14 4	107 71	1 73	74 74
14 5	108 46	1 74	75 26
14 6	109 21	1 75	75.77
14 7	109 96	1 76	76 29
14 8	110 70	1 78	76.81
14 9	111 45	1 79	77 33
15 0	112 20	1 80	77 85
15 1	112 95	1 81	78 37
15 2	113 70	1 82	78.89
15 3	114 44	1 84	79 41
15 4	115 19	1 85	79 93
15 5	115 94	1.86	80.45
15 6	116 69	1 87	80 96
15 7	117 44	1 88	81 48
15 8	118 18	1 90	82.00
15 9	118 93	1 91	82.52
16 0	119 68	1 92	83.04
16 1	120 43	1 93	83 56
16 2	121 18	1 94	84 08
16 3	121 92	1 96	84 60
16 4	122 67	1 97	85 12
16 5	123 42	1 98	85 64
16 6	124 17	1 99	86.15
16 7	124 92	2 00	86.67
16 8	125 66	2 02	87 19
16 9	126 41	2.03	87 71
17 0	127 16	2.04	88 23
17 1	127 91	2 05	88.75
17 2	128 66	2 06	89.27
17 3	129 40	2.08	89 79
17 4	130 15	2 09	90.31
17 5	130 90	2 10	90.83
17 6	131 65	2 11	91 34
17 7	132.40	2 12	91.86
17 8	133 14	2 14	92 38
17 9	133 89	2 15	92 90
18 0	134 64	2 16	93 42
18 1	135.39	2 17	93.94
18 2	136 14	2 18	94.46
18 3	136 88	2 20	94.98
18.4	137.63	2 21	95.50
18 5	138 38	2.22	96.02
18.6	139.13	2 23	96.53
18.7	139 88	2 24	97.05
18.8	140.92	2.26	97.57
18.9	141.37	2 27	98.09
19.0	142.12	2.28	98.61
19.1	142.87	2.29	99.13
19.2	143.62	2.30	99.65
19.3	144.36	2.32	100.17
19 4	145.11	2.33	100.68
19.5	145 86	2.34	101.21
19 6	146.61	2.35	101 72
19.7	147.36	2.36	102.24
19.8	148.10	2.38	102.76
19.9	148.85	2.39	103.28
20 0	149.60	2.40	103.80

S-85

SANTA CLARA FIELD



CONDITIONS OF APPROVAL TO DRILL OCS WELL

Approval is further subject to the following specific conditions:

1. The date actual drilling is started shall be reported promptly to the District Supervisor.

2. A drilling progress report (two copies, no prescribed form) shall be submitted weekly showing the principal items of work done during the week, for development wells. Exploratory wells will be reported by phone daily. The first development well on a platform shall require a daily phone report.

3. Adequate blowout prevention equipment as outlined in Subpart D of the Code of Federal Regulations (CFR), Title 30 starting with paragraph CFR 250.56.

4. Any change in the approved program must receive prior approval from this office.

5. Any unusual occurrence such as pollution, serious injury to personnel, loss of equipment overboard, damage caused by drifting of drilling vessel off location, well blowout, major equipment failure, etc., should be reported immediately to the District Supervisor by telephone.

6. The District Supervisor shall be notified in advance in the event of production tests.

7. Two copies of all logs, including the mud log to date, shall be furnished to this office immediately after logging.

8. Before a completion program is commenced or the hole is abandoned, the District Supervisor shall be allowed sufficient time to examine well records and give separate approval for this portion of the drilling program.

9. The Notice of Intent to Abandon a well shall be submitted on Form MMS-332 as outlined in Subpart G of the CFR starting with Title 30, paragraph CFR 250.110 notwithstanding any verbal approval to abandon that may have been given by this office. A Subsequent Report, Form MMS-332, must be submitted no later than 30 days after completion of the approved work.

10. The pertinent and applicable reports required under 30 CFR 250.0 through 250.50 of the Consolidated Offshore Operating Rules for Oil and Gas Operations will be properly and timely submitted. Electric logs and other logging surveys, core description and conventional analysis, stratigraphic determination, formation tests, log and history (Form MMS 330) Well Completion Report, shall be submitted in <u>duplicate</u> to this office within 30 days after the completion, suspension or abandonment of the well.

(Conditions of Approval continued on back)

WEEKLY ACTIVITY REPORT

Period: 03/16/97 to 03/23/97

Week No. 6

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Company
2. Well No.:	S-87	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	805-739-9111
4. API Number:	04-311-20754	10. Spud Date:	12/15/96
5. Water Depth:	205'	11. TD Date:	12/31/96
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: N/A
15. Last BOP Test Date: 03/16/97 Test Pressure (psi): 250 low/2500 high
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

NU xo spool, riser, and BOP's. Run BOP tests. Pressure test annular 250 low/2100 high. Pressure test casing @ 2500 psi for 30 min. PU 3 1/2" 501 tubing. Tag @ 5418' and circulate. RIH with tubing. Tag @ 5420'. Space out - bottom shot @ 5409' - set packer @ 5105'. POOH to 5090' - set packer @ 4778'. RIH. Tag top of sand @ 5134' & pressure test @ 1000 psi. Space out tbg - bottom shot @ 5108' - set packer & pressure test lines @ 3000 psi. Pressure test lines to 5000 psi. Pump H2S fracture treatment - 2000 psi on annulus. Bleed down & hold '@ 500 psi. Perfs from 5189' - 5223', 5270' - 5409', and 5033' - 5108'. RIH. Set packer @ 4904'. RU Halliburton lines to tbg. Pressure test lines @ 6500 psi - place 2000 psi on backside. Establish injectivity and fracture well as programed. Final pumping pressure - 3074 psi., S.I.P. 2435 psi - 1 min., S.I.P. 2358 psi - 5 min., S.I.P. 2160 psi - 15 min., S.I.P. 2016 psi - 30 min., S.I.P. 1783 psi., S.I. @ tubing. Monitor well.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972
9 5/8"	5427'	3000	12.4 ppg	1667

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		
01/06/97	USI/GR/Nuetron - CAL	1200' - 5390'	1
	GR/Nuetron Correlation	5390' - 5420'	2
03/21/97	GR & Collar Locator		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 03/24/97 to 03/31/97

Week No. 7

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-87
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20754
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Company
8. Rig Name: Torch 10
9. Contact/Phone No.: 805-739-9111
10. Spud Date: 12/15/96
11. TD Date: 12/31/96
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: 9.7
15. Last BOP Test Date: 03/16/97 Test Pressure (psi): 250 low/2500 high
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

Open well and flow to production for approx. 7 hrs. Circ. 9.5# KCL down tbg and hold 200 psi on annulus, work up to 9.7# KCL and hold. Run 5 1/2" casing 17# screen liner - set @ 5410'. Ran 133 jts of 2 7/8" tbg. PU dual head packer and SCSSV BV assembly. MU line and cable to hanger and land tbg. Hanger @ 1630' w/BPV in place. TD 4867' (bottom of shroud). ND BOPE. NU production tree. Pump on and fluid to surface 3/29/97. Release rig 3/29/97.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1550 sxs
9 5/8"	5427'	3000	12.4 ppg	1170 sxs
5 1/2"	5410'	1500	N/A	136

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		
01/06/97	USI/GR/Nuetron - CAL	1200' - 5390'	1
	GR/Nuetron Correlation	5390' - 5420'	2
03/21/97	GR & Collar Locator		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25. Geochem Sample:

U.S. Department of the Interior
Minerals Management Service

Submit ORIGINAL

OMB control Number 1010-0141
OMB Approval Expires 8/31/2008

WELL ACTIVITY REPORT

BEGINNING DATE: 3-10-2007 **ENDING DATE:** 3-16-2007

REPORT IS NOT TO EXCEED 7 DAYS (1 WEEK) IN DURATION

☐ **CORRECTION** ☐ **CHECK IF THIS IS THE LAST WELL ACTIVITY REPORT**

GENERAL INFORMATION

1. API WELL NO. (10 digits)	2. OPERATOR NAME
04-311-20754	DCOR LLC

3. WELL NAME	4. SIDETRACK NO.	5. BYPASS NO.	6. CONTACT NAME / CONTACT TELEPHONE NUMBER / CONTACT E-MAIL ADDRESS
S-87	0	0	T. McCollum / 805-535-2027

7. RIG NAME OR PRIMARY UNIT *(e.g., wireline unit, coil tubing unit, etc.)*	8. WATER DEPTH (surveyed) (ft)	9. ELEVATION AT KB (Surveyed) (ft)
RIG 10	205'	107'

10. CURRENT WELLBORE INFORMATION

SURFACE			BOTTOM		
LEASE NO.	AREA NAME	BLOCK NO.	LEASE NO.		BLOCK NO.
0216	6B	4861	216		4861

WELLBORE	START DATE	TD DATE	STATUS	END DATE	KOP (MD)	MD	TVD	MW PPG	LAST BOP TEST DATE	LAST BOP TEST PRESSURE	
										LOW	HIGH
5-1/2"	3/97	3/97	COM	3/97	N/A	5410	5309	8.9	3/10/07	250	3000

11. WELLBORE HISTORICAL INFORMATION

WELLBORE	BOTTOM LEASE	START DATE	TD DATE	PA DATE	FINAL MD	FINAL TVD
9-5/8"	0216	2/97	3/97	N/A	5472'	5371'
5-1/2"	0216	3/97	3/97	N/A	5410'	5309'

WELL ACTIVITY REPORT

12. CASING / LINER / TUBING RECORD

TUBULAR TYPE	HOLE SIZE (IN)	SIZE (IN)	WEIGHT (#/ft)	GRADE	TEST PRESSURE (psi)	SHOE TEST (EMW)	SETTING DEPTH *(MD)*		CEMENT QUANTITY *(cubic ft.)*
							TOP	BOTTOM	
CASING		20	94#	J-55			0	706	1318
CASING		16	75#	J-55			0	1730	1972
CASING		9-5/8	47#	L-80 & N-80			0	5472	1677
LINER	9-5/8"	5-1/2	17#	N-80			4904	5410	FRAC PACKED

13. WELL ACTIVITY SUMMARY

Provide a daily summary of well activities.

SEE ATTACHED

14. Open Hole Log Data

Minerals Management Service's Technical Data Management Section requires an Open Hole Well Report (Form MMS-133S) to accompany this Well Activity Report if any of the below conditions have occurred for this wellbore during this period:

☒ **None** of the following have occurred:

- **Wireline logs (Report when acquired)**
- **Wireline Directionals (Report when acquired)**
- **Velocity Surveys, VSP's, Conventional Cores, Rotary and Percussion Sidewall Cores (Report when acquired)**
- **Completed MWD/LWD logs and Mudlogs - (Report when they are completed.)**
- **PVT, Paleontological and Geochemical Samples acquired for analysis (Report at completion of Borehole)**

☐ **Any** of the above have occurred; if checked then submit Form MMS-133S.

15. Significant Well Events

Please check as many events from the list below:

☐	Kick Occurrence	☐	Well Control Equipment Failure
☐	Shallow Water Flow	☒	H_2S Encounter
☐	Weather and Oceanographic Conditions	☐	New Technology Failure
☐	General Rig Equipment Failure	☐	Stuck Pipe
☐	Lost Returns	☐	Wellbore Integrity Failure
☐	Station Keeping Failure	☐	Other

U.S. Department of the Interior
Minerals Management Service

Submit ORIGINAL

OMB control Number 1010-0141
OMB Approval Expires 8/31/2008

WELL ACTIVITY REPORT

BEGINNING DATE: 3-3-2007 **ENDING DATE:** 3-9-2007

REPORT IS NOT TO EXCEED 7 DAYS (1 WEEK) IN DURATION

☐ **CORRECTION** ☐ **CHECK IF THIS IS THE LAST WELL ACTIVITY REPORT**

GENERAL INFORMATION

1. API WELL NO. (10 digits)	2. OPERATOR NAME
04-311-20754	DCOR LLC

3. WELL NAME	4. SIDETRACK NO.	5. BYPASS NO.	6. CONTACT NAME / CONTACT TELEPHONE NUMBER / CONTACT E-MAIL ADDRESS
S-87	0	0	T. McCollum / 805-535-2027

7. RIG NAME OR PRIMARY UNIT *(e.g., wireline unit, coil tubing unit, etc.)*	8. WATER DEPTH (surveyed) (ft)	9. ELEVATION AT KB (Surveyed) (ft)
RIG 10	205'	107'

10. CURRENT WELLBORE INFORMATION

SURFACE			BOTTOM		
LEASE NO.	AREA NAME	BLOCK NO.	LEASE NO.		BLOCK NO.
0216	6B	4861	2016		4861

WELLBORE	START DATE	TD DATE	STATUS	END DATE	KOP (MD)	MD	TVD	MW PPG	LAST BOP TEST DATE	LAST BOP TEST PRESSURE	
										LOW	HIGH
5-1/2"	3/97	3/97	COM	3/97	N/A	5410	5309	8.9			

11. WELLBORE HISTORICAL INFORMATION

WELLBORE	BOTTOM LEASE	START DATE	TD DATE	PA DATE	FINAL MD	FINAL TVD
9-5/8"	0216	2/97	3/97	N/A	5472'	5371'
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WELL ACTIVITY REPORT

12. CASING / LINER / TUBING RECORD

TUBULAR TYPE	HOLE SIZE (IN)	SIZE (IN)	WEIGHT (#/ft)	GRADE	TEST PRESSURE (psi)	SHOE TEST (EMW)	SETTING DEPTH *(MD)*		CEMENT QUANTITY *(cubic ft.)*
							TOP	BOTTOM	
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CASING		9-5/8	47#	L-80 & N-80			0	5472	1677
LINER	9-5/8"	5-1/2	17#	N-80			4904	5410	FRAC PACKED

13. WELL ACTIVITY SUMMARY

Provide a daily summary of well activities.

SEE ATTACHED

14. Open Hole Log Data

Minerals Management Service's Technical Data Management Section requires an Open Hole Well Report (Form MMS-133S) to accompany this Well Activity Report if any of the below conditions have occurred for this wellbore during this period:

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- **Completed MWD/LWD logs and Mudlogs - (Report when they are completed.)**
- **PVT, Paleontological and Geochemical Samples acquired for analysis (Report at completion of Borehole)**

☐ **Any** of the above have occurred; if checked then submit Form MMS-133S.

15. Significant Well Events

Please check as many events from the list below:

☐ Kick Occurrence	☐ Well Control Equipment Failure
☐ Shallow Water Flow	☐ H_2S Encounter
☐ Weather and Oceanographic Conditions	☐ New Technology Failure
☐ General Rig Equipment Failure	☐ Stuck Pipe
☐ Lost Returns	☐ Wellbore Integrity Failure
☐ Station Keeping Failure	☐ Other

WELL ACTIVITY REPORT

Please provide narrative information with regards to any significant events. Provide attachments, if necessary.

3/3/07
Removed companion flange off mud cross. Installed check valve. Installed companion flange on valve below blind rams. Hooked up hyd lines. Closed blind rams. Installed wedding band on BOP. Changed out hammer unions on double gate. Transferred KCL from active tank to mixing tank. Prepared bell nipple for installation. Connected accumulator lines to accumulator & BOP stack. Function tested Blind rams, upper & lower pipe rams & annular. Installed bell nipple on BOP. PU diverter housing. Hade to skid top section 1ft to the west to install diverter housing.

3/4/07
Rigged flex hose from choke to HCR on mud cross. Rigged flex hose from choke to check valve on mud cross. Installed diverter housing & pressured up seals. Worked on misc rig safety issues.

3/5/07
Hang section of flow line to pits, high line 2 sections of diverter line and installed under subbase, move trip tank manifold under rig and installed connections & hoses. Continue installing PVC pipe for flowline to diverter line under subbase. Connected 2" line from csg valve to production. Bleed off pressure from csg side. Starting pressure was 200psi bled down to 90psi. Drained sea water from active pit to production. Connected accumulator lines to HCR valve & function tested (Good). Finish installing trip tank. Finish connecting PVC pipe to diverter under subbase. Filled active pit with 70bbls of filtered sea water transferred 300bbls of KCL fluid from reserve pit to active pit wt.8.9. Pump 30bbls of KCL fluid down csg side. Prepared new BOP test pump with oil & fittings to connect to BOP.

3/6/07
Hung SRL's inside derrick, rigged up return line to trip tank, installed vent line clamps from gas buster up thru derrick, installed and secured wind walls on rig floor. Plumbed air to pneumatic valves on flow line and trip tank, continued installing gas buster vent line clamps in derrick. Function test remote for BOP on rig floor.

3/7/07
Continue with misc rig installation work and rig safety issues. Start preparing for BOP testing.

3/8/07
Change out hydraulic fittings on tubing tongs installed new fittings & valves on test. Rig up test pump, Locate & changed out hose for test chart, Fill BOPE with H20 & attempt to test shear rams, Leaking between valves 19 & 20, tighten valves attempt to retest shear rams, leaking at Cameron clamp, tighten clamp, attempt to test shear rams, pressure up to 1,100 psi bleeding off approx. 100 psi every 2 sec. Inspect surface equipment, pick up 2 7/8" test jt, attempt to test upper pipe rams leaking at mud cross, tighten same attempt to test, bleeding off 100 psi every 5 sec open 2 7/8" upper pipe rams, Retrieve blank sub with J tool F/ hanger. Inspect 4' pup for wash out on threads ok made up new pup jt on btm on J tool. Attempt to test BOP. (no good). Bleed off well t/production. 200psi on csg side. Bled down to 50psi. Pumped 18bbls down csg side. Build volume in active pit weight to 8.9. Rig down diverter housing. Started splitting BOP to inspect Wellhead /Tubing hanger.

3/9/07
Attempt to retrieve "J" tool test blank and pup ok, Rig up 4 way slings with big shackles to lift BOPE, nipple down raiser from well head, Attempt to locate cap for electrical feed thru mandrel on tubing hanger, no good. Rig up poor boy cap and install. Make up pup joint on male end of "J" tool to hanger, nipple up to well head and make up with hydraulic torque wrench. Fill stack with seawater & test shear rams, good test to 3000 psi. DCOR chart recorder not working, repair same. Ordered out calibrated chart recorder from Cameron in Bakersfield. Install lights in BOPE area. Pretest BOP and repair leaks.

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operations. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for forms MMS-133 and MMS-133S is estimated to average between 0.5 - 3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

Report Center : 66053 **Name :** OCS-P-0216 # S-87

Api : 043112075401

Field : Santa Clara

County : OFFSHORE **State :** CA

Operator : Nuevo Energy Company

Date: 01/05/98
Time: 10:31:46

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
10/96	0	0	0	0	0	0	0	0	0
11/96	0	0	0	0	0	0	0	0	0
/96	0	0	0	0	0	0	0	0	0
Tot/ 96	0	0	0	0	0				
01/97	0	0	0	0	0	0	0	0	0
02/97	0	0	0	0	0	0	0	0	0
03/97	143	90	3690	141	79	628	96	143	90
04/97	6156	2610	1653	6078	2283	424	21	6299	2700
05/97	13503	4173	1550	13378	3636	309	10	19803	6873
06/97	13197	4825	540	13216	4194	366	4	33000	11698
07/97	13849	4357	279	13806	3945	315	2	46849	16055
08/97	14587	4802	341	14580	4490	329	2	61437	20857
09/97	14118	4515	330	14139	4254	320	2	75554	25372
10/97	13091	4351	558	13294	4082	332	4	88645	29723
11/97	13241	4974	240	13252	4678	376	2	101886	34697
97	13655	5070	465	13618	4742	371	3	115542	39767
Tot/ 97	115542	39767	9646	115502	36383				
01/98	12614	4536	775	12646	4240	360	6	128156	44303
02/98	10747	4986	812	10713	4658	464	7	138903	49289
03/98	12436	5738	1922	12370	5381	461	13	151339	55027
Tot/ 98	35797	15260	3509	35729	14279				

Report Center : 66053 **Name :** OCS-P-0216 # S-87 **Date:** 26/02/98
Api : 043112075401 **Time:** 08:57:57
Field : Santa Clara **Page:** 287
County : OFFSHORE **State :** CA
Operator : Nuevo Energy Company

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
10/96	0	0	0	0	0	0	0	0	0
11/96	0	0	0	0	0	0	0	0	0
12/96	0	0	0	0	0	0	0	0	0
Tot/96	0	0	0	0	0				
01/97	0	0	0	0	0	0	0	0	0
02/97	0	0	0	0	0	0	0	0	0
03/97	143	90	3690	141	79	628	96	143	90
04/97	6156	2610	1653	6078	2283	424	21	6299	2700
05/97	13503	4173	1550	13378	3636	309	10	19803	6873
06/97	13197	4825	540	13216	4194	366	4	33000	11698
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10/97	13904	4351	558	13293	4082	313	4	89458	29723
11/97	13532	4974	240	13219	4678	368	2	102991	34697
12/97	12980	5070	465	13628	4742	391	3	115970	39767
Tot/97	115970	39767	9646	115478	36383				
01/98	12700	4536	775	12676	4240	357	6	128670	44303
Tot/98	12700	4536	775	12676	4240				

RECEIVED
OCT - 9 1996
MINERALS MGMT SERVICE
CAMARILLO DISTRICT

TORCH OPERATING COMPANY
201 S. Broadway
Orcutt, CA 93455

TEL 805-934-8224
FAX 805-937-8709

October 8, 1996

Mr. Rishi Tyagi
District Manager
U.S. Department of Interior
Minerals Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RE: Application for Permit to Drill
Lease OCS-P 0216 #S-87
Santa Clara Field - Platform Gilda

Mr. Tyagi:

Please accept the enclosed Form 123, "Application for Permit to Drill" (APD) covering the above referenced well (original plus three copies). In support of this application, the following information is enclosed:

1. Location of Well with Platform
2. Drilling and Completion Procedures
3. Casing Design
4. Cement Program
5. Proposed Logging Program
6. BOP Program
7. Well Control Procedure
8. Anticipated Pressures and Minimum Mud Requirements
9. Proposed Mud Program
10. Directional Survey
11. Proximity Summary Sheet
12. Graph showing anticipated Pore Pressures, Mud Weights & Fracture Gradients
13. Wellbore Diagram

Please call our drilling engineer, Jim Martin or myself with any question or comment at the letterhead phone number.

Thank you,

Sabrina Miller

Sabrina J. Miller
Environmental Specialist

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies,with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 11/30/2011

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
S-87	00	00	DCOR, LLC. 290 Maple Court, Ste. 290 Ventura, CA 93003
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
04-311-20754-00	4/15/2011	10 days	
8. ☐ Revision	9. If revision, please list changes:		

RECEIVED
MAR 28 2011
OFFICE OF FIELD OPERATIONS

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0216	13. LEASE NO. P-0216
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4861	15. BLOCK NO. 4861

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☒ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☐ **Other Operations**
  - ☐ Describe Operation(s)
- ☒ **Workover:**
  - ☒ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☐ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☐ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):
Stimulate and Return to Production

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*
Program and Wellbore Diagram

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)
DCOR Rig #10

20. The greater of SITP or MASP (psi): 1,850	21. Type of Safety Valve (SV): x SCSSV ___SSCSV ___ N/A	22. SV Depth BML (ft): N/A

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
2-7/8"	5,000	Low/High: 250/3,000	5,000	Low/High: 250/2,100

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
N/A	Low/High: N/A	N/A	Low/High: N/A	Low/High: N/A	N/A

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
Khris A Kircher	805-535-2026	kkircher@dcorllc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Robert L. Garcia	California Offshore Operations VP
33. AUTHORIZING SIGNATURE	34. DATE
Robert L. Garcia	3/22/2011

THIS SPACE FOR MMS USE ONLY

APPROVED BY: ORIG. SGD. BY: Dan Knowlson	TITLE: District Manager	DATE: 3/29/11

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	☒ YES ☐ NO ☐ N/A	SCBA AND H2S SENSORS PER BOEMRE REGULATIONS.
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	☐ YES ☒ NO ☐ N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	☐ YES ☒ NO ☐ N/A	SOLID STEEL DECK BETWEEN THE DRILL DECK AND WELLBAY
d) If sands are to be commingled for this completion, has aproval been obtained?	☐ YES ☐ NO ☒ N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	☐ YES ☒ NO ☐ N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	☐ YES ☐ NO ☒ N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-124, is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 5438, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

Gilda S-87 STIM AND RTP PROGRAM 03/22/11

1. Task 1 → MIRU

1.1. MIRU.
1.2. Verify that well S-87 is locked and tagged out.
1.3. Circulate well down tubing up casing with filtered kill fluid take all returns to production.
1.4. Shut in well, monitor pressure readings for 30 min to ensure static conditions.
1.5. With the well dead, close SSSV and vent valve, install BPV and rig down tree.
1.6. Check landing joint threads with short 2-7/8 EUE pup joint, take visual on well head valves, put cap on feed through.
1.7. NU and test Class III 5M BOPE to 250 / 3,000 psi using 2-7/8" tubing, annular 250 / 2,100psi.
1.8. Circulate well down tubing with filtered kill fluid take all returns to production.

2. Task 2 → PULL PRODUCTION EQUIPMENT

2.1. Install landing joint with FOSV.
2.2. Close Annular and back out hanger studs.
2.3. Pull hanger and release packer.
2.4. Circulate well down tubing with filtered kill fluid take all returns to production.
2.5. POOH w/ tubing, cable, control line, chemical line up to packer and SCSSSV.
2.6. LD packer and pressure safety equipment.
- Send all equipment to Baker Ventura to be redressed.

2.7. POOH with remaining production equipment.

3. Task 3 → RIH WITH 9-5/8" SCRAPER

3.1. RIH with 9-5/8" scraper and B-sub to liner top at 4,905'.
3.2. Circulate well down tubing w/ filtered kill fluid take all returns to production.
3.3. Single out of the hole with tubing.
3.4. LD B-sub and Scraper.

4. Task 4 → SINGLE IN THE HOLE WITH TREATING PACKER

4.1. MU 9-5/8" fullbore acid treating packer with bypass.
4.2. Single in the hole with new production tubing.
4.3. Set fullbore packer at +/- 4,850' (TOL is at 4,905').
4.4. Pressure test backside to 1,000 psi for 10 min.

5. Task 5 → PUMP ACID STIMULATION

5.1. RU acid equipment.
5.2. Hold acid JSA.

5.3. Pressure-test surface lines to 5,000 psi
5.4. Pump acid stimulation.
- 40 bbls 10% HCl/20% xylene (DAD)
- 80 bbls 10% HCl/1.5% HF acid
- 40 bbls 10% HCl/20% xylene (DAD)
- 40 bbls 2-3% NH4Cl water
- Max P: 1850 psig; Max rate: 2 bpm.

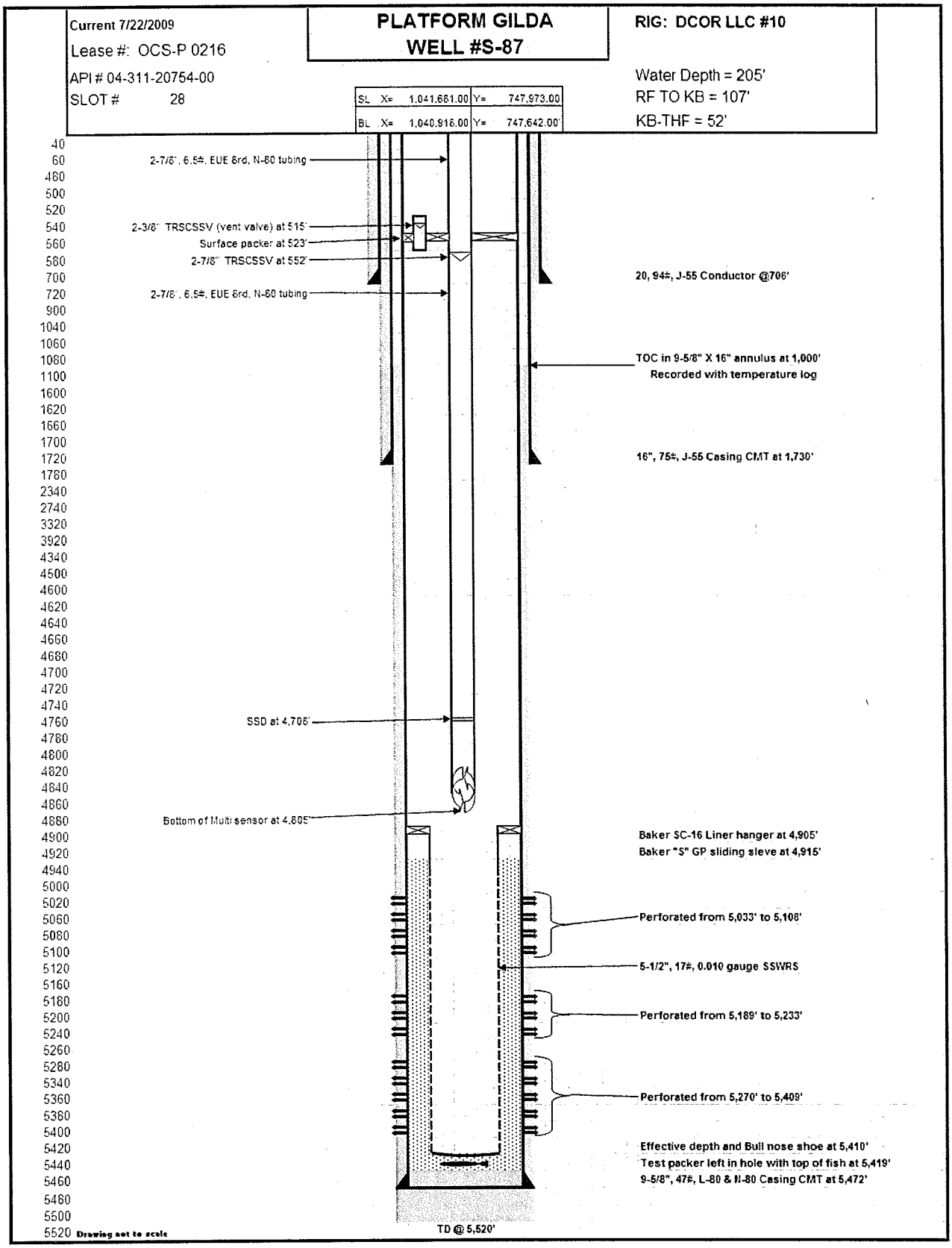
5.5. Allow well to equalize, open bypass, unset packer.
5.6. POOH w/ tubing.
5.7. LD 9-5/8" fullbore acid treating packer w/ bypass.
5.8. Hold acid JSA.
5.9. RD acid equipment.

6. Task 6 → RUN PRODUCTION EQIPMENT

6.1. RU to run production equipment.
6.2. RU tubing testers.
6.3. Test in the hole with 5,000psi.
6.4. Make up SSSV, surface packer and vent valve.
6.5. Install control lines and test to 5,000 psi.
6.6. Pressure test both the SSSV and vent valve.
6.7. MU cable splices, chemical line and two control lines.
6.8. Continue RIH w/ surface packer, cable, chemical line, control lines.
6.9. PU and install hanger.
6.10. Install BPV.
6.11. RD tubing testers.
6.12. Ensure electrical feed-through is protected and kept dry.
6.13. Land, lock and pressure-test hanger to 3,000psi.
6.14. Check well and back out landing joint.

7. Task 7 → RDMO

7.1. ND BOPE and riser.
7.2. RU and test production tree to 3,000 psi.
7.3. RU wireline and pressure-test lubricator and pack-off to 1,500psi.
7.4. Run and set "N" test tool above SSSV.
7.5. Set Baker Twin Seal Packer w/ 3,000 psi.
7.6. Recover "N" test tool.
7.7. RD wireline.
7.8. Turn well over to production and RWTP.


Current 7/22/2009
Lease #: OCS-P 0216
API # 04-311-20754-00
SLOT # 28
PLATFORM GILDA
WELL #S-87
RIG: DCOR LLC #10
Water Depth = 205'
RF TO KB = 107'
KB-THF = 52'
SL X= 1,041,661.00 Y= 747,973.00
BL X= 1,040,916.00 Y= 747,642.00
40
60
480
500
520
540
560
580
700
720
900
1040
1060
1080
1100
1600
1620
1660
1700
1720
1780
2340
2740
3320
3920
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4500
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5000
5020
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5080
5100
5120
5160
5180
5200
5240
5260
5280
5340
5360
5380
5400
5420
5440
5460
5480
5500
5520
2-7/8", 6.5#, EUE 8rd, N-80 tubing
2-3/8" TRSCSSV (vent valve) at 515'
Surface packer at 523'
2-7/8" TRSCSSV at 552'
2-7/8", 6.5#, EUE 8rd, N-80 tubing
20, 94#, J-55 Conductor @706'
TOC in 9-5/8" X 16" annulus at 1,000'
Recorded with temperature log
16", 75#, J-55 Casing CMT at 1,730'
SSD at 4,705'
Bottom of Multi sensor at 4,805'
Baker SC-16 Liner hanger at 4,905'
Baker "S" GP sliding sleve at 4,915'
Perforated from 5,033' to 5,108'
5-1/2", 17#, 0.010 gauge SSWRS
Perforated from 5,189' to 5,233'
Perforated from 5,270' to 5,409'
Effective depth and Bull nose shoe at 5,410'
Test packer left in hole with top of fish at 5,419'
9-5/8", 47#, L-80 & N-80 Casing CMT at 5,472'
TD @ 5,520'
Drawing not to scale

Online Payment

Step 3: Confirm Payment

1 | 2 | 3

Thank you.
Your transaction has been successfully completed.

Pay.gov Tracking Information

Application Name: MMS Application for Permit to Modify - BR
Pay.gov Tracking ID: 252U87BT
Agency Tracking ID: 74187021694
Transaction Date and Time: 03/25/2011 10:41 EDT

Payment Summary

Address Information

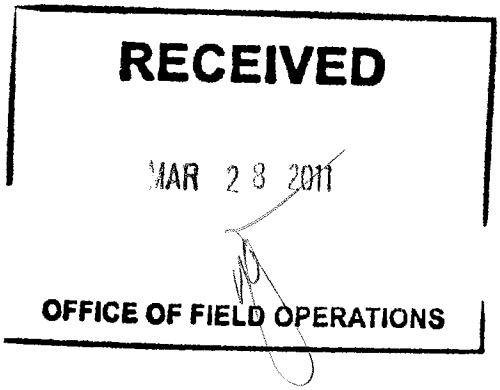
Account Holder Name: Susan Warren
Billing Address: 290 Maple Court
Billing Address 2: Ste. 290
City: Ventura
State / Province: CA
Zip / Postal Code: 93003
Country: USA

Account Information

Card Type: Visa
Card Number: **********1507
Region: Pacific
Contact: Khris Kircher 805-535-2026
Company-CompanyNo: DCOR L.L.C. 2531
Lease: 0216
API Well No: 043112075400
Area-Block: Unnamed or Other, 4861
APM Work: Other Operation

Payment Information

Payment Amount: $116.00
Transaction Date and Time: 03/25/2011 10:41 EDT



SJS 9/30/04

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies,
with ONE copy marked "Public Information"

OMB Control number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

1. TYPE OF SUBMITTAL	2. MM OPERATOR NO.	3. OPERATOR NAME & ADDRESS *(Submitting Office)*
__ REQUEST APPROVAL _X_ SUBSEQUENT REPORT ___ CORRECTION	1546	Nuevo Energy Company 201 S. Broadway Orcutt, CA 93455

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
S-87	00	00

7. API WELL NO. *(12DIGITS)*	8. START DATE *(Proposed)*	9. PRODUCING WELL INTERVAL	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
043112075400		S01	COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO.: OCS-P-0216	16. LEASE NO.: OCS-P-0216
14. AREA NAME: 6B	14. AREA NAME: 6B
15. BLOCK NO.: 4861	15. BLOCK NO.: 4861

RECEIVED
SEP 28 2004
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ___ INITIAL COMPLETION
- ___ MULTI-COMPLETION
- ___ RECOMPLETION
- ___ MODIFY PERFORATIONS
- ___ CHANGE ZONE
- ___ PERMANENT PLUGGING
- ___ TEMPORARY ABANDONMENT
- ___ PLUG BACK TO SIDETRACK/BYPASS
- __ OTHER_____
- ___ ACIDIZE WITH COIL TUBING
- ___ ARTIFICIAL LIFT (INITIAL)
- _X_ WORKOVER
- ___ CHANGE IN APPROVED PROCEDURE
- ___ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing Unit, etc.)*	21. RIG TYPE
Nuevo Rig #10	PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach prognosis or Summary of Completed Work, As Appropriate)*

See attached final well history for project details.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
Steven Ensor	(805) 934-8204	sensor@plainsxp.com

26. AUTHORIZING OFFICIAL *(Type or print Name)*	27. TITLE
Thomas B. Goeres	As Agent for Arguello, Inc.

28. AUTHORIZING SIGNATURE	29. DATE
Thomas B. Goeres	9/22/04

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
Shannon J. Shaw	for: District Manager	9/30/04

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover and production operations. MMS uses the information to evaluate and approve or disapprove the adequancy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time ofr reviewing instructions, gathering and maintaining data, and completing annd completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

ORIGINAL Confidential

Platform Gilda
S-87 Pull & Replace ESP

DOL	Date	24 Hour Summary
1	7/3/04	Held safety meeting. Offload work boat. R/U mud pump.
2	7/4/04	Held safety meeting. R/U W/L. Pulled DCBV & installed dummy. Set rig floor on sub base. R/D W/L. Install landing jt. Killed well w/ 8.9 ppg KCL. N/D production tree.
3	7/5/04	Held safety meeting. N/U x-over, riser & Class IV BOPE. Skid rig. Test BOP 250/3000 psi w/ water.
4	7/10/04	Held safety meeting. Complete BOP test. Install landing jt. Pull hanger & packer loose. Open hydril pull hanger to floor & remove BPV. L/D hanger. POOH w/ packer & ball valve. POOH w/ production string. L/D BHP chamber & pump assembly. RIH w/ 9-5/8" scraper assembly to 635'. POOH & down the same. M/U pump assembly.
5	7/11/04	Held safety meeting. P/U Y-tool string & ran a drift thru 1st jt. L/D tbg string. RIH w/ ESP assembly on new yellow band 2-7/8" tbg. M/U Y-tool assembly to pump assembly.
6	7/12/04	Held safety meeting. Continue to RIH w/ pump assembly P/U tbg f/ V-door. R/U W/L. RIH to 4330'. Set plug in S/S. Fill tbg w/ 6% KCL water & tested to 3000 psi. POOH L/D W/L. M/U SCSSV & 9-5/8" packer. RIH w/ pump assembly P/U tbg f/ V-door. Install hanger. Install BPV, control & chemical lines. Land tbg hanger. R/D guide wires. lower mast. N/D BOPE & riser.
7	7/13/04	Held safety meeting. N/D cross over spool. N/U production tree & flow line & test to 3000 psi. Turn well over to production

SJS 6/28/04

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies, with ONE copy marked "Public Information"

OMB Control Number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

1. TYPE OF SUBMITTAL	2. MMS OPERATOR NO.	3. OPERATOR NAME and ADDRESS *(Submitting Office)*
☒ REQUEST ☐ SUBSEQUENT ☐ CORRECTION APPROVAL REPORT	01546	Nuevo Energy Company 1200 Discovery Dr. Suite 500 Bakersfield, CA 93309

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
Gilda S-87	~~01~~ 00 (SJS)	00

7. API WELL NO. *(12 digits)*	8. START DATE *(Proposed)*	9. PRODUCING INTERVAL CODE	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
04311207540~~1~~0	6/28/04	SO1	COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216	16. LEASE NO. P-0216
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861	18. BLOCK NO. 4861

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JUN 28 2004
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ☐ INITIAL COMPLETION
- ☐ MULTI-COMPLETION
- ☐ RECOMPLETION
- ☐ MODIFY PERFORATIONS
- ☐ CHANGE ZONE
- ☐ PERMANENT PLUGGING
- ☐ TEMPORARY ABANDONMENT
- ☐ PLUG BACK TO SIDETRACK / BYPASS
- ☒ OTHER _____
- ☐ ACIDIZE WITH COIL TUBING
- ☒ ARTIFICIAL LIFT (INITIAL)
- ☐ WORKOVER
- ☐ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)*	21. RIG TYPE
Nuevo Rig # 10	PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

See attached procedure.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
Steve Ensor	661-322-7600 07	805-934-8204

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company
28. AUTHORIZING SIGNATURE Richard F. Garcia	29. DATE 6/25/04

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
Shannon Shaw	for: District Manager	JUN 25 2004

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover, and production operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

NUEVO ENERGY COMPANY

A wholly owned subsidiary of Plains Exploration & Production

SANTA CLARA FIELD
PLATFORM GILDA - WELL S-87
PUMP CHANGE PROCEDURE
June 24, 2004

GENERAL DATA:

T.D.	5,520' MD (5,416' TVD)
FISH (Lost RBP)	5,420' MD – below gravel pack
WELLHEAD	National 20 3/4" 3M x 13 5/8" 5M with a BX-160 ring
CONDUCTOR CASING	20", 94 ppf, J-55, @ 706' MD
SURFACE CASING	16", 75 ppf, J-55, @ 1,730' MD
PRODUCTION CASING	9 5/8", 47 ppf, L-80/N-80, @ 5,472' MD
PRODUCTION TUBING	2 7/8", 6.5 ppf, L-80, EUE, 8rd
GRAVEL PACK PACKER	Baker SC-1L @ 4,905' MD (6" ID)
GRAVEL PACK Minimum ID	4.892" ID in the 5½" blank and screen from 4,941' MD to bull plug at 5,409' MD
UPPER REPETTO PERFORATIONS	5,033' – 5,108' MD 5,189' – 5,233' MD 5,270' – 5,409' MD
CURRENT PACKER	Halliburton RH-DC at 530' MD
CURRENT SCSSV	HRS wireline retrievable DCBV at 525' MD
PROPOSED PACKER	Halliburton RDH at +/-520' MD
PROPOSED SCSSV	Halliburton 5M Wellstar at +/-545' MD
ESTIMATED BHP	1460 psi after 4 day SI at Pruett Chamber
LAST TEST RATE	150/140 G/N with 65 MCFD on 5/24/04 with an Pruett chamber BHP (uncorrected) of 320 psi

DISCUSSION: This well was completed in 3/97 with a gravel pack in three intervals of the Upper Repetto. An ESP assembly was installed and the well commenced production on 3/29/97. It tested at a peak rate of 612/526 G/N in 4/97. The original ESP equipment is still the well after in excess of a seven year run. Over the course of its run, the rate has gradually dropped to 150/140 G/N while at a fairly constant pump intake pressure of ~ 300 psi.

During this workover, the failed ESP will be pulled and replaced by a D475N Reda unit. This downsize will reduce power consumption without dropping the production rate. A multi-sensor and Y block will be added to the assembly to allow monitoring pressure information and access to the producing interval for production surveillance of the pending waterflood.

PROCEDURE:

1. Skid rig over S-87.

2. RU slickline. Pull DCBV. Shift open the XA sliding sleeve. Install DC dummy valve. RD slickline.

3. Circulate clean/filtered 3% KCL/freshwater into the well. Monitor to verify its dead.

4. Install BPV. ND tree. NU Class IV (5M) BOP. Install BPV and remove tree. Recover BPV and install test plug. Test riser and BOPE to 250/3000 psi and annular to 250/2200 psi.

6. Pull RH DC packer and the failed ESP assembly.

7. MU and RIH with a Reda D475N ESP assembly with a downhole pressue sensor, Y block, and XA SSD as shown on the attached drawing.

8. RU slickline. Set an X test tool in SSD X profile and test the tubing to 2,000 psi. Pull the test tool and RD slickline.

9. Continue RIH with a RDH packer & 5K SCSSV

10. Land tubing hanger and secure lock down screws.

11. RU slickline. Set X testing tool in the 2.313" ID "X" profile located in the top of the SCSSV.

12. Set the RDH packer. Test the backside to 1000 psi

13. POOH with X testing tool. RD slickline.

14. Close the SCSSV and install BPV.

15. ND BOPE. NU tree. Pull BPV. Test the tree to 3000 psi.

16. Tie electrical cable into the VSD. Check electrical readings to verify proper ESP operation.

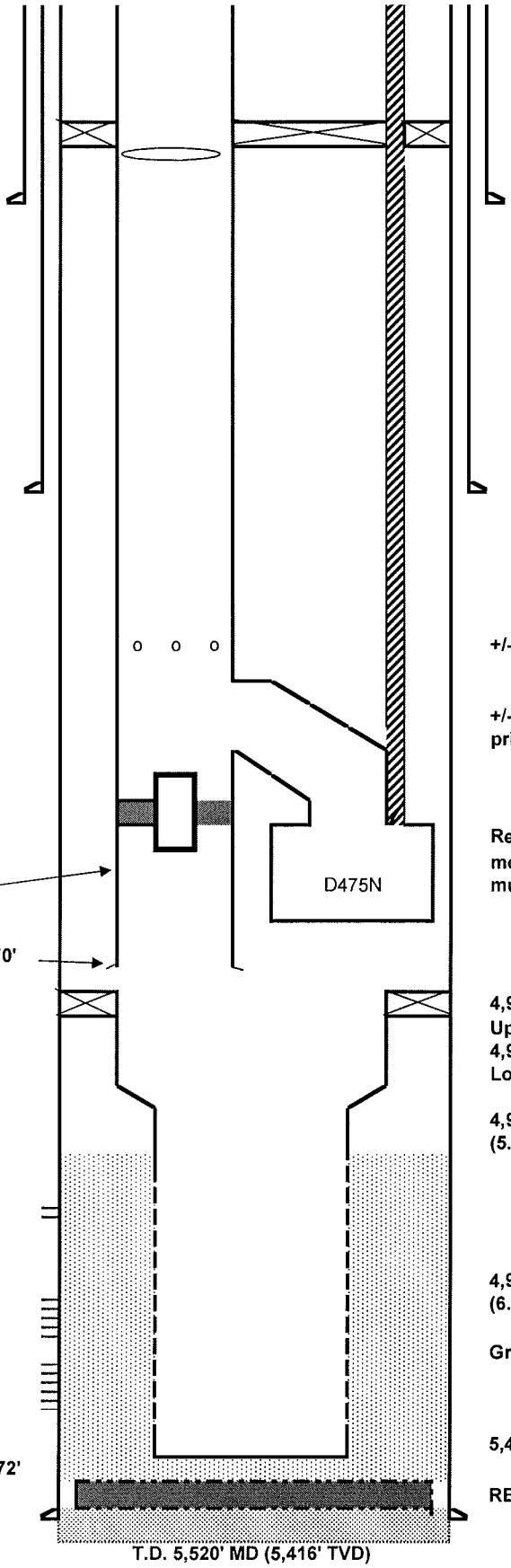
17. Skid to next well.

Platform Gilda - Well S-87

Proposed Wellbore Diagram

24-Jun-04

API # 04-311-20754



Water Depth : 205'
KB elevation: 107'
KB-THF: 52'

Spud Date: 12/15/96
Initial Production: 3/29/97

520' MD - HRS RDH packer
545' MD - HRS 5K Wellstar SCSSV

20", 94 ppf, J-55 conductor at 706' cemented with 1318 ft^3

16", 75 ppf, J-55 conductor at 1,730' cemented with 1972 ft^3

#2 Redalead round cable

+/- 4,713' MD - XA Sliding Sleeve

+/- 4,760' MD - 6 3/4" Y block (2 7/8" b x b on primary string - 2 3/8" box on bypass)

HRS XN (2.205: ID) nipple at +/- 4,764' MD with PXN plug installed

2 7/8", 6.5 ppf, L-80, EUE, 8rd tubing string

Reda D475N, 200 stage, 50 Hp, 1350 volt motor with a VGSA gas separator and multisensor tool at +/- 4,855' MD (bottom)

Wireline reentry guide at ~ 4,870'

4,905' MD - Baker SC-1L (6" ID) Packer
Upper extension (6.184" ID)
4,915' MD - Model S GP sliding sleeve
Lower extension (6.184" ID)

4,941' - 4.982' MD - 5 1/2", 17 ppf, K-55 blank (5.5" O.D., 4.892" I.D.)

Upper Repetto Formation Top @ 4,908' MD (4,858' TVD)

5,033' - 5,108' MD perfed at 12 SPF with TCP on 3/21/97

5,189' - 5,233' MD perfed at 12 SPF with TCP on 3/19/97

5,270' - 5,409' MD perfed at 12 SPF with TCP on 3/19/97

4,982' - 5,409' MD - 5 1/2", 10 gauge screen (6.00" O.D., 4.892" I.D.)

Gravel packed with 20/40 mesh (118 ft^3 in place)

9 5/8", 47 ppf, L-80/N-80, @ 5,472' cemented with 1677 ft^3

5,410' MD - bottom of bullnose shoe

RBP fish @ 5,419' - left in hole 1/97

T.D. 5,520' MD (5,416' TVD)

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20754	S-87	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041681 Y=747973 N341056 W119257	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached Well Summary Report w/schematic, directional survey, and well history for close out of Sundry

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JUL - 8 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

7/2/01

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	Manager, ES&RC
30. AUTHORIZING SIGNATURE	31. DATE
	JUL 01 1997

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 7/24/01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

WEEKLY ACTIVITY REPORT
Period: 12/9/96 to 12/15/96

Week No. 1

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-87
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20754
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Company
8. Rig Name: Torch 10
9. Contact/Phone No.: 805-739-9111
10. Spud Date: 12/15/96
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 750' MD
14. Mud Weight: N/A
15. Last BOP Test Date: N/A Test Pressure (psi):
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

Spud well 12/15/96. Drill and survey to 750'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/16/96 to 12/23/96

Week No. 2

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-87
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20754
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Company
8. Rig Name: Torch 10
9. Contact/Phone No.: 805-739-9111
10. Spud Date: 12/15/96
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 1750' MD
14. Mud Weight: 9.7
15. Last BOP Test Date: 12/22/96 Test Pressure (psi): 250 low/1000 high
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

Problems with hole opener. Test o.k. @ +17' level. Junk problems. Ran 20" casing & set @ 706'. Cement with 910 sxs Class "G". Pressure test all BOP's and safety valves to MMS Specs. Drilled and surveyed to 1750'. Performed leak off test with 11.5# E MW.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 12/24/96 to 12/31/96

Week No. 3

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-87
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20754
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Company
8. Rig Name: Torch 10
9. Contact/Phone No.: 805-739-9111
10. Spud Date: 12/15/96
11. TD Date: 12/31/96
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: 11.8
15. Last BOP Test Date: 12/25/96 Test Pressure (psi): 250 low/1800 high
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

Re-open hole to 1750'. Ran csg and set @ 1730'. Cement with 1550 sxs Class "G". Pressure test seals (12/24/96) @ 700 psi for 15 min. Pressure test casing @ 1400 psi for 30 min. Drill to 5520' TD on 12/31/96.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/01/97 to 01/05/97

Week No. 4

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Company
2. Well No.:	S-87	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4661	9. Contact/Phone No.:	805-739-9111
4. API Number:	04-311-20754	10. Spud Date:	12/15/96
5. Water Depth:	205'	11. TD Date:	12/31/96
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: 11.7
15. Last BOP Test Date: 12/25/96 Test Pressure (psi): 250 low/1800 high
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

RIH to 5520' and survey. RIH with 9 5/8" casing and set @ 5427'. Cement with 1170 sxs Class "G". MU Schlumberger and run Temp. survey to 3000' - indicating cement @ 1100'. Retest surface lines to 1000' - o.k. ND BOPE and NU casing spools. Attempted to install emergency slips - spool screws sheared. ND casing spool and remove slip.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972
9 5/8"	5427'	3000	12.4 ppg	1677

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 01/06/97 to 01/12/97

Week No. 5

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Company
2. Well No.:	S-87	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	805-739-9111
4. API Number:	04-311-20754	10. Spud Date:	12/15/96
5. Water Depth:	205'	11. TD Date:	12/31/96
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: N/A
15. Last BOP Test Date: 01/08/97 Test Pressure (psi): 250 low/1400 high
16. Well Status (Dlg, Com, WO, TA, PA): Drlg

17 Summary of Operations:

NU 20 3/4" 3M x 13 5/8" 5M with slip bowl. Install emergency pack off. NU 13 5/8" 5M x 13 5/8" 5M tubing spool. Test 9 5/8" pack off to 5M for 30 min. - o.k. NU BOPE and prep for test. Ran GR logs to 5420'. Bridge plug testing troubles. ND with bridge plug set @ 65'. Retest casing from surface to bull plug @ 3271' - 300# low - good & 2500# high - good for 20 min. '0' leak off. Troubles with bull plug - lost in hole @ 4016'. Push to bottom of hole @ 5520' TD. Opted to leave in hole rather than cause damage uphole. Top of fish 5420' MD - 5319' TVD. ND BOPE. RD and temp. abandon S-87. Test flange and casing to 2500 psi for 30 min - o.k. Release rig 01/10/97.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972
9 5/8"	5427'	3000	12.4 ppg	1667

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		
01/06/97	USI/GR/Nuetron - CAL	1200' - 5390'	1
01/06/97	GR/Nuetron Correlation	5390' - 5420'	2

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 03/16/97 to 03/23/97

Week No. 6

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Company
2. Well No.:	S-87	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	805-739-9111
4. API Number:	04-311-20754	10. Spud Date:	12/15/96
5. Water Depth:	205'	11. TD Date:	12/31/96
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: N/A
15. Last BOP Test Date: 03/16/97 Test Pressure (psi): 250 low/2500 high
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

NU xo spool, riser, and BOP's. Run BOP tests. Pressure test annular 250 low/2100 high. Pressure test casing @ 2500 psi for 30 min. PU 3 1/2" 501 tubing. Tag @ 5418' and circulate. RIH with tubing. Tag @ 5420'. Space out - bottom shot @ 5409' - set packer @ 5105'. POOH to 5090' - set packer @ 4778'. RIH. Tag top of sand @ 5134' & pressure test @ 1000 psi. Space out tbg - bottom shot @ 5108' - set packer & pressure test lines @ 3000 psi. Pressure test lines to 5000 psi. Pump H2S fracture treatment - 2000 psi on annulus. Bleed down & hold '@ 500 psi. Perfs from 5189' - 5223', 5270' - 5409', and 5033' - 5108'. RIH. Set packer @ 4904'. RU Halliburton lines to tbg. Pressure test lines @ 6500 psi - place 2000 psi on backside. Establish injectivity and fracture well as programed. Final pumping pressure - 3074 psi., S.I.P. 2435 psi - 1 min., S.I.P. 2358 psi - 5 min., S.I.P. 2160 psi - 15 min., S.I.P. 2016 psi - 30 min., S.I.P. 1783 psi., S.I. @ tubing. Monitor well.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1972
9 5/8"	5427'	3000	12.4 ppg	1667

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		
01/06/97	USI/GR/Nuetron - CAL	1200' - 5390'	1
	GR/Nuetron Correlation	5390' - 5420'	2
03/21/97	GR & Collar Locator		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 03/24/97 to 03/31/97

Week No. 7

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-87
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-20754
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Company
8. Rig Name: Torch 10
9. Contact/Phone No.: 805-739-9111
10. Spud Date: 12/15/96
11. TD Date: 12/31/96
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 5520' MD
14. Mud Weight: 9.7
15. Last BOP Test Date: 03/16/97 Test Pressure (psi): 250 low/2500 high
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

Open well and flow to production for approx. 7 hrs. Circ. 9.5# KCL down tbg and hold 200 psi on annulus, work up to 9.7# KCL and hold. Run 5 1/2" casing 17# screen liner - set @ 5410'. Ran 133 jts of 2 7/8" tbg. PU dual head packer and SCSSV BV assembly. MU line and cable to hanger and land tbg. Hanger @ 1630' w/BPV in place. TD 4867' (bottom of shroud). ND BOPE. NU production tree. Pump on and fluid to surface 3/29/97. Release rig 3/29/97.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
20"	706	2500	N/A	1318
16"	1730	3000	N/A	1550 sxs
9 5/8"	5427'	3000	12.4 ppg	1170 sxs
5 1/2"	5410'	1500	N/A	136

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

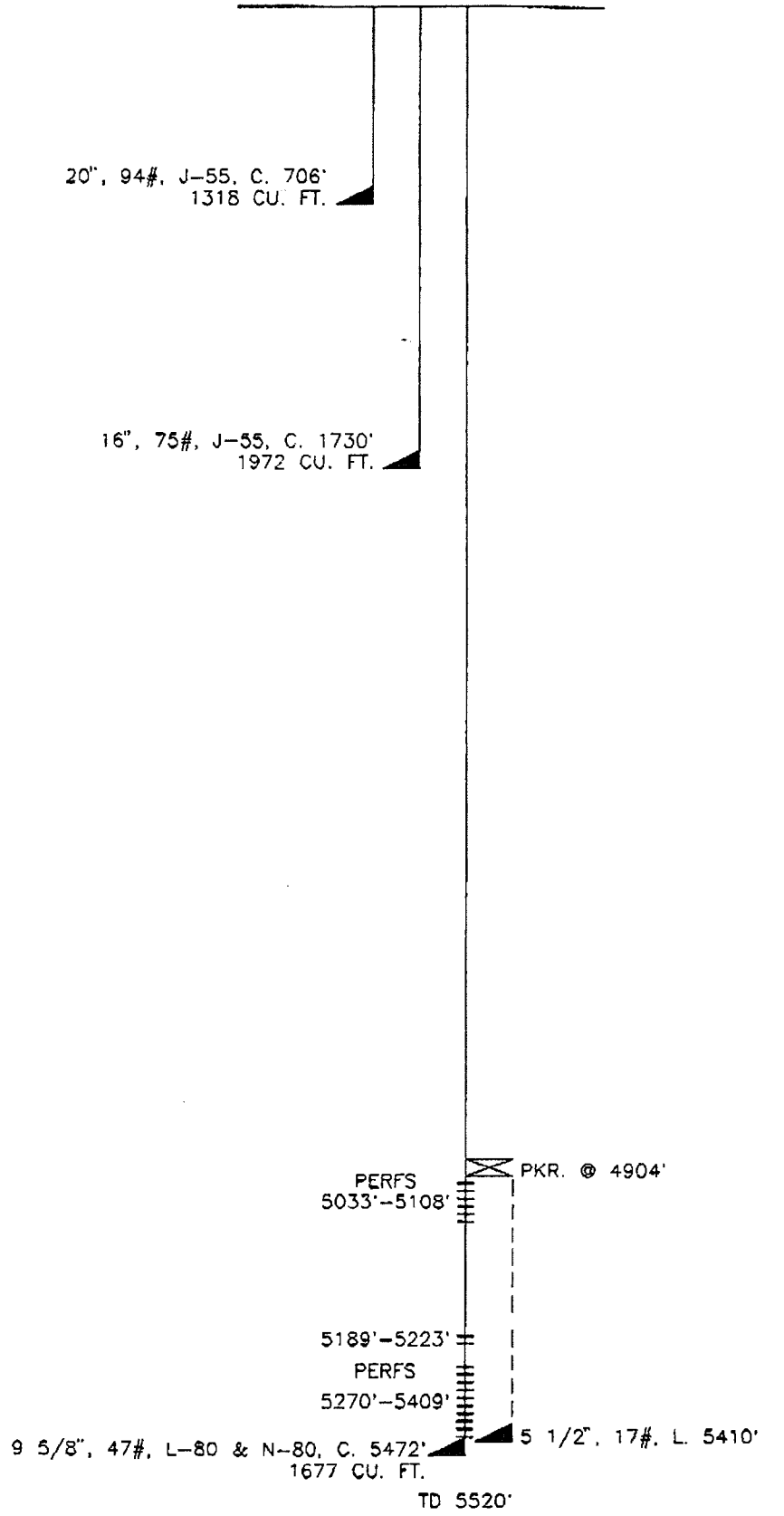
Date	Log/Survey	Interval	Run Number
12/23/96	Gyro Survey	760 - 1750'	
01/01/97	RI/MCFL GR		
01/06/97	USI/GR/Nuetron - CAL	1200' - 5390'	1
	GR/Nuetron Correlation	5390' - 5420'	2
03/21/97	GR & Collar Locator		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

SANTA CLARA UNIT
Well #S-87

Slot #29

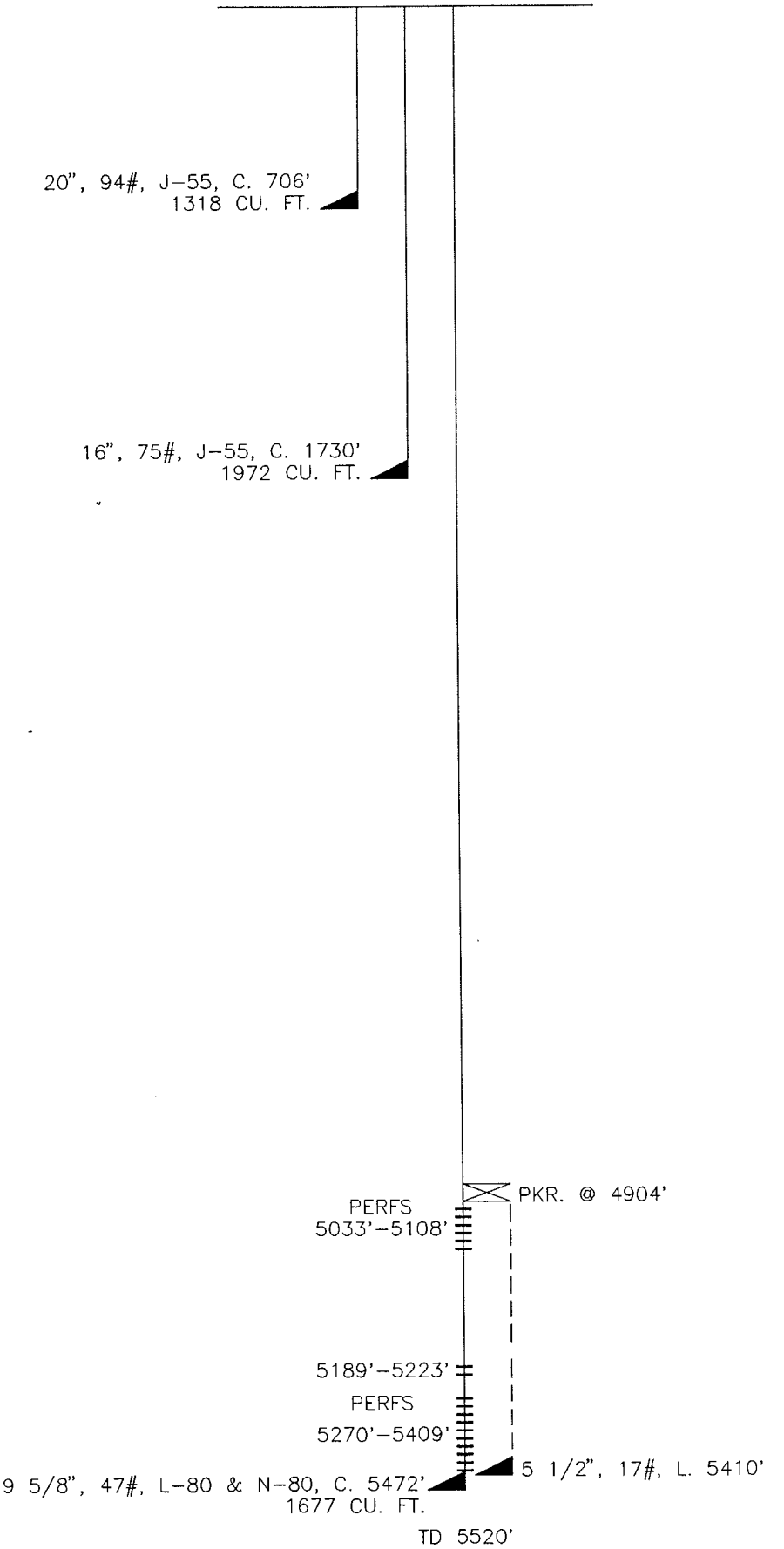


NUEVO

CALIFORNIA OPERATIONS
OFFSHORE VENTURA
6/97 RJDIII

SANTA CLARA UNIT
Well #S-87

Slot #28



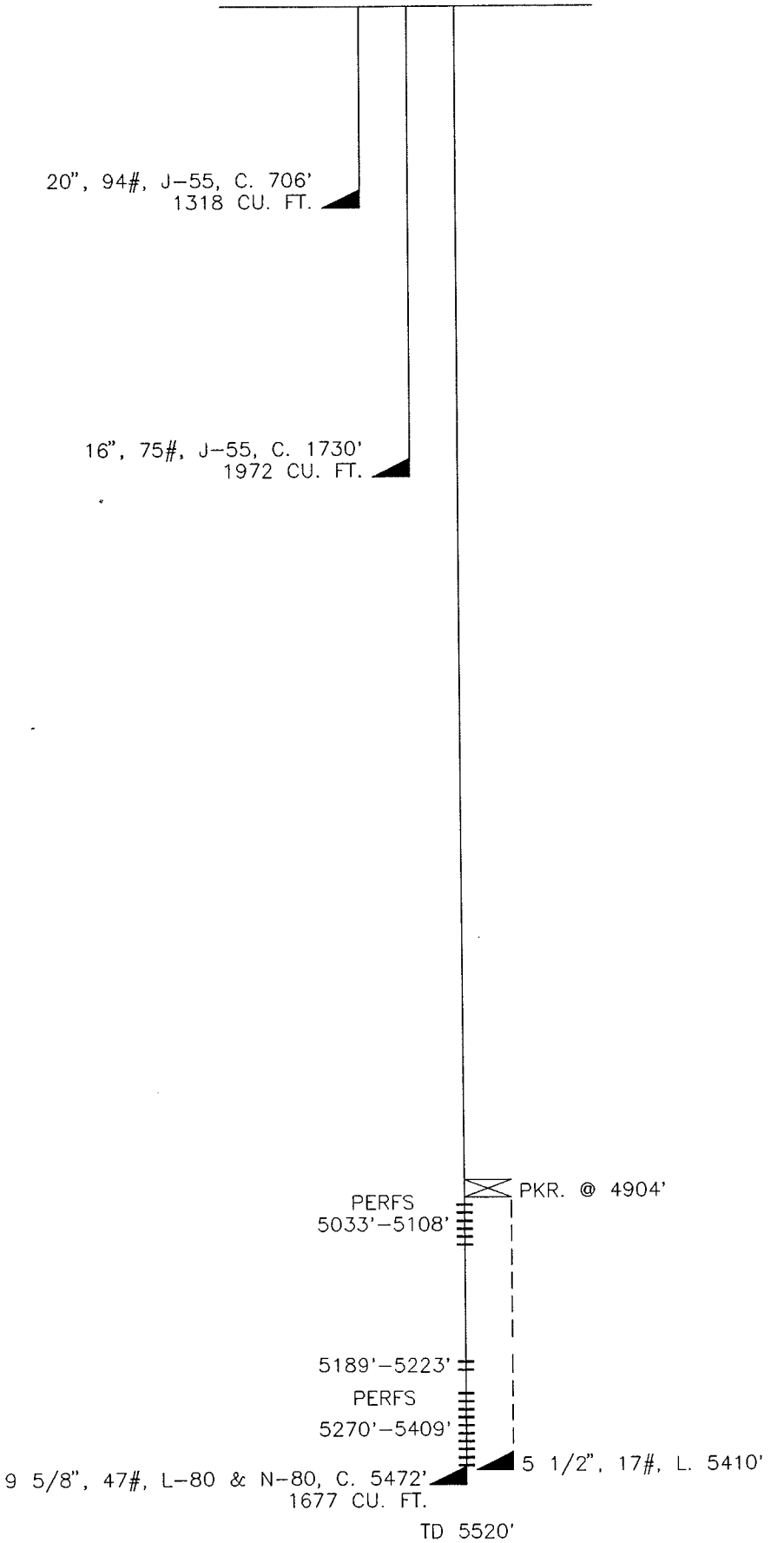
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CALIFORNIA OPERATIONS
OFFSHORE VENTURA

7/97 RJDIII

SANTA CLARA UNIT
Well #S-87

Slot #28



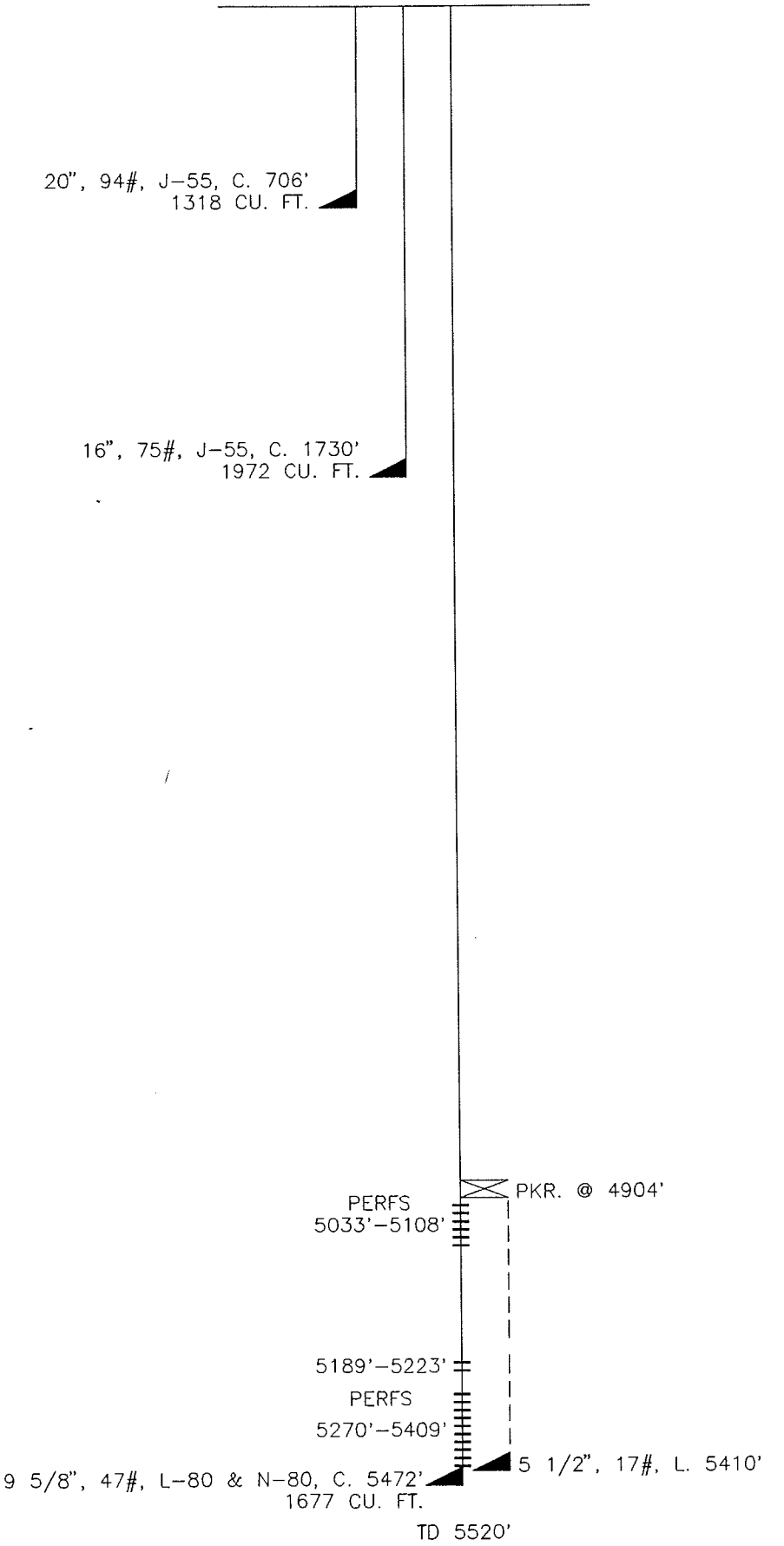
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CALIFORNIA OPERATIONS
OFFSHORE VENTURA

7/97 RJDIII

SANTA CLARA UNIT
Well #S-87

Slot #28



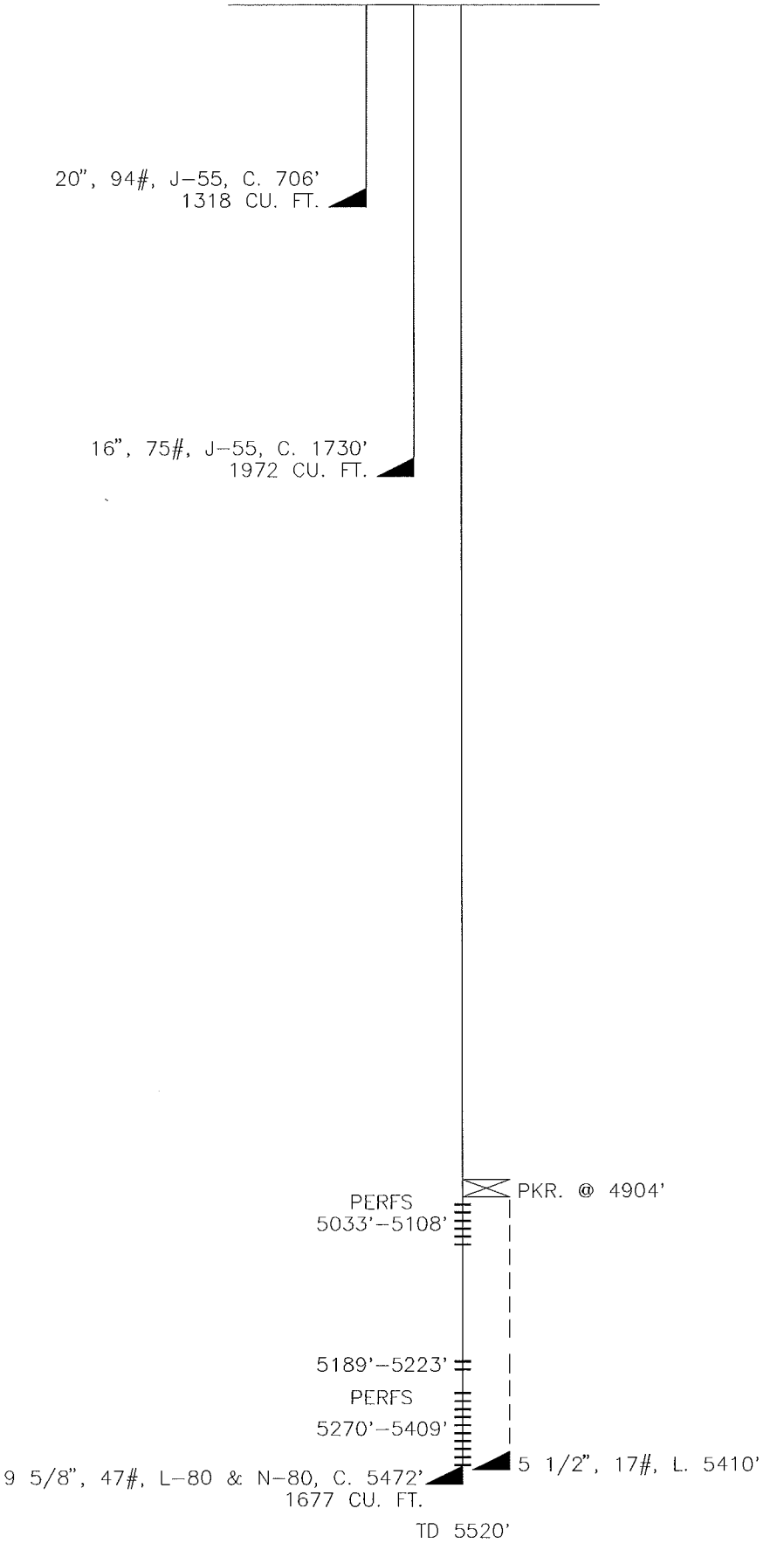
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CALIFORNIA OPERATIONS
OFFSHORE VENTURA

7/97 RJDIII

SANTA CLARA UNIT
Well #S-87

Slot #28



NUEVO

CALIFORNIA OPERATIONS
OFFSHORE VENTURA
7/97 RJDIII

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20754	S-87	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	com/pow
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
SUBSEQUENT REPORT ___	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1041681 y= 747,943	P-0216	4861	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached program

* Surface equipment package has already been submitted

MAR 10
7/079

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
Robert for John Deacon	3/6/97

RECEIVED
MAR 7 '97
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/10/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.
Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

Torch Operating Company

Completion Procedure
AFE #1847
S-87
Platform Gilda-Santa Clara Field, OCS P-0216, Offshore California
March 6, 1997

1. Run and evaluate acoustic cement bond log. Squeeze as required.

2. RIH with TCP guns and water frac tools to lower LPB-C intervals. Perforate from 5,189'-5,233', 5,270'-5,409' with ±1000 psi. underbalance.

3. Water frac lower interval, leaving sand above the top perforation to minimize flow during the perforating of the second interval and minimize leak off during the upper interval gel frac.

4. POOH with tools.

5. RIH with second TCP gun and gel frac tools. Perforate LPB from 5,033'-5,108' with ±1000 psi. underbalance. Gel frac with crosslinked borate gel and 20/40 sand.

6. POOH with second TCP assembly.

7. Clean out sand from both intervals.

8. RIH with gravel pack assembly long enough to cover both intervals. Gravel pack both intervals and clean out excess gravel.

9. POOH with work string and tools. RIH with properly sized ESP, production tubing , packer and safety system.

10. Turn well over to production. Put on production as commingled Upper Repetto producer, with low initial drawdown. Test as directed by engineering staff.

HALLIBURTON

Fracpac II

Job Procedure

1. RIH with 9 5/8" Champ Packer on 3.5" tubing to within 100 ft of top perfs.

2. Displace the tubing with base gel (non-crosslinked) and close by-pass.

3. Maintain 1500 psi on annulus with rig pump.

4. Breakdown perfs and establish injection at 10 bpm with 2016 gal (48 bbls) base gel.

5. Monitor pressure decline for closure to determine fluid efficiency and evaluate near-wellbore effects. Consider spotting and pumping two 1000 gal sand "slugs" at 1.0 and 2.0 lbs/gal, if more than 250 psi near-wellbore friction is measured.

6. Subject to minifrac interpretation, fracpac with 6,000 gallons linear gel pre-pad and 7,500 gal Borage1 G3195 carrying 44,000 pounds 20/40 ottawa sand as follows:

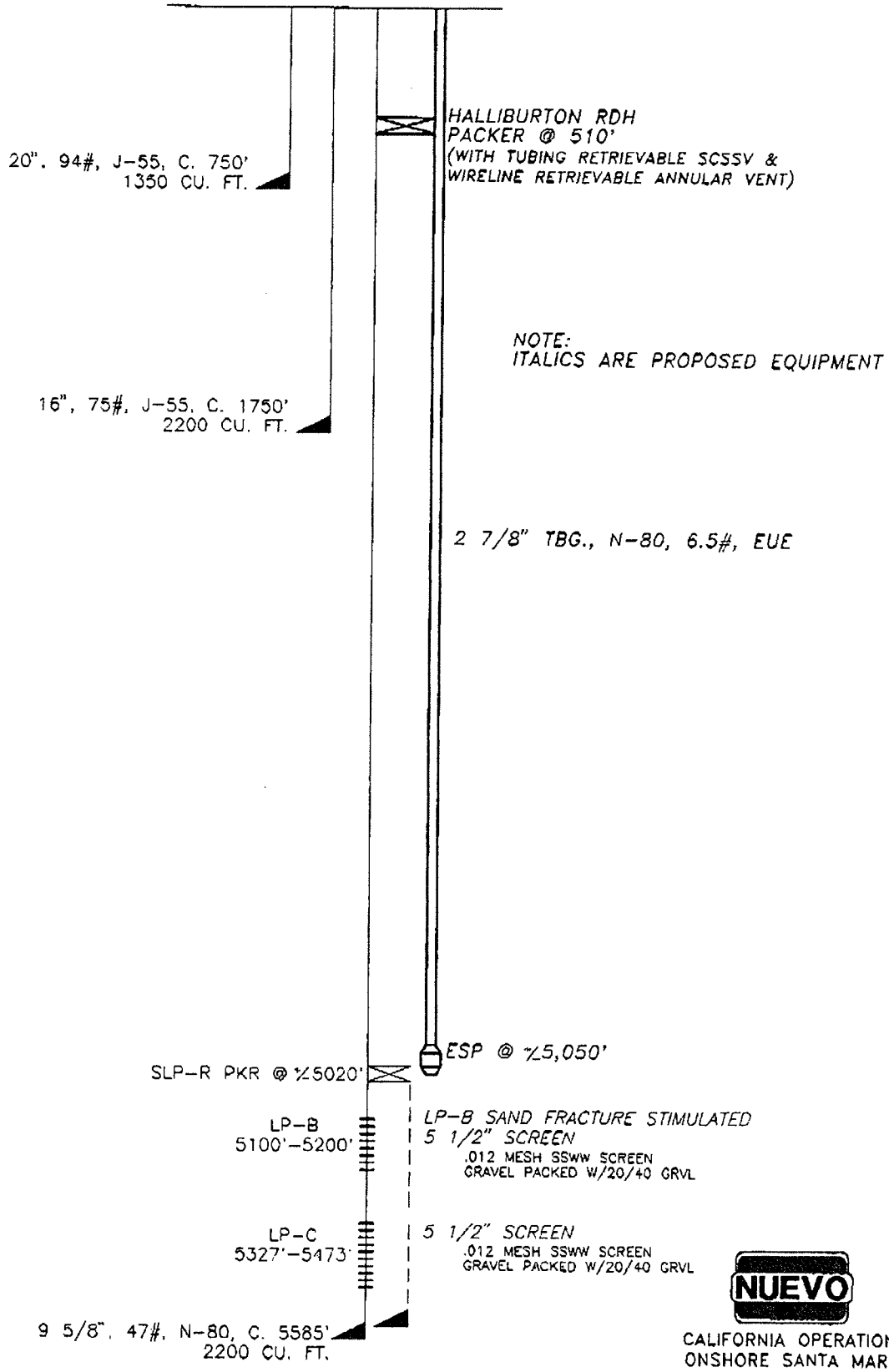
   a. 6000 gal Pre-pad
   b. 2000 gal Pad
   c. 1000 gal w/ 1.0 lbs/gal 20/40 sand
   d. 700 gal w/ 2.0 lbs/gal
   e. 700 gal w/ 4.0 lbs/gal
   f. 700 gal w/ 6.0 lbs/gal
   g. 700 gal w/ 8.0 lbs/gal
   h. 700 gal w/ 10.0 lbs/gal
   i. 700 gal w/ 12.0 lbs/gal
   j. 1000 gal w/ 14.0 lbs/gal
   k. displace with base gel

   The anticipated rate and pressure prior to tip screenout is 15 BPM at 3000 psi.
   The maximum anticipated pressure at shutin is 5000 psi with 3000 psi net pressure.

7. Shutin 6-8 hrs for gel break or until original closure stress is reached before POOH with packer.

SANTA CLARA UNIT
Well #S-87

Slot #29



NUEVO

CALIFORNIA OPERATIONS
ONSHORE SANTA MARIA
3/97 RJDIII

RECEIVED
MAR - 7 1997
MINERALS MGMT. SERVICE
CAMARILLO DISTRICT

TORCH OPERATING COMPANY
201 S. Broadway
Orcutt, CA 93455

Tel. (805) 934-8261
Fax (805) 937-3030

March 6, 1997

Mr. Rishi Tyagi
District Manager
Minerals Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RE: Sundry Notice for Platform Gilda
Well # S-87, Initial Completion

Dear Rishi:

Please find enclosed a "Public Information" copy and 3 additional copies for your review. If you should have any questions, please contact myself or Bob Davis at (805) 934-8261.

Sincerely,

Lisa Chacón

Lisa A. Chacon
Environmental Clerk

Enclosure

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20754	S-87	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	,01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	,4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	Drilling
SUBSEQUENT REPORT X	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER change casing program	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1,041,681 y=747,973 Lambert	P-0216	,4861	,4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

CONFIDENTIAL

Original APD proposed setting 20" casing at 725'. After Drilling a 17 1/2" pilot hole to 750', we have been unable to open the pilot hole with a 26" Underreamer to the 750' depth because the hole continues to fill up with sand to approximately 630'. We now request approval to set 20" at 630' or below. Verbal approval of this request was granted 12/16/96 by Rishi Tyagi. All other plans remain the same.

DEC 18

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
	,12/16/96

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for District Supervisor

DATE 12/18/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

COPY TO REGION

MINERALS MANAGEMENT SERVI
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies wi
one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20754	S-87	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	,01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	,4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	not yet drilled
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER X change of surface location	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1,041,681 y= 747,973 Lambert	P-0216	,4861	,4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	,107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Original APD was submitted to drill well out of slot #29. It was discovered that slot #29 has to small of conductor guide to accomodate 20" casing. Therefore, slot #28 will be used. The surface location for the proposed well changed. All other well plans remain the same. Verbal approval of this change was given by Dale Roberts on 12/10/96.

RECEIVED
DEC 16 96

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
Pp John M. Deacon	,12/12/96

DEC 16
70998

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for District Supervisor

DATE 12-16-96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

OSC-P0216
PLATFORM GILDA
WELL S-87
LOCATION OF WELL

AT SURFACE:	
Lambert Cal 6 Coordinates	X=1041681 Y=747973
KICKOFF POINT:	
Lambert Cal 6 Coordinates	X=1041681 Y=747869
TARGET NO. 1: LP-B SAND	4987' TVD / 5112' MD 07340 FWL & 03240 FSL of OCS-P0216
Lambert Cal 6 Coordinates	X=1041100 Y=747720
BOTTOM HOLE LOCATION:	5416' TVD / 5585' MD 354' S AND 753' W of the surface location
Lambert Cal 6 Coordinates	X=1040918 Y=747642

COPY TO REGION

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: August 31, 1996

1. 1ST COMP. X RECOMPLETION ABANDONMENT CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-20754	S-87	TORCH OPERATING COMPANY 201 S. BROADWAY SANTA MARIA, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1040918 Y=747642 S03170 W07160	P-0216	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=104111 Y=747722 S03242 W07352	P-0216	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	970329	970329	961215

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
N/A	961230	MD 05520' TVD 05416

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
5033'	5108'	4974'	5043'
5189'	5233'	5117'	5157'
5270'	5409'	5190'	5316'

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
UPPER REPETTO	UPPER REPETTO

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
26.0	20.0	94.00	J-55	00706	Class G	1318
22.0	16.0	75.00	K-55	01730	Class G	1972
12.3	09.6	47.00	L-80 & N-80	05472	Class G	1677

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
4.892'	2 7/8"	6.5#	N-80	4867'	530'

RECEIVED
JUL - 8 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

FORM MMS -125 (August 1993) (Replaces Form MMS-330 which will not be used)

CONFIDENTIAL

WELL SUMMARY REPORT

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
9 5/8"	5 1/2"	17#	K-55	4904'	5410'	Class G	136 sxs

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
5033'	5108'	Cross linkage + 20/40 sand	44,00# sand, 465 bbls. slurry

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

AIT/MCFL/GR
Directional Survey MWD - 1841' - 5520'

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
Upper Pico	1730'	1728'	2767'	2758'	Gas/water, Sand/shole/silt
Middle Pico	2767'	2758'	4306'	4273'	Gas/water, Sand/shole/silt
Lower Pico	4306'	4273'	4908'	4858'	Gas/water, Sand/shole/silt
Upper Repetto	4908'	4858'	5410'	5317'	Gas/oil/water, Sand/shole/silt

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
UP 3.2	1781'	1779'	LP C	5250'	5172'
MP 1B	2767'	2758'	LP C4	5350'	5262'
LP 1	4306'	4273'	LP D	5410'	5317'
LP B	5030'	4972			

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	as Agent for Torch
30. AUTHORIZING SIGNATURE	31. DATE
	9/1/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain geologic, well test, and well-completion equipment data. This information will be used by MMS District Supervisors to ensure that they have accurate data and information on the wells under their jurisdiction and to ensure compliance with approved plans. It is also used to evaluate remedial action in the event of well-equipment failure or well-control loss. Response to this request is mandatory (43 U.S.C. 1334). Properietary data are covered under 30 CFR 250.18.

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COPY TO REGION

MINERALS MANAGEMENT SERVICE
APPLICATION FOR PERMIT TO DRILL (APD)

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0044
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20754	S-87	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Estimated)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
349 'S & 753 'W of surface X = 1,040,917 Y = 747,642	P-0216	6B	4861	6B

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
3488 FSL 7921 FWL x= 1,041,681 y= 747,~~869~~ 968 (Lambert)	P-0216	6B	48 61	6B

18. WATER DEPTH (Estimated) (Surveyed)	19. ELEVATION AT KB (Estimated) (Surveyed)	20. RIG NAME	21. RIG TYPE
205'	107'	Torch 10	PS

22. TYPE OF WELL:	23. SPUD DATE (Proposed)	24. TOTAL DEPTH (Proposed)
EXPLORATORY / DEVELOPMENT X	~~10~~ 96	MD 5585' TVD 5416'

25. ATTACHMENTS (Attach complete well prognosis and attachments required under 30 CFR 250.64(B) through (g) or 30 CFR 272(c) and (d), as appropriate)

See Attached

RECEIVED
OCT - 9 1996
MINERALS MGMT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	ES&RC Manager

30. AUTHORIZING SIGNATURE	31. DATE
	10/8/96

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 11/6/96

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being colected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

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FORM MMS-123 (August 1993) (Replaces Forms MMS-33C which will not be used)

OSC-P0216
PLATFORM GILDA
WELL S-87
LOCATION OF WELL

AT SURFACE:	
Lambert Cal 6 Coordinates	X=1041681 Y= 747869
KICKOFF POINT:	3200' TVD / MD
Lambert Cal 6 Coordinates	X=1041681 Y= 747869
TARGET NO. 1: LP-B SAND	4987' TVD / 5112' MD 07340 FWL & 03240 FSL of OCS-P0216
Lambert Cal 6 Coordinates	X=1041100 Y= 747720
BOTTOM HOLE LOCATION:	5416' TVD / 5585' MD 349' S and 753' W of the surface location
Lambert Cal 6 Coordinates	X=1040918 Y= 747642

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-87 DRILLING PROGRAM
NEW WELL
OCTOBER 7, 1996

Proposed TD: 5416' TVD / 5585' MD

Surface Location: Slot No. 29
X= 1041681 Y= 747968

Subsurface Location: 349' South and 753' West of the surface location at 5416' TVD

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	VSS	TVD	MD	Est. Press.(psi)
UP-4B	2298'	2405'	2405'	1200-1500
MP-1B1	2928'	3035'	3035'	1200-1500
MP-2	3485'	3592'	3600'	1200-1500
MP-3	3929'	4036'	4062'	1200-1500
LP-1	4222'	4329'	4390'	1200-1500
LP-4	4682'	4789'	4900'	3100-3200
LP-B	4880'	4987'	5112'	3100-3200
LP-D	5207'	5314'	5585'	2200-2500

Proposed Casing Program

20", 94#, J-55, Vetco RL4S	0-750'
16", 75#, J-55, Butt.	0-1750'
9 5/8", 47#, N-80, Butt.	0-5585'

Note: The 16" casing will allow a string of 13 3/8" casing to be set if needed. If the 13 3/8" casing does not need to be set the resulting cost saving is $300000. Leak off tests at the 16" casing shoe depth, approximately 1750', average 13.8 ppg Equivilant Mud Weight. Maximum anticipated mud weight required to drill to T.D. is 12.2 ppg.

DRILLING PROCEDURE

1. Move in and rig up Torch Rig No. 10 over slot #29.

2. Drill a 17 ½" hole to 750' TVD / MD and 438' BOF using seawater, taking returns to the ocean floor. Sweep the hole with gel pills to remove drill cuttings. Circulate at the lowest rate possible to clean the hole.

3. Underream 17 ½" pilot hole to 26". Fill the hole with high viscosity gel mud.

4. Run 20", 94#, J-55 casing with Vetco RL4S connections, finned pup joint and 20 3/4", 3000 psi National Oilwell two step lower wellhead unit on running tools and a 20" landing joint. Land the casing with top of the wellhead 3' 5" above the production deck an landing shoe at approximately 737' TVD / MD and 425' BOF.

Note: The 20" casing must be set at least 400' BOF.

A) Use a Davis Lynch stab-in orifice fill shoe on bottom. Shoe to be made upon the bottom joint of casing prior to be delivered to the rig.
B) Place Davis Lynch centralizers 10' above shoe and on every joint to the ocean floor (approximately 11 required). Centralizers should be placed directly on the body of the casing (not across the collars) otherwise the centralizers will have problems passing through the hatch in the well bay.

4. Stab into the shoe and cement the 20" casing with 440 sacks of Class "G" with extender and fluid loss additive (mix weight 12.5 ppg) followed by 450 sacks of Class "G" with accelerator and fluid loss additive (mix weight 16.1 ppg). See the attached data sheet for cementing details. Cement volume is calculated to fill to the ocean floor including 100% excess.

	Yield	Weight	Thickening Time
Lead Slurry	2.06 cu.ft./sk	12.5 ppg	4 Hours +
Tail Slurry	1.14 cu.ft./sk	16.1 ppg	3 Hours, 30 Minutes

A) Drop the ball down the drill pipe to activate the orifice fill shoe.
B) Pump 50 bbls of seawater prior to pumping the cement.
C) Pull out of the shoe, dump 30 cu.ft. of cement in the casing an pull the stab-in tool.

6. After 10 hours back out the running tool, pull and lay down the landing joints. While waiting on cement consider running a gyro survey in the 20" casing. Use a gyro tool with 20" centralizers.

7. Install 20 3/4" riser, 20 3/4", 3000 psi single gate and double gate, 21 1/4", 2000 psi annular blowout preventer, 5000 psi kill and choke lines and 3", 5000 psi choke manifold. Test the blind rams and casing to 250 psi and 1000 psi. All tests to be performed in accordance with MMS regulations as published in the Federal Register.

8. Run the wear bushing.

9. Make up 17 ½" stabilized drilling assembly, run in the hole and drill out cement and shoe. Drill 10' of new formation and perform a leakoff test. Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe.

10. Drill a 17 ½" straight hole to 1750' TVD/ MD and 1438' BOF. The directional work on the well does not begin until below the 16" casing shoe. Use a seawater and pre-hydrated Durogel system in this section of the hole (see the attached mud program). Survey every connection using a gyro until wellbore interference has diminished and MWD survey tools can be used.

Note:

1) The estimated top of the UP-3.2 gas sand is at 1790' TVD / MD. Do not drill deeper than 1750'.
2) Consider using walnut hull sweeps to keep the BHA clean.

11. Pick up a 22" underreamer and open the 17 ½" hole to 22" from the 20" casing shoe (737' MD) to total depth.

12. Retrieve the wear bushing.

13. Rig up casing crew and run the 16", 75#, K-55, Butt. casing to 1750' TVD/MD and 1438' BOF.

A) Place a Davis Lynch orifice fill shoe on the bottom and a Davis Lynch orifice fill collar one joints above.
B) Place a Davis Lynch centralizer 10' above the shoe then every other collar to surface. Approximately 22 centralizers required. Centralizers can be placed directly on the casing collars.
C) Pick up the National Oilwell 16" landing profile to hang the casing in the 20" wellhead, running tools and 16" landing joint.

14. Cement the 16" casing to the surface as outlined in the attached cementing proposal.

Pump 250 sacks of lead cement consisting of Class "G" with an extender and fluid loss additive followed by 1300 sacks of tail cement consisting of Class "G" with a fluid loss additive and accelerator. Cement volume includes 20% excess through the openhole interval and the top of the tail slurry inside the 20" casing.

A) Drop the float activation ball prior to installing the cementing head.
B) Precede the cement with 60 bbls of seawater weighted to 9.4 ppg with gel and barite.
C) Use both a top and bottom wiper plug.
D) Reciprocate the casing as long as possible while circulating, mixing and displacing cement.

Note:

1) Rig up to dump cement returns overboard.
2) Function test the safety valve for the 16" casing and log on the tour sheet. Safety valve to be on the rig floor while running casing.

15. Wait on cement 6 hours. Back out the 16" landing joint and running tools. Wash out the BOPE, riser and wellhead with jet sub.

16. Install National Oilwell 16" packoff and test to 800 psi (80% of the 16", 75#, K-55 collapse rating).

17. Set test plug and test blind rams, upper and lower pipe rams, kill and choke lines, choke manifold and kelly cock to 250 psi and 1800 psi. Test the annular preventer to 1000 psi.

18. Run the wear bushing.

19. Run in the hole with a 12 1/4" bit and packed drilling assembly. Pressure test the 16" casing to 1400 psi after waiting on cement for 12 hours.

Note: Mud loggers to be operational prior to drilling out the 16" casing.

20. Drill out the float equipment and 10' of new formation. Test the formation to leakoff pressure as follows:

A) Pull up into the casing.
B) Test lines to 1000 psi.
C) Close the pipe rams and pump down the drill pipe at the lowest maintainable rate (½ to 1/4 BPM).
D) Record the pressure and the cumulative volume of fluid pumped. Record the mud weight on the work sheet.
E) Continue pumping until the pressure does not increase linearly with the mud volume pumped.
F) Shut down the pump and record the drill pipe pressure for 10 minutes.
G) Release the pressure and open the pipe rams.

Note: If the leakoff pressure at the 16" casing shoe is less then a 13.5 ppg equivalent mud weight, remedial squeeze cementing work may be necessary or the 13 3/8" casing may need to be set at +/- 3700'.

21. Continue to drill ahead monitoring the hole angle and possible interference with other wells using MWD to the kickoff point at 3200'. Pull out of the hole. A seawater, SP-101 and pre-hydrated Gelite mud system will be used through the openhole section (see attached drilling fluid program).

Note: Prior to adding Soltex to the mud call and discuss with the drilling superintendent or engineer. Use DMS or other lubricant if the hole becomes sticky.

22. Pick up a 12 1/4" steerable drilling system and run in the hole. Use a minimum number of drill collars and obtain the needed drilling weight with heavy weight drill pipe. Orient the wellbore to a direction of S65W and build the hole angle at 3 degrees per 100' to 25 degrees. Directional work should be completed by 4001' TVD / 4027' MD. Continue drilling ahead to the total depth of 5416' TVD / 5585' MD holding both the angle and direction.

Note: The LP-4 sand could possibly be over pressured requiring a mud weight of 11.5 ppg at 4700' MD. Continue to raise the mud weight to 12.0 ppg to drill the LP-A and LP-B sands at 4800' MD. These zones could be over pressured due to a waterflood installed in the Repetto Sands.

23. Circulate and condition the drilling mud for electric logs. Pull out of the hole.

24. Rig up the electric loggers and test the lubricator. Log as directed by the wellsite geologist. Rig down the electric loggers.

25. Run in the hole and circulate and condition the hole for running casing. Wipe the hole to the 16" casing shoe. Pull out of the hole.

26. Retrieve the wear bushing.

27. Rig up the casing crew and run the 9 5/8", 47#, N-80, Buttress casing to 5585' MD. Install a cross over from 9 5/8" Buttress to 13 3/8" Buttress National 13 5/8", 3M two step lower wellhead, running tools and 9 5/8", 47# landing joint.

A) Use a Davis Lynch auto fill float shoe and float collar 2 joints above the shoe.
B) Place a centralizer 10' above the shoe and every collar through the zone of interest and every other collar to the 16" casing shoe.

Note:

1) Function test a 9 5/8" safety valve and log on the tour sheet. Safety valve to be on the rig floor while running the casing .
2) Rig up to dump cement return over board.

28. Rig up cementers and cement the 9 5/8" casing as follows:

A) Drop float activation ball prior to installing the cement head.
B) Pump 40 bbls of reactive mud spacer weighted to the final mud weight plus .5 ppg.
C) Mix and pump 630 sacks of lead cement followed by 1580 sacks of tail cement (preliminary volumes base on 50% excess cement in the open hole). The open hole volume should be adjusted using the 4 arm caliper log plus 20% excess. Adjust the cement volume to bring the lead cement to 1500' (see the attached cement slurry design program).

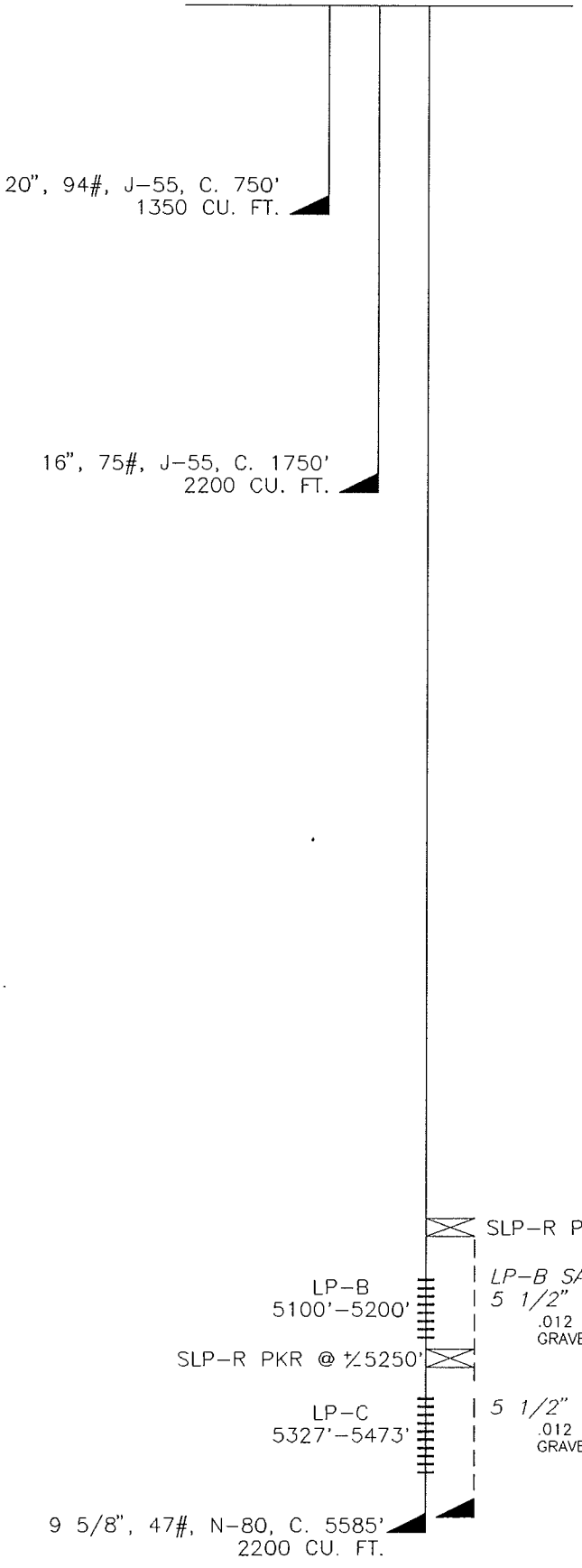
Note:

1) Use both a top and bottom plug.
2) Reciprocate the casing while circulating, mixing and cementing.
3) Bump the plug with 500 psi above the final circulating pressure, bleed the pressure off and check the floats.

29. Land the 9 5/8" by 13 5/8" hanger and seal assembly on the 20 3/4" lower wellhead. Test the seals to 1000 psi. Back out the 9 5/8" landing joint and running tools. Lay down the casing tools. Release the drilling rig to the production department for completion. A detailed completion procedure will follow.

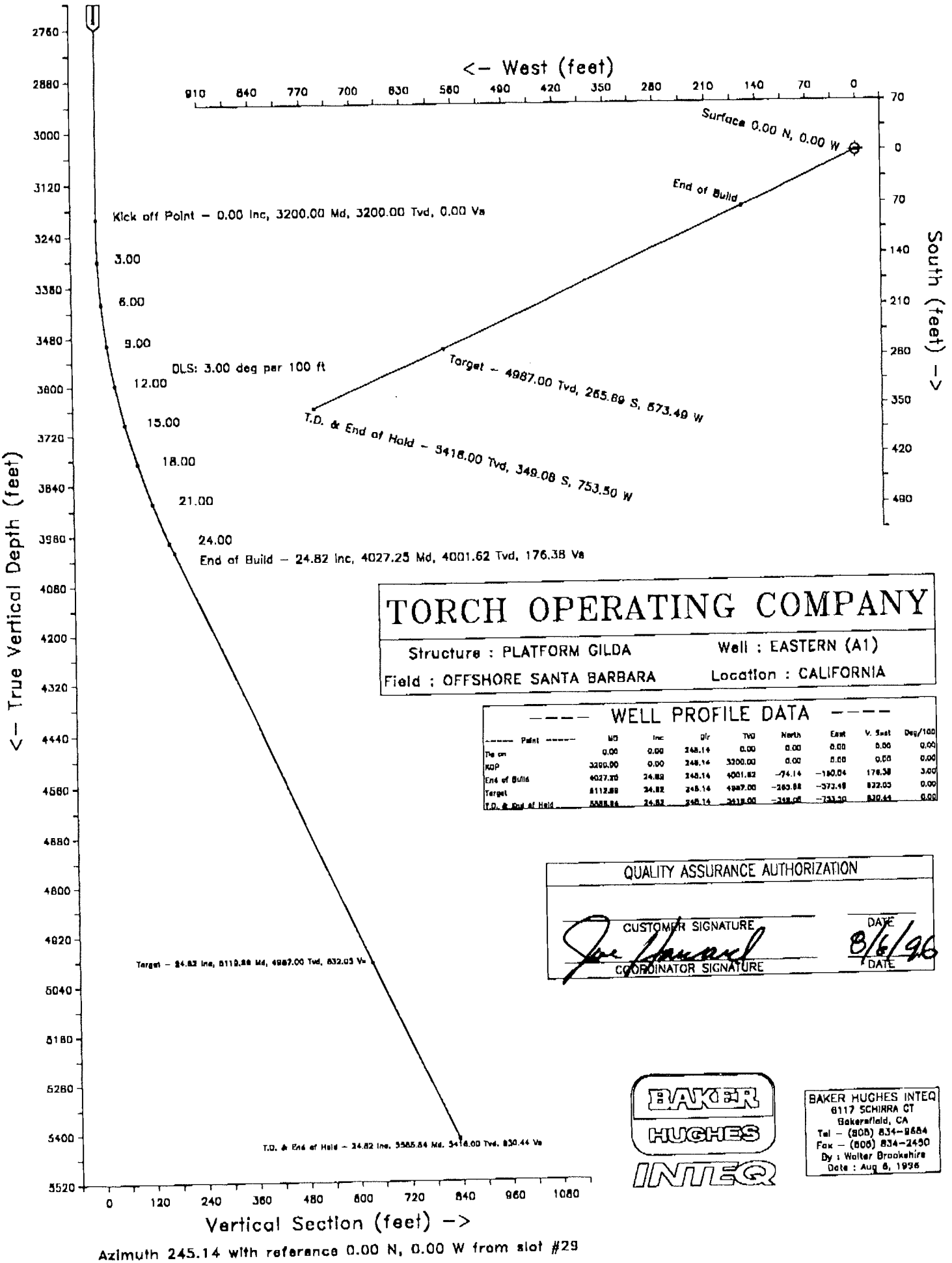
SANTA CLARA UNIT
Well #S-87

Slot #29



TORCH OPERATING COMPANY

CALIFORNIA OPERATIONS
VENTURA COUNTY
9/96 RJDIII



TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : EASTERN (A1)

Field : OFFSHORE SANTA BARBARA Location : CALIFORNIA

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	0.00	0.00	248.14	0.00	0.00	0.00	0.00	0.00
KOP	3200.00	0.00	248.14	3200.00	0.00	0.00	0.00	0.00
End of Build	4027.25	24.82	248.14	4001.62	-74.14	-160.04	176.38	3.00
Target	5112.88	24.82	248.14	4987.00	-265.88	-573.49	832.03	0.00
T.D. & End of Hold	5585.84	24.82	248.14	5418.00	-349.08	-753.50	830.44	0.00

QUALITY ASSURANCE AUTHORIZATION

CUSTOMER SIGNATURE DATE

COORDINATOR SIGNATURE DATE 8/6/96

BAKER HUGHES INTEQ

BAKER HUGHES INTEQ
6117 SCHIRRA CT
Bakersfield, CA
Tel - (805) 834-9884
Fax - (805) 834-2450
By : Walter Brookshire
Date : Aug 6, 1996

TORCH OPERATING COMPANY
PLATFORM GILDA

Well : EASTERN WELL
slot #29
OFFSHORE SANTA BARBARA
CALIFORNIA

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : EASTERN
Our ref : prop2680
License :

Date printed : 6-Aug-96
Date created : 6-Aug-96
Last revised : 6-Aug-96

Field is centred on n34 10 56.434,w119 25 6.83
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.213,w119 25 7.437
Slot Grid coordinates are N 747968.159, E 1041681.340
Slot local coordinates are 22.40 S 51.00 W

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

TORCH OPERATING COMPANY
PLATFORM GILDA,EASTERN WELL
OFFSHORE SANTA BARBARA,CALIFORNIA

Your ref : EASTERN
Last revised : 6-Aug-96

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
3200.00	0.00	245.14	3200.00	0.00 N	0.00 W	0.00	0.00
3300.00	3.00	245.14	3299.95	1.10 S	2.37 W	3.00	-2.55
3400.00	6.00	245.14	3399.63	4.40 S	9.49 W	3.00	-10.21
3500.00	9.00	245.14	3498.77	9.88 S	21.34 W	3.00	-22.95
3600.00	12.00	245.14	3597.08	17.54 S	37.87 W	3.00	-40.73
3700.00	15.00	245.14	3694.31	27.36 S	59.05 W	3.00	-63.52
3800.00	18.00	245.14	3790.18	39.29 S	84.82 W	3.00	-91.23
3900.00	21.00	245.14	3884.43	53.32 S	115.10 W	3.00	-123.81
4000.00	24.00	245.14	3976.81	69.41 S	149.82 W	3.00	-161.16
4027.25	24.82	245.14	4001.62	74.14 S	160.04 W	3.00	-172.15
4200.00	24.82	245.14	4158.42	104.62 S	225.83 W	0.00	-242.92
4300.00	24.82	245.14	4249.19	122.27 S	263.91 W	0.00	-283.89
4400.00	24.82	245.14	4339.95	139.91 S	302.00 W	0.00	-324.85
4500.00	24.82	245.14	4430.72	157.55 S	340.08 W	0.00	-365.82
4600.00	24.82	245.14	4521.48	175.20 S	378.17 W	0.00	-406.79
4700.00	24.82	245.14	4612.24	192.84 S	416.25 W	0.00	-447.76
4800.00	24.82	245.14	4703.01	210.49 S	454.33 W	0.00	-488.72
4900.00	24.82	245.14	4793.77	228.13 S	492.42 W	0.00	-529.69
5000.00	24.82	245.14	4884.54	245.77 S	530.50 W	0.00	-570.66
5100.00	24.82	245.14	4975.30	263.42 S	568.59 W	0.00	-611.62
5112.89	24.82	245.14	4987.00	265.69 S	573.49 W	0.00	-616.90
5200.00	24.82	245.14	5066.07	281.06 S	606.67 W	0.00	-652.59
5300.00	24.82	245.14	5156.83	298.71 S	644.76 W	0.00	-693.56
5400.00	24.82	245.14	5247.60	316.35 S	682.84 W	0.00	-734.53
5500.00	24.82	245.14	5338.36	333.99 S	720.92 W	0.00	-775.49
5585.54	24.82	245.14	5416.00	349.08 S	753.50 W	0.00	-810.53

All data is in feet unless otherwise stated.
Coordinates from slot #29 and TVD from wellhead (214.00 Ft above mean sea level).
Bottom hole distance is 830.44 on azimuth 245.14 degrees from wellhead.
Vertical section is from wellhead on azimuth 32.57 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDA,EASTERN WELL
OFFSHORE SANTA BARBARA,CALIFORNIA

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
LP-B	1041100.000,747720.000,0.0000	4987.00	778981.04N	1017886.28E	6-Aug-96

OCS-P0216
PLATFORM GILDA
WELL S-87
CASING DESIGN

20" CASING

Effective Setting Depth = 750' MD / TVD (438' BOF)

Casing: 20", 94#, J-55, RL4S
Estimated Top of Cement: +/- 438'

Collapse

Mud weight for the 20" casing interval is 9.2 ppg.

P_c = (312') (8.3 ppg) (.052) + (438') (9.2 ppg) (.052) = 344 psi

S_F = 520 psi / 344 psi = 1.50

Burst

Burst with gas to surface for BHP of 1500 psi
WHP = 1425 psi

S_F = 2110 psi / 1425 psi = 1.48

Tensile

Buoy Weight = (95#) (312') (.8732) + (95#) (438') (.8594) = 61641#

20', 94#, K-55, RL4S — Joint = 1408500#
Body = 1480000#

S_{FJT} = 1408500 # / 61641 # = 22.85

S_{FB} = 1480000 # / 61641 # = 24.01

16" Casing

Effective setting depth is 1750' MD / TVD

Casing: 16", 75#, K-55, BTRC
Estimated top of cement is at surface.

Collapse

Mud weight for the 16" casing interval is 9.2 ppg.

P_C = (1750') (9.2 ppg) (.052) = 837 psi

S_F = 1020 psi / 837 psi = 1.22

Burst

Maximum anticipated WHP with gas to surface is 1750 psi assuming a 1.0 psi / ft fracture gradient at the 16" casing shoe.

S_F = 2630 psi / 1750 psi = 1.50

Tensile

Buoy Weight = (84) (1750') (.8594) = 126332#
W/ 9.2 ppg drilling mud

16", 84#, K-55, Butt. Joint = 1499000#
Body = 1326000#

S_{FJT} = 1499000# / 126332# = 11.85

S_{FB} = 1326000# / 126332# = 10.49

Maximum Overpull w/ Safety Factor

Jt. = 1499000# / 2 - 126332# = 633168#

9 5/8" Casing

Effective Setting Depth is 5585' MD / 5416' TVD

Casing: 9 5/8", 47#, N-80, Butt.

Estimated top of cement is +/- 1500'

Collapse

Mud weight for the 9 5/8" casing interval is 12.2 ppg.

Pressure Rating with a 1.25 Safety Factor
4750 psi / 1.25 = 3800 psi

P_C = (5416') (12.2 ppg) (.052) = 3436 psi

S_{FC} = 3800 psi / 3436 psi = 1.10

Burst

Anticipated BHP of 3200 psi with a maximum anticipated WHP with .1 psi / ft gas is 2722 psi.

S_{FB} = 6870 psi / 2722 psi = 2.52

Tensile

Buoy Weight = (47) (5585') (.8126) = 213303#

9 5/8", 47#, N-80, Butt. Joint = 1161000#
Body = 1086000#

S_{FJT} = 1161000# / 213303# = 5.44

S_{FB} = 1086000# / 213303# = 5.09

Maximum Overpull w/ Safety Factor

Jt.= 1161000# / 2 - 213303# = 344747#

OCS-P0216
PLATFORM GILDA
WELL S-87
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
1750'-5585'	DIL/GR/MSFL

Mud Logs

Interval (MD)	
1750'-5585'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

OCS P-0216
PLATFORM GILDA
WELL S-87
BOP Program

20"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 1000 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi
16"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 1800 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi
9 5/8"	20 3/4"	3000 psi	One blind and two pipes test to 250 psi / 3000 psi
	20 3/4"	3000 psi	Annular test to 250 psi / 1000 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which is prior to drilling out the 20" casing and at 7 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-87
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position tool joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 1750 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.

Torch Operating Company

Santa Clara Field
Platform Gilda

- S-87 Cementing Systems -

20" Casing:	Lead Slurry Density 12.5 ppg	1:0:0 Class G	+ 2.0 % A-2	Sodium Metasilicate
			+ 0.5 % FL-62	Fluid Loss Additive
			+ 0-1.0% A-7	Calcium Chloride
			+ 0.3% CD-32	Dispersent
			+ 2 ghs FP-6L	De-Foamer
	Tail Slurry Density 16.1 ppg	1:0:0 Class G	+ 0-1.0% A-7	Calcium Chloride
			+ 0.5 % FL-62	Fluid Loss Additive
			+ 0.2% CD-32	Dispersent
			+ 2 ghs FP-6L	De-Foamer
16" Casing:	Lead Slurry Density 12.5 ppg	1:0:0 Class G	+ 2.0 % A-2	Sodium Metasilicate
			+ 0.5 % FL-62	Fluid Loss Additive
			+ 0-1.0% A-7	Calcium Chloride
			+ 0.3% CD-32	Dispersent
			+ 2 ghs FP-6L	De-Foamer
	Tail Slurry Density 16.1 ppg	1:0:0 Class G	+ 0-1.0% A-7	Calcium Chloride
			+ 0.5 % FL-62	Fluid Loss Additive
			+ 0.2% CD-32	Dispersent
			+ 2 ghs FP-6L	De-Foamer
9 5/8" Casing:	Lead Slurry Density 13.5 ppg	1:0:0 Class G	+ 1.0 % A-2	Sodium Metasilicate
			+ 0.5 % FL-62	Fluid Loss Additive
			+ 0-1.0% A-7	Calcium Chloride
			+ 0.3% CD-32	Dispersent
			+ 2 ghs FP-6L	De-Foamer
	Tail Slurry Density 16.1 ppg	1:0:0 Class G	+ 3.0% KCL	Potassium Chloride
			+1.0% BA-61	Anti-Gas Migration
			+ 0.4 % FL-62	Fluid Loss Additive
			+ 0.3% CD-32	Dispersent
			+ 2 ghs FP-6L	De-Foamer

Notes:
1. Cementing system additive package to be determined through pilot blend testing at BJ Services Pacific Region Technology Center.
2. Anti-Gas migration slurry will be designed to incorporate a short transition time and right angle set.
3. Upon completion of lab analysis, final slurry performance data will be forwarded to Torch engineering for inclusion in drilling program.

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	FLUID LOSS (cc 30 min)	MUD COMPONENTS
Mudline - 750'	Minimum	100+	N/C	Seawater Durogel Soda Ash
750'-1750'	9.0-9.5	45-55	N/C	Seawater Gelite Soda Ash Dril-Kleen Durogel Polypac
1750'-5588'	10.0-12.5	40-45	6 - 8 cc	Seawater Gelite SP-101 Soda Ash Barite Soltex Dril-Kleen

DISCUSSION BY INTERVAL

INTERVAL: Mudline to 750± (17-1/2" X 26" hole for 20" casing)

FLUID TYPE: Seawater with Durogel sweeps (if necessary)

COMPONENTS WITH TYPICAL USAGE LEVELS:

Seawater	20 - 25
Durogel	ppb sweeps
Soda Ash	.25 ppb

RECOMMENDED MUD SPECIFICATIONS:

Not Applicable

DISCUSSION:

Build Durogel/seawater sweeps with PV:YP ratio of 1:4+ using high rate of dispersion. Add Soda Ash after Durogel is dispersed to extend viscosity.

Returns to ocean floor.

- Fill hole with high viscosity (100 sec/qt) fluid prior to running casing.

DISCUSSION BY INTERVAL

INTERVAL: 750' - 1750'± MD (17-1/2" X 22" hole for 16" casing)

FLUID TYPE: Seawater / Gelite/Durogel

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	20-25 ppb as needed
Polypac	If need for Fluid Loss Control
Soda Ash ($NaCO_3$)	1-1.5 ppb
Durogel	As needed
Dril-Kleen	As needed for bit balling (.2 to .5 lb/bbl)

RECOMMENDED MUD SPECIFICATIONS:

Density	9.0 - 9.5
Viscosity	45 - 55
PV	5-9
YP	10-20
Gels	14/24
Fluid Loss	15±
pH	8.0 - 8.5
Total Hardness as Calcium	200±

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate out a small intrusion
    b) Raise mud weight if necessary

2. Kick
    a) Shut-in the well and weight up the mud in the surface system high enough to kill the well in one circulation (additional volume may have to be built).

3. Bit and Stabilizer Balling
    a) Add 1-2/12 gallons of Dril-Kleen down the drill pipe during connections.
    b) Spray the BHA prior to running into the hole

    NOTE: Make sure the product is dried on the assembly before running in - this will help insure the coating of the metal surfaces with the product.

4. Hole Cleaning
    a) Run high enough LSRV to help facilitate good hole cleaning.

5. Solids Build-up
    a) Run all available solids control equipment.
    b) Dilute when necessary

Discussion:

Drill out the 20" conductor with seawater and Durogel sweeps / or Pre mixed Gelite-Durogel mud. Drill ahead adding pre-hydrated Gelite to build viscosity and a wallcake. Add supplement amounts of Durogel to help raise the rheological properties.

Add enough Polypac to keep the API Fluid Loss around 15 cc's. Control the hardness with Soda Ash.

While drilling ahead, bit balling might be a problem - treat with Dril-Kleen to eliminate balling and potential swabbing.

Closely monitor the well for shallow gas, while drilling.

Drill to 16" casing point and open up the hole.

Run and cement 16" casing.

INTERVAL: 1750' - 5588'MD (12-1/4" hole for 9-5/8" casing)

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	18-22 ppb
Soda Ash ($NaCO_3$)	2-4 ppb Loss Control
SP-101	1.5 - 2.0 ppb
Soltex	3.0 ppb if needed
Barite(Barium Sulfate)	as needed

RECOMMENDED MUD SPECIFICATIONS:

Density	10.0 - 12.5
Viscosity	40 - 45 sec/qt
PV	15 - 25
YP	8 - 14
Gels	6 - 15
Fluid Loss	6 - 8 cc
HTHP	Below 35
pH	8.5 - 9.5±
T.H. as Ca^{++}	200 ppm or less
MBT	20 +

DISCUSSION:

Changeover to a pre-mixed 10.0 ppg seawater/Gelite-SP-101.

Gradually increase the mud weight while drilling ahead. Have the entire system weighted up to 12.0 ppg by 4900'MD (top of the LPA is projected to be around 4900'MD.

Closely monitor the well for gas while drilling ahead - a higher mud weight might be required sooner (especially if shallow gas).

Differential sticking is a potential problem in this interval, especially in the Pico sands. A concentration of 3 lbs/bbl of Soltex is recommended to be maintained in the system at all times, especially before weighing up the mud to 12.0 ppg.

Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. SP-101 should be added to control the API fluid loss in the 6-8 cc range. Soltex will also assist with the HTHP.

Keep 80 to 100 barrels of a spotting fluid on the platform for differential stuck pipe. We recommend Pipelax ENV.

Soda Ash should be added to keep the Calcium level below 200 Mg/L. This will help the effectiveness of the SP-101 and other chemicals.

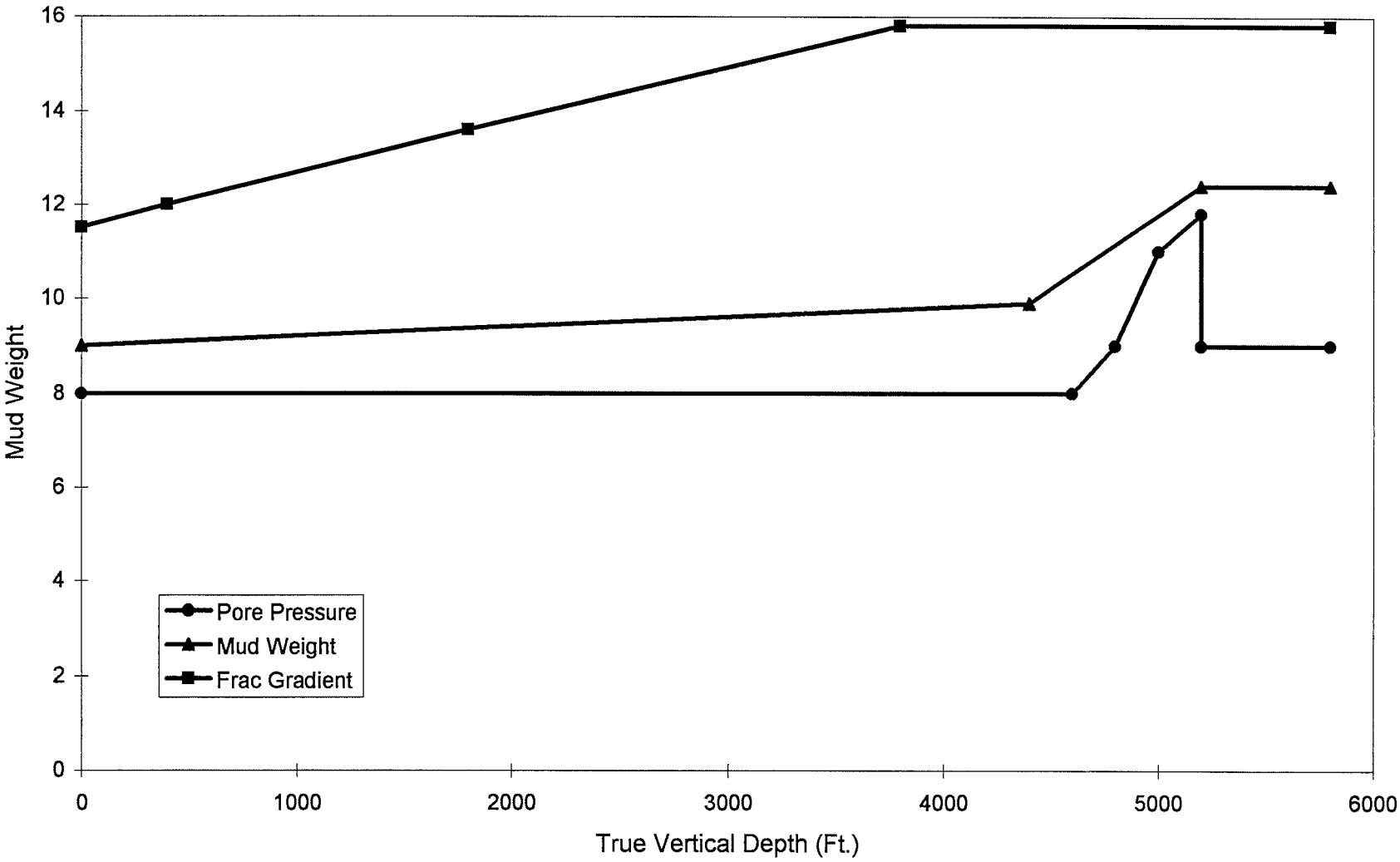
Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 200 mesh screen on the mud cleaner. Dilute to control the buildup of fine drilled solids.

Barite should be used to maintain the proper mud density.

Use Dril-Kleen to control bit balling.

Drill 12-1/2" hole to TD 5585' (TVD 5414').

SANTA CLARA UNIT
Well #S-87



APPLICATION FOR PERMIT TO DRILL

CHECK LIST

OPERATOR TORCH OPERATING Co ENGRG. REVIEW BY KELLY SIDDIQUI
LEASE NO. P-0216 DATE COMPLETED 10-25-96
WELL NO. S-87
COPIES RECEIVED 3 P.I. 1
GEOLOGIC/GEOPHYSICAL REVIEW COMPLETED BY Scott Sorenson DATE 11/6/96
COPIES ON FILE WITH APD NA + Mineral Maps
LEASE INSTRUMENT CHECKED NA
DESIGNATION OF OPERATOR APPROVED OK
SPECIAL LEASE STIPULATIONS NOTED NONE

POE/POD APPROVED DATE OK
SPECIAL CONDITIONS OF APPROVAL NONE

MOBIL DRILLING UNIT KID TYPE
ABS & COASTGUARD DOCUMENTS ON FILE NA
FRONTIER AREA YES/NO NA
SEA FLOOR CONDITIONS EXAMINED, DOCUMENTED AND APPROVED NA

RIG DESCRIPTION AND SPECIFICATIONS ON FILE? OK
PLAT PROVIDED 2000 FEET/ONE INCH OK
SURFACE LOCATION CHECKED OK
SUBSURFACE LOCATION CHECKED OK
RKB TO WATER 107 ft WD 205 ft RKB TO ML 312 ft
TVD 5416 ft MD 5585 ft

WELL DESIGN CRITERIA:

	TAKEN FROM OFFSET WELL ✓		CALCULATED		
CASING SIZE	16"	9-5/8"			
CASING DEPTH	1750 ft	5585 ft			
PORE PRESS.	8.0 ppg	8.5 ppg			
FRAC. PRESS.	12.0 ppg	15.4 ppg			
ANTICIPATED SURFACE PRESS.	837 PSI	3438 PSI			
MUD WEIGHT	9-9.5 ppg	10-12.5 ppg			

LOST CIRCULATION ZONES
SHALLOW HAZARDS FROM GEOLOGIC/GEOPHYSICAL REVIEW
See attached report

BOPE

	ANNULAR	PIPE RAMS	BLIND/SHEAR RAMS
NO. AND TYPE		Existing System	

BOP TEST PRESSURES REQUIRED

CASING SIZE	16"	9-5/8"		
RAM-TYPE & RELATED EQUIPMENT	250/1800psi	250/3000psi		
ANNULAR				

DIAGRAMS NA - EXISTING

BOP SCHEMATIC _____ DIVERTER SYSTEM _____ CHOKE MANIFOLD _____

CASING PROGRAM

CASING SIZE	16"	9-5/8"		
TEST PRESSURE	800psi	1500 psi		

SAFETY FACTORS (EACH STRING):

TENSION	11.85	5.44		
COLLAPSE	1.22	1.1		
BURST	1.5	2.52		

GEOLOGIC FORMATIONS TP B SAND CORING N/A LOGGING PROGRAM YES

CEMENTING PROGRAM

CASING SIZE:	16"	9-5/8"		
AMOUNT	3200 cu ft	3200 cu ft		
(% EXCESS)	20%	20%		

MUD REQUIREMENTS EXISTING SYSTEM

ACTIVE VOLUME _____ RESERVE VOLUME _____

CASING SIZE/HOLE SIZE	VOLUME CHECKED:
16"/17½"	Complete Program attached
9-5/8"/12-¼"	

MINIMUM QUANTITIES OF MUD MATERIALS AT SITE

BARITE OK
GEL
ADDITIVES (MAJOR)
MUD TRANSPORT. FROM SHORE ADDRESSED: YES ✓ NO
DIRECTIONAL PROGRAM PROVIDED: YES ✓ NO CHECKED ✓
PLOT OF PORE PRESS., FRAC. GRADS, & MUD WEIGHT: YES ✓ NO
H_2S PLAN APPROVED PREVIOUSLY YES
H_2S PLAN INCLUDED FOR APPROVAL NA
WELDING & BURNING PLAN APPROVED? YES

7200

November 6, 1996

Memorandum

To: District Supervisor, Camarillo District
Attn: Khaleeq Siddiqui

From: Geologist, Production and Development Section
Geologist, Reserves, Resource, and Economic Analysis Section

Subject: Geologic Hazard Analysis for Proposed Well #S-87, Lease P 0216
Platform Gilda, Santa Clara Field ***(PROPRIETARY)***

In the APD your provided us, Torch describes their proposal to drill a new development well, #S-87, in the Santa Clara Field. The objective of the well is a single completion in the Upper Repetto LP-B sand. The well will be drilled from Platform Gilda toward the southwest to a TD of 5585' MD/5416' TVD.

At your request, we have conducted a geological review of the subject APD. As mentioned to Khaleeq Siddiqui on 10/29/96, we had requested a locator map for the well from Torch since one was not included in the APD. Conversations with Jim Martin of Torch and Walter Brookshire of Baker Hughes revealed that Torch would not be drilling the well until approximately 11/08/96 due to some well clearance concerns which might require modifications to the well plan. We have attached a copy of the well clearance report which was provided to us by Torch along with a spider map showing the proposed well location. We also have an enlarged copy of the spider map if you would like to use it.

During the drilling of #S-87, several hazardous conditions may be present. Oil and gas zones may be present throughout the well. The presence of gas and gas kicks above the Repetto is also a possibility. Gas zones and overpressured zones are very likely to occur in the Pliocene sands of the Pico and Repetto. Sufficient mud weight should be used to control these hazards. We note that the maximum mud weight proposed by Torch is 12.5 ppg. There were instances in previous wells where higher mud weights were used -- see detailed discussion below.

In the proposed well, there is also a possibility of salt water flow in the Repetto. And finally, the well clearance report shows several instances where the proposed well path for #S-87 comes extremely close to existing boreholes. Extreme caution will have to be exercised when drilling this close to other wells. As you know, a well collision occurred in 1989 on Platform Gilda during Unocal's drilling of well #S-69. This well is located in the general vicinity of the proposed #S-87. We called Jim Martin of Torch to ensure that

he was aware of this situation. We recommend that appropriate precautions be taken to prevent a similar occurrence during the drilling of #S-87.

A more detailed discussion of the data supporting the existence of these hazards can be found on the following pages. This discussion is divided into five sections: General Well Data for #S-87, General Geology and Development, Potential Oil and Gas Zones, Nearby Wells, and Geological Hazards Analysis. Note that all depths cited are Measured Depth (MD) unless otherwise indicated.

General Well Data, #S-87

Operator:	Torch Operating Co.	Lease:	OCS-P 0216
Field:	Santa Clara	Unit:	Santa Clara
Platform:	Gilda	Well:	#S-87
KB Elev:	107'	Slot:	29
Water Depth:	205'		
Location: Surface	X=1,041,681'	Y=747,968' **	
Location: Top Prod. Int. (LP-B sand;U. Repetto)	X=1,041,100'	Y=747,720'	
Location: Total Depth	X=1,040,918'	Y=747,642'	
Total Depth:	MD: 5585 '	TVD: 5416 '	

** There is an error for this Y coord on the APD form and on the first page of the attachment to the APD. The coord. listed here is the correct one.

General Geology and Development

The Santa Clara Field is located on an east-west trending anticline with the Mid-Channel fault forming the southern boundary of the field. A number of small northwest-southeast trending faults and structural saddles further subdivide the field. A generalized cross section of the field is attached at the end of this memo. Production in the field is from Pliocene-age Pico and Repetto Formations and the Miocene-age Monterey Formation. Two platforms, Grace (Chevron) and Gilda (Torch), have been installed to produce the field. Both platforms produce from anticlinal highs which are separated by a structural saddle.

At Platform Gilda, production began in December 1981 and a total of 68 development wells have been drilled. Most of the wells are single completions. Some of the Repetto production

is assisted by a peripheral waterflood. Injection activity peaked in 1985 at 15,174 bpd through 21 wells. Currently, all injection wells except one are located on the northern flank of the structure (see attached map). This injection activity has helped control declining reservoir pressures. Only one injection well, #S-5, is located south of Platform Gilda in the vicinity of the proposed #S-87. Injection commenced at #S-5 in October 1989 and was discontined in June 1996 for well repairs.

Potential Oil and Gas Zones

The operator's designated target is the Repetto LP-B sand. Other zones that may be penetrated by the proposed well apparently also contain oil and gas. Gas shows have been noted in the vicinity at depths as shallow as 1610' to 1630' MD (S-39 and S-49). Numerous gas and oil shows occurred in other wells in the area, throughout the interval above the proposed target. Porosity and resistivity log data also indicate the potential presence of hydrocarbons in the same zones, beginning at relatively shallow depths, from 1670' to 2140' MD (S-1 and S-39). Well S-87 will apparently not penetrate reservoir rocks below the LP-B sand.

The table below shows the main geological markers/horizons expected in the well and the estimated depths at which they will be encountered.

MARKER	AGE/FM	MD	TVD	VSS
UP-4B	Pliocene/Pico	2405'	2405'	2298'
MP-1B1	" / "	3035'	3035'	2928'
MP-2	" / "	3600'	3592'	3485'
MP-3	" / "	4062'	4036'	3929'
LP-1	Pliocene/U. Repetto	4390'	4329'	4222'
LP-4	" / "	4900'	4789'	4682'
LP-B	" / "	5112'	4987'	4880'
LP-D	" / "	5585'	5314'	5207'

Nearby Wells

There are several development wells and one exploratory well located in the vicinity of the proposed #S-87. In conducting this geologic hazards analysis, the following information from these wells was reviewed:

* Drilling reports for wells S-1, S-5, S-35, S-39, S-41, S-49, S-55, S-59, S-85, including ST#1 and #2 (drilled from abandoned S-49)
* MMS Geologic Reports by District Geologist for wells S-5, S-35, S-41, S-49, S-55, S-59
* Well logs for wells S-1, S-39, S-55, S-59, S-85, S-85ST#1, S-85ST#2

Geologic Hazards/Considerations

[Note: All mud weight conversions from pcf to ppg were approximated from the attached Hydrostatic Pressure and Fluid Weight Conversion Table]

Faults: It is not expected that any significant faults will be encountered by this well.

Shallow Gas Hazards: As noted above, gas shows are apparent on the mudlogs from nearby wells, beginning at approximately 1610' MD. To date, however, these shallow gas zones have apparently had little (if any) negative impact on drilling operations at Platform Gilda. Specific incidents of shallow gas identified from the drilling reports and mudlogs are noted below.

WELL	DEPTH(MD)	INCIDENT
#S-1 thru #S-4	above 3100'	The APD for #S-5 reports small amounts of gas in the sands above 3100' - but no gas cut mud. The APD reports that these wells typically used 72 pcf mud (9.6 ppg) when drilling through this interval.
P 0216-#2	2222'	The MMS Geological Report for #S-49 describes a strong gas kick at this depth in the P 0216#2 exploratory well. The kick occurred after the well had been drilled to 3108' and the operator was running back in the hole at 2222'.

Gas Zones/Potential Overpressured Horizons: Gas zones and potential overpressured zones can be expected throughout the Pliocene sands in both the Pico and Repetto formations as evidenced by the past MMS Geological Reports for the field and the following summary of incidents from the drilling reports. Additionally, with the APD submittal for #S-85, Unocal included a chart of projected pore pressures, mud weights and fracture gradients for the Pico and Repetto Formations in that well. As a further point of reference, this chart is attached.

WELL	DEPTH(MD)	INCIDENT
P 0216-#2	4781'	The MMS Geological Report for #S-49 describes a known overpressured situation in the Pliocene sands and reports a pressure gradient of .809 psi/ft at this depth in the P 0216#2 exploratory well.
#S-1	5158-5153'	Had drilling break; no flow, tr. oil starting at 5211'; raised mud weight to 73 pcf (9.8 ppg); circulated gcm though choke and gas buster; increased mud weight.
	5301'	Returns too oily and gas cut to treat; pumped 80 pcf mud (10.7 ppg) and shut in well 3 times; had indications of lost circulation; severely oil and gas cut returns; circulated gas through choke and gas buster; commenced kill operations with 88 pcf mud (11.8); killed well; circulated 89 pcf mud (11.9) before pulling out of hole; changed to lignosulfonate mud system; received full returns when cementing 9 5/8" casing.
#S-85	4842'	The mudlog for well S-85 noted a "10 bbl gain at 4842' " (~4514' TVD), with the mud weight at approximately 12 ppg. [Note: #S-85 was drilled from the abandoned borehole of #S-49]
	----	After cementing the 9 5/8" casing and while attempting to seat the packoff, well started to flow on annulus; shut-in and monitored well while waiting on cement.
	6323'	Drilled to 6323'; performing LOT; changed well over to seawater through choke shut-in well and monitored pressure build-up; circulated out kick; raised salt mud weight to 12 ppg; killed well; opened well; slight flow; raised mud weight to 12.2 ppg; pulled out of hole for new motor assembly; safety reamed to 6323; drilled ahead.
#S-59	5032'	The mudlog for well S-59 notes a "gas kick" at 5032' MD (~4417' TVD). Mud weight at the time of the kick was approximately 10 ppg.
	5055'	Circulated bottoms up and began weighting up mud to 74-76 pcf (9.9-10.2 ppg) due to background gas - flow increased from 45 to 50%; circulated 76 pcf (10.2 ppg) and shut-in well 2 times, checked for flow; vented gas every 5 minutes; started kill operations with 82 pcf mud (11.0 ppg); after kill operations, pipe stuck - increased mud weight to 81-83 pcf (10.9-11.1 ppg); background gas 10-125 units continued while circulating and working stuck pipe; changed to 83 pcf (11.1 ppg) mineral oil mud; background gas down to 10-20 units.

5205'	Reamed 5005-5167'; increased mud from 90-92 pcf (12-12.3 ppg) - hole not staying open.
5210-5658'	After 13 3/8" casing had been set changed mud from 93 pcf (12.5 ppg) mineral oil mud to 85 pcf (11.4) clay-based mud. During drilling from 5210-5658, increased mud weight while drilling to 93 pcf (12.5 ppg) due to background gas of 450-650 units.

Drilling records for the nearby wells do not include a lot of information about the mud weights used while drilling. In these reports, mud weight information is given primarily within the discussion of the well control incidents notes above. A few mud weights are also given within the report that are not specifically related to an incident. These mud weights are provided below.

WELL	DEPTH (MD)	ACTIVITY
#S-35	3270-7850'	After drilling this interval, the hole was conditioned with 86-88+pcf (11.5-11.8) weight fluid in preparation for logging.
#S-39	5601'	Changed to 85 pcf (11.4) sodium bromide fluid before reaming and conditioning in preparation for running 2 7/8" tubing.
#S-41	8014'	Drilled to 8014'; circulated bottoms up; raised mud weight to 84 pcf (11.3); drilled ahead.
	8400'	Drilled to 8400'; had tight hole; circulated bottoms up and raised mud weight to 86 pcf (11.5).
#S-49	4980'	Increased mud weight to 78 pcf (10.5 ppg); circulated and conditioned mud in preparation for running 13 3/8" casing. After installing 13 3/8" casing, raised mud weight to 85 pcf (11.4) to clean out hole before drilling ahead to 5236'.
	5575'	After running logs and cleaning out hole; raised mud weight to 101 pcf (13.5) before drilling ahead.
#S-85	7660'	Conditioned hole and mud for 6 5/8" liner; filled open hole from 6298-7660 with 12 ppg THIX Sal fluid.
#S-55	4729'	Cleaned out hole from 4723-4729; unable to keep hole open; raised mud weight to 80 pcf (10.7).

	5714'	While fishing, increased mud weight to 105 pcf (14.1 ppg) +5 ppb Soltex.
#59	6060-6206	Increased mud weight from 93 to 100 pcf (12.5-13.4) while drilling this interval.

To provide additional mud weight information, mud weights were taken from the mud log of well #S-49 and are provided below.

MUD WEIGHTS LISTED ON THE MUD LOG FOR WELL #S-49

Approx. Depth (MD)	Mud Weight	
1690'	71 pcf (9.5 ppg)	
1910'	72 pcf (9.7 ppg)	
2490'	73 pcf (9.8 ppg)	
2780'	74 pcf (9.9 ppg)	
3690'	76 pcf (10.2 ppg)	
4115'	75 pcf (10.1 ppg)	
4965'	76 pcf (10.2 ppg)	
5010	86 pcf (11.5 ppg)	
5205'	85 pcf (11.4 ppg)	
5505'	91 pcf (12.2 ppg)	
5600'	101 pcf (13.5 ppg)	
5865'	102 pcf (13.7 ppg)	
6155'	105 pcf (14.1 ppg)	Approximate top of Monterey @ 6095' MD
6500'	104 pcf (13.9 ppg)	
7315'	105 pcf (14.1 ppg)	
7440'	104 pcf (13.9 ppg)	
7645'	85 pcf (11.4 ppg)	
7790'	87 pcf (11.7 ppg)	
7955'	82 pcf (11.0 ppg)	
7975' to TD	80 pcf (10.7 ppg)	

Lost circulation: Lost circulation was not noted on any of the mudlogs examined. The presence of lost circulation zones in the vicinity can not, however, be ruled out and was evidenced in the following incidents described in the drilling reports.

WELL	DEPTH(MD)	INCIDENT
#S-1	5301'	Had indications of lost circulation.

#S-39	2386-3440'	The mudlog for well #S-39 notes "no returns" and "excess mud dumped" for a number of intervals between 2386' and 3440'.
	----	Lost circulation (250 bbls) during the cementing of the 13 3/8" casing.
#S-41	----	When cementing the 9 5/8" casing, only had 60-70% returns to surface at the end of cement displacement.
#S-59	----	While setting 13 3/8" casing, lost partial returns during circulation; lost +/- 700 bbls mineral oil mud when cementing casing.
	----	Well was plugged back to 5198' to produce Pico gas in 1986; after testing BOP during a well repair in 1988, the well began taking fluid at 50-60 bph after the packer was released and gas circulated out below the packer.

Fresh water/Salt water flows: An examination of resistivity logs from nearby wells showed no evidence of fresh water aquifers in the area. The MMS Geological Report for #S-49 describes a salt water flow in the Repetto in exploratory well P 0216-#1. This well is some distance from the proposed #S-87.

Additional considerations: As noted earlier, Torch provided this office with a copy of the Clearance Report for the proposed #S-87. The report was prepared by Baker Hughes. This report shows 17 instances of other well bores coming within 20' of the proposed #S-87 well path. Of these 20 instances, 8 come within 10.' The closest instance is from well #S-77 which comes within 3.9 feet of the proposed #S-87 well path. Extreme caution will have to be exercised when drilling this close to other wells. As you know, a well collision occurred in 1989 on Platform Gilda during Unocal's drilling of well #S-69. This well is located in the general vicinity of the proposed #S-87. We called Jim Martin of Torch to ensure that he was aware of this situation. We recommend that appropriate precautions be taken to prevent a similar occurrence.

cc: File: 1101-02(b)(1) Santa Clara Field, Platform Gilda
RD
Chron
DS/CD
C/PDS
C/RREAS
ORE
Sorensen
Mayes

OFO/ORE:MMayes/SSorensen:bh:memo\stclrs87.apd:11/04/96

WEEKLY ACTIVITY REPORT
Period: 03/29/97 to 03/30/97

Week No. 1

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: N/A
14. Mud Weight: 10.6
15. Last BOP Test Date: N/A Test Pressure (psi):
16. Well Status (Dlg, Com, WO, TA, PA): Redrl

17 Summary of Operations:

RU. Pump mud down 9 5/8" csg. Attempt to pump down tbg. Pressure up and build mud weight. Taking returns.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 03/31/97 to 04/06/97

Week No. 2

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: N/A
14. Mud Weight: 10.8
15. Last BOP Test Date: 04/2/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Redrl

17 Summary of Operations:

Killed well. Circ. down tbg. Remove prod. tree. NU BOPE - test o.k. Work tbg hanger free. Pull pkr free. Pkr stuck @ 510'. Work free. Circ. and condition mud. Clean returns. POOH w/prod. string & pkr. RIH w/csg. scraper. Stop @ 9135'. Work through. Tag 7" liner top @ 10263'. Circ. and POOH w/scraper. RIH w/9 5/8" cmt. retainer to 10240' and set. Test to 500 psi - o.k. Pump 43 sxs (50 ft^3) of Class G cmt plug. TOC @ 10115'. Test plug and csg to 2000 psi. RIH w/csg cutter. POOH. Jets plugged. Clear. RIH and cut 9 5/8" csg @ 6550'. Unable to circ. behind csg. Attempt to POOH w/cut csg. Ran freepoint 100% stuck @ 5000'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 04/07/97 to 04/13/97

Week No. 3

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: N/A
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: N/A
14. Mud Weight: 10.2
15. Last BOP Test Date: 04/2/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Redrl

17 Summary of Operations:

POOH w/FP. RIH w/csg cutter. Cut csg at 3000'. POOH w/cut csg. Circ. RIH and cut csg at 4000'. POOH w/cut csg. Attempt to pull remainder of csg. Cut csg at 5300' and retrieve. Cut csg at 6450'. Retrieve 9 5/8" csg to 5452'. PT VBR w/4 1/2" DP - 250/4700 psi. RIh w/section mill and milled 13 3/8" csg f/5351' to 5368'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 04/14/97 to 04/20/97

Week No. 4

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 5956'
14. Mud Weight: 10.2
15. Last BOP Test Date: 04/15/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Redrl

17 Summary of Operations:

Power failure at beach. DC motor on rotary table failed. Made repairs. Milled 13 5/8" csg f/5368' to 5401'. Circ. and pump sawdust sweep. LD section mill. RIH w/2 7/8" tbg to 5550'. PT lines to 3000 psi. Pump 250 sxs Class G cmt plug w/30 ghs CD-31L + 6 ghs R-21L + 1 ghs FP-GL. CIP. TOC 5289'. Clean out cmt to 5351'. RIH w/MWD. Kick off @ 5351' and drill 12 1/2" hole sidetrack to 5418'. Perform PIT (10.2 mud wt. - 860 psi=13.95 EMW) RIH and set RTTS pkr @ 5235'. PT 9 5/8" csg to 2000 psi. POOH w/pkr. RIH w/MWD to 5418'. Fill pipe tools - plugged. POOH. MWD packed off w/scale. Ran new MWD - test - no good. POOH. Ran new MWD - test. Directional drill f/5418' to 5956'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 04/21/97 to 04/27/97

Week No. 5

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 9123'
14. Mud Weight: 11.3
15. Last BOP Test Date: 04/15/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Redrl

17 Summary of Operations:

Cont. drilling f/5956' to 6198'. POOH. RIH w/new motor and MWD. Cont. drilling to 7317'. Change out blower motor on DWKS. RIH and drill to 7617'. POOH for bit and motor change. RIH and drill to 7640'. Bit plugged with clay. Clean out. RIH and drill f/7640' to 8252'. POOH to shoe and repair mud pump. Increase mud wt. f/10.1 to 11.7 ppg. RIH and drill f/8252' to 8952'. POOH for new bit. RIH and drill f/8952' to 9123'. Cut mud wt.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 04/28/97 to 05/04/97

Week No. 6

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: N/A
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 9765'
14. Mud Weight: 14.1
15. Last BOP Test Date: 04/29/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Redrl

17 Summary of Operations:

Cont. directional drill f/9123' to 9398'. Drill bit slow - POOH. 3 grease compact snap rings missing (2 1/2" OD ea.) RIH w/junk basket - no recovery. RIH w/new bit and motor. Drill f/9398' to 9619'. Not getting sufficient dogleg for build and turn. POOH and adjust motor. RIH and drill f/9619' to 9760'. POOH. RIH w/H.O. and 3 pt reamer. Ream f/9159' to TD 9760'. POOH. RIH w/9 5/8", 47# N-80 buttress csg. Cmt csg w/190 sxs Class G, 95 ghs FL-33L + 70 ghs A-3L + 1 ghs R-21L + 2 ghs FP-6L lead, followed by 427 sxs Class G, 50 ghs FL-33L + 20 ghs CD-31L + 2 ghs R-21L + 2 ghs FP-6L. CIP. Calc. TOC @ 7600'. RIH w/9 5/8" packoff assembly and test to 1000 psi. RIH and drill out cmt FC and 1/2 of btm shoe jt. Test csg and VBR's to 4700 psi. D/O remaining cmt and shoe and 5' formation f/9760' to 9765'. Perform formation leak-off test. POOH.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
23. Paleo Samples:
24. Litho samples:

WEEKLY ACTIVITY REPORT
Period: 05/05/97 to 05/11/97

Week No. 7

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 14
15. Last BOP Test Date: 04/29/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Redrl

17 Summary of Operations:

Cont. directional drill 8 1/2" hole f/9765' to 10500'. POOH. Change out bit. RIH and cont. drill f/10500' to 11090'. POOH. RIH w/new bit & motor. Drill f/11090' to 11185'. POOH. Run log (see below). Start running CMR-GR. Logging tools stuck @ 10017'. Strip off lubricator. Run overshot and work over fish. POOH and LD overshot and logging tools. Release rig to production on 5/10/97. RIH w/7" 29# N-80 Hyd. csg w/shoe @ 11145'. Csg stuck. Drop ball. Cmt csg w/274 sxs (320 ft^3) Class G, 30 ghs BA-10L + 25 ghs CD-31L + 6 ghs R-21L + 2 ghs FP-6L. CIP. TOL @ 9390'. POOH w/liner setting tools.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
23. Paleo Samples:
24. Litho samples:

WEEKLY ACTIVITY REPORT
Period: 05/12/97 to 05/18/97

Week No. 8

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 12.5
15. Last BOP Test Date: 05/13/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Redrl

17 Summary of Operations:

RIH and clean out cmt f/9240' to 9387'. Pressure test csg on 5/12/97. POOH. Set pkr @ 9230' and do WSO test. Release pkr and POOH. Test BOPE. Annular test @ 250/3500. RIH w/3 1/2" tbg and wash to 11061'. POOH. Run logs. RIH w/csg scraper to 9319'. Change over to FSW. Pressure test upper Kelly valve @ 250/4700. RIH to 11013' and CO to 11061'. Reverse circ. POOH w/scraper. RIH w/scraper bottle brush assembly, reverse circ.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
23. Paleo Samples:
24. Litho samples:

WEEKLY ACTIVITY REPORT
Period: 05/19/97 to 05/25/97

Week No. 9

GENERAL INFORMATION

1. Lease (BHL): OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 12.5
15. Last BOP Test Date: 05/13/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

Cont. reverse circ. POOH w/bottle brush assembly. RIH w/TCP guns. Run correlation logs and space out guns. Set pkr @ 10668'. PT FL to 3000 psi, manifold to 4700 psi, and tbg to 250 psi. Fire guns - btm shot @ 11046' and top shot @ 10818'. Well flowing. POOH w/pkr. POOH w/guns. RIH and set pkr @ 10674'. RU dowell. Test lines and surf. equip. to 7000 psi. Perform Data Frac. and Stim. Frac. per plan. RIH and tag sand top @ 10755'. POOH w/pkr. RIH w/TCP guns (4 5/8") 12 spf. Run correlation log. Space out btm shot @ 10352'. Set pkr, pressure test, and fire guns. Flowing. POOH w/pkr and guns. RIH w/7" pkr and set @ 10277'. Move pkr up to 10248'. Perform Data & Stim. Frac. POOH w/pkr. RIH w/6" bit to 10290'. Hit sand bridge. Move sand down to 10301'. No more progress.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 05/26/97 to 06/01/97

Week No. 10

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 12.5
15. Last BOP Test Date: 05/27/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com

17 Summary of Operations:

Wait on CaBR2 fluid. Test BOPE & annular. RIH to sand plug @ 10301'. Circ. out to 10327'. Spot salt pill. Tbg stuck. Free up and circ. sand out to 10362'. Spot salt pill. POOH w/bit. RIH w/tapered mill. Made no hole. Confirm depth of running sand @ 8' below top shot @ 10333'. POOH w/mill. RIh w/MS & tag @ 10318'. Rev. circ. Sand cleaned up completely. Spot salt pill @ 10755'. Squeeze into formation w/1000 psi. Held pressure for 10 min. and bled off to -0-. No leak during test. Rev. out pill. WT UP CaBR2 f/13.0 to 13.7 in 4 stages. Circ. @ 10171'. Squeeze calcium carbonate pill to form @ 10462'. Spot salt pill. CO sand to 10444' - losing fluid. Spot salt pill - 75% returns.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 06/02/97 to 06/08/97

Week No. 11

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 12.5
15. Last BOP Test Date: 05/27/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com

17 Summary of Operations:

POOH w/MS. RIH w/"Fast Drill" retainer. Tag fill @ 10332'. POOH w/retainer and LD. RIH w/pkr and 2 jts of 2 7/8" tbg stinger w/mule shoe. Tag @ 10329'. Rev circ. POOH and set pkr. @ 9899', stinger @ 9962'. Pump 50 bbls of Class G cmt +25 ghs CD-31L + 8 ghs R-21L + 2 ghs FP-6L. Cmt squeezed off w/5 bbls in perfs. POOH w/pkr. RIH w/6" mill and tag cmt @ 9994'. CO cmt to 10385'. Attempt to PT perfs - no good. POOH w/mill. RIH w/MS and tag sand @ 10385'. CO sand to 10886'. Hole packed off. POOH to 10765'. Build volume. Pump salt pill and squeeze 2 1/2 bbls into perfs. RIH to 10824' and spot pill. Rev. out salt pills and sand to 10888'. Hole taking on fluid. Spot pill.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 06/09/97 to 06/15/97

Week No. 12

GENERAL INFORMATION

1. Lease (BHL)	OCS P-0216 Platform Gilda	7. Designated Operator:	Torch Operating Co.
2. Well No.:	S-62	8. Rig Name:	Torch 10
3. Area/Block (BHL):	6B/4861	9. Contact/Phone No.:	(805) 739-9111
4. API Number:	04-311-2063901	10. Spud Date:	04/18/97
5. Water Depth:	205'	11. TD Date:	05/08/97
6. RKB:	107'	12. SUS., COMP, ABN. Date:	N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 12.5
15. Last BOP Test Date: 06/09/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com

17 Summary of Operations:

POOH w/tbg. PT BOPE and valves. RIH w/6" bit and 3 1/2" tbg. Rev. circ. w/CaCo3. Tag sand @ 10816'. CO to 11069'. Tbg plugged. Attempt to clear tbg. POOH - wet. RIH w/mule shoe and tag @ 10919'. Rev. circ. to 10911'. Pipe stuck. Work pipe. Tbg parted. POOH TOF @ 1020'. RIH w/overshot to TOF. Ran free point. POOH. RIH w/string shot and back off pipe @ 5123'. POOH w/string shot. RIH w/screw in sub. w/8' skirt and work over TOF. Screw into fish @ 5154'. RIH w/free point. POOH w/FP. RIH w/string shot. Attempt to back off @ 10695' - no good. POOH w/S.S. Ran new string shot and back off tbg @ 10579'.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 06/16/97 to 06/22/97

Week No. 13

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 12.5
15. Last BOP Test Date: 06/09/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com

17 Summary of Operations:

POOH w/S.S. POOH w/3 1/2" DP. RIH and attempt to screw in to TOF. POOH. Tight @ 10504'. RIH w/overshot to 10572'. Wash and get over TOF @ 10718'. Jar - no recovery. POOH. Wash over TOF. RIH w/overshot. Latch on to fish @ 10718'. Jar - no good. Wash over fish. RIH w/overshot. Jar fish loose and POOH. C.O. 7" liner.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 06/23/97 to 06/29/97

Week No. 14

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: N/A

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: 12.5
15. Last BOP Test Date: 06/09/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com

17 Summary of Operations:

Ream and CO liner. Check for fill - no fill. RIH w/3 1/2" x .012 ga, 9.3# J-55 SSWWS and land @ 11046'. Drop ball and set SC-1 pkr @ 10649'. CO to CaBR2 brine. Spot acid and gravel. Packed. RIH w/isolation string and pkr - set @ 10261'. ND riser and BOP's. Install prod. tree and turn well over to production @ 1200 hrs. on 06/27/97. Flow well. RU CT PT lubricator and BOP's 2000 psi. RIH w/CT displacing tbg w/N2 @ 150 scfpm to 3000'. POOH w/CT to lubricator. Monitor well. RIH w/CT to 4000' and pump 200 scfpm.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320
3 1/2"	11046	N/A		N/A

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 06/30/97 to 07/06/97

Week No. 15

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: 07/03/97

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: N/A
15. Last BOP Test Date: 06/09/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

Cont. pumping N_2 to 9400'. POOH w/CT and CO pack-off on Inj. head. RIH w/CT. Pump N_2. POOH w/CT. Clear w/FSW. Well flowing. Released well to production 7/3/97. RD BJ. Rig repairs and maintenance.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320
3 1/2"	11046	N/A		N/A

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

WEEKLY ACTIVITY REPORT
Period: 07/07/97 to 07/13/97

Week No. 16

GENERAL INFORMATION

1. Lease (BHL) OCS P-0216 Platform Gilda
2. Well No.: S-62
3. Area/Block (BHL): 6B/4861
4. API Number: 04-311-2063901
5. Water Depth: 205'
6. RKB: 107'
7. Designated Operator: Torch Operating Co.
8. Rig Name: Torch 10
9. Contact/Phone No.: (805) 739-9111
10. Spud Date: 04/18/97
11. TD Date: 05/08/97
12. SUS., COMP, ABN. Date: 07/03/97

GENERAL INFORMATION

13. MD/TVD: 11185'
14. Mud Weight: N/A
15. Last BOP Test Date: 06/09/97 Test Pressure (psi): 250/4700
16. Well Status (Dlg, Com, WO, TA, PA): Com.

17 Summary of Operations:

Crane repairs and general maintenance. Rig released 1300 hrs. 07/08/97.

18. Casing/Liner Summary:

Casing Details	Depth (MD/TVD)	Test Pressures (psi)	Shoe Test (EMW)	Cement Vol. (cu.ft.)
9 5/8"	9732'	1000		907
7"	11145	2500		320
3 1/2"	11046	N/A		N/A

19. List all open hole logs and surveys run (including MWD, velocity surveys and directional surveys):

Date	Log/Survey	Interval	Run Number
5/8/97	Density, CNL, HALS, CNL & CP/T logs	11183' to ?	
5/9/97	FMI/GPIT/DSI/GR/DTA & DTC		
5/15/97	UST/CBL/GR	10846' to 9425'	
5/15/97	GR Correlation	10846' to 9425'	
5/15/97	CBL	10943 to 10846'	
5/19/97	PDC/GR/CCL		

Indicate below if any of the following samples/surveys were taken.

20. Velocity Surveys:
21. Conventional Cores:
22. Sidewall Sample:
23. Paleo Samples:
24. Litho samples:
25: Geochem Sample:

Report Center : 66819 **Name :** OCS-P-0216 # S-62

Api : 043112063901

Field : Santa Clara

County : OFFSHORE **State :** CA

Operator : Nuevo Energy Company

Date: 01/05/98
Time: 10:31:46

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
04/97	0	0	0	0	0	0	0	0	0
05/97	0	0	0	0	0	0	0	0	0
'97	121	277	210	119	242	2294	63	121	277
07/97	11311	5911	1147	11128	5354	523	9	11432	6188
08/97	11406	10811	403	11405	10108	948	3	22838	16999
09/97	10258	10025	150	10287	9448	977	1	33096	27024
10/97	10576	9762	93	10722	9156	923	1	43671	36786
11/97	9847	11034	240	9856	10376	1121	2	53518	47820
12/97	10621	13317	279	10592	12457	1254	3	64139	61137
Tot/97	64139	61137	2522	64108	57141				
01/98	9985	11490	217	10010	10739	1151	2	74124	72627
02/98	8483	10712	364	8456	10008	1263	4	82607	83339
03/98	10646	11475	248	10587	10760	1078	2	93253	94814
Tot/98	29115	33677	829	29053	31507				

Report Center : 66819 **Name :** OCS-P-0216 # S-62

Api : 043112063901

Field : Santa Clara

County : OFFSHORE **State :** CA

Operator : Nuevo Energy Company

Date: 26/02/98
Time: 08:57:57
Page: 290

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
04/97	0	0	0	0	0	0	0	0	0
05/97	0	0	0	0	0	0	0	0	0
06/97	121	277	210	119	242	2294	63	121	277
07/97	11311	5911	1147	11128	5354	523	9	11432	6188
08/97	11406	10811	403	11405	10108	948	3	22838	16999
09/97	10258	10025	150	10287	9448	977	1	33096	27024
10/97	11232	9762	93	10723	9156	869	1	44328	36786
11/97	10063	11034	240	9878	10376	1096	2	54391	47820
12/97	10095	13317	279	10566	12457	1319	3	64487	61137
Tot/97	64487	61137	2522	64105	57141				
01/98	10053	11490	217	10026	10739	1143	2	74540	72627
Tot/98	10053	11490	217	10026	10739				

TORCH OPERATING COMPANY

Santa Maria District
201 South Broadway
Santa Maria, California 93455
805-739-9111 (Fax: 805-937-8709)

April 25, 1997

Rishi Tyagi
District Supervisor, Camarillo District
MMS, Pacific OCS Region
770 Paseo Camarillo
Camarillo, CA 93010

SUBJECT: **S-62 Completion Procedure and Temporary Well Frac Equipment on Platform Gilda**

Mr. Tyagi:

Attached is a more complete version of a completion procedure previously apporved for the subject well. Also attached are equipment loading diagrams for fracture stimulation equipment we would like to temporarily install on our drill deck. The proposed installation is similar to the equipment used for the fracture stimulation of S-87, with two notable exceptions. First, the pumping and blending equipment is lighter - both absolutely and in terms of deck loading. Second, we would like to have the capability of completely filling our sand hopper to give us the capability of properly stimulating our Lower Repetto intervals. The attached detailed engineering calculations make us confident that this is quite safe. In general, we are confident that the proposed equipment and operations are properly engineered, safe, and in full conformance with 30 CFR Part 250. Timing is important on this project. Your timely approval will be appreciated.

As early as May 12, 1997, Torch proposes to mobilize on Platform Gilda to do the first of three frac jobs on well S-62. These jobs should be completed within 3 weeks of first equipment mobilization. Well S-62 is in wellroom #3 on the northeast corner of the drill deck. The drill rig will, of course, be positioned over this wellroom. The frac equipment consists of six major skids as detailed in the attached "Gilda Frac Equipment" list. This equipment will be arranged approximately as shown on the attached "Hill-Peck" deck layout drawing. The stimulation contractor will be Schlumberger/Dowell. All equipment and interconnecting piping will be properly rated for the application.

The electrical area classification where the frac equipment will be located is Unclassified. The nearest Classified area, per API RP 500B, is a Class I, Division 2 area extending for a radius of 10-feet from the non-vapor tight well slot hatches on the drill deck over wellroom #3. I have sketched in the approximate Classified Area boundary on the attached Hill-Peck" deck layout drawing. The area where the frac equipment will be located is open and well ventilated.

Deck loading has been reviewed by Rick Beers of Thomas and Beers, Inc. in Ventura. Mr. Beers is very familiar with this platform structure. All of the proposed skid loads are well within documented platform deck capacities. The deck capacities shown on the "Hill-Peck" drawing have been confirmed by comparison with the original Santa Fe Services Company design drawings. A copy of the most relevant drawing is attached. Because each skid extends across several deck stringer beams, the higher tabulated deck loading capacities are appropriate. Several specific conservative recommendations are made by Mr. Beers in the attached write-up, including guying the sand hopper, tacking the base of one of the injection pump skids to the deck, placing timbers or steel "suitcases" under

the 500 bbl. frac tank, and field verification of stringer location for proper skid placement. All of these recommendations will be implemented.

All equipment for the frac job will be transported to Gilda by our regular chartered workboat, Tidewater Marine's *Victory Seahorse*, out of Port Hueneme. Personnel will travel by workboat out of Port Hueneme, as usual. No Barges are required. There will be no anchoring. Crane lifts will be made by the permanently installed platform cranes. All of the recommended practices of the safety team assembled for the heavier lifts needed for the S-87 fracture stimulation will be implemented here as well. As with the S-87 project, all picks will be within safe limits for the cranes.

Should you require any additional information, please contact me at the letterhead number. Thank you.

Sincerely,

Bob Davis 4/25/97

Robert A. Davis P.E.
Sr. Operations Engineer

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit original plus THREE copies,with ONE copy marked "Public Information."

OMB Control No. 1010-0141
OMB Approval Expires 11/30/2011

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT)	2. SIDETRACK NO. (CURRENT)	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS *(Submitting office)*
S-62	01	01 00	DCOR, LLC. 290 Maple Court, Ste. 290 Ventura, CA 93003
5. API WELL NO. (12 digits)	6. START DATE (Proposed)	7. ESTIMATED DURATION (DAYS)	
04-311-20639-01	4/15/2011	10 days	
8. ☐ Revision	9. If revision, please list changes:		

RECEIVED
APR - 4 2011
OFFICE OF FIELD OPERATIONS

WELL AT TOTAL DEPTH	WELL AT SURFACE
10. LEASE NO. P-0216	13. LEASE NO. P-0216
11. AREA NAME 6B	14. AREA NAME 6B
12. BLOCK NO. 4861	15. BLOCK NO. 4861

Proposed or Completed Work

16. PROPOSED OR COMPLETED WORK (Describe in Section 17)

PLEASE SELECT ONLY ONE PRIMARY TYPE IN BOLD AND AS MANY SECONDARY TYPES AS NECESSARY.

- ☐ **Enhance Production**
  - ☐ Acidize
  - ☐ Artifical Lift
  - ☐ Wash/Desand Well
  - ☐ Jet Well
- ☐ **Utility**
  - ☐ Initial Injection Well
  - ☐ Additional Fluids for Injection
- ☐ **Other Operations**
  - ☒ Describe Operation(s)
- ☒ **Workover:**
  - ☒ Change Tubing
  - ☐ Casing Pressure Repair
- ☐ **Abandonment of Well Bore:**
  - ☐ Permanent Abandonment
  - ☐ Temporary Abandonment
  - ☐ Plugback to Sidetrack/Bypass
  - ☐ Site Clearance
- ☐ **Completion:**
  - ☐ Initial Completion
  - ☐ Reperforation
  - ☐ Change Zone
  - ☐ Modify Perforations
- ☐ **Information:**
  - ☐ Surface Location Plat
  - ☐ Change Well Name

17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):
Pull Tubing, Run Pump and Return to Production

18. LIST ALL ATTACHMENTS (*Attach complete well prognosis and attachments required by 30 CFR 250.513(a) through (d); 250.613(a) through (d); 250.1712(a) through (f); 250.1721(a) through (g); 250.1722(a) through (d); or 250.1743(a).*
Program and Wellbore Diagram

19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.)
DCOR Rig #10

20. The greater of SITP or MASP (psi): 1,000	21. Type of Safety Valve (SV): x SCSSV ___SSCSV ___ N/A	22. SV Depth BML (ft): N/A

23. Rig BOP (Rams)			24. Rig BOP (Annular)	
Size: (inches)	Working Pressure (psi)	Test Pressure (psi) Low/High: 300/3,000	Working Pressure (psi)	Test Pressure (psi) Low/High: 300/2,100
2-7/8"	5,000		5,000	

25. Coiled Tubing BOP:		26. Snubbing Unit BOP:		27. Wireline Lubricator:	
Working Pressure (psi)	BOP Test Pressure (psi) Low/High:	Working Pressure (psi)	Test Pressure (psi) Low/High:	Working Pressure (psi) Low/High:	Test Pressure (psi)
N/A	N/A	N/A	N/A	N/A	N/A

28. CONTACT NAME:	29. CONTACT TELEPHONE NO.:	30. CONTACT E-MAIL ADDRESS:
Khris A Kircher	805-535-2026	kkircher@dcorllc.com

31. AUTHORIZING OFFICIAL *(Type or print name)*	32. TITLE
Robert L. Garcia	California Offshore Operations VP
33. AUTHORIZING SIGNATURE	34. DATE
Robert L. Garcia	3/30/2011

THIS SPACE FOR MMS USE ONLY

APPROVED BY:	TITLE	DATE
RIG. SGD. BY: Dan Knowlson	District Manager	3/31/11

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H_2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	[X] YES [ ] NO [ ] N/A	SCBA AND H2S SENSORS PER BOEMRE REGULATIONS.
b) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	[ ] YES [X] NO [ ] N/A	
c) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	[ ] YES [X] NO [ ] N/A	SOLID STEEL DECK BETWEEN THE DRILL DECK AND WELLBAY
d) If sands are to be commingled for this completion, has aproval been obtained?	[ ] YES [ ] NO [X] N/A	
e) Will the completed interval be within 500 feet of a block line? If yes, then comment.	[ ] YES [X] NO [ ] N/A	
f) For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	[ ] YES [ ] NO [X] N/A	

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et. seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form, MMS-124, is estimated to average between 1-3 hours per response, depending on whether it is a paper submittal or electronic submittal. This includes the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 5438, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

290 Maple Court, Suite 290
Ventura, CA 93003
805-535-2000 Main
805-535-2100 Fax

RECEIVED
APR - 4 2011
OFFICE OF FIELD OPERATIONS

March 30, 2011

Mr. Phil Schroeder
District Manager
BOEMRE
Pacific OCS Region
770 Paseo Camarillo
Camarillo, CA 93010

Re: Gilda Well S-62 Application for Permit to Modify (APM)

Dear Mr. Schroeder,

Enclosed for your files is the subject APM. If you or any of your staff have any questions or comments concerning this information please feel free to contact me.

Sincerely,

Robert B. Garcia

Bob Garcia
VP California Offshore Operations

PLATFORM GILDA WELL S-62 - RTP PROGRAM 03/30/11

- S-62 Maximum Anticipated Surface Pressure 1,000psi.
- S-62 is a Lower Reppetto completion.
- S-62 Kill Weight Fluid Should be between 10.5ppg and 11.0ppg.
- Have CaCL material on location to build weighted volume if needed.

1. Task 1 → MIRU

1.1. Rig up and test rental H_2S equipment and cascade systems on rig floor.

1.2. Lock out and tag out well S-62.

1.3. Test void between wellhead and tree bonnet to 3,000psi.
- Record in the morning report the casing and tubing pressures.

1.4. Skid rig over well S-62.

2. Task 2 → KILL WELL

2.1. Rig up and bull head kill weight fluid down the tubing.
- Keep running total of load water lost to the well.
- There is a dedicated portion of the morning report that will need to be updated on a daily basis with this information.

2.2. Shut in well, take pressure readings and weight fluid with CaCL if needed.
- Keep in mind that there is 10.5ppg CaCL in the back side.

2.3. With the well dead install BPV.

3. Task 3 → NU AND TEST BOPE

3.1. Notify BOEMRE 24hr in advance of BOPE test 805-389-7775.

3.2. Rig down production tree.
- Be sure to have correct XO for riser.

3.3. Check landing joint threads with a short pup joint (most likely EUE 8rd),
- Take visual on well head valves and change out hanger hold down studs if needed.

3.4. NU and test Class III 5M BOPE with blind shear to 300psi low / 3,000psi high for 5 min each 300 psi low and 2,100 psi high for the annular against 2-7/8" tubing.

4. Task 4 → PULL PRODUCTION EQUIPMENT

* This is a critical part of the program because the tubing and the casing will most likely contain different weighted fluids as the seal section is pulled off of the polished nipple that is part of the snap latch that is stung in the top of the liner at 10,268'.

4.1. Install landing joint with FOSV.

4.2. Close Annular and back out hanger studs.

4.3. Pull hanger and release surface packer at +/-500' through Annular.
- Packer is set to release with ~40,000# above string weight.
- The tubing and annulus could be out of balance at this point. This could cause a problem when we try to stand tubing back above the packer.

4.4. Stand back tubing up to surface packer.

4.5. LD surface packer.

4.6. Circulate well back to the pits making a CaCL and NaCL work over fluid.

4.7. With the well dead.

4.8. Single out of the hole with 2-7/8" tubing.

4.9. LD seal stack.

5. Task 5 → RUN PRODUCTION EQUIPMENT

5.1. MU new REDA ESP assembly.

5.2. RU tubing testers.

5.3. Test in the hole with ESP,

- One stand, seating nipple,
- One stand sliding sleeve,
- Cable and chemical line to surface packer.
- Pressure test all tubing to 5,000psi.
- Seating nipple and Sliding Sleeve will be supplied by Baker.
- Strap everything and have Baker packer hand prepare a detailed tubing detail.

5.4. Make up SCSSSV and surface packer, pressure test both the SCSSSV and Vent Valve.

- Run 1/4" control line to the SCSSSV and Annular Vent Valve.
- Test control lines to 5,000psi.
- SCSSSV, Vent Valve and surface packer will be supplied by Baker Oil Tools

5.5. Continue to RIH with tubing packer, cable, chemical and control lines.

- Bottom of motor ~9,300'
- Space out surface packer at +/- 600'.

5.6. RD tubing testers.

5.7. Pick up and install hanger.

- Ensure electrical feed through is protected and kept dry.

5.8. Install BPV.

5.9. Install landing joint.

5.10. Land, lock and pressure test hanger to 5,000psi.

5.11. LD landing joint.

6. Task 6 → ND BOPE

6.1. ND BOPE.

7. Task 7 → INSTALL TREE

7.1. NU and test production tree to 5,000psi.

7.2. Pull BPV and verify pump functions.

8. Task 8 → SET SURFACE PACKER

8.1. Rig up wireline.

8.2. Set plug above SCSSSV.

8.3. Set packer with 3,000psi.

8.4. Pull wireline plug.

8.5. RD wireline.

9. Task 9 → RDMO

3/30/2011

Lease #: OCS-P 0216

API # 04-311-20639-01

SLOT # 64

PLATFORM GILDA
WELL #S-62ST

RIG: DCOR LLC #10

Water Depth = 205'

KB = 52'

SL	X=	1,041,776.00	Y=	747,990.00
BL	X=	1,043,945.00	Y=	753,623.00

Well Head = 13-5/8" 5M, National BX 160

Back Pressure Valve = 3" Nom. National

Top 16", 408'

20, 94#, C. 726'

16", 84#, C. 1,750'

13-3/8", 68# & 54.5#, C. 5,351'

Milled CSG 5,351' to 5,401'

Section Mill 5,382' to 5,401'

7", 29# N-80, Hydril 9,390' to 11,145'

9-5/8", 47# N-80 C. 9,732'

10,150'

10,180'

10,270'

10,280'

PBR

Baker Snap Latch 10,268'

SS 10,278'

Shear Joint

KOIV 10,304' Knocked out with coil

LP-M 10,318' MD 8,080' TVD

Lower Repetto 9,781' to 11,985'

10,318'

Top Perf	Btm Perf	Intervial	Date	
10325	10352	27	Jun-97	Squeezed
10428	10474	46	Dec-01	
10818	10898	80	Jun-97	
10916	10990	74	Jun-97	
11000	11046	46	Jun-97	

frac

Packed Pressure tested

w/ 78K and leaked

SQZ to 1,000psi

6bbl cmt after cmt squeeze.

10,352'

3-1/2" Bakerweld Screen 140 SSWW 0.12ga

3.95" OD 2.992" ID

10,428'

frac

w/ 78K

prop

10,474'

PBR

Baker Snap Latch 10,489'

Baker SC1 Packer 10,489'

KOIV 10,499'

XO, 2-7/8" tbg

10,550'

10,595'

XO

Baker Snap Latch 10,648'

Baker SC1 Packer 10,649'

SS 10,659'

KOIV 10,682'

Estimated Top of sand 10,737'

5,300lbs 20/40 GP

Coil Tubing Clean Out 10,653' 8/2005

1-1/4" tbg Clean Out 10,678' Recovered 165CF Frac Sand 8/2005

LP-N 10,780' MD 8,602' TVD

Lower Repetto 9,781' to 11,985'

3-1/2" Bakerweld Screen 316 SSWW 0.12ga

3.95" OD 2.992" ID

Welded lugs every 15' W/ 5.50" OD

10,818'

frac

w/ 78K

prop

10,898'

10,916'

10,990'

11,000'

11,047'

Coil Tubing Clean Out 10,872' 12/2001

Landing Collar 11,053'

ETD 11,061'

Float Collar 11,098'

7", 29# N-80 C. 11,145'

TD 11,185'

S-62

Online Payment

Step 3: Confirm Payment

1 | 2 | 3

Thank you.
Your transaction has been successfully completed.

Pay.gov Tracking Information

Application Name: MMS Application for Permit to Modify - BR
Pay.gov Tracking ID: 252VP5VF
Agency Tracking ID: 74188625904
Transaction Date and Time: 03/30/2011 18:27 EDT

Payment Summary

Address Information

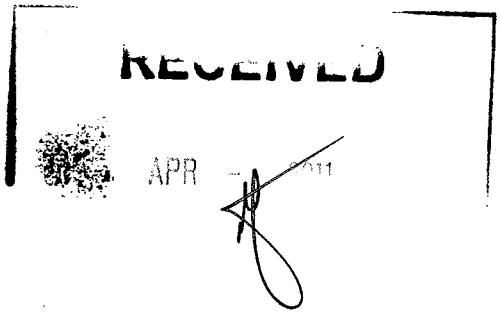
Account Holder Name: Sue Warren
Billing Address: 290 Maple Court
Billing Address 2: Ste. 290
City: Ventura
State / Province: CA
Zip / Postal Code: 93003
Country: USA

Account Information

Card Type: Visa
Card Number: **********1507
Region: Pacific
Contact: Khris Kircher 805-535-2026
Company-CompanyNo: DCOR L.L.C. 2531
Lease: 0216
API Well No: 043112063901
Area-Block: Unnamed or Other, 4861
APM Work: Other Operation

Payment Information

Payment Amount: $116.00
Transaction Date and Time: 03/30/2011 18:27 EDT



SJS

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies, with ONE copy marked "Public Information"

OMB Control number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

1. TYPE OF SUBMITTAL	2. MM OPERATOR NO.	3. OPERATOR NAME & ADDRESS *(Submitting Office)*
_ REQUEST APPROVAL _X_ SUBSEQUENT REPORT ___ CORRECTION	2531	DCOR 290 Maple Ct Suite 290 Ventura, CA 93003

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
S-62	0	00

7. API WELL NO. *(12DIGITS)*	8. START DATE *(Proposed)*	9. PRODUCING WELL INTERVAL	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
04-311-20639-01	5/5/2005	S01	COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. OCS-P-216	16. LEASE NO. OCS-P-216
14. AREA NAME 6B	14. AREA NAME 6B
15. BLOCK NO. 4861	15. BLOCK NO. 4861

RECEIVED
SEP 15 2005
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

___ INITIAL COMPLETION
___ MULTI-COMPLETION
___ RECOMPLETION
___ MODIFY PERFORATIONS
___ CHANGE ZONE
___ PERMANENT PLUGGING
___ TEMPORARY ABANDONMENT
___ PLUG BACK TO SIDETRACK/BYPASS
_X_ OTHER- Nitrogen Lift Well with Coil Tubing
___ ACIDIZE WITH COIL TUBING
___ ARTIFICIAL LIFT (INITIAL)
___ WORKOVER
___ CHANGE IN APPROVED PROCEDURE
___ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing Unit, etc.)*	21. RIG TYPE
Workover Rig #6080	WR

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach prognosis or Summary of Completed Work, As Appropriate)*

See attached well service summary report

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
Khris Kircher	805-535-2026	kkircher@dcorllc.com

26. AUTHORIZING OFFICIAL *(Type or print Name)*	27. TITLE
Robert L. Garcia	California Offshore Operations Manager

28. AUTHORIZING SIGNATURE	29. DATE
Robert L Garcia	9.12.05

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
Shannon J Shaw	for: District Manager	11/28/05

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290 Maple Court, Suite 290
Ventura, CA 93003
805-535-2000

Daily Completion Report- Gilda Well S-62

9-7-05 Move and spot Schlumberger nitrogen equipment. Continue to rub & scrub. Work with Schlumberger moving equipment and tools to rig up. Safety meeting on rigging up Coil Tubing to well S-62 to tree, landed Coil Tubing riser on tree, landed BOP and hooked up hydraulic line. Rigged hard lines from Schlumberger pump to the riser. Spotted manifold for coil tubing.

9-8-05 Hold safety meeting, assist Schlumberger rigging up coil tubing equipment. Test Coiled Tubing unit pipe rams, blind rams and pack-off assembly to 250psi low pressure and 3000psi high pressure using filtered sea water. All tested O.K.. Start to run in well with Jet nozzle on bottom of coil tubing. Run in well pumping 1/2 bbl min of CACL taking returns to mud pit. Circulate down to 10,653' stopped going. Attempt to go deeper, would not go. Started displacing 10.5ppg out of the 2-7/8" tubing with seawater, coil tubing moving up to 500' Coil tubing at 500' getting ready to pump Nitrogen Schlumberger can't get the Nitrogen pump to work. Started pumping Nitrogen with coil tubing at 500' and move coil tubing down to 8,000 feet, recovered 45bbls of fluid with 40% oil cut, 2.5% of solid which didn't have any grit, looks more like paraffin.

9-9-05 Hold safety meeting, continue to run in well to 9000' pumping nitrogen at 300 to 500scf and taking returns to production facilities. Pull out of well continuing to pump nitrogen Shut in well and rig out Schlumberger coiled tbg and pumping units. Remove injector head and leave well shut in with riser and BOPE in place. Open up well to production facilities after 1 hr, 600 psi on tubing. Turn well over to production. Note: Recovered 59 total bbls of fluid.

9-12-05 Rig down Coil Tubing riser and BOPE, back Schlumberger equipment on boat.

SOS

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies,
with ONE copy marked "Public Information"

OMB Control number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

1. TYPE OF SUBMITTAL	2. MM OPERATOR NO.	3. OPERATOR NAME & ADDRESS *(Submitting Office)*
_X_ REQUEST APPROVAL ___ SUBSEQUENT REPORT ___ CORRECTION	2531	DCOR 290 Maple Ct Suite 290 Ventura, CA 93003
4. WELL NAME: S-62 / 5. SIDETRACK NO.: 0	6. BYPASS NO.: 00	
7. API WELL NO. *(12DIGITS)*: 04-311-20639-01 / 8. START DATE *(Proposed)*: 5/5/2005	9. PRODUCING WELL INTERVAL: S01	10. WELL STATUS: COM/POW / 11. WATER DEPTH *(Surveyed)*: 205' / 12. ELEVATION AT KB *(Surveyed)*: 107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO.: OCS-P-216	16. LEASE NO.: OCS-P-216
14. AREA NAME: 6B	14. AREA NAME: 6B
15. BLOCK NO.: 4861	15. BLOCK NO.: 4861

RECEIVED
SEP 15 2005
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ___ INITIAL COMPLETION
- ___ MULTI-COMPLETION
- ___ RECOMPLETION
- ___ MODIFY PERFORATIONS
- ___ CHANGE ZONE
- ___ PERMANENT PLUGGING
- ___ TEMPORARY ABANDONMENT
- ___ PLUG BACK TO SIDETRACK/BYPASS
- _X_ OTHER- Nitrogen Lift Well with Coil Tubing
- ___ ACIDIZE WITH COIL TUBING
- ___ ARTIFICIAL LIFT (INITIAL)
- ___ WORKOVER
- ___ CHANGE IN APPROVED PROCEDURE
- ___ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing Unit, etc.)*	21. RIG TYPE
Workover Rig #6080	WR

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach prognosis or Summary of Completed Work, As Appropriate)*

See attached procedure

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
Khris Kircher	805-535-2026	kkircher@dcorllc.com

26. AUTHORIZING OFFICIAL *(Type or print Name)*	27. TITLE
Robert L. Garcia	California Offshore Operations Manager
28. AUTHORIZING SIGNATURE: Robert L Garcia	29. DATE: 9-2-05

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
Shannon J. Shaw	for: District Manager	9/2/05

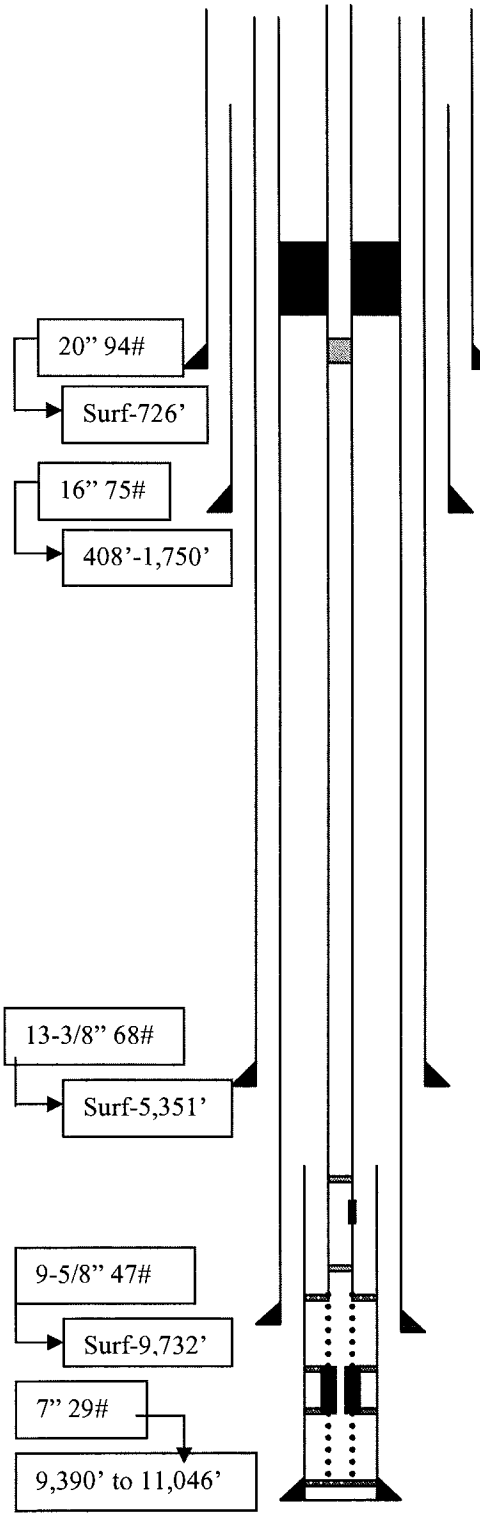
PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover and production operations. MMS uses the information to evaluate and approve or disapprove the adequancy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time ofr reviewing instructions, gathering and maintaining data, and completing annd completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

Gilda Well S-62
Coil Tubing Nitrogen Lift Procedure
Santa Clara Field

- Coil tubing operations are to be conducted with the well head installed and the surface packer set.
- Maximum anticipated surface pressure 1,000psi.

1) MIRU Schlumberger coil tubing unit and pumps to the well head on S-62.
2) Close master gate on production tree.
3) Rig up coil tubing riser and BOPE.
4) Test coil tubing BOPE to 250psi low / 3,000psi high, spin a chart, sign and date chart for certification.
5) Open gate on production tree.
6) RIH with circulating head and circulate clean liner system to TD 11,046'.
7) Work coil tubing from 5,000' to 9,000' and nitrogen lift well to production.
8) POOH with coil tubing.
9) Close master gate on production tree.
10) Rig down coil tubing.
11) RWTP.

Santa Clara Field, Gilda
OCS P-0216, Well S-62
Run in Tally



Type	Top	Bottom	Length
KB	0	52.15	52.15
HGR	52.15	53.24	1.09
2-7/8 pup	53.24	61.30	8.06
2-7/8 EUE	61.30	532.98	471.68
2-7/8 pup	532.98	543.02	10.04
XO	543.02	543.87	0.85
Bkr Pkr	543.87	550.98	7.11
3.5 EUE	550.98	553.06	2.08
XO	553.06	553.87	0.81
2-7/8 pup	553.87	555.49	1.62
2-7/8 pup	555.49	558.60	3.11
Flow cplg	558.60	561.41	2.81
cplg	561.41	561.84	0.43
SSSV	561.84	565.74	3.90
Flow cplg	565.74	568.69	2.95
cplg	568.69	569.12	0.43
2-7/8 pup	569.12	572.74	3.62
2-7/8 EUE	572.74	9189.69	8616.95
2-7/8 EUE	9189.69	9193.00	3.31
2-7/8 EUE	9193.00	9199.00	6.00
2-7/8 EUE	9199.00	9208.00	9.00
2-7/8 EUE	9208.00	9301.00	93.00
2-7/8 pup	9301.00	9316.00	15.00
2-7/8 EUE	9316.00	9347.00	31.00
2-7/8 EUE	9347.00	9812.00	465.00
XA-SS	9812.00	9815.31	3.31
2-7/8 EUE	9815.31	10202.55	387.24
Seal	10202.55	10264.55	62.00
Locator	10264.55	10265.00	0.45

ISOLATION SYSTEM

2-7/8" XN Nipple	**10,258' to 10,259'**
Polished Nipple	**10,259' to 10,269**

GRAVEL PACK DETAIL

Top System	**10,269' to 10,490'**
- 0.012ga screen	**10,397' to 10,490'**
Isolation assembly	**10,490' to 10,649'**
Bottom system	**10,649' to 11,046'**
- 0.02" SSWW	**10,748' to 11,046'**

Notes:

Surface Casing:
20", 94#, K-55, CMT-w/shoe @ 726'
ID: 19.124" **Drift:** 18.936"

Intermediate Casing (#1):
16", 75#, K-55, CMT - hanging from 408' to 1,750'

Intermediate Casing (#2):
13-3/8", 68#, K55, CMT – w/window @ 5,351'
Original well sidetracked at 5,351'
13-3/8"X9-5/8" CMT plug f/5,401' t/5,351'

Production Casing:
9-5/8", 47#, N-80, CMT – w/shoe @ 9,732'
ID: 8.681"**Drift:** 8.525" **BBL/FT:** 0.0732

Production Liner:
7", 29#, N-80, CMT - hanging f/11,145' t/9,390'
ID: 6.184"**Drift:** 6.059" **BBL/FT:** 0.0371

Gravel Pack:

Top System	10,269' to 10,490'
0.012ga screen	10,397' to 10,490'
Isolation assembly	10,490' to 10,649'
Bottom system	10,649' to 11,046'
0.02" SSWW	10,748' to 11,046'

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-2063901/S01	S-62	NUEVO ENERGY 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE —	FRACTURE —	PLUG BACK —	WORKOVER X	
APPROVAL X	ALTER CASING —	INITIAL COMPLETION —	PULL CASING —	OTHER X	
	ARTIFICIAL LIFT X	MULTICOMPLETION —	RECOMPLETION —	Replace Pump	COM/POW
SUBSEQUENT REPORT —	CHANGE ZONE —	PERFORATE —	SIDETRACT —		
	DEEPEN —	PERM ABANDONMT —	TEMPORARY ABANDONMENT —		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041776 Y=747990 7824' FEL 3511' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 —	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached for details.

RECEIVED
DEC 26 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent H. Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
Sabrina J. Miller	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	01 12 26

THIS SPACE FOR MMS USE ONLY

APPROVED BY for / TITLE District Supervisor

DATE 12/26/01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

TRANSMISSION VERIFICATION REPORT

TIME : 12/26/2001 04:57

DATE,TIME	12/26 04:56
FAX NO./NAME	816613955299
DURATION	00:01:20
PAGE(S)	01
RESULT	OK
MODE	STANDARD ECM

Post-it® Fax Note 7671

To Brent Martin	Date 12/26/01 # of pages ▶ 1
Co./Dept. Nucl. Tech	From Dave Gebauer
Phone # (661) 395-5201	Co. NAI
Fax # (661) 395-5299	Phone # (805) 389-7775
	Fax # (805) 389-7784

OCS P-216
PROCEDURE TO REPLACE FAILED ESP AND ACIDIZE LP-N AND LP-M ZONE

Brief Summary of Completed Operations: Re-ran new isolation assembly above the LP-N zone to facilitate perforating the LP-M zone from 10,428'-10,474'. After perforating the LP-M ran a gravel pack screen and tools and set across same. Ran work-string and frac-packed the LP-M zone with 80,000 lbs of sand. RIH with new ESP pump, Pruett Chamber, 2-7/8" tubing and ESP packer (with 2-7/8" tubing to surface). ESP was set @ 9271' MD and the SCSSSV packer @ 544' MD. Turned on pump @ 2400 hrs 12/22/01 and ran for 33 hours before S/D due to low rate. Re-started pump and ran for another 5 hours before S/D due to underload. Could not get pump to function properly. Suspect plugged suction and possibly parted shaft.

PROPOSED PROCEDURE

1. Move wireline unit back over the S-62 well slot. RIH and pull the wireline "PXX" plug from the nipple @ 9206' MD. After the plug is pulled, make a sinker bar run to check for fill inside the screen across the LP-M and LP-N interval (to ± 11000' MD). POH. RD slickline unit.

2. Kill the well by circulating down the tubing and up the annulus and displacing the filtered seawater with the 11.5 ppg calcium chloride.

3. RU CTU. RIH and circulate out any fill that might be found from Step #2 above. Spot acid (15% HCL plus xylene) across the LP-N and LP-M zone and over-displace with calcium chloride. POH. RD CTU.

4. Set BPV. ND tree and NU BOPE. Test BOP's as per previous operation.

5. Pull out of hole and replace the REDA ESP pump.

6. RIH with replacement pump, Pruett Chamber, and all production equipment.

7. After landing the production tubing, set BPV. ND BOP. NU tree and test as per previous procedure.

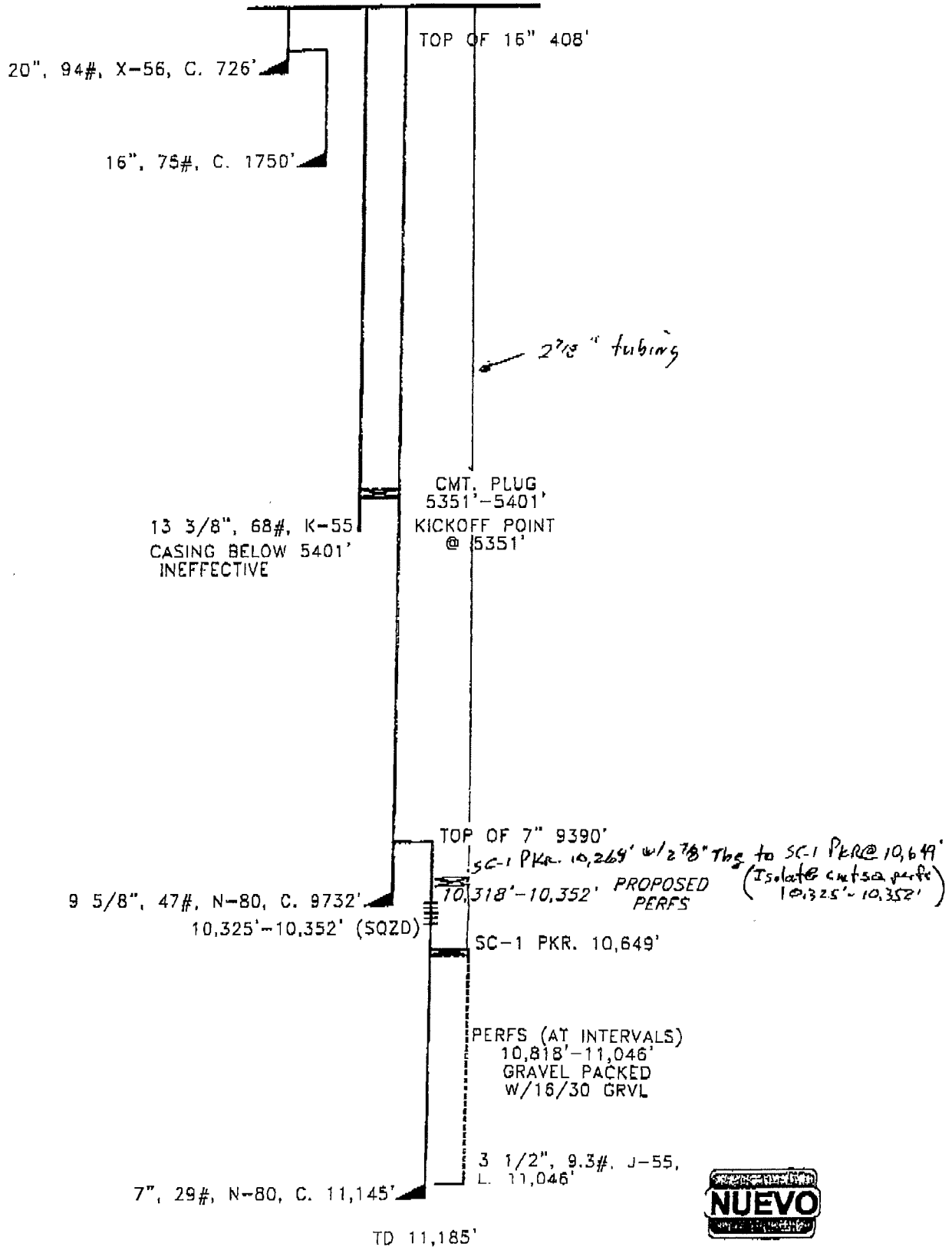
8. RU wireline and RIH and set "PXX" plug @ ± 9200' MD.

9. Start the ESP and test ESP for proper working order.

10. After proper ESP operation is verified (± 48 hrs), run wireline plug and set at + 560 feet in the "X-Profile" in the SCSSSV. Pressure up and set packer. Retrieve the wireline plug. Test packer and SCSSSV. Turn well over to production.

SANTA CLARA FIELD

PLATFORM GILDA
WELL #S-62



NUEVO ENERGY COMPANY

1200 Discovery Dr., Suite 500
Bakersfield, CA 93309
(661) 322-7600

RECEIVED
DEC 26 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

FAX COVER SHEET

Date: 12/26/01

Time: 4:21 PM

To: Dave Gebauer

Fax ~~Phone~~: (805) 389-7724

Company: MMS

~~Fax~~: Phone (805) 389-7775

From: Brent Martin

Phone: (661) 395-5201

Department: Dalg

Fax: (661) 395-5299

Number of pages including cover sheet:

Message:

Dave

As promised

Brent Martin

Releasable to public
Name: SRH Date: 5/13/13

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-2063901/S01	S-62	NUEVO ENERGY 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

COPY TO REGION

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER X	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE X	SIDETRACT ___		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041776 Y=747990 7824' FEL 3511' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached for details.

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Phil Tibbs	(661) 395-5421
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
Sabrina J. Miller	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
Sabrina J. Miller	011113

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APPROVED BY _____ TITLE District Supervisor

DATE 11/21/01

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OCS P-216 Platform Gilda Well S-62
LP-M Workover Procedure

1. Rig up slickline unit RIH with sinker bar to 10,270' MD (9' inside SC-1 Packer @ 10,261' MD). MU and RIH to ± 10,225' MD and shift "XA" Sliding Sleeve Open in order to circulate well with Kill Fluid.

2. Pump filtered seawater down tubing while taking returns up the backside. Once the well is full of seawater, the casing and tubing pressures will be identical. Record SICP and SITP. Adjust density of $CaBr_2$ fluid as per calculations based upon surface pressures.

3. Kill well by circulating well clean with $CaBr_2$ filtered kill weight fluid (KWF). Open casing valve and circulate until fluid returns are clean. During the 6/97 initial completion 13.0 PPG $CaBr_2$ fluid was used. It should take 683 Bbls to fill well.

4. Skid rig over well S-62. Install BPV and ND tree. NU and test BOPE.

5. Pull out of hole with production tubing, stainless steel capillary tubing, and Pruett BHP Chamber.

6. Pick up a 7" all weight scraper and run to top of 7" Baker SC-1 packer @11,261'. POOH with scraper.

7. Run in hole and retrieve 7" Baker SC-1 packer, millout extension, 2.313" "X" nipple, 12 joints 2-7/8" tubing, 2.313" "X" nipple, and S-22 snap latch assembly. After removing this equipment, the previously cement squeezed LP-M perforations (10,325'-10,352') will be exposed.

8. Make up 3.25" seal assembly, locator sub, 2-7/8" tailpipe and 7" Baker SC-1 packer and set seals in 7" Baker SC-1 packer @ 10,649', top Baker SC-1 packer will be located @ 10,490'.

9. Run in hole with TCP perforating assembly with packer blanking plug. Set TCP gun on SC-1 packer, set blanking plug in packer, pickup TCP guns on depth and perforate LP-M interval (10,428'-10,474').

10. Run in hole with 7" all weight casing scraper with blanking plug retrieving tool. Scrape new perforations, retrieve and pull out of hole with packer blanking plug.

11. Run in hole with 3-½" gravel pack assembly and set same on 7" Baker SC-1 packer @ 10,490', top Baker SC-1 packer will be located @ 10,250'.

OCS P-216 Platform Gilda Well S-62
LP-M Workover Procedure

12. Rig up frac-pack pumping equipment and frac-pack well with 80,000 lbs resin coated sand contained in 400 Bbls gelled fluid. Reverse out excess sand from 3-½" workstring and pull out of hole with gravel pack service tools.

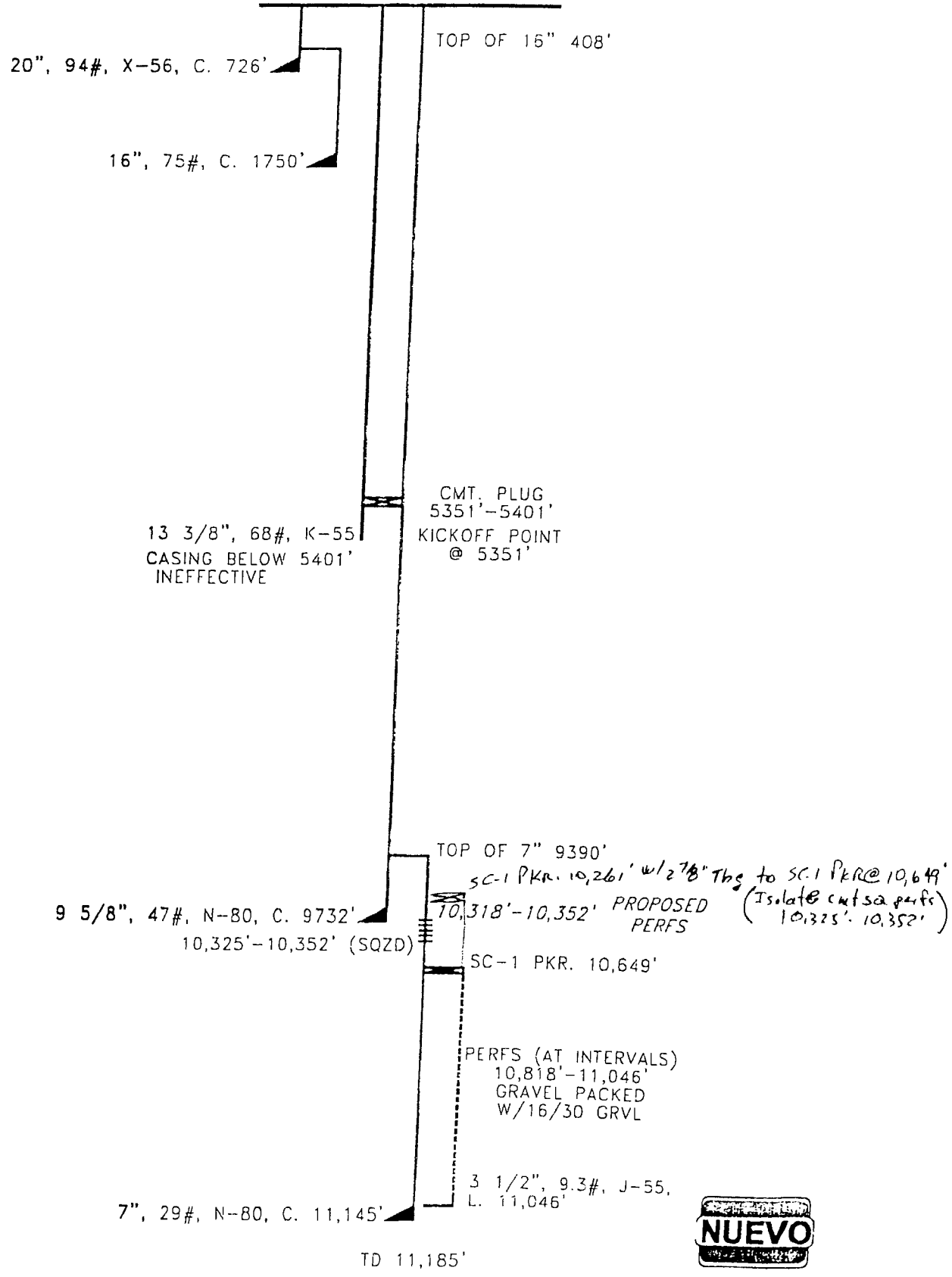
13. Run in hole with new ESP pump, Pruett Chamber, 2-7/8" tubing, 9-5/8" RDH production packer, and 2-7/8" tubing to surface. ESP will be set @ 10,000' and the RDH packer will be placed in production string @ ~500'.

14. Install Back-Pressure Valve and Nipple down BOPE. Install and test tree, Release rig.

15. Verify pump operation. Set packer within 48 hours.

16. Return well to production.

SANTA CLARA F'ELD
PLATFORM GILDA
WELL #S-62



COPY TO REGION

MINERALS MANAGEMENT SERVICE — Submit original plus three copies v — OMB No. 1010-0045

SUNDRY NOTICES AND REPORTS N WELL — one copy marked "Public Informat — Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20639-01	S-62	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	
REQUEST	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
APPROVAL ___	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___	___	COM/POW
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X	___	
SUBSEQUENT	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ___	___	
REPORT X			ABANDONMENT ___	___	

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041776 Y=747990 N341056 W119256	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See attached well summary, schematic, and weekly activity reports for final report

RECEIVED
JUL 24 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

AUG 2
7247

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	970722

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APPROVED BY _____ TITLE District Supervisor

DATE 8/26/97

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

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MINERALS MANAGEMENT SERVIC
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies w
one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20639-01	S-62	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	
	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
APPROVAL ___	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		COM/POW
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT X	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041776 Y=747990 N341056 W119256	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

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JUL 24 1997
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AMARILLO DISTRICT

See attached well summary, schematic, and weekly activity reports for final report

CONFIDENTIAL

7/28

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	As agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	970722

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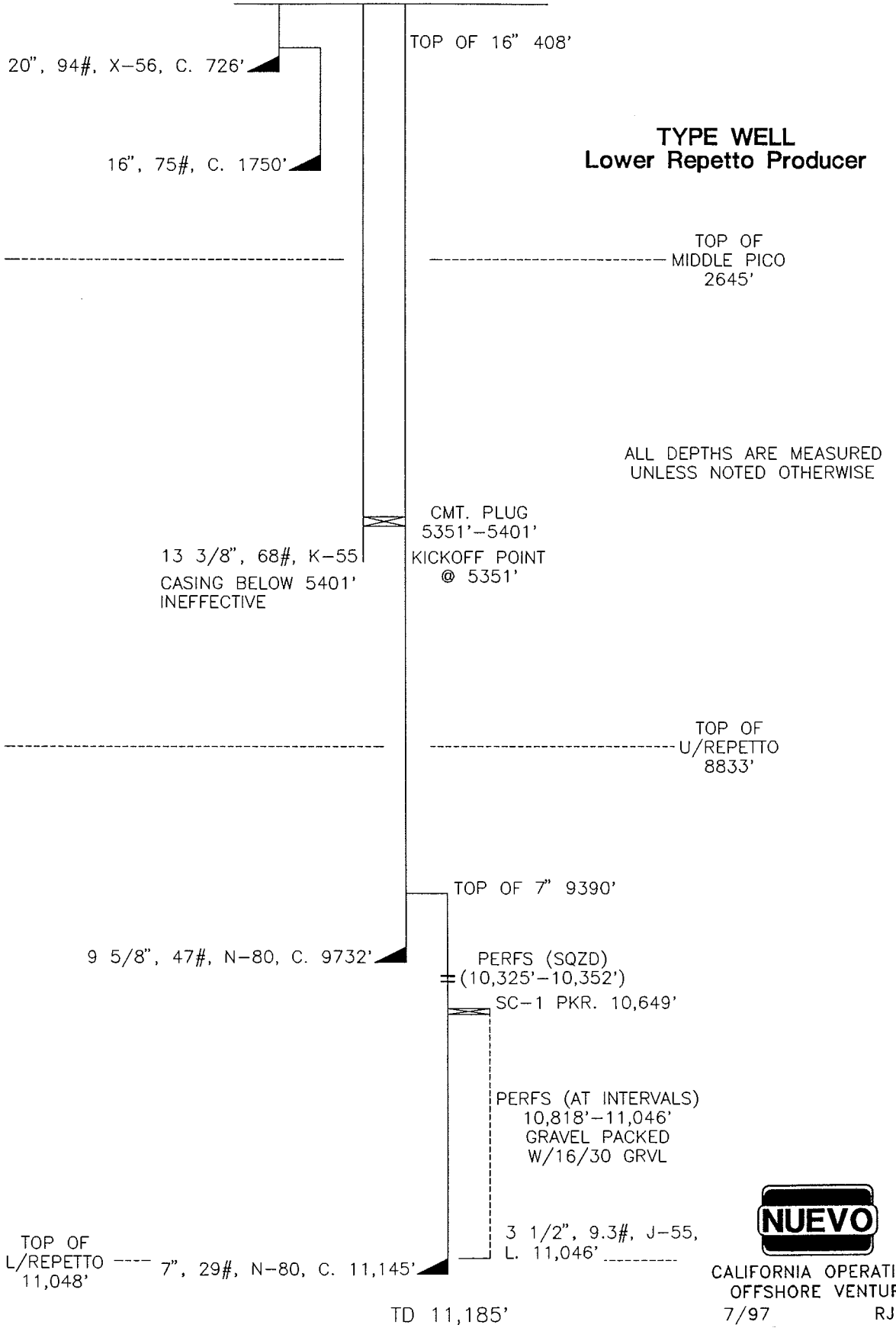
DATE _____

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SANTA CLARA FIELD
Platform Gilda
Well #S-62

RT: 107' **Slot #64**



NUEVO

CALIFORNIA OPERATIONS
OFFSHORE VENTURA

7/97 RJDIII

TORCH OPERATING COMPANY
201 S. Broadway
Orcutt, CA 93455

RECEIVED
JUL 24 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

805-739-9111
Fax: 805-937-8709

July 23, 1997

Mr. Rishi Tyagi
U.S. Department of Interior MMS
770 Paseo Camarillo
Camarillo, CA 93010

RE: Subsequent Sundry Report w/attachments
Santa Clara Field - Platform Gilda #S-62ST

Mr. Tyagi:

As per Mr. Saddiqui's request, there are four copies of all documentation enclosed. I respectfully request caution in the submission of the backup to the "Public Information" copy. It was my understanding that only the cover sundry page shall be Public Information and all other documentation confidential. Please let me know if I am mistaken with my interpretation.

Attachments are as follows:

1. Subsequent Sundry (4 ea.)
2. Well Summary Report (3 ea.)
3. Schematic (4 ea.)
4. Weekly Activity Report (4 ea.)
5. Directional Survey (2 ea.)
6. BorDip Log (2 ea)
7. AL/GR Log (2 ea)
8. AL Log (2 ea)
9. DSS/P&S DM/GR Logs (2 ea)
10. TDDCN Log (2 ea.)
11. DPR/GR/RWD 1:600 & 1:240 (2 ea)
12. Mud Logs (2 ea)

If you have any comment or question, please feel free to contact myself or Bob Davis at the letterhead phone number listed above.

Thank You,

Sabrina J. Miller
Environmental Specialist

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20639-01	S-62	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE X	PLUG BACK ___	WORKOVER ___	com/pow
SUBSEQUENT REPORT ___	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1041776 y= 747990	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Proposed completion is similiar to that already approved for the subject well, but is more complete. Information on deck/seismic loading for Schlumberger/Dowell frac equipment is also supplied. Please see attached.

MAY 1
7/12/1

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
	4/25/97

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APPROVED BY _____ TITLE District Supervisor

DATE 7/1/97

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Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH OPERATING COMPANY
SANTA CLARA FIELD
PLATFORM GILDA
S-62 COMPLETION PROCEDURE

1. Run and evaluate acoustic cement bond log. Squeeze as required.

2. RIH with 7", 29#, casing scraper and brushes. Scrape/brush liner to E.D. Filter sea water in cased/lined well bore to desired cleanliness.

3. Displace hole with filtered 13.2 ppg. CaBr2 water (expected Lower Repetto pore pressure 12.7 ppg.).

4. RIH with TCP guns and frac pack tools (including a packer equipped to check flow from below) to first designated Lower Repetto interval. Fill tubing with filtered sea water. Set packer and add enough tubing pressure to result in 1000 - 1500 psi. underbalance.

5. Perforate lowest section of Lower Repetto.

6. Frac pack and pull frac pack tools out of packer, mechanically isolating flow from above.

7. POOH with tools.

8. RIH with second TCP gun and frac pack tools. Perforate second selected interval and repeat frac pack process.

9. Repeat process of perforating, frac packing, and isolation until all designated Lower Repetto intervals are frac packed and flow from above the top packer is mechanically isolated.

10. POOH with work string and tools. RIH with properly sized 7" packer, production tubing , and safety system. Set packer and test safety system.

11. Disable lower packer isolation devices to communicate flow to tubing string.

12. Turn well over to production. Put on production as commingled Lower Repetto producer, with low initial drawdown. Test as directed by engineering staff.

TORCH OPERATING COMPANY

Santa Maria District
201 South Broadway
Santa Maria, California 93455
805-739-9111 (Fax: 805-937-8709)

April 25, 1997

Rishi Tyagi
District Supervisor, Camarillo District
MMS, Pacific OCS Region
770 Paseo Camarillo
Camarillo, CA 93010

SUBJECT: **S-62 Completion Procedure and Temporary Well Frac Equipment on Platform Gilda**

Mr. Tyagi:

Attached is a more complete version of a completion procedure previously apporved for the subject well. Also attached are equipment loading diagrams for fracture stimulation equipment we would like to temporarily install on our drill deck. The proposed installation is similar to the equipment used for the fracture stimulation of S-87, with two notable exceptions. First, the pumping and blending equipment is lighter - both absolutely and in terms of deck loading. Second, we would like to have the capability of completely filling our sand hopper to give us the capability of properly stimulating our Lower Repetto intervals. The attached detailed engineering calculations make us confident that this is quite safe. In general, we are confident that the proposed equipment and operations are properly engineered, safe, and in full conformance with 30 CFR Part 250. Timing is important on this project. Your timely approval will be appreciated.

As early as May 12, 1997, Torch proposes to mobilize on Platform Gilda to do the first of three frac jobs on well S-62. These jobs should be completed within 3 weeks of first equipment mobilization. Well S-62 is in wellroom #3 on the northeast corner of the drill deck. The drill rig will, of course, be positioned over this wellroom. The frac equipment consists of six major skids as detailed in the attached "Gilda Frac Equipment" list. This equipment will be arranged approximately as shown on the attached "Hill-Peck" deck layout drawing. The stimulation contractor will be Schlumberger/Dowell. All equipment and interconnecting piping will be properly rated for the application.

The electrical area classification where the frac equipment will be located is Unclassified. The nearest Classified area, per API RP 500B, is a Class I, Division 2 area extending for a radius of 10-feet from the non-vapor tight well slot hatches on the drill deck over wellroom #3. I have sketched in the approximate Classified Area boundary on the attached Hill-Peck" deck layout drawing. The area where the frac equipment will be located is open and well ventilated.

Deck loading has been reviewed by Rick Beers of Thomas and Beers, Inc. in Ventura. Mr. Beers is very familiar with this platform structure. All of the proposed skid loads are well within documented platform deck capacities. The deck capacities shown on the "Hill-Peck" drawing have been confirmed by comparison with the original Santa Fe Services Company design drawings. A copy of the most relevant drawing is attached. Because each skid extends across several deck stringer beams, the higher tabulated deck loading capacities are appropriate. Several specific conservative recommendations are made by Mr. Beers in the attached write-up, including guying the sand hopper, tacking the base of one of the injection pump skids to the deck, placing timbers or steel "suitcases" under

the 500 bbl. frac tank, and field verification of stringer location for proper skid placement. All of these recommendations will be implemented.

All equipment for the frac job will be transported to Gilda by our regular chartered workboat, Tidewater Marine's *Victory Seahorse*, out of Port Hueneme. Personnel will travel by workboat out of Port Hueneme, as usual. No Barges are required. There will be no anchoring. Crane lifts will be made by the permanently installed platform cranes. All of the recommended practices of the safety team assembled for the heavier lifts needed for the S-87 fracture stimulation will be implemented here as well. As with the S-87 project, all picks will be within safe limits for the cranes.

Should you require any additional information, please contact me at the letterhead number. Thank you.

Sincerely,

Bob Davis 4/25/97

Robert A. Davis P.E.
Sr. Operations Engineer

FACSIMILE TRANSMISSION

To: **Bob Davis, Torch Operating Company**

From: **Rick Beers, Thomas & Beers**
572 Poli Street
Ventura, California 93001
Telephone (805) 652-0655
FAX (805) 652-0170

Date: **April 24, 1997**
Subject: **Platform Gilda Frac. Drilling Loads for Well S-62 (Rev 1)**

Per your request, we have checked the proposed frac equipment loading for Platform Gilda for Well S-62. If the following recommendations are implemented, the equipment layout and sizes will all be within the design basis for the drill deck. Summarized below are the basic criteria and results.

- Equipment will be temporary.
- Analysis based on data provided by Torch and Schlumberger/Dowell.
- Allowable deck loads based on original design drawings and calculations.
- Temporary seismic loads were considered:
  Lateral Load = 0.35 g
  Vertical Load = 0.20 g
- Lay out the full frac tank and prop silo such that is directly over major stringers as shown on Page 1. The blender and 220 bbl frac tank must be located in Areas A or B. The pumps and treatment control skid can be placed in Areas A, B, C, D or E.
- Shore up the full frac tank to the skid level using existing Gilda steel 'suitcases' or timbers per sheet 4. The shores or suitcases need to be directly over the stringers as shown on Page 1 and 4. Per our discussion, the steel suitcases are 5'x22'x12" built-up steel sections especially made for Gilda. Whichever method is utilized, the bottom of the full frac tank must be fully supported.
- Tack weld down the blender as shown for seismic stability.
- Guy off the prop silo with four guys per pages 1 thru 3. Weld down the four corners as documented. Cable anchors to be located as shown on page 2. Assuming you use the existing 7/8" Schlumberger cable system, the total prop silo weight should be limited to 90,000 lbs or 90% capacity. If you need the 101,000 capacity, the cables must be changed to 1" diameter 6x19 XIPS with 1 3/4 turnbuckles. Alternately the silo layout could be modified to give better cable angles. This would take up more deck area and have to be engineered.

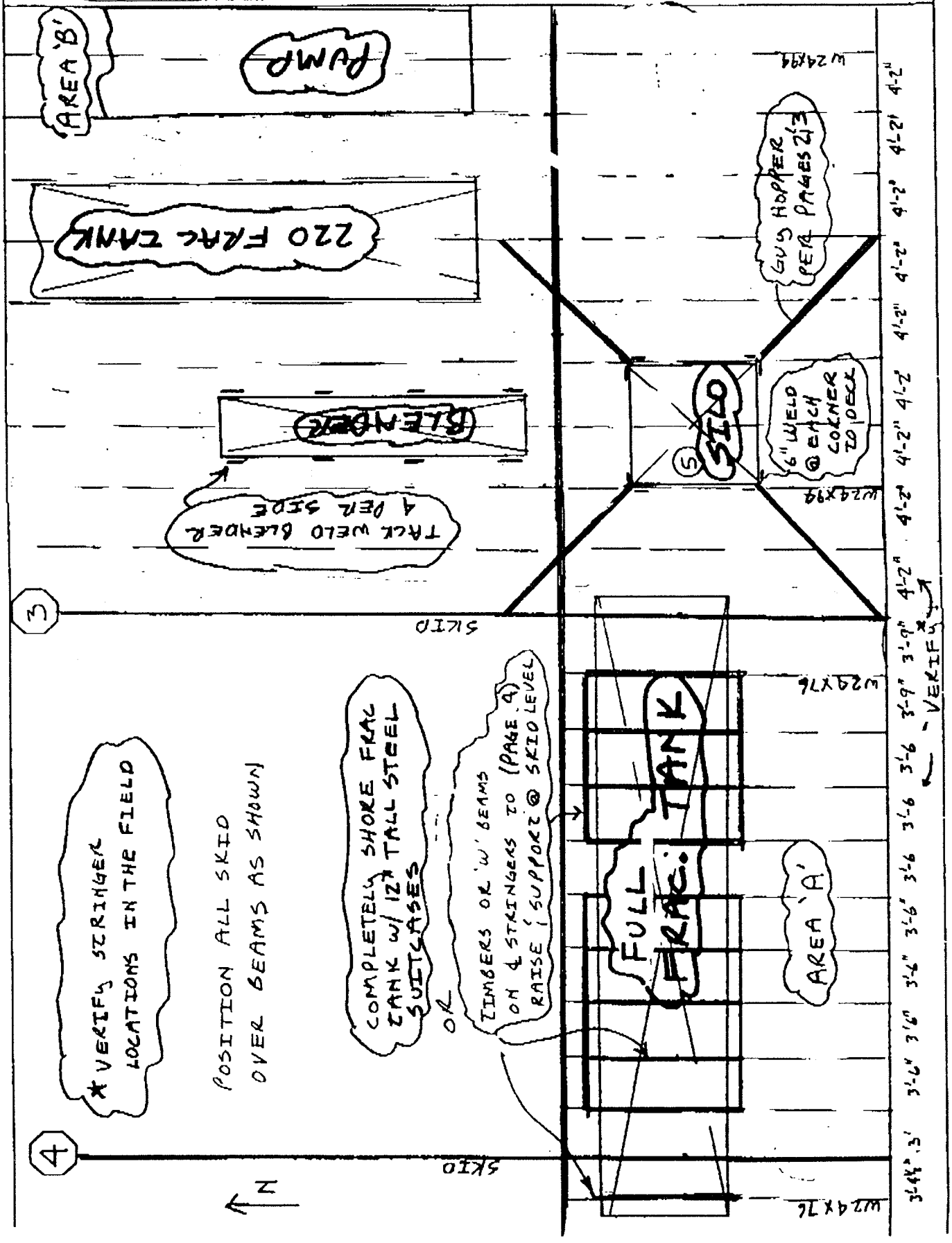
Thank you for using Thomas & Beers. Please call if you have any questions.

Rick Beers, P.E.

THOMAS & BEERS

PROJECT TORCH ENGINEER RB DATE 2/97

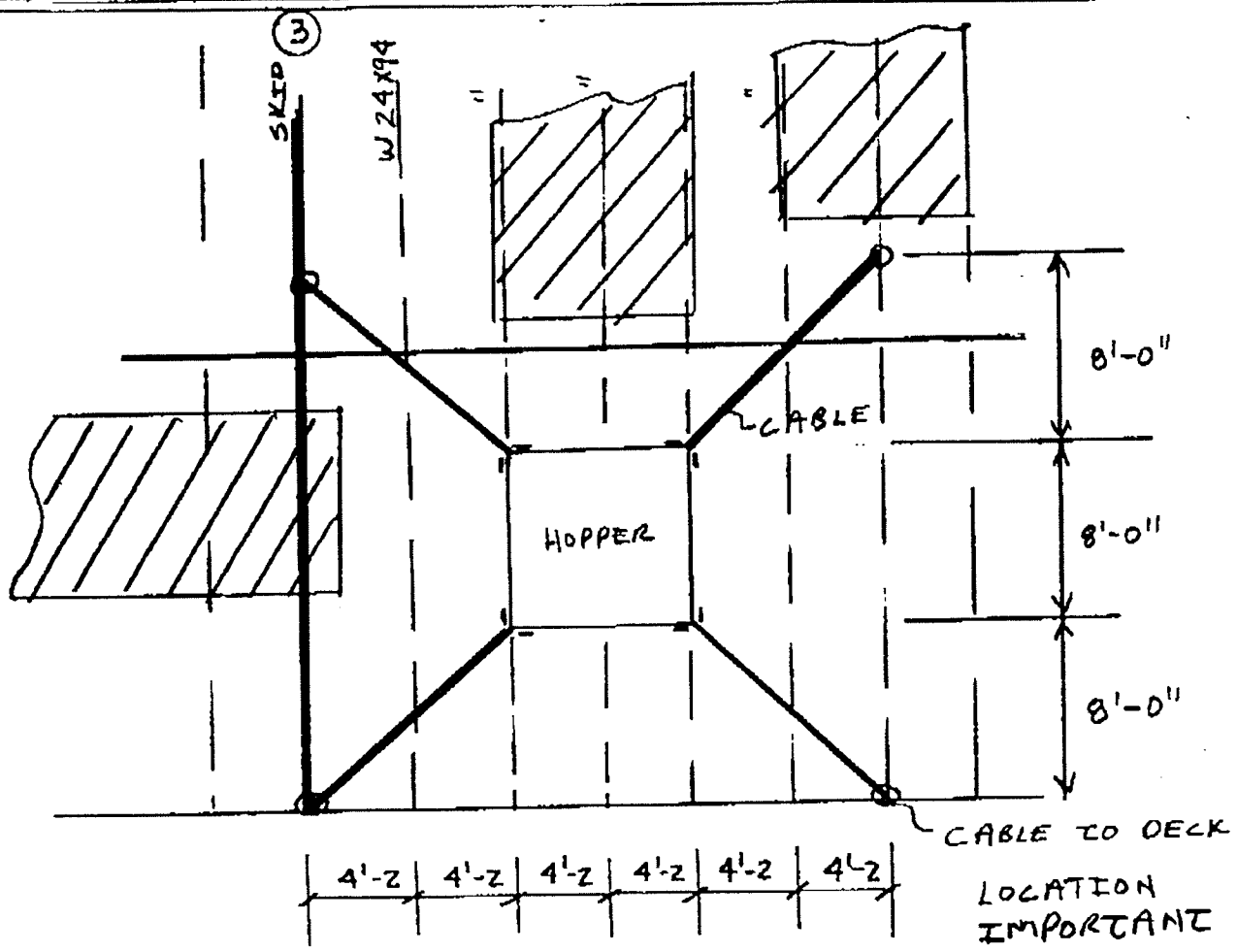
SUBJECT GILOA DRILLING FILE NO. 551 SHEET 1 OF

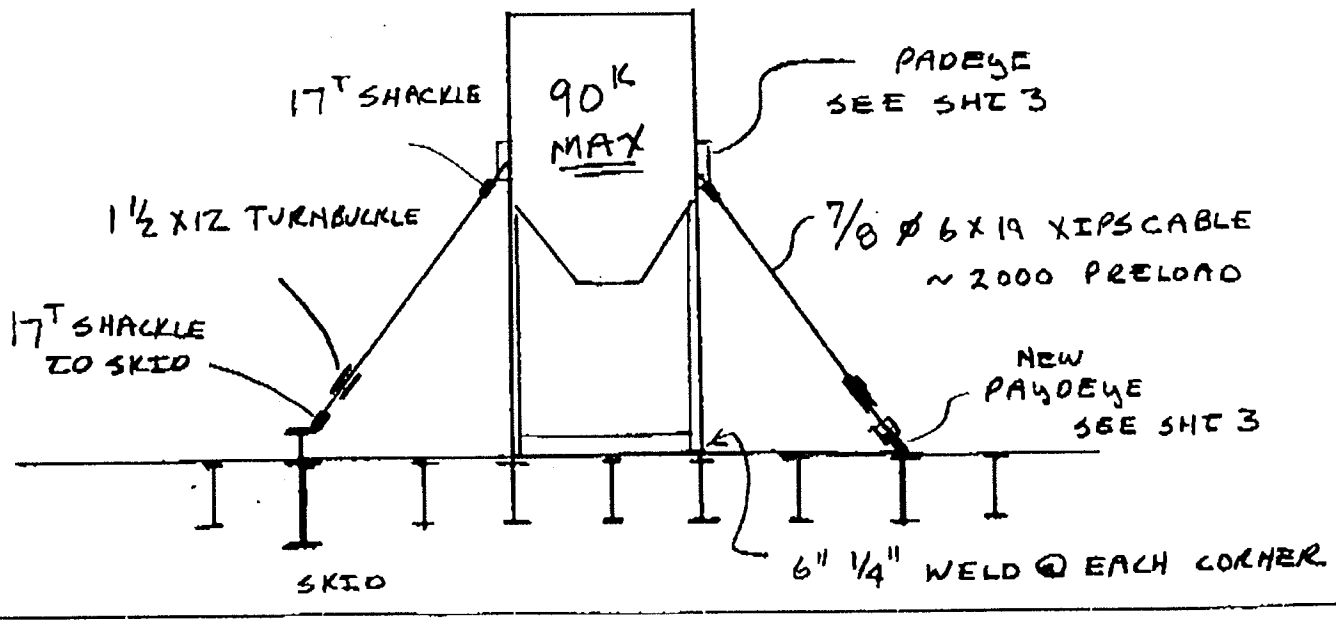


THOMAS & BEERS

PROJECT TORCH ENGINEER RB DATE 3/97

SUBJECT GILDA FILE NO. 551 SHEET 2 OF

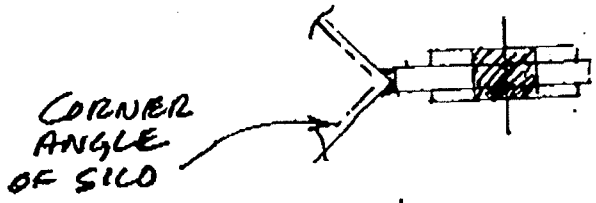




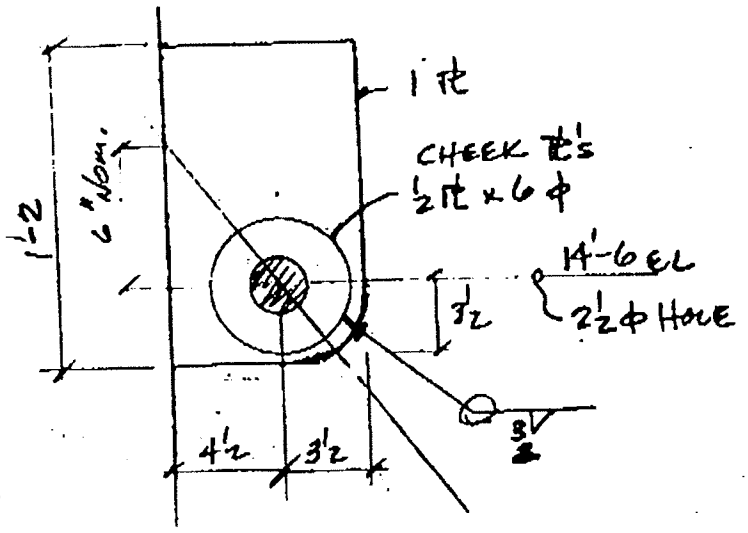
THOMAS & BEERS

PROJECT GRUBBS ENGINEER FC DATE 1/97

SUBJECT HILDALGO FILE NO. 542 SHEET 3 OF

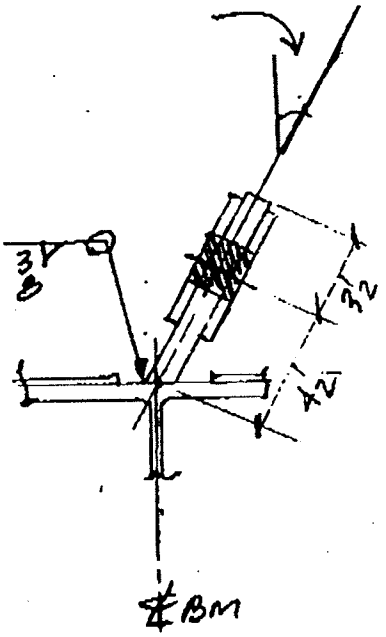


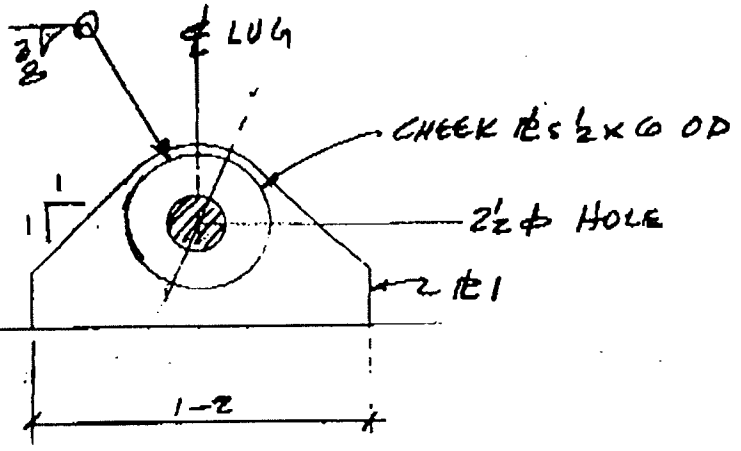
EXISTING



SILO LUG (A)

MATCH CABLE ANGLE



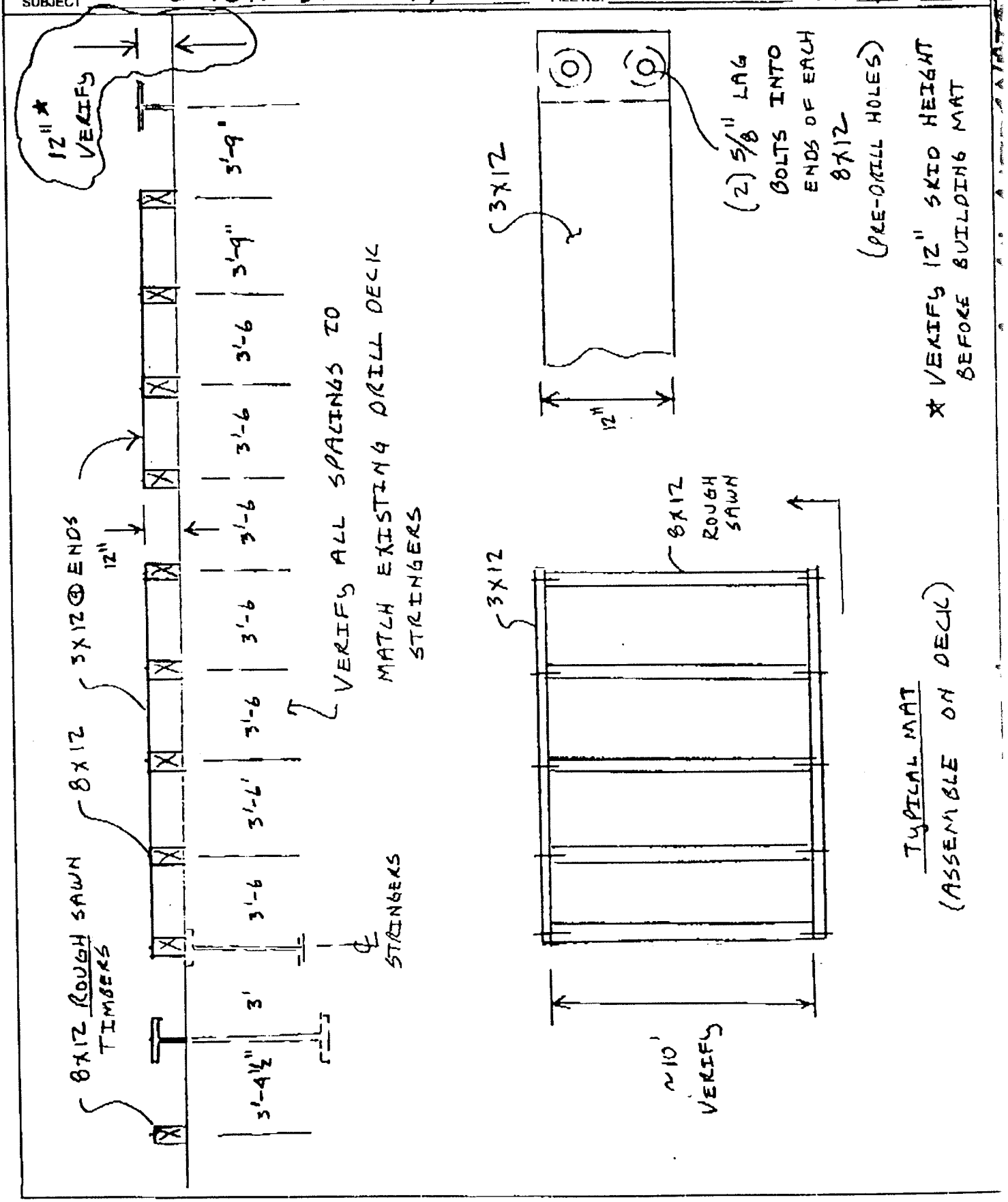


BEAM LUG (B)

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PROJECT TORCH ENGINEER RB DATE 2/97

SUBJECT GILDA DRILLING FILE NO. 551 SHEET 4 OF



THOMAS & BEERS

PROJECT GILDA ENGINEER RB DATE 4/97
SUBJECT S-62 FILE NO. 551 SHEET 1 OF

WELL S-62 FRAC JOB

MAJOR EQUIPMENT LIST

		L	W	H	psf
POD BLENDER	13,050	16	4	11	204
PUMPS (2)	31,430	23.5	7	7	191
TREATMENT CONTROL	10,000	13	8		96
PROP. SILO	101,200	9	9	22.5'	1249
FULL FRAC TANK	200,000	40	8	13	625
220 FRAC TANK	88,000	33	8	6	333

DESIGN LOADS

DL + LL → ACTUAL

SEISMIC → .35 g →

.2 g ↕

ALLOWABLE DECK LOADS

- VARIES
- SEE NEXT PAGE

THOMAS & BEERS

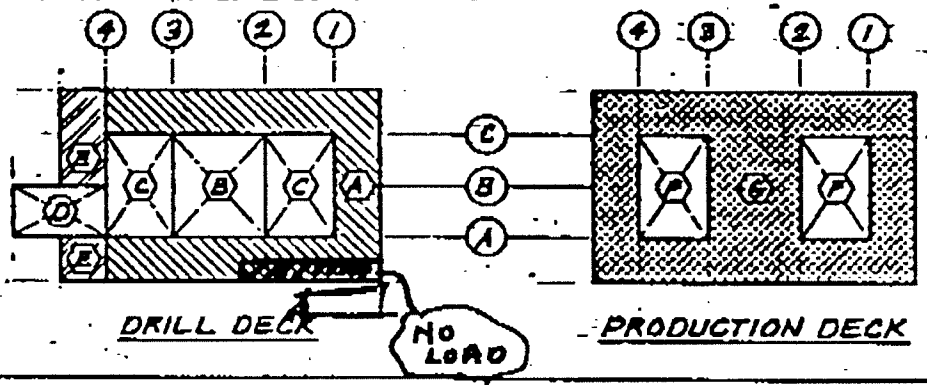
PROJECT GILDA ENGINEER RB DATE 4/97

SUBJECT S-62 FILE NO. 551 SHEET 2 OF

DESIGN CRITERIA :

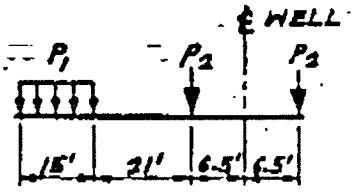
I. VERTICAL LIVE LOAD:

1. UNIFORM LIVE LOAD.



1. LOAD IN LB PER SQ. FT.

DECK	AREA	DECK PLATE	DECK BEAM	TRUSS & COL. @ OPERATION
DRILL	A	400	1000	750
	B	400	400	400
	C	200	200	RIG & PIPE RACK LOAD
	D	400	400	300
	E	400	400	500
PRODUCTN	F	200	200	100
	G	400	500	375
SUB DECK		400	500	200



2000 HP MAX. PIPE RACK & DRILL RIG @ OPERATION

P_1 = PIPE RACK LOAD = 29.4 K/LF

P_2 = RIG LOAD = 535.7 K

2. STAIRS & LANDINGS & BOAT LANDING — 100 PSF

3. CRANE LOAD — REACTION DUE TO SEA KING 'SK-2300' BOOM LENGTH = 100 FT.

II. LATERAL LOADS :

1. WIND — 75 KNOTS

2. WAVE — WAVE HEIGHT = 35 FT, PERIOD = 12 SEC.

3. CURRENT — 2.5 KNOTS AT THE SURFACE 0.8 KNOT AT THE BOTTOM

4. SEISMIC — BASED ON RESPONSE SPECTRA RECOMMENDED BY FUGRO CONSULTING ENGINEERS & GEOLOGISTS.

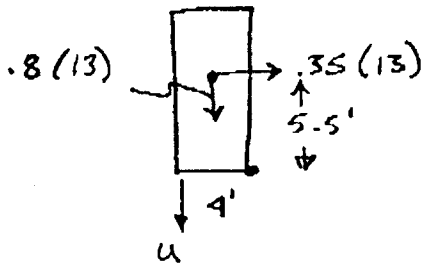
THOMAS & BEERS

PROJECT GILDA ENGINEER RB DATE 4/97
SUBJECT S-67 FILE NO. 551 SHEET 3 OF

1) POD BLENDER, PUMPS, TREATMENT CONTROL & 220 FRAC TANK

AREA (B)

- σ_{ALL} = 400 psf FOR DECK, BEAMS & COLUMNS
- σ_{MAX} = 333 psf
- ALL OKAY
- CHECK POD BLENDER FOR OVERTURNING



$$u = \frac{.35(13)(5.5) + (8)(3)(2)}{4}$$

$u = -1^{K}$ LOW BUT UP

TACK DOWN

2) FRAC TANK

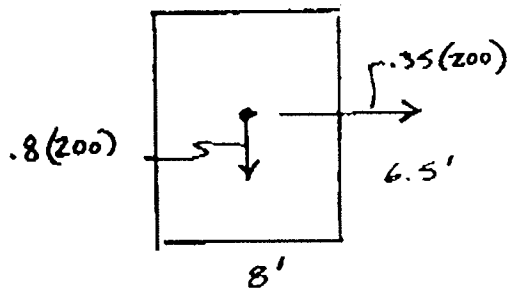
$W = 200^{K}$

40 x 8 x 13 σ = 625 psf

σ_{ALL} = 1000 psf AREA (A)

SUPPORT ON SKID BEAM & STEEL SUITCASES

CHECK OVERTURNING



$M_R = (.8)\,4(200) = 640^{1-K}$

$M_{OT} = .35(200)6.5 = 455$

NO OVERTURNING ✓

THOMAS & BEERS

PROJECT GILOA ENGINEER RB DATE 4/97
SUBJECT S-62 FILE NO. 551 SHEET 4 OF

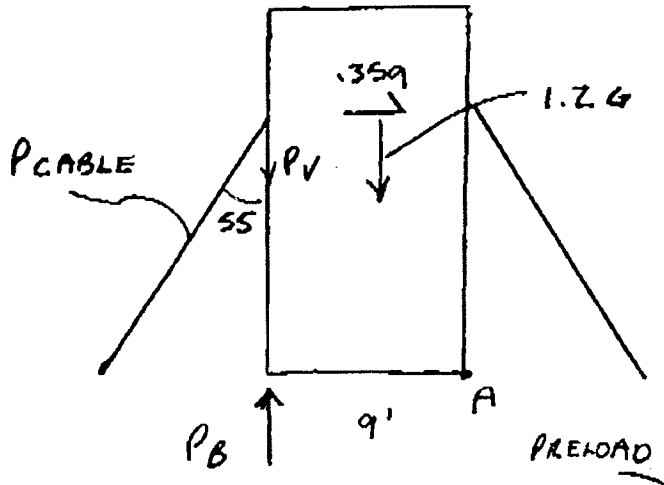
SEISMIC LOADS

3) PROP SILO

$W = 101^K$

VCG ~ 14'

DEAD LOAD + LIVE LOAD + SEISMIC



$$P_{CABLE} \sim \frac{.35(101)}{(2)\cos 45 \cos 55} + 2^K \quad \text{PRELOAD}$$

$P_{CABLE} = 43.5^K$

7/8 7IP $P_{BREAK} = 79.6^K$

$$F.S = \frac{79.5}{43.5} = 1.82 \quad \text{LOW}$$

→ OPERATE @ 90% CAPACITY

OR USE 1" CABLES ($P_{BR} = 100^K$)

7/8" USE 17^T SHACKLE ⟨ 1 1/2 X 12 T.B

1" USE 25^T SHACKLE ⟨ 1 3/4 X 12 TB

CHECK W24x94 (SEISMIC LOAD)

SOLVE FOR P_B

$P_{CABLE} = 43.5^K$

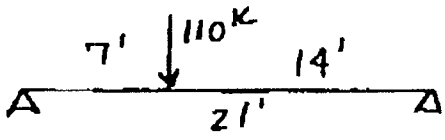
$P_V = 2(43.5)\cos 35 \sin 45$

$P_V = 50^K$

$\Sigma M_A = 0$

$$P_B = \frac{1.2(101)4.5 + 50(9)}{9}$$

$P_B = 110^K$



$$\sigma = \frac{[110(7)(14)/21]12}{22.2}$$

$\sigma = 27.7$ ksi

$\angle \sigma_{ALL} = .66(36)1.33$

$= 31.6$ ksi

SILO OKAY

OKAY

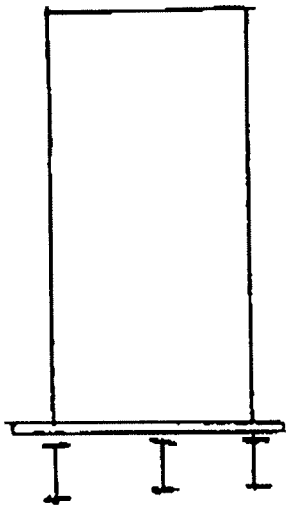
THOMAS & BEERS

PROJECT GILDA ENGINEER RB DATE 4/97

SUBJECT S-62 FILE NO. 551 SHEET 5 OF

3) PROP SILO (CONT)

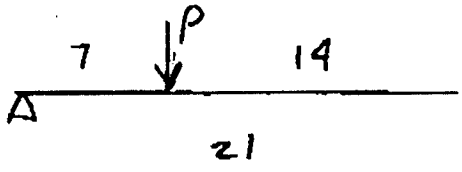
CHECK FOR DL+LL ONLY

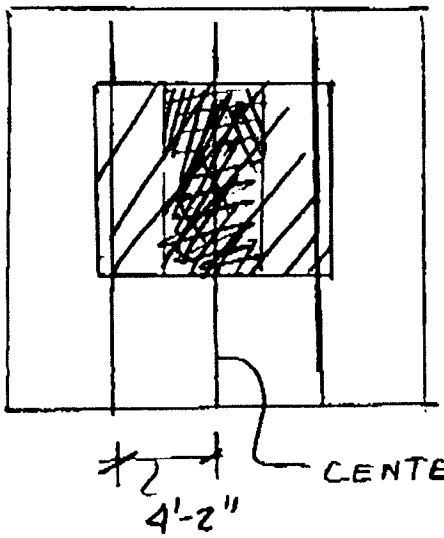


$\sigma_{LOAD} = \frac{101200}{9 \times 9} = 1249$ psf

$\sigma > 1000$ psf

∴ CHECK BEAM w/CALCS
W24x94





$P = 1249(4.17)(9)$

$P = 46.9^K$

$\sigma = \frac{[(47)(7)(14)(12)/21]}{222} = \frac{M}{S}$

$\sigma = 11.85$ ksi $< \sigma_{ALL} = .66F_y$

$\sigma_{ALL} = 24$ ksi

SILO OKAY

THOMAS & BEERS

PROJECT SLUM. - DOWL ENGINEER FC DATE 1/97
SUBJECT SILO LUGS FILE NO. 542 SHEET 6 OF

LUGS FOR SILO

FROM PREVIOUS SILO JOB

LUG ON SILO

$\phi_{CABLE} = \tan^{-1} \frac{11.0'}{15'EL} = \tan^{-1}(.735) = 36.3°$

$P_{DESIGN} = 2 \times P_{CABLE} = 2(31.7) = 63^K$

VALID > 43.5^K

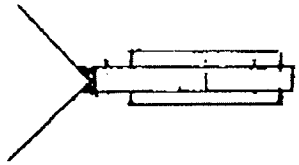
USING 5/16 FILLETS, $L_{LUG\ MIN} \sim 63/464(2) = 7"$, USE 4" MIN PAST W.P.

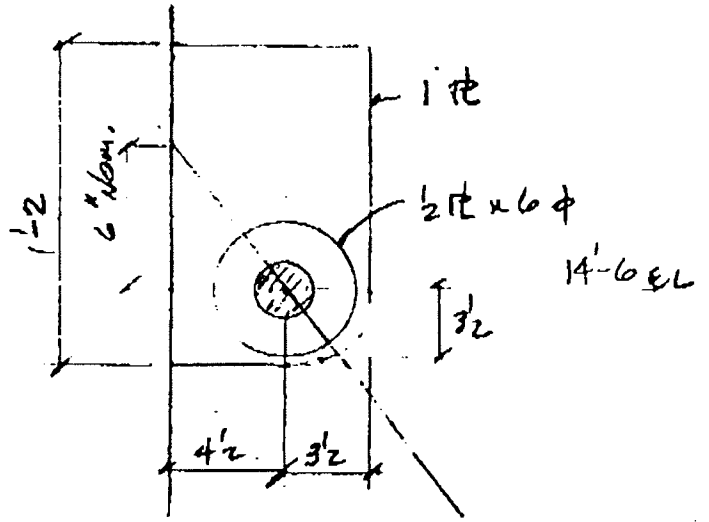
1⅛ OPEN SWAGE SOCKET PIN 2¼ϕ, THROAT 2¼"

TRY 1" TK W/ ½" CHEEK PL'S + 2½ϕ HOLE W/ 3½ EDGE DIST

$f_v = \frac{63}{(2)(1)(2\frac{1}{4}+1\frac{3}{4})} = 7.9\ ksi < 14.4$, OK
(14 ksi IGNORING CHEEK PL'S)

BENDING @ EDGE, $P_{ALLOW} \sim \frac{1.67 F_y t e^2}{d} = \frac{1.67(22)(1)(2\frac{1}{4})^2}{2.5} = 74^K > 63^K$ OK





THOMAS & BEERS

PROJECT SLUM-OONL ENGINEER FC DATE 1/97

SUBJECT SILO LUGS FILE NO. 542 SHEET 7 OF

FROM PREVIOUS SILO JOB

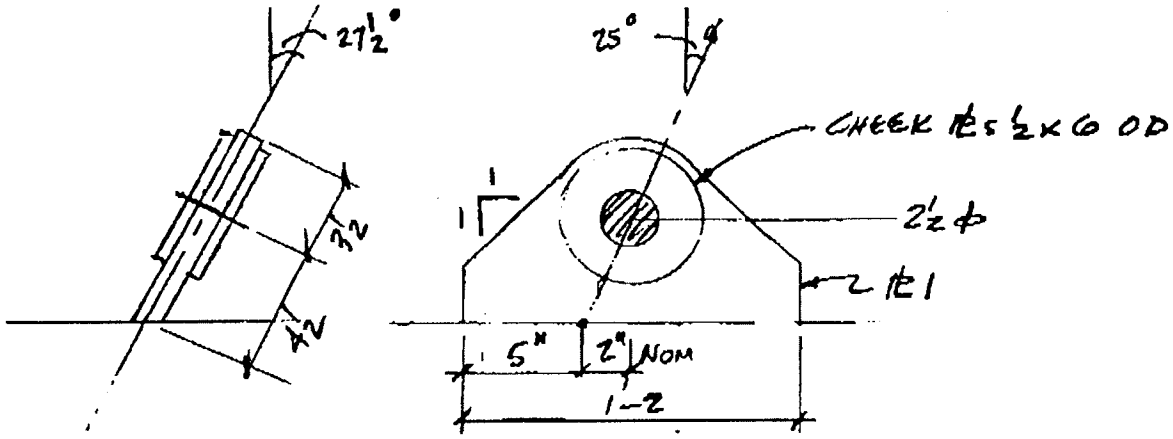
LUG AT BMS

Lug Tilt = $\tan^{-1}\frac{7.67}{15} = \tan^{-1}(.511) = 27.1°$ @ W24

" = $\frac{7.92}{15}$ = " $(.528) = 27.8°$ @ R GIRDERS

CABLE ⊥ ON LUG — $\sin^{-1}\left(\frac{7.92}{18.6}\right) = 25.2°$ @ W24

$\frac{7.67}{18.6} = 24.4°$ @ R GIRDERS



COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20639-01	S-62	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	com/pow
SUBSEQUENT REPORT ___	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1041776 y= 747990	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please See Attached

CONFIDENTIAL

APR 4
7111'6

RECEIVED
APR 22 1997
MINERALS MANAGEMENT SERVICE

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
Robert Fn John Deacon	970418

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 4/24/97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.
Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

S-62 13-3/8" Test Procedure

The original Sundry called for testing the 13-3/8" casing to 2000psi prior to drilling out cement. The Sundry filed 970403 called for testing the 13-3/8" casing prior to drilling out the Window. The test requuirement was inadvertently overlooked and the Window was drilled out. MMS was notified and we requested that we do the test after performing the leak off test at approximately 5416'. A bridge or packer will be ran to approximately 5200' and the casing will be tested to 2000psi as called for . Verbal approval of this procedure was given by Rishi Tyagi on 4/18/97.

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20639-01	S-62	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	com/pow
SUBSEQUENT REPORT ___	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1041776 y= 747990	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please See Attached. Verbal approval of this change was given by Kelly Sidiqui on 4/11/97.

APR 7 7/11 04

CONFIDENTIAL

APR 15 1997

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
	970403

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE APR 18 1997

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

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FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-62 DRILLING PROGRAM
REDRILL OF S-52
October 23,1996
Revised 4/11/97

After pulling the production tubing and equipment in the subject well an attempt was made to cut and pull the 9⅝" casing. Theoriginal Sundry Notice for this sidetrack called for cutting the 9⅝" casing at 6550' below the 13⅜" casing shoe at 6481'and sidetract below the 3⅜" casing shoe. The 9⅝" casing was not free and could not be recovered at that point. To date the 9⅝" casing has been recovered to a depth of 5450'. Attempts to recover additional casing below this depth have been unsuccessful. It is now planned to sidetrack the well above the 9⅝" casing spub at 5450' by milling a section in the 13⅜" casing. The following procedure replaces the drilling procedure filed with the original Sundry Notice approved 3/13/97 and will be used from this date forward. Step #8 below ties to Step # 13 of original drilling procedure and other than the depth of the point of sidetract does not change substantially from the original procedure. Verbal approval for this change was given by Kelly Sidiqui on 4/11/97.

TORCH OPERATING COMPANY

SANTA CLARA FIELD
PLATFORM GILDA
S-62 DRILLING PROGRAM
REDRILL OF S-52
October 23,1996
Revised 4/11/97

Proposed TD: 8592' TVD / 11204' MD

Surface Location: Slot No. 64
X= 1041776 Y= 747991

Subsurface Location: 5972' North and 1963' East of the surface location at 8592' TVD

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	VSS	TVD	MD	Est. Press.(psi)
LP-A	6351'	6458'	8223'	3100-3200
LP-B	6560'	6667'	8493'	3100-3200
LP-D	7106'	7213'	9171'	2200-2500
LP-K	7679'	7786'	9890'	4500-5000
LP-L	7880'	7987'	10189'	4500-5000
LP-M	8048'	8155'	10483'	4500-5000
LP-N	8328'	8435'	10925'	4500-5000

Existing Casing

20", 94#, X-56	0-726'
16", 75#, X-52	0-1750'
13 3/8", 68#, K-55, Butt.	0-6482'
9 5/8", 47#, N-80, Butt.	9052'-10774'
47#, S-95, Butt.	7876'-9052'
47#, N-80, LT&C	0-7876'
7", 29#, N-80, LT&C	10263'-13295'
3 ½", 9.3#, N-80, CS Hydril	11176'-13060'
Gravel Packed Inner Liner	

Perforations

11430'-11510'	11550'-11944'
12205'-12310'	12583'-12650'
12730'-12790'	12850'-12880'
13009'-13043'	

12 HPF, .68" Diameter

Sidetrack Procedure

1. Cut and recover 9⅝" casing at 5450.

2. RIH with spear and attempt to recover additional 9⅝" casing.

3. Section Mill a 50' window in the 13⅜" casing beginning 100' above the 9⅝" casing stub.

4. Underream the window to 18".

5. RIH with ± 400' of 2⅞" tubing stinger and drill pipe and place end of tubing 100' inside 9⅝" casing stub and place a 200' densified cement plug to 50' above the top of the window. Cement Slurry to be Class G +1.4%CD-32+.3% R-3+2gps FP-61, mixed at 17.2 ppg, with a .97 cf/sx yeild.

6. WOC and RIH with 12¼" bit , test 13⅜" casing to 2000psi, and polish off cement plug to top of window.

7. Sidetrack well out of window using steerable directional drilling assembly with Gamma Ray LWD tools.

8. Drill 15' of new formation. Perform a pressure integrity test at the bottom of the window to 13.5 ppg EMW. Treat the mud system for cement contamination. The mud system to be used through the openhole section will be seawater, SP-101 and pre-hydrated gel. Continue directionally drilling a 12 1/4" hole from the window' to 7780' TVD / 9845' MD. Exact casing point will be determined by the Geologist. The well will be drilled to near the top of the LP-K sand but well not penetrate the LP-K.

Note:

1) Do not drill into the LP-K sand Geologist to be on site to assure this.
2) Mud loggers to start upon drilling out the 13 3/8" casing.
3) See the attached drilling fluids program.

4) Review the attached directional program.
5) The 13 3/8" casing shoe had a 12.3 ppg EMW leak off test on the S-52 original well.
6) Run LWD Gamma Ray for correlation. Open hole will not be needed.

9. Run in the hole and circulate and condition the mud for running casing. Wipe the hole to the 13 3/8" casing shoe. String up the traveling blocks to 12 line. Run back to bottom and pull out of the hole.

10. Rig up casing crew and run the 9 5/8", 47#, N-80, Butt. casing from 9850' to surface as follows;

A) 9 5/8" Float Shoe
B) 2 jts. of 9 5/8" casing
C) 9 5/8" Float Collar
D) +/- 9770' of 9 5/8" casing

Note:

1) Centralizers to be placed one per joint for the first 1000', then every other joint to the top of cement (estimated 40 centralizers needed).
2) Thread lock the shoe and the next 2 collars.
3) Install a 9 5/8" landing hanger on the top joint of casing to land in the unitized head. Run the 9 5/8" casing on a landing joint.

11. With the casing on bottom, circulate the well a minimum of two casing volumes or until the mud returns are clean. Mix and pump cement per the attached program. Reciprocate the casing while circulating, mixing and displacing the cement. Displace the cement at a high pump rate (8 to 10 bbls/min). Bump the plug with 500 psi above the final circulating pressure and check the floats.

Note:

1) See the attached cementing program for slurry specifications.
2) The calculated top of cement will be at 7700' or +/- 500' above the top of the LP-A sand.

12. Waiting on cement then back out the landing joint. Run the 9 5/8" seal assembly on the running tool and landing joints and lock into the 13 5/8" wellhead. Test the 9 5/8" seal assembly to 1000 psi through the test ports.

13. Test BOPE and associated equipment to 250/ 4700 psi. Test the annular preventer to 250/ 3500 psi. Pressure test the casing against the blind rams to 4700 psi for 30 minutes.

14. Run and set the wear bushings.

15. Make up a 8 ½" bit and drilling assembly. Run in the hole and drill out the float collar and shoe and 5' of new formation. Run a leak off test at the 9 5/8" casing shoe. Continue drilling a 8 ½" hole to TD at 8592' TVD/11204' MD.

Note:

1) It will require a 14.2 ppg mud weight to drill the Lower Repetto formation. The LOT must be sufficient to hold the required mud weight.
2) Review the attached directional drilling program and targets requirements.
3) A low solids non dispersed saltwater drilling fluid will be used through the Lower Repetto formations. Keep the water loss to 6 cc or less and treat the mud for cement contamination (8.5 to 9.0 pH required). Drilling detergent (DMS) as well as additions of fresh pre-hydrated gel may be necessary to keep the hole in good condition. The 9 5/8" casing has been drilled out with 13.5 ppg mud weight and increased to +/- 14.2 ppg by the LP-K sand at 10483' MD. See the attached drilling fluids program.

16. Condition the hole at 11204' for electric logs. Rig up wireline with a lubricator and run a quad combo including DIL/SP/GR Neutron and Dipole Sonic from 11204' to 9850'. Rig down whirling.

17. Run in the hole and condition for running the 7" liner. Check rotating torque and string weight at total depth and with the BAH in the 9 5/8" casing shoe. Rig up casing crew and run 7", 29#, N-80, Hydra 521 liner as follows:

A) 7" Float Shoe
B) 1 jet. of 7" casing
C) 7" Float Collar
D) 1 jet. of 7" casing
E) 7" Landing Collar
F) +/- 1675' of 7" casing
G) Hydraulic Set, Rotating Liner Hanger w/ 10' Tie Back Extension

Note:

1) Run 7" by 8 ½" positive stand off centralizes with a stop ring on each side. Centralizes should be run on each joint across the openhole interval (estimated 35 centralizers needed).
2) Thread lock the shoe and the next two collars.

18. With the liner on bottom, drop the ball and set the liner hanger. Circulate the well a minimum of two liner volumes. Mix and pump cement as per the attached program. Rotate the liner while circulating, mixing and displacing the cement. Displace the cement at a high pump rate (8 to 10 bbls/min). Bump the plug and check the floats. Pull out of the hole and wait on cement.

Note: See the attached cementing program for the slurry specifications.

19. After waiting on cement, pick up a 8 ½" bit and clean out to the top of the liner. Pressure test the 7" by 9 5/8" liner lap to 2500 psi.

20. Pull out of the hole and pick up a 6" bit and run in the hole using a 3 ½" drill pipe stinger. Clean out the 7" liner to the landing collar. Pull out of the hole.

21. Release the rig to the production department.

COMPLETION PROCEDURE

22. Rig up wireline and run a CBL-VDL-GR Neutron log across the production interval. Squeeze cement for zone isolation if necessary.

23. Pick up a 6" bit and 7", 29# scraper and run in the hole to TD. Change the well over to 14.0 ppg CaBr completion fluid.

Note:

1) Change the well over to seawater and dump the returns overboard until clean.Pump caustic sweeps to clean up the wellbore. Change over to CaBr after the wellbore is clean.
2) Filter the CaBr completion fluid until clean through a DE and cartridge filter.

24. Perforate the zones of interest in the Lower Repetto interval. Run a 3 ½" SSWW liner and gravel pack using 16/30 gravel. The gravel packing operation will be conducted at above the fracture gradient of the well.

25. Run the production equipment and place the well on production.

26. Rig down and move to the next well.

TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : S-52 (S-62 RD2) (A1.2)

Field : OFFSHORE SANTA BARBARA Location : CALIFORNIA

BAKER HUGHES INTEQ

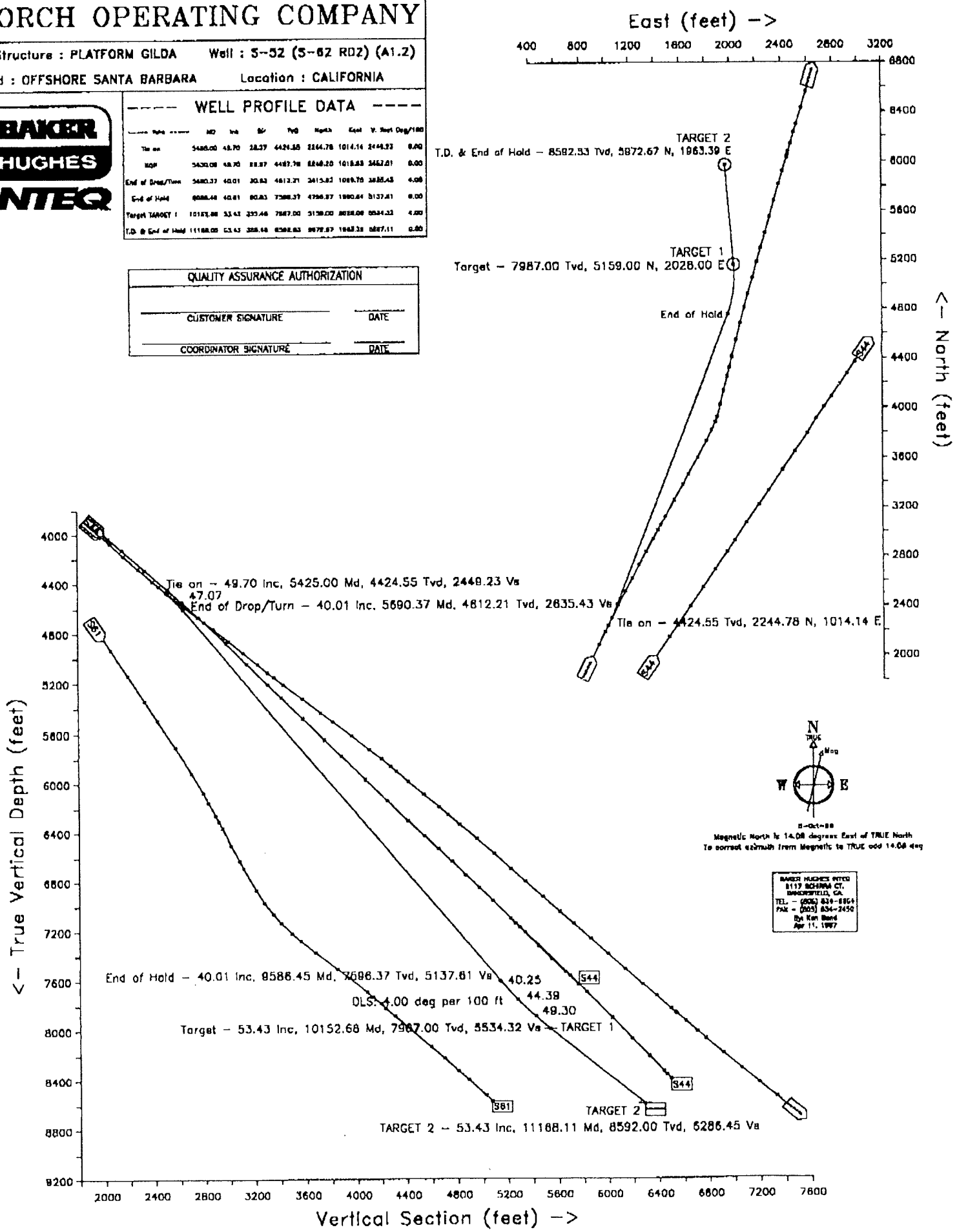
WELL PROFILE DATA

	MD	Inc	Dir	Tvd	North	East	V. Sect	Deg/100
Tie on	5425.00	49.70	28.27	4424.55	2244.78	1014.14	2448.23	0.00
KOP	5430.08	49.70	28.27	4427.78	2248.20	1016.53	2452.01	0.00
End of Drop/Turn	5690.37	40.01	30.83	4612.21	2415.83	1089.78	2635.43	4.00
End of Hold	8586.45	40.01	30.83	7598.37	4796.87	1990.64	5137.61	0.00
Target TARGET 1	10152.68	53.43	355.46	7987.00	5159.00	2028.00	5534.32	4.00
T.D. & End of Hold	11168.00	53.43	355.46	8592.53	5872.67	1963.39	6286.11	0.00

QUALITY ASSURANCE AUTHORIZATION

CUSTOMER SIGNATURE DATE

COORDINATOR SIGNATURE DATE



BAKER HUGHES INTEQ
5117 SCHIRRA CT.
BAKERSFIELD, CA.
TEL. – (805) 839-8804
FAX – (805) 834-2450
By: Ken Baird
Apr 11, 1997

TORCH OPERATING COMPANY
PLATFORM GILDA

S-52 (S-62 RD2) (A1.2)
slot #64
OFFSHORE SANTA BARBARA
CALIFORNIA

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : S-52 (S-62 RD2) (A1.2)
Our ref : prop2802
License :

Date printed : 12-Apr-97
Date created : 11-Apr-97
Last revised : 12-Apr-97

Field is centred on n34 10 56.434,w119 25 6.83
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.466,w119 25 6.317
Slot Grid coordinates are N 747990.889, E 1041776.180
Slot local coordinates are 3.20 N 43.10 E

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

TORCH OPERATING COMPANY
PLATFORM GILDA,S-52 (S-62 RD2) (A1.2)
OFFSHORE SANTA BARBARA,CALIFORNIA

PROPOSAL LISTING Page 1
Your ref : S-52 (S-62 RD2) (A1.2)
Last revised : 12-Apr-97

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
5425.00	49.70	26.27	4424.55	2244.78 N	1014.14 E	0.00	2449.23
5430.00	49.70	26.27	4427.78	2248.20 N	1015.83 E	0.00	2453.01
5500.00	47.07	24.98	4474.27	2295.38 N	1038.47 E	4.00	2504.89
5600.00	43.34	22.94	4544.71	2360.19 N	1067.32 E	4.00	2575.48
5690.37	40.01	20.83	4612.21	2415.92 N	1089.75 E	4.00	2635.43
5700.00	40.01	20.83	4619.58	2421.71 N	1091.95 E	0.00	2641.61
5800.00	40.01	20.83	4696.17	2481.79 N	1114.82 E	0.00	2705.83
5900.00	40.01	20.83	4772.77	2541.88 N	1137.68 E	0.00	2770.05
6000.00	40.01	20.83	4849.36	2601.97 N	1160.55 E	0.00	2834.28
6100.00	40.01	20.83	4925.96	2662.06 N	1183.42 E	0.00	2898.50
6200.00	40.01	20.83	5002.55	2722.14 N	1206.28 E	0.00	2962.72
6300.00	40.01	20.83	5079.14	2782.23 N	1229.15 E	0.00	3026.95
6400.00	40.01	20.83	5155.74	2842.32 N	1252.01 E	0.00	3091.17
6500.00	40.01	20.83	5232.33	2902.41 N	1274.88 E	0.00	3155.39
6600.00	40.01	20.83	5308.93	2962.49 N	1297.75 E	0.00	3219.62
6700.00	40.01	20.83	5385.52	3022.58 N	1320.61 E	0.00	3283.84
6800.00	40.01	20.83	5462.11	3082.67 N	1343.48 E	0.00	3348.06
6900.00	40.01	20.83	5538.71	3142.75 N	1366.35 E	0.00	3412.29
7000.00	40.01	20.83	5615.30	3202.84 N	1389.21 E	0.00	3476.51
7100.00	40.01	20.83	5691.90	3262.93 N	1412.08 E	0.00	3540.73
7200.00	40.01	20.83	5768.49	3323.02 N	1434.95 E	0.00	3604.96
7300.00	40.01	20.83	5845.09	3383.10 N	1457.81 E	0.00	3669.18
7400.00	40.01	20.83	5921.68	3443.19 N	1480.68 E	0.00	3733.40
7500.00	40.01	20.83	5998.27	3503.28 N	1503.55 E	0.00	3797.63
7600.00	40.01	20.83	6074.87	3563.37 N	1526.41 E	0.00	3861.85
7700.00	40.01	20.83	6151.46	3623.45 N	1549.28 E	0.00	3926.07
7800.00	40.01	20.83	6228.06	3683.54 N	1572.14 E	0.00	3990.30
7900.00	40.01	20.83	6304.65	3743.63 N	1595.01 E	0.00	4054.52
8000.00	40.01	20.83	6381.24	3803.71 N	1617.88 E	0.00	4118.74
8100.00	40.01	20.83	6457.84	3863.80 N	1640.74 E	0.00	4182.97
8200.00	40.01	20.83	6534.43	3923.89 N	1663.61 E	0.00	4247.19
8300.00	40.01	20.83	6611.03	3983.98 N	1686.48 E	0.00	4311.41
8400.00	40.01	20.83	6687.62	4044.06 N	1709.34 E	0.00	4375.64
8500.00	40.01	20.83	6764.21	4104.15 N	1732.21 E	0.00	4439.86
8600.00	40.01	20.83	6840.81	4164.24 N	1755.08 E	0.00	4504.08
8700.00	40.01	20.83	6917.40	4224.33 N	1777.94 E	0.00	4568.30
8800.00	40.01	20.83	6994.00	4284.41 N	1800.81 E	0.00	4632.53
8900.00	40.01	20.83	7070.59	4344.50 N	1823.68 E	0.00	4696.75
9000.00	40.01	20.83	7147.18	4404.59 N	1846.54 E	0.00	4760.97
9100.00	40.01	20.83	7223.78	4464.67 N	1869.41 E	0.00	4825.20
9200.00	40.01	20.83	7300.37	4524.76 N	1892.27 E	0.00	4889.42
9300.00	40.01	20.83	7376.97	4584.85 N	1915.14 E	0.00	4953.64
9400.00	40.01	20.83	7453.56	4644.94 N	1938.01 E	0.00	5017.87
9500.00	40.01	20.83	7530.15	4705.02 N	1960.87 E	0.00	5082.09
9586.45	40.01	20.83	7596.37	4756.97 N	1980.64 E	0.00	5137.61
9600.00	40.25	20.08	7606.73	4765.15 N	1983.69 E	4.00	5146.34
9700.00	42.21	14.79	7681.95	4828.00 N	2003.37 E	4.00	5212.19
9800.00	44.39	9.89	7754.75	4894.96 N	2017.96 E	4.00	5280.36
9900.00	46.76	5.38	7824.76	4965.71 N	2027.39 E	4.00	5350.52
10000.00	49.30	1.22	7891.64	5039.91 N	2031.62 E	4.00	5422.32

All data is in feet unless otherwise stated.
Coordinates from slot #64 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 6287.11 on azimuth 18.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 18.20 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDA,S-52 (S-62 RD2) (A1.2)
OFFSHORE SANTA BARBARA,CALIFORNIA

PROPOSAL LISTING Page 2
Your ref : S-52 (S-62 RD2) (A1.2)
Last revised : 12-Apr-97

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	
10100.00	51.97	357.37	7955.08	5117.18 N	2030.63 E	4.00	5495.41	
10152.68	53.43	355.46	7987.00	5159.00 N	2028.00 E	4.00	5534.32	TARGET 1
10200.00	53.43	355.46	8015.19	5196.88 N	2024.99 E	0.00	5569.37	
10300.00	53.43	355.46	8074.77	5276.93 N	2018.63 E	0.00	5643.44	
10400.00	53.43	355.46	8134.35	5357.01 N	2012.28 E	0.00	5717.51	
10500.00	53.43	355.46	8193.93	5437.07 N	2005.92 E	0.00	5791.58	
10600.00	53.43	355.46	8253.51	5517.13 N	1999.56 E	0.00	5865.65	
10700.00	53.43	355.46	8313.10	5597.19 N	1993.21 E	0.00	5939.72	
10800.00	53.43	355.46	8372.68	5677.25 N	1986.85 E	0.00	6013.79	
10900.00	53.43	355.46	8432.26	5757.31 N	1980.49 E	0.00	6087.86	
11000.00	53.43	355.46	8491.84	5837.37 N	1974.13 E	0.00	6161.93	
11168.11	53.43	355.46	8592.00	5971.97 N	1963.45 E	0.00	6286.45	TARGET 2
11169.00	53.43	355.46	8592.53	5972.67 N	1963.39 E	0.00	6287.11	

All data is in feet unless otherwise stated.
Coordinates from slot #64 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 6287.11 on azimuth 18.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 18.20 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDA,S-52 (S-62 RD2) (A1.2)
OFFSHORE SANTA BARBARA,CALIFORNIA

PROPOSAL LISTING Page 3
Your ref : S-52 (S-62 RD2) (A1.2)
Last revised : 12-Apr-97

Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
10152.68	7987.00	5159.00 N	2028.00 E	TARGET 1
11168.11	8592.00	5971.97 N	1963.45 E	TARGET 2

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
TARGET 1		7987.00	5159.00N	2028.00E	11-Apr-97
TARGET 2		8592.00	5972.00N	1963.00E	11-Apr-97

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date:

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20639-01	S-62	TORCH OPERATING CO.
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	P-0216	01099	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	com/pow
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
x= 1041776 y= 747990	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please See Attached Revision to original sidetrack Drilling Procedure

APR 10

7/150

CONFIDENTIAL

APR - 7 1997

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon as agent for TOC	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
	970403

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for District Supervisor

DATE 4-10-97

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C.3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control No.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herdon, VA 20070-4817; and Office of Management and Budget, Paperwork Project (OMB No. 1010-0045), Washington, DC 20503

FORM MMS-124 (September, 96) (Replaces Forms MMS-331 and MMS-332 which will not be used)

In the original Sundry it was planned to squeeze off the open perforations using a retainer set in the 7" liner at 11,150'. We have attempted to break down and pump into the open perforation with 2000 psi surface pressure and 10.6 ppg mud and were unable to pump in.

We now propose to isolate the open perforation by setting a 9-5/8" retainer/bridge plug at ±10,200' above the top of the 7" liner (10,263') and spotting a 100' cement plug on top of the retainer/bridge plug.

Revise Steps 5 and 6 of the original Drilling Procedure submitted with the Sundry approved 3/13/97 as follows:

5. Pick up a 9-5/8" 47# scraper and RIH to 10,240'. POOH. RIH with drill pipe-set Baker model 6AA Retainer/Bridge Plug at ±10,200'.

6. Spot 100' cement plug on top of retainer/BP. Cement Slurry: Class G + .15 gal/sx SD31L (dispersant) + 0.03 gal/sx L21L (retarder). Return to Step 7 of the original program.

Verbal approval for this change was given by Kelley Sidiqui with the MMS on 4/3/97.

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

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OMB No. 1010-0045
Expiration Date:

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20639-01	62 S-60	TORCH OPERATING CO. 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	P-0216	,01099

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	,4861	6B

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	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

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NAD 27 X NAD 83 ___	205	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

See Attached

CONFIDENTIAL

MAR 13
7/089

RECEIVED

26. CONTACT NAME	27. TELEPHONE NUMBER
Jim Martin	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
John M. Deacon	ES&RC Manager
30. AUTHORIZING SIGNATURE	31. DATE
	,11/13/96

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/13/97

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

OSC-P0216
PLATFORM GILDA
WELL S-62
LOCATION OF WELL

AT SURFACE:	8016 FWL & 3511 FSL of OCS- P-0216
Lambert Cal 6 Coordinates	X=1041776 Y= 747991
KICKOFF POINT:	5092' TVD / 6500' MD 9508 FWL & 6459 FSL of OCS- P-0216
Lambert Cal 6 Coordinates	X=1043268 Y= 750939
TARGET NO. 1: LP-L SAND	7987' TVD / 10189' MD 10200 FWL & 8606 FSL of OCS-P-0216
Lambert Cal 6 Coordinates	X=1043960 Y= 753086
BOTTOM HOLE LOCATION:	8592' TVD / 11204' MD 10160 FWL & 9421 FSL of OCS-P-0216
Lambert Cal 6 Coordinates	X=1043920 Y= 753901

TORCH OPERATING COMPANY

SANTA CLARA FIELD
62 PLATFORM GILDA
~~S-60~~ DRILLING PROGRAM
REDRILL OF S-52
October 23,1996

Proposed TD: 8592' TVD / 11204' MD

Surface Location: Slot No. 64
X= 1041776 Y= 747991

Subsurface Location: 5972' North and 1963' East of the surface location at 8592' TVD

Elevation: 205' WD, 107' Above MLLW, 312' KB

Markers	VSS	TVD	MD	Est. Press.(psi)
LP-A	6351'	6458'	8223'	3100-3200
LP-B	6560'	6667'	8493'	3100-3200
LP-D	7106'	7213'	9171'	2200-2500
LP-K	7679'	7786'	9890'	4500-5000
LP-L	7880'	7987'	10189'	4500-5000
LP-M	8048'	8155'	10483'	4500-5000
LP-N	8328'	8435'	10925'	4500-5000

Existing Casing

20", 94#, X-56	0-726'
16", 75#, X-52	0-1750'
13 3/8", 68#, K-55, Butt.	0-6482'
9 5/8", 47#, N-80, Butt.	9052'-10774'
47#, S-95, Butt.	7876'-9052'
47#, N-80, LT&C	0-7876'
7", 29#, N-80, LT&C	10263'-13295'
3 ½", 9.3#, N-80, CS Hydril	11176'-13060'
Gravel Packed Inner Liner	

Perforations

11430'-11510'	11550'-11944'
12205'-12310'	12583'-12650'
12730'-12790'	12850'-12880'
13009'-13043'	

12 HPF, .68" Diameter

Drilling Procedure

1. MIRU wireline. Pull Otis "QLP" SSSV from 539'. Open the "XA" sleeve @ 11110' and change the well over to seawater. Bleed the well down to the production system.

2. Skid the rig over slot #64, well S-52.

3. Check tubing and casing pressure and circulate kill weight mud if necessary. Reservoir pressure is estimated to be 4700 psi which may require a 10.6 ppg mud. Install a BPV and nipple down the tree. Nipple up a 13 5/8", Class IV, 5M BOPE. Test the pipe and blind rams to 250/4700 psi and the annular preventer to 250/3500 psi in accordance with Field Rules and MMS regulations.

4. Unsting from the SC-1 packer at 11176' and circulate the well with kill weight mud. Pull and lay down the production equipment.

5. Pick up a 7", 29# scraper and run in the hole to 11150'. Pull out of the hole and lay down the scraper. Pick up a 7", 29# cement retainer and run in the hole. Set the retainer at 11150'.

6. With the stinger stabbed into the retainer establish a breakdown rate and pressure. Abandon the existing production interval by down squeezing cement (100 cu. ft.) through the retainer and balancing a 50 cu. ft. cement plug on top of the retainer. Pull above the top of the cement and circulate clean. Pressure test the casing to 2000 psi. Pull out of the hole.

Note: See the attached cement program for the abandonment slurry.

7. Make up a 9 5/8" hydraulic casing cutter and run in the hole to 6550' (69' below the shoe of the 13 3/8" casing). Cut the 9 5/8" casing at 6550'. Pull the tools above the cut,

shut in on the pipe rams and attempt to establish circulation between the 9 5/8" and 13 3/8" annulus. Pull out of the hole and lay down the casing cutter.

8. Check the pressure on the 9 5/8" by 13 3/8" annulus. Make up 9 5/8" Spear and spear into the 9 5/8" casing. Backout packoff hold down screws. Attempt of pull 9 5/8" casing, 13 3/8" x 9 5/8" packoff and casing hanger. If unable to pull casing Rig up Dia Log and run a free point tool. Review the free point results with the Drilling Engineer to determine next cut point. Set casing back down on hanger and release spear and POOH after determining free point. RIH and cut casing at free point depth and pull 9 5/8" casing using spear.

Note: The estimated top of cement on the S-52 well for the 9 5/8" casing is at 8250'.

9. If casing is cut above 6550' Make up a 9 5/8" spear, bumper sub, jars and drill collars or other necessary fishing tools (wash pipe) and run in the hole. Recover the 9 5/8" casing from 6550'.

Note:

1) Have a surface casing cutter or hydraulic saw to use on the casing if the high torque casing tongs fail to break the connections.

10. Pick up a 12 1/4" bit and run in the hole and clean out to 6550'. Circulate and condition the hole. Pull out of the hole.

11. Run in the hole with a 18" hole opener and open the hole from 6481' to 6550'. Pull out of the hole and lay down the hole opener.

12. Pick up a 2 7/8" tubing stinger and run in the hole. Balance a cement plug from 100' below the under reamed section, across the section and 100' into the 13 3/8" casing.

Note: See the attached cementing program for the slurry specifications. A high density cement slurry (17.0 ppg) will be used for the kick off plug.

13. After waiting on cement run in the hole with a 12 1/4" bit. Test the 13 3/8" casing to 2000 psi then polish off the cement plug to 6500'. Pull out of the hole and pick up a steerable directional drilling assembly with Gamma Ray LWD. Run in the hole to the kickoff plug and drill 15' of new formation. Perform a pressure integrity test at the shoe to 13.5 ppg EMW. Treat the mud system for cement contamination. The mud system to be used through the openhole section will be seawater, SP-101 and pre-hydrated gel. Continue directionally drilling a 12 1/4" hole from 6500' to 7780' TVD / 9845' MD. Exact casing point will be determined by the Geologist. The well will be drilled to near the top of the LP-K sand but well not penetrate the LP-K.

Note:

1) Do not drill into the LP-K sand Geologist to be onsite to assure this.
2) Mud loggers to start upon drilling out the 13 3/8" casing.
3) See the attached drilling fluids program.
4) Review the attached directional program.
5) The 13 3/8" casing shoe had a 12.3 ppg EMW leak off test on the S-52 original well.
6) Run LWD Gamma Ray for correlation. Open hole will not be needed.

14. Run in the hole and circulate and condition the mud for running casing. Wipe the hole to the 13 3/8" casing shoe. String up the traveling blocks to 12 line. Run back to bottom and pull out of the hole.

15. Rig up casing crew and run the 9 5/8", 47#, N-80, Butt. casing from 9850' to surface as follows;

A) 9 5/8" Float Shoe
B) 2 jts. of 9 5/8" casing
C) 9 5/8" Float Collar
D) +/- 9770' of 9 5/8" casing

Note:

1) Centralizers to be placed one per joint for the first 1000', then every other joint to the top of cement (estimated 40 centralizers needed).
2) Thread lock the shoe and the next 2 collars.
3) Install a 9 5/8" landing hanger on the top joint of casing to land in the unitized head. Run the 9 5/8" casing on a landing joint.

16. With the casing on bottom, circulate the well a minimum of two casing volumes or until the mud returns are clean. Mix and pump cement per the attached program. Reciprocate the casing while circulating, mixing and displacing the cement. Displace the cement at a high pump rate (8 to 10 bbls/min). Bump the plug with 500 psi above the final circulating pressure and check the floats.

Note:

1) See the attached cementing program for slurry specifications.
2) The calculated top of cement will be at 7700' or +/- 500' above the top of the LP-A sand.

17. Waiting on cement then back out the landing joint. Run the 9 5/8" seal assembly on the running tool and landing joints and lock into the 13 5/8" wellhead. Test the 9 5/8" seal assembly to 1000 psi through the test ports.

18. Test BOPE and associated equipment to 250/ 4700 psi. Test the annular preventer to 250/ 3500 psi. Pressure test the casing against the blind rams to 4700 psi for 30 minutes.

19. Run and set the wear bushings.

20. Make up a 8 ½" bit and drilling assembly. Run in the hole and drill out the float collar and shoe and 5' of new formation. Run a leak off test at the 9 5/8" casing shoe. Continue drilling a 8 ½" hole to TD at 8592' TVD/11204' MD.

Note:

1) It will require a 14.2 ppg mud weight to drill the Lower Repetto formation. The LOT must be sufficient to hold the required mud weight.
2) Review the attached directional drilling program and targets requirements.
3) A low solids non dispersed saltwater drilling fluid will be used through the Lower Repetto formations. Keep the water loss to 6 cc or less and treat the mud for cement contamination (8.5 to 9.0 pH required). Drilling detergent (DMS) as well as additions of fresh pre-hydrated gel may be necessary to keep the hole in good condition. The 9 5/8" casing has been drilled out with 13.5 ppg mud weight and increased to +/- 14.2 ppg by the LP-K sand at 10483' MD. See the attached drilling fluids program.

21. Condition the hole at 11204' for electric logs. Rig up wireline with a lubricator and run a quad combo including DIL/SP/GR Neutron and Dipole Sonic from 11204' to 9850'. Rig down wireline.

22. Run in the hole and condition for running the 7" liner. Check rotating torque and string weight at total depth and with the BHA in the 9 5/8" casing shoe. Rig up casing crew and run 7", 29#, N-80, Hydril 521 liner as follows:

A) 7" Float Shoe
B) 1 jt. of 7" casing
C) 7" Float Collar
D) 1 jt. of 7" casing
E) 7" Landing Collar
F) +/- 1675' of 7" casing
G) Hydraulic Set, Rotating Liner Hanger w/ 10' Tie Back Extension

Note:

1) Run 7" by 8 ½" positive stand off centralizers with a stop ring on each side. Centralizers should be run on each joint across the openhole interval (estimated 35 centralizers needed).
2) Thread lock the shoe and the next two collars.

23. With the liner on bottom, drop the ball and set the liner hanger. Circulate the well a minimum of two liner volumes. Mix and pump cement as per the attached program.

Rotate the liner while circulating, mixing and displacing the cement. Displace the cement at a high pump rate (8 to 10 bbls/min). Bump the plug and check the floats. Pull out of the hole and wait on cement.

Note: See the attached cementing program for the slurry specifications.

24. After waiting on cement, pick up a 8 ½" bit and clean out to the top of the liner. Pressure test the 7" by 9 5/8" liner lap to 2500 psi.

25. Pull out of the hole and pick up a 6" bit and run in the hole using a 3 ½" drill pipe stinger. Clean out the 7" liner to the landing collar. Pull out of the hole.

26. Release the rig to the production department.

COMPLETION PROCEDURE

27. Rig up wireline and run a CBL-VDL-GR Neutron log across the production interval. Squeeze cement for zone isolation if necessary.

28. Pick up a 6" bit and 7", 29# scraper and run in the hole to TD. Change the well over to 14.0 ppg CaBr completion fluid.

Note:

1) Change the well over to seawater and dump the returns overboard until clean.Pump caustic sweeps to clean up the wellbore. Change over to CaBr after the wellbore is clean.
2) Filter the CaBr completion fluid until clean through a DE and cartridge filter.

29. Perforate the zones of interest in the Lower Repetto interval. Run a 3 ½" SSWW liner and gravel pack using 16/30 gravel. The gravel packing operation will be conducted at above the fracture gradient of the well.

30. Run the production equipment and place the well on production.

31. Rig down and move to the next well.

TCHS60.WPD

OCS-P0216
PLATFORM GILDA
WELL S-62
CASING DESIGN

13 3/8" CASING

Effective Setting Depth (KOP) = 6482' MD / 5074' TVD

Existing Casing: 13 3/8", 68#, K-55, Butt.
Estimated Top of Cement: Surface

Collapse

Original mud weight for the 13 3/8" casing interval is 10.2 ppg.
Maximum collapse pressure is during cementing.

P_c = (2597') (12.5-10.2 ppg) (.052) + (2500') (15.8-10.2 ppg) (.052) = 1035 psi

S_F = 1950 psi / 1035 psi = 1.88

Burst

Burst with gas to surface for BHP of 3200 psi
WHP = 2880 psi

S_F = 3450 psi / 2880 psi = 1.20

Tensile

N/A (already set and cemented)

9 5/8" Casing

Effective setting depth is 9850' MD / 7786' TVD

Casing: 9 5/8", 47#, N-80, BTRC
Estimated top of cement is at +/- 7700' MD.

Collapse

Mud weight for the 9 5/8" casing interval is 11.2 ppg.

P_C = (7786') (11.2 ppg) (.052) = 4534 psi

S_F = 4750 psi / 4534 psi = 1.05

Burst

Maximum anticipated WHP with gas to surface is 2421 psi assuming a 0.1 psi / ft gas gradient with a BHP of 3200 psi.

S_F = 6870 psi / 2421 psi = 2.84

Tensile

Buoy Weight = (47) (9850') (.8289) = 383739#
w/ 11.2 ppg drilling mud

9 5/8", 47#, N-80, Butt. Joint = 1161000#
Body = 1086000#

S_{FJT} = 1161000# / 383739# = 3.02

S_{FB} = 1086000# / 383739# = 2.83

Maximum Overpull w/ Safety Factor

Jt. = 1161000# / 2 - 383739# = 196761#

7" Liner from 11204' to 9450'

Effective Setting Depth is 11204' MD / 8592' TVD

Liner: 7", 29#, N-80, Hydril 521

Collapse

Maximum mud weight for the 7" liner interval is 14.2 ppg.

P_C = (8592') (14.2 ppg) (.052) = 6344 psi

S_{FC} = 7020 psi / 6344 psi = 1.10

Burst

Anticipated BHP of 5000 psi with a maximum anticipated WHP with .1 psi / ft gas is 4150 psi.

S_{FB} = 8160 psi / 5000 psi = 1.63

Tensile

The 7" will be run as a liner, therefore tensile will not be a factor.

OCS-P-0216
PLATFORM GILDA
WELL S-62
CEMENT SLURRY DESIGN

PLUG AND ABANDONMENT SLURRY

Class G w/ .5% CD-32, .3% R3, 1% FL-62, 2 ghs FP-6L
Mix Weight: 15.83 ppg
Yield: 1.16 CF/SK

KICKOFF PLUG

Class G w/ 1.4% CD-32, .3% R-3, 2ghs FP-6L
Mix Weight: 17.2 ppg
Yield: .97 CF/SK

9 5/8" CASING SLURRY

Lead Slurry: Class G w/ 2% A-2, 1% FL-62, .5% CD-32, 2 ghs FP-6L
Mix Weight: 12.5 ppg
Yield: 2.19 CF/SK

Tail Slurry: Class G w/ .9% CD-32, .1% R3, 1.2% FL-62, 3% KCL, 2 ghs FP-6L
Mix Weight: 15.83 ppg
Yield: 1.18 CF/SK

The 9 5/8' will be cemented from 9850' to 500' above the LP-A sand or +/- 7700'.

7" LINER SLURRY

Class G w/ .9% CD-32, .3% R3, 1.2% FL-62, 5% KCL, 2 ghs FP-6L
Mix Weight: 15.83
Yield: 1.19 CF/SK

The 7" liner will be cemented from 11204' to 9450' which is 400' inside the 9 5/8" casing.

OCS-P0216
PLATFORM GILDA
WELL S-62
PROPOSED LOGGING PROGRAM

Measurement While Drilling

Interval (MD)	
6500' - 9850'	Gamma Ray

Electric Logs

Interval (MD)	
9850' - 11204'	DIL/GR/CNL/Density & Di Pole Sonic

Mud Logs

Interval (MD)	
6500' - 11204'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

OCS P-0216
PLATFORM GILDA
WELL S-062
BOP Program

13 3/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 4700 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi
9 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 4700 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi
7"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 4700 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation and at 7 day intervals between future tests.

OCS-P0216
PLATFORM GILDA
WELL S-62
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position tool joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close the choke line, install the kelly and open the safety valve.
7. Read the shut in casing and drill pipe pressure.
8. Pump sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP below 1000 psi.
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure (if the casing pressure rises above 2500 psi repeat steps 1-11).
12. Once on bottom follow the normal kill procedure.

Torch Operating Co.
Santa Clara Unit
California

Platform Gilda
Well #S-60
OCS P-0216

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	FLUID LOSS (cc 30 min)	MUD COMPONENTS
Mudline - 750'	Minimum	100+	N/C	
6481'-9850'	10.0-12.5	45-55	6-8 cc	Seawater Gelite Soda Ash Dril-Kleen SP-101 Barite Soltex
9850'-11,204	14.1-14.6	40-45	5-7 cc	Seawater Gelite SP-101 Soda Ash Barite Soltex Dril-Kleen

DISCUSSION:

When ready to drill ahead, changeover to a pre-mixed 10.0 ppg seawater/Gelite-SP-101.

Gradually increase the mud weight while drilling ahead. Have the entire system weighted up to 12.0 ppg by ~~????~~ 8200 MD (top of the LPA is projected to be around ~~????~~ 8553 MD.

Closely monitor the well for gas while drilling ahead - a higher mud weight might be required sooner (especially if shallow gas).

Differential sticking is a potential problem in this interval, especially in the Pico sands. A concentration of 3 lbs/bbl of Soltex is recommended to be maintained in the system at all times, especially before weighing up the mud to 12.0 ppg.

Add fresh Gelite to the system to help build and maintain a filter cake on the wellbore. SP-101 should be added to control the API fluid loss in the 6-8 cc range. Soltex will also assist with the HTHP.

Keep 80 to 100 barrels of a spotting fluid on the platform for differential stuck pipe. We recommend Pipelax ENV.

Soda Ash should be added to keep the Calcium level below 200 Mg/L. This will help the effectiveness of the SP-101 and other chemicals.

Process all the fluid through the finest mesh shaker screens possible. We recommend the use of a flowline cleaner. Run at least a 200 mesh screen on the mud cleaner. Dilute to control the buildup of fine drilled solids.

Barite should be used to maintain the proper mud density.

Use Dril-Kleen to control bit balling.

Drill 12-1/2" hole to 6481'.

Torch Operating Co.
Santa Clara Unit
California

Platform Gilda
Well #S-[redacted]62
OCS P-0216

DISCUSSION BY INTERVAL

INTERVAL: 6481' - 9850' (12-1/4" hole for 9-5/8" casing)

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Spaonite)	18-22 ppb
Soda Ash ($NaCO_3$)	2-4 ppb loss control
SP-101	1.5-2.0 PPB
Soltex	3.0 ppb if needed
Barite (Barium Sulfate)	as needed
Dril Kleen	as needed

RECOMMENDED MUD SPECIFICATIONS:

Density	10.0 - 12.5
Viscosity	40-45 sec/qt
PV	19-25
YP	8 - 14
Gels	6 - 15
Fluid Loss	6 - 8
HTHP	Below 35
pH	8.5 - 9.5±
T.H. as Ca++	200 ppm or less
MBT	20+

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate out a small intrusion
    b) Raise mud weight if necessary

2. Kick
    a) Prevention. Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking
    a) Maintain a low fluid loss.
    b) Maintain 3 - 6 ppb of Soltex in the system.

4. Tight hole
    a) Wipe the hole.
    b) Reduce the fluid loss if necessary

5. Solids build up
    a) Run all applicable solids control equipment
    b) Dilute

6. Foaming
    a) Use Defoam X
    b) Add fresh Gelite

Torch Operating Co.
Santa Clara Unit
California

Platform Gilda
Well #S-[redacted] 62
OCS P-0216

DISCUSSION BY INTERVAL

INTERVAL: 9850' - 11,204' (8-1/2" hole for 7" casing)

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	15-17 ppb
Soda Ash ($NaCO_3$)	2-4 ppb Loss Control
SP-101	1.5 - 2.0 ppb
Soltex	3-5 ppb
Barite (Barium Sulfate)	as needed to maintain proper mud wt.
Tannathin	as needed
Dril Kleen	as needed

RECOMMENDED MUD SPECIFICATIONS:

Density	14.0 - 14.6
Viscosity	40 - 45 sec/qt
PV	15 - 25
YP	8 - 14
Gels	6 - 15
Fluid Loss	6 - 8 cc
HTHP	Below 35
pH	8.5 - 9.5±
T.H. as Ca^{++}	200 ppm or less
MBT	20 +

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate out a small intrusion
    b) Raise mud weight if necessary

2. Kick
    a) Prevention. Maintain good drilling practices. Keep the hole full - don't swab on trips. Run the proper density (14.1 or above).
    b) Shut-in well. Raise mud weight.

3. Differential Sticking
    a) Maintain a low fluid loss.
    b) Maintain 4 - 6 ppb of Soltex in the system.

4. Tight hole
    a) Wipe the hole.
    b) Reduce the fluid loss if necessary

5. Solids build up
    a) Run all applicable solids control equipment - small as screens as possible.
    b) Dilute

6. Foaming
    a) Use Defoam X
    b) Add fresh Gelite

7. Stuck Pipe
    a) spot pipelax env

DISCUSSION:

Pretreat the mud with Bicarb before drilling out cement. Make sure the calcium level is below 200 mg/L. (If possible drill out as much cement as possible with seawater and then change back over to the seawater / Gelite / SP-101.)

Condition the mud to drill ahead. Raise the mud to 14.1 pg before drilling ahead.

Make sure there is a minimum of 4 ppb of Soltex in the fluid before drilling ahead as a precaution against differential sticking.

When drilling ahead add SP-101 to control the API fluid loss in the 5 + 7 cc range. Tannathin could also be added as a supplementary agent to lower the fluid loss and help seal the wellbore. Continue to add fresh gelite to the system to build and maintain the filter cake. Use Soda Ash to keep the calcium level below 200 Mg/L.

Keep the mud weight at 14.1 or above (depending on hole and well conditions) with Barite. Pipelax ENV should be used in the event of stuck pipe.

Drill the 8-1/2" hole to TD (11,204')

Barite should be used to maintain the proper mud density.

Use Dril-Kleen to control bit balling.

Drill 12-1/2" hole to TD 5585' (TVD 5414').

TORCH OPERATING COMPANY
PLATFORM GILDA

S-62 RD2
slot #64
DOS CUADRAS EAST
CALIFORNIA

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : S-62 RD2
Our ref : svy9840
License :

Date printed : 15-May-97
Date created : 25-Apr-97
Last revised : 15-May-97

Field is centred on 987642.000,803937.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.466,w119 25 6.317
Slot Grid coordinates are N 747990.889, E 1041776.180
Slot local coordinates are 3.20 N 43.10 E

Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

TORCH OPERATING COMPANY
PLATFORM GILDASOUTH BLOCK,S-62 RD2
DOS CUADRAS EAST,CALIFORNIA

SURVEY LISTING Page 1
Your ref : S-62 RD2
Last revised : 15-May-97

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
700.00	1.00	252.70	699.96	1.82 S	5.83 W	0.14	-3.54
1010.00	0.50	60.00	1009.95	1.94 S	7.24 W	0.48	-4.11
1201.00	0.75	120.00	1200.94	2.15 S	5.44 W	0.35	-3.74
1302.00	0.75	208.00	1301.94	3.07 S	5.18 W	1.03	-4.53
1427.00	2.75	24.00	1426.90	1.05 S	4.34 W	2.80	-2.35
1522.00	6.00	28.00	1521.61	5.42 N	1.08 W	3.43	4.81
1848.00	14.00	15.60	1842.43	58.53 N	17.55 E	2.53	61.09
1942.00	15.70	21.20	1933.29	81.35 N	25.21 E	2.36	85.15
2037.00	18.60	18.70	2024.06	107.69 N	34.72 E	3.15	113.14
2131.00	21.60	22.60	2112.33	137.87 N	46.18 E	3.49	145.39
2223.00	25.00	26.50	2196.82	170.91 N	61.36 E	4.06	181.52
2408.00	32.70	20.80	2358.76	252.75 N	96.61 E	4.42	270.27
2502.00	36.60	22.60	2436.08	302.38 N	116.41 E	4.29	323.60
2593.00	40.70	23.60	2507.13	354.63 N	138.72 E	4.56	380.20
2685.00	44.90	24.00	2574.62	411.81 N	163.95 E	4.57	442.40
2748.00	48.10	25.00	2617.98	453.38 N	182.90 E	5.21	487.81
2817.00	49.00	23.60	2663.66	500.52 N	204.18 E	2.00	539.23
2910.00	48.70	26.50	2724.86	563.95 N	233.82 E	2.37	608.73
3064.00	48.40	24.00	2826.81	668.33 N	283.06 E	1.23	723.26
3218.00	48.20	24.30	2929.26	773.25 N	330.10 E	0.19	837.62
3372.00	47.90	24.30	3032.21	877.64 N	377.23 E	0.19	951.49
3526.00	47.60	24.00	3135.75	981.65 N	423.87 E	0.24	1064.86
3682.00	47.20	24.30	3241.34	1086.43 N	470.85 E	0.29	1179.07
3836.00	46.60	24.30	3346.57	1188.91 N	517.12 E	0.39	1290.87
3990.00	46.40	24.30	3452.57	1290.72 N	563.09 E	0.13	1401.93
4144.00	46.20	24.70	3558.97	1392.04 N	609.26 E	0.23	1512.59
4270.00	46.20	24.70	3646.18	1474.66 N	647.26 E	0.00	1602.94
4394.00	46.20	24.70	3732.01	1555.97 N	684.66 E	0.00	1691.86
4550.00	46.80	24.70	3839.39	1658.77 N	731.95 E	0.38	1804.28
4707.00	47.30	25.40	3946.36	1762.88 N	780.61 E	0.46	1918.36
4892.00	47.50	25.40	4071.58	1885.89 N	839.02 E	0.11	2053.45
5048.00	48.10	26.10	4176.37	1989.98 N	889.23 E	0.51	2168.00
5203.00	48.60	26.10	4279.38	2093.99 N	940.18 E	0.32	2282.71
5300.00	49.10	26.10	4343.21	2159.58 N	972.31 E	0.51	2355.05
5388.00	45.60	26.70	4402.83	2217.54 N	1001.08 E	4.01	2419.10
5482.00	42.00	19.00	4470.71	2277.34 N	1026.43 E	6.84	2483.82
5544.00	41.40	17.20	4517.00	2316.54 N	1039.25 E	2.16	2525.06
5607.00	40.40	20.10	4564.63	2355.62 N	1052.42 E	3.41	2566.29
5669.00	40.30	20.80	4611.88	2393.23 N	1066.45 E	0.75	2606.40
5730.00	40.30	20.80	4658.40	2430.11 N	1080.46 E	0.00	2645.82
5792.00	40.60	21.50	4705.58	2467.63 N	1094.97 E	0.88	2685.99
5854.00	40.70	22.20	4752.62	2505.11 N	1110.01 E	0.75	2726.29
5917.00	40.70	22.50	4800.38	2543.11 N	1125.63 E	0.31	2767.26
5979.00	41.00	21.50	4847.28	2580.71 N	1140.82 E	1.16	2807.72
6040.00	41.00	21.50	4893.32	2617.94 N	1155.48 E	0.00	2847.68
6103.00	40.90	21.10	4940.90	2656.41 N	1170.48 E	0.45	2888.90
6174.00	40.90	21.10	4994.57	2699.78 N	1187.22 E	0.00	2935.33
6236.00	40.60	21.50	5041.54	2737.49 N	1201.92 E	0.64	2975.74
6297.00	40.70	21.80	5087.82	2774.42 N	1216.58 E	0.36	3015.40

All data is in feet unless otherwise stated.
Coordinates from slot #64 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 6299.99 on azimuth 18.16 degrees from wellhead.
Vertical section is from wellhead on azimuth 18.16 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect
6360.00	40.30	22.50	5135.72	2812.32 N 1232.00 E	0.96	3056.22
6422.00	40.40	21.80	5182.97	2849.50 N 1247.14 E	0.75	3096.26
6485.00	40.80	21.50	5230.81	2887.61 N 1262.26 E	0.71	3137.19
6548.00	40.80	21.80	5278.50	2925.87 N 1277.45 E	0.31	3178.27
6609.00	40.70	22.20	5324.71	2962.79 N 1292.37 E	0.46	3218.00
6670.00	40.90	21.80	5370.89	2999.74 N 1307.30 E	0.54	3257.77
6732.00	41.00	21.10	5417.71	3037.56 N 1322.16 E	0.76	3298.34
6795.00	40.90	20.10	5465.30	3076.21 N 1336.69 E	1.05	3339.59
6858.00	40.40	20.10	5513.09	3114.75 N 1350.79 E	0.79	3380.61
6921.00	40.80	20.10	5560.93	3153.25 N 1364.88 E	0.63	3421.58
6982.00	40.80	20.10	5607.11	3190.68 N 1378.58 E	0.00	3461.42
7045.00	40.70	20.40	5654.83	3229.27 N 1392.81 E	0.35	3502.52
7108.00	41.00	20.80	5702.49	3267.84 N 1407.31 E	0.63	3543.69
7171.00	40.60	21.10	5750.18	3306.28 N 1422.03 E	0.71	3584.80
7233.00	39.60	21.80	5797.60	3343.45 N 1436.63 E	1.77	3624.67
7295.00	39.20	22.50	5845.51	3379.90 N 1451.47 E	0.96	3663.93
7358.00	39.40	22.90	5894.26	3416.71 N 1466.86 E	0.51	3703.71
7421.00	39.20	22.90	5943.02	3453.47 N 1482.39 E	0.32	3743.47
7484.00	38.80	23.20	5991.98	3489.95 N 1497.91 E	0.70	3782.97
7546.00	38.80	23.20	6040.29	3525.66 N 1513.22 E	0.00	3821.67
7609.00	39.60	22.50	6089.12	3562.35 N 1528.68 E	1.45	3861.36
7672.00	39.70	23.20	6137.62	3599.40 N 1544.29 E	0.73	3901.42
7733.00	39.90	22.50	6184.49	3635.38 N 1559.45 E	0.80	3940.34
7794.00	40.20	21.10	6231.18	3671.82 N 1574.03 E	1.56	3979.51
7858.00	40.20	21.80	6280.07	3710.27 N 1589.13 E	0.71	4020.75
7920.00	40.30	21.80	6327.39	3747.46 N 1604.01 E	0.16	4060.73
7982.00	40.70	22.20	6374.53	3784.80 N 1619.09 E	0.77	4100.90
8045.00	40.60	21.50	6422.33	3822.89 N 1634.37 E	0.74	4141.86
8106.00	40.60	21.10	6468.65	3859.88 N 1648.79 E	0.43	4181.49
8170.00	40.90	21.80	6517.13	3898.76 N 1664.06 E	0.85	4223.20
8231.00	41.60	21.50	6562.99	3936.14 N 1678.90 E	1.19	4263.35
8292.00	42.50	21.80	6608.29	3974.11 N 1693.98 E	1.51	4304.13
8354.00	42.70	22.20	6653.93	4013.02 N 1709.70 E	0.54	4346.00
8416.00	41.70	22.20	6699.86	4051.58 N 1725.43 E	1.61	4387.54
8479.00	41.20	22.20	6747.08	4090.20 N 1741.19 E	0.79	4429.14
8542.00	41.30	22.50	6794.44	4128.61 N 1756.99 E	0.35	4470.57
8604.00	41.30	22.90	6841.02	4166.36 N 1772.78 E	0.43	4511.36
8666.00	41.10	22.90	6887.67	4203.98 N 1788.67 E	0.32	4552.06
8728.00	41.10	23.20	6934.39	4241.49 N 1804.63 E	0.32	4592.67
8791.00	41.00	23.20	6981.90	4279.51 N 1820.93 E	0.16	4633.88
8853.00	41.30	23.20	7028.59	4317.01 N 1837.00 E	0.48	4674.52
8916.00	41.10	23.60	7075.99	4355.10 N 1853.48 E	0.53	4715.85
8977.00	41.30	23.60	7121.89	4391.92 N 1869.56 E	0.33	4755.85
9040.00	41.20	23.20	7169.25	4430.04 N 1886.06 E	0.45	4797.21
9103.00	41.60	23.60	7216.51	4468.27 N 1902.61 E	0.76	4838.70
9166.00	42.00	22.50	7263.48	4506.91 N 1919.05 E	1.33	4880.54
9228.00	41.60	22.90	7309.70	4545.04 N 1934.99 E	0.78	4921.73
9289.00	41.70	22.50	7355.28	4582.44 N 1950.64 E	0.47	4962.14
9349.00	40.80	21.50	7400.39	4619.11 N 1965.46 E	1.86	5001.61
9415.00	40.40	20.80	7450.50	4659.17 N 1980.96 E	0.92	5044.50

All data is in feet unless otherwise stated.
Coordinates from slot #64 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 6299.99 on azimuth 18.16 degrees from wellhead.
Vertical section is from wellhead on azimuth 18.16 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	
9477.00	40.10	20.10	7497.82	4696.70 N 1994.95 E	0.88	5084.53	
9540.00	39.40	19.00	7546.26	4734.66 N 2008.44 E	1.58	5124.80	
9602.00	39.00	16.50	7594.31	4771.98 N 2020.39 E	2.63	5163.98	
9665.00	39.50	14.40	7643.10	4810.39 N 2031.00 E	2.25	5203.79	
9712.00	40.50	12.30	7679.10	4839.79 N 2037.97 E	3.57	5233.89	
9766.00	41.90	10.60	7719.73	4874.64 N 2045.02 E	3.32	5269.21	
9827.00	45.40	8.80	7763.86	4916.14 N 2052.09 E	6.09	5310.85	
9889.00	48.30	5.60	7806.27	4961.01 N 2057.73 E	6.00	5355.23	
9951.00	49.30	2.10	7847.11	5007.54 N 2060.85 E	4.54	5400.42	
10013.00	49.50	358.60	7887.47	5054.60 N 2061.14 E	4.30	5445.22	
10075.00	50.50	354.70	7927.33	5101.99 N 2058.35 E	5.08	5489.39	
10138.00	50.40	354.70	7967.44	5150.36 N 2053.86 E	0.16	5533.95	
10202.00	50.30	354.00	8008.28	5199.40 N 2049.01 E	0.86	5579.04	
10263.00	53.00	354.40	8046.13	5246.99 N 2044.18 E	4.46	5622.75	
10326.00	52.60	354.40	8084.22	5296.93 N 2039.28 E	0.63	5668.68	
10420.00	53.40	354.00	8140.79	5371.62 N 2031.70 E	0.92	5737.28	
10515.00	53.50	354.40	8197.36	5447.54 N 2023.98 E	0.35	5807.02	
10610.00	53.40	354.40	8253.94	5523.50 N 2016.54 E	0.11	5876.87	
10704.00	53.70	354.70	8309.79	5598.77 N 2009.36 E	0.41	5946.15	
10797.00	53.80	352.60	8364.78	5673.30 N 2001.06 E	1.82	6014.38	
10891.00	54.20	353.30	8420.03	5748.77 N 1991.73 E	0.74	6083.19	
11016.00	54.20	353.30	8493.15	5849.46 N 1979.90 E	0.00	6175.18	
11135.00	54.80	353.00	8562.26	5945.65 N 1968.34 E	0.54	6262.97	FINAL SURVEY PROJECTED TO TD,11135.0'MD
11185.00	55.05	352.88	8590.99	5986.26 N 1963.31 E	0.54	6299.99	

All data is in feet unless otherwise stated.
Coordinates from slot #64 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 6299.99 on azimuth 18.16 degrees from wellhead.
Vertical section is from wellhead on azimuth 18.16 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Comments in wellpath

MD	TVD	Rectangular Coords.	Comment
11135.00	8562.26	5945.65 N 1968.34 E	FINAL SURVEY PROJECTED TO TD,11135.0'MD *

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
TARGET 2		8592.00	60247.22N	53799.41W	11-Apr-97
TARGET 1		7987.00	59434.22N	53734.41W	11-Apr-97

TORCH OPERATING COMPANY
PLATFORM GILDA

S-52 RD1 (A2)
slot #64
OFFSHORE SANTA BARBARA
CALIFORNIA

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

S-62

Your ref : S-52 RD 1 (A2)
Our ref : prop2729
License :

Date printed : 22-Oct-96
Date created : 20-Oct-96
Last revised : 22-Oct-96

Field is centred on n34 10 56.434,w119 25 6.83
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.466,w119 25 6.317
Slot Grid coordinates are N 747990.889, E 1041776.180
Slot local coordinates are 3.20 N 43.10 E

Projection type: Lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

TORCH OPERATING COMPANY
PLATFORM GILDA,S-52 RD1 (A2)
OFFSHORE SANTA BARBARA,CALIFORNIA

S-62

PROPOSAL LISTING Page 1
Your ref : S-52 RD 1 (A2)
Last revised : 22-Oct-96

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	
6500.00	51.72	28.08	5092.88	2992.14 N	1401.71 E	0.00	2870.94	
6600.00	48.00	26.17	5157.34	3060.14 N	1436.39 E	4.00	2935.95	
6700.00	44.31	24.01	5226.60	3125.42 N	1467.20 E	4.00	2998.58	
6800.00	40.67	21.56	5300.33	3187.66 N	1493.40 E	4.00	3058.54	
6900.00	37.09	18.71	5378.16	3246.55 N	1515.05 E	4.00	3115.52	
6935.18	35.85	17.60	5406.45	3266.42 N	1521.57 E	4.00	3134.60	
7000.00	35.85	17.60	5458.99	3302.61 N	1533.05 E	0.00	3169.96	
7100.00	35.85	17.60	5540.05	3358.44 N	1550.76 E	0.00	3224.20	
7200.00	35.85	17.60	5621.10	3414.26 N	1568.46 E	0.00	3278.44	
7300.00	35.85	17.60	5702.16	3470.09 N	1586.17 E	0.00	3332.68	
7400.00	35.85	17.60	5783.21	3525.92 N	1603.88 E	0.00	3386.92	
7500.00	35.85	17.60	5864.27	3581.74 N	1621.59 E	0.00	3441.15	
7600.00	35.85	17.60	5945.32	3637.57 N	1639.29 E	0.00	3495.39	
7700.00	35.85	17.60	6026.37	3693.40 N	1657.00 E	0.00	3549.63	
7800.00	35.85	17.60	6107.43	3749.22 N	1674.71 E	0.00	3603.87	
7900.00	35.85	17.60	6188.48	3805.05 N	1692.41 E	0.00	3658.11	
8000.00	35.85	17.60	6269.54	3860.88 N	1710.12 E	0.00	3712.35	
8100.00	35.85	17.60	6350.59	3916.71 N	1727.83 E	0.00	3766.59	
8200.00	35.85	17.60	6431.65	3972.53 N	1745.54 E	0.00	3820.82	
8300.00	35.85	17.60	6512.70	4028.36 N	1763.24 E	0.00	3875.06	
8400.00	35.85	17.60	6593.75	4084.19 N	1780.95 E	0.00	3929.30	
8500.00	35.85	17.60	6674.81	4140.01 N	1798.66 E	0.00	3983.54	
8600.00	35.85	17.60	6755.86	4195.84 N	1816.36 E	0.00	4037.78	
8700.00	35.85	17.60	6836.92	4251.67 N	1834.07 E	0.00	4092.02	
8800.00	35.85	17.60	6917.97	4307.49 N	1851.78 E	0.00	4146.26	
8900.00	35.85	17.60	6999.03	4363.32 N	1869.48 E	0.00	4200.49	
9000.00	35.85	17.60	7080.08	4419.15 N	1887.19 E	0.00	4254.73	
9100.00	35.85	17.60	7161.14	4474.97 N	1904.90 E	0.00	4308.97	
9200.00	35.85	17.60	7242.19	4530.80 N	1922.61 E	0.00	4363.21	
9300.00	35.85	17.60	7323.24	4586.63 N	1940.31 E	0.00	4417.45	
9400.00	35.85	17.60	7404.30	4642.46 N	1958.02 E	0.00	4471.69	
9500.00	35.85	17.60	7485.35	4698.28 N	1975.73 E	0.00	4525.93	
9600.00	35.85	17.60	7566.41	4754.11 N	1993.43 E	0.00	4580.16	
9606.72	35.85	17.60	7571.85	4757.86 N	1994.62 E	0.00	4583.81	
9700.00	38.34	12.99	7646.27	4812.11 N	2009.39 E	4.00	4636.71	
9800.00	41.19	8.59	7723.14	4874.91 N	2021.28 E	4.00	4698.37	
9900.00	44.18	4.68	7796.66	4942.23 N	2029.04 E	4.00	4764.85	
10000.00	47.30	1.17	7866.45	5013.72 N	2032.64 E	4.00	4835.83	
10100.00	50.51	358.01	7932.19	5089.05 N	2032.04 E	4.00	4910.97	
10188.97	53.43	355.43	7987.00	5159.00 N	2028.00 E	4.00	4981.01	TARGET LP-L
10200.00	53.43	355.43	7993.57	5167.83 N	2027.29 E	0.00	4989.87	
10300.00	53.43	355.43	8053.15	5247.89 N	2020.89 E	0.00	5070.19	
10400.00	53.43	355.43	8112.73	5327.95 N	2014.49 E	0.00	5150.50	
10500.00	53.43	355.43	8172.30	5408.01 N	2008.09 E	0.00	5230.82	
10600.00	53.43	355.43	8231.88	5488.07 N	2001.69 E	0.00	5311.13	
10700.00	53.43	355.43	8291.46	5568.13 N	1995.29 E	0.00	5391.45	
10800.00	53.43	355.43	8351.03	5648.19 N	1988.89 E	0.00	5471.76	
10900.00	53.43	355.43	8410.61	5728.25 N	1982.49 E	0.00	5552.08	
11000.00	53.43	355.43	8470.19	5808.31 N	1976.09 E	0.00	5632.40	
11100.00	53.43	355.43	8529.77	5888.37 N	1969.69 E	0.00	5712.71	

All data is in feet unless otherwise stated.
Coordinates from slot #64 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 6286.35 on azimuth 18.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 355.43 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDA,S-52 RD1 (A2)
OFFSHORE SANTA BARBARA,CALIFORNIA

PROPOSAL LISTING Page 2
Your ref : S-52 RD 1 (A2)
Last revised : 22-Oct-96

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
11200.00	53.43	355.43	8589.34	5968.43 N	1963.29 E	0.00	5793.03
11204.46	53.43	355.43	8592.00	5972.00 N	1963.00 E	0.00	5796.61 TD

All data is in feet unless otherwise stated.
Coordinates from slot #64 and TVD from wellhead (107.00 Ft above mean sea level).
Bottom hole distance is 6286.35 on azimuth 18.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 355.43 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

TORCH OPERATING COMPANY
PLATFORM GILDA,S-32 RD1 (A2)
OFFSHORE SANTA BARBARA,CALIFORNIA

Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
10188.97	7987.00	5159.00 N	2028.00 E	TARGET LP-L
11204.46	8592.00	5972.00 N	1963.00 E	TD

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
TARGET LP-L		7987.00	5159.00N	2028.00E	20-Oct-96
TD		8592.00	5972.00N	1963.00E	20-Oct-96

TORCH OPERATING COMPANY
PLATFORM GILDA

S-52 RD1 (A1)
slot #64
OFFSHORE SANTA BARBARA
CALIFORNIA

S U M M A R Y C L E A R A N C E R E P O R T

by
Baker Hughes INTEQ

Your ref : S-52 RD1 (A1)
Our ref : prop2729
License :

Date printed : 20-Oct-96
Date created : 20-Oct-96
Last revised : 20-Oct-96

Field is centred on n34 10 56.434,w119 25 6.83
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.466,w119 25 6.317
Slot Grid coordinates are N 747990.889, E 1041776.180
Slot local coordinates are 3.20 N 43.10 E

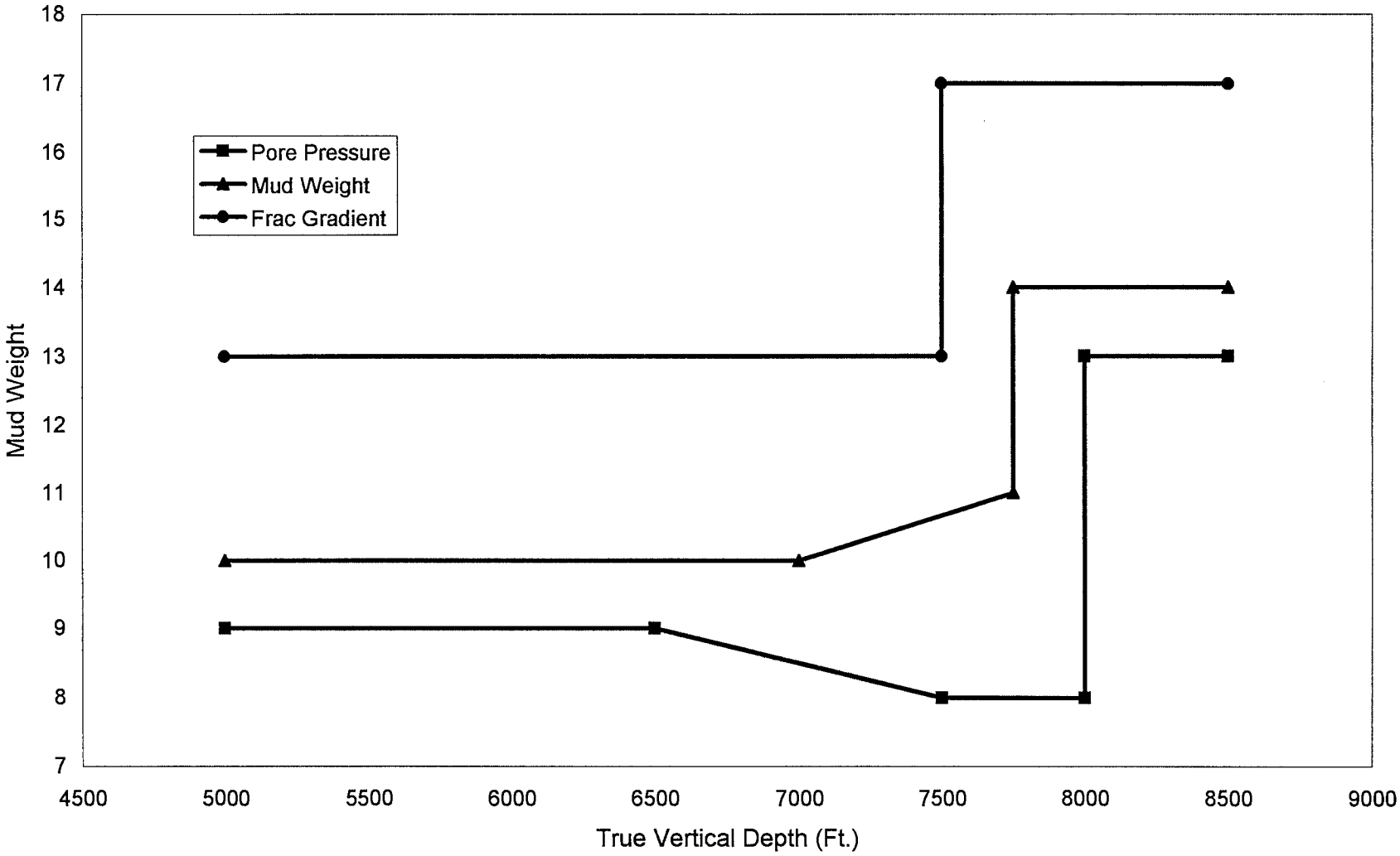
Projection type: lambert - California VI (0406), Spheroid: Clarke - 1866

Reference North is True North

Object wellpath	Closest approach with 3-D Minimum Distance method			
	Last revised	Distance	M.D.	Diverging from M.D.
S-53,,S53,PLATFORM GILDA	6-Aug-96	6382.6	8010.0	9192.0
S-83 (S-67RD),,S67,PLATFORM GILDA	6-Aug-96	5036.5	8010.0	11241.0
S67,,S67,PLATFORM GILDA	6-Aug-96	5036.5	8010.0	8010.0
S41,,S41,PLATFORM GILDA	6-Aug-96	6448.4	8010.0	8010.0
S-79 MWD,,S-79,PLATFORM GILDA	6-Aug-96	6448.4	8010.0	8010.0
S-79 ST2,,S-79 ST2,PLATFORM GILDA	6-Aug-96	6448.4	8010.0	8010.0
S-69,,S-69,PLATFORM GILDA	6-Aug-96	6435.6	8010.0	8010.0
DMWD,,S-60,PLATFORM GILDA	6-Aug-96	5226.6	8010.0	8010.0
S-22,,S22,PLATFORM GILDA	6-Aug-96	5226.6	8010.0	8010.0
DMWD SIDETRACK,,S-60 SIDETRACK,PLATFORM GILDA	6-Aug-96	5226.6	8010.0	8010.0
SIDETRACK,,S-85 ST,PLATFORM GILDA	6-Aug-96	5122.0	8010.0	10593.0
SIDETRACK 2,,S-85 ST2,PLATFORM GILDA	6-Aug-96	5122.0	8010.0	10593.0
S49,,S49,PLATFORM GILDA	6-Aug-96	4783.7	8010.0	8010.0
S-85 MWD,,S-85,PLATFORM GILDA	6-Aug-96	5122.0	8010.0	10593.0
S59ST1,,S59,PLATFORM GILDA	6-Aug-96	6054.8	8010.0	8010.0
S59,,S59,PLATFORM GILDA	6-Aug-96	6054.8	8010.0	8010.0
S-77,,S-37,PLATFORM GILDA	6-Aug-96	6382.5	8010.0	8010.0
DMWD,,S-77 RD,PLATFORM GILDA	6-Aug-96	6382.5	8010.0	8010.0
S-55,,S55,PLATFORM GILDA	6-Aug-96	5034.4	8010.0	8010.0
S-65,,S65,PLATFORM GILDA	6-Aug-96	2846.0	8010.0	8010.0
S-19,,S19,PLATFORM GILDA	6-Aug-96	4457.1	8010.0	8010.0
S-1,,S1,PLATFORM GILDA	6-Aug-96	4897.4	8010.0	8010.0
S8,,S8,PLATFORM GILDA	6-Aug-96	4075.0	8010.0	8010.0
S-9,,S9,PLATFORM GILDA	6-Aug-96	4340.3	8010.0	8010.0
S-5,,S5,PLATFORM GILDA	6-Aug-96	5406.2	8010.0	8010.0
S2,,S2,PLATFORM GILDA	6-Aug-96	4787.7	8010.0	8010.0
S-3 OH,,S3,PLATFORM GILDA	6-Aug-96	4956.7	8010.0	8010.0
S-3 ST1,,S3,PLATFORM GILDA	6-Aug-96	4796.7	8010.0	8010.0

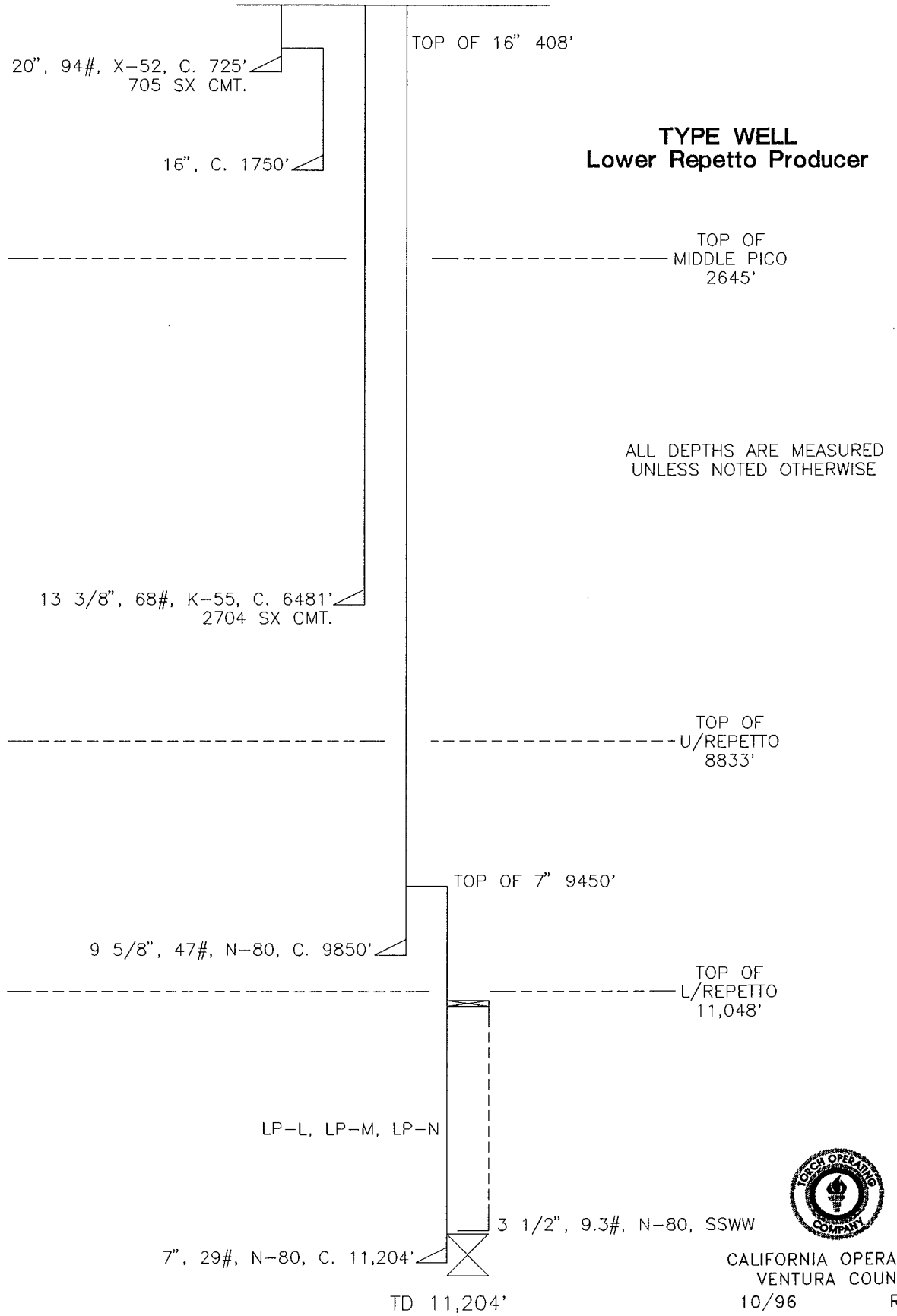
S-3 ST2,,S3,PLATFORM GILDA	6-Aug-96	4796.5	8010.0	8010.0
S-3 ST3,,S3,PLATFORM GILDA	6-Aug-96	4796.5	8010.0	8010.0
S-56,,S56,PLATFORM GILDA	6-Aug-96	5373.2	8010.0	8010.0
S-44,,S44,PLATFORM GILDA	6-Aug-96	714.2	8010.0	8010.0
S-44ST,,S44,PLATFORM GILDA	6-Aug-96	714.2	8010.0	8010.0
S-75,,S75,PLATFORM GILDA	6-Aug-96	5960.8	8010.0	10500.0
S-71,,S71,PLATFORM GILDA	6-Aug-96	6089.6	8010.0	8010.0
S-40,,S40,PLATFORM GILDA	6-Aug-96	1715.7	8010.0	8010.0
S-48,,S-40&ST (S48),PLATFORM GILDA	6-Aug-96	1715.7	8010.0	8010.0
S16,,S16,PLATFORM GILDA	6-Aug-96	5824.7	8010.0	8886.0
S11,,S11,PLATFORM GILDA	6-Aug-96	5403.9	8010.0	8010.0
S-54,,S-11 (S-54),PLATFORM GILDA	6-Aug-96	5403.9	8010.0	8010.0
S-10,,S10,PLATFORM GILDA	6-Aug-96	4979.2	8010.0	9198.0
S-50,,S-10 (S-50),PLATFORM GILDA	6-Aug-96	4979.2	8010.0	9198.0
S-32,,S32,PLATFORM GILDA	6-Aug-96	2464.9	8010.0	8010.0
S35,,S35,PLATFORM GILDA	6-Aug-96	6185.3	8010.0	8010.0
S57,,S57,PLATFORM GILDA	6-Aug-96	4468.5	8010.0	8010.0
S39,,S39,PLATFORM GILDA	6-Aug-96	5539.1	8010.0	8010.0
S-29,,S29,PLATFORM GILDA	6-Aug-96	6242.8	8010.0	8010.0
S-14,,S14,PLATFORM GILDA	6-Aug-96	4663.2	8010.0	8010.0
S-14ST,,S14,PLATFORM GILDA	6-Aug-96	4663.2	8010.0	8010.0
S-28,,S28,PLATFORM GILDA	6-Aug-96	3987.4	8010.0	8010.0
S24,,S24,PLATFORM GILDA	6-Aug-96	4489.5	8010.0	8010.0
S-34,,S34,PLATFORM GILDA	6-Aug-96	4276.8	8010.0	8010.0
S30,,S30,PLATFORM GILDA	6-Aug-96	3105.0	8010.0	8010.0
S20,,S20,PLATFORM GILDA	6-Aug-96	2629.3	8010.0	8010.0
S26,,S26,PLATFORM GILDA	6-Aug-96	874.8	9525.0	9525.0
S6,,S6,PLATFORM GILDA	6-Aug-96	3391.3	8010.0	8010.0
S12,,S12,PLATFORM GILDA	6-Aug-96	3485.6	8010.0	8010.0
S38,,S38,PLATFORM GILDA	6-Aug-96	3294.8	8010.0	8010.0
S-36ST,,S36,PLATFORM GILDA	6-Aug-96	3238.6	8010.0	8010.0
S-36,,S36,PLATFORM GILDA	6-Aug-96	3433.8	8010.0	8010.0
S7,,S7,PLATFORM GILDA	6-Aug-96	4058.5	8010.0	8010.0
S-51,,S51,PLATFORM GILDA	6-Aug-96	6034.2	8010.0	8010.0
S-47,,S47,PLATFORM GILDA	6-Aug-96	6300.5	8010.0	8010.0
S-25,,S25,PLATFORM GILDA	6-Aug-96	6102.2	8010.0	8010.0
S27F,,S27,PLATFORM GILDA	6-Aug-96	6258.1	8010.0	8010.0
S15,,S15,PLATFORM GILDA	6-Aug-96	5357.6	8010.0	8010.0
S-43,,S43,PLATFORM GILDA	6-Aug-96	5738.3	8010.0	8010.0
S-23,,S23,PLATFORM GILDA	6-Aug-96	5804.4	8010.0	8010.0
S-23ST,,S23,PLATFORM GILDA	6-Aug-96	5804.4	8010.0	8010.0
S31,,S31,PLATFORM GILDA	6-Aug-96	5008.3	8010.0	8010.0
S45,,S45,PLATFORM GILDA	6-Aug-96	4045.8	8010.0	8010.0
S13,,S13,PLATFORM GILDA	6-Aug-96	4372.1	8010.0	8010.0
S-21,,S21,PLATFORM GILDA	6-Aug-96	5235.3	8010.0	8010.0
S-61,,S61,PLATFORM GILDA	6-Aug-96	1667.5	10050.0	10050.0
S-33RD,,S33 RD,PLATFORM GILDA	6-Aug-96	6229.7	8010.0	8010.0
S-33,,S33,PLATFORM GILDA	6-Aug-96	6229.7	8010.0	8010.0
S-18,,S18,PLATFORM GILDA	6-Aug-96	4888.8	8010.0	8010.0
S-42,,S42,PLATFORM GILDA	6-Aug-96	2483.1	8010.0	8010.0
S-4,,S4,PLATFORM GILDA	6-Aug-96	3572.8	8010.0	8010.0
S63,,S63,PLATFORM GILDA	6-Aug-96	5929.5	8010.0	8010.0
S-46,,S46,PLATFORM GILDA	6-Aug-96	4752.4	8010.0	8010.0
S52,,S52,PLATFORM GILDA	6-Aug-96	0.0	8010.0	8010.0

SANTA CLARA UNIT
Well #S-[redacted] 62



SANTA CLARA FIELD
Platform Gilda
Well #S-~~60~~ 62

RT: 107' **Slot #64**

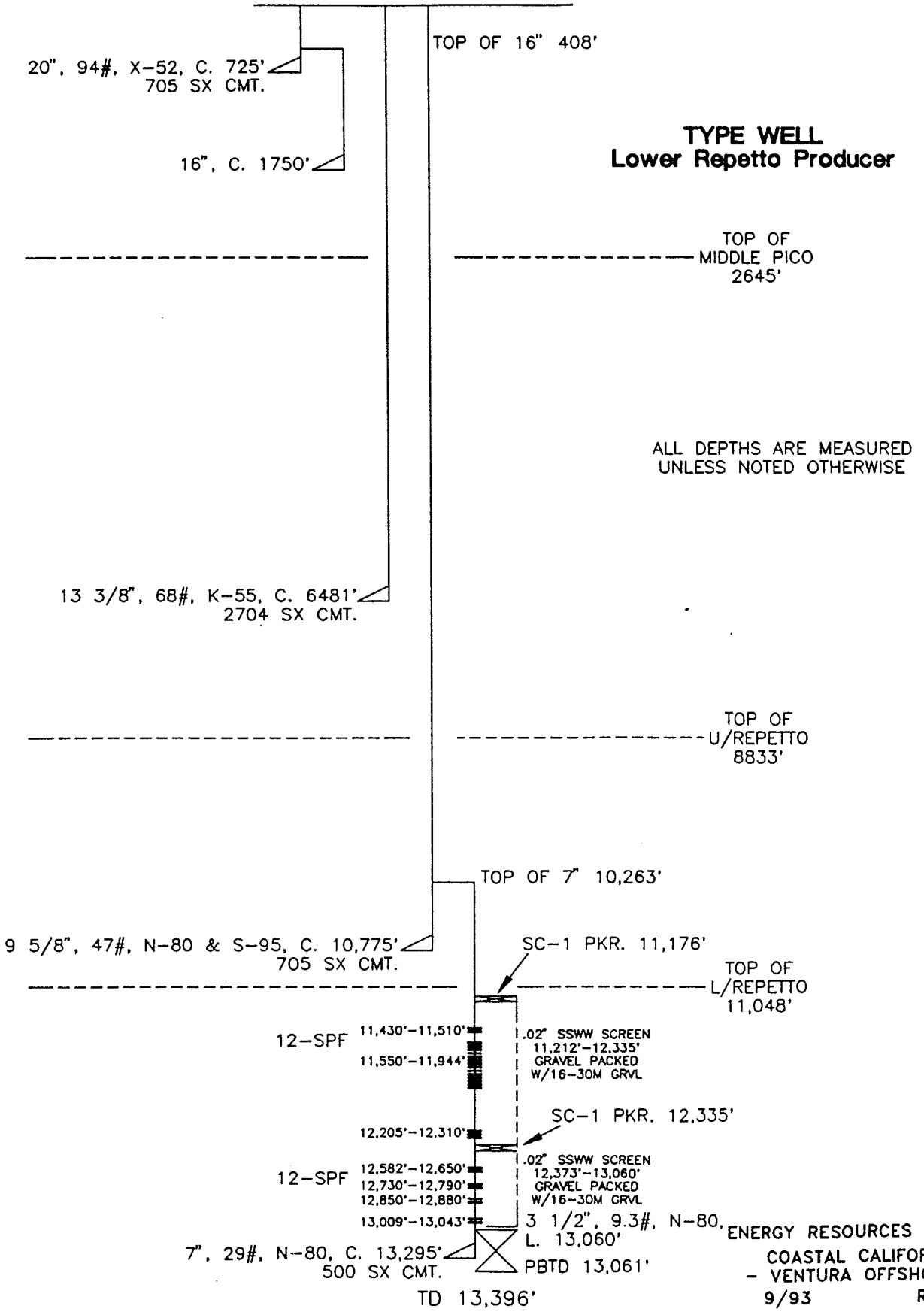


TORCH OPERATING COMPANY

CALIFORNIA OPERATIONS
VENTURA COUNTY
10/96 RJDIII

SANTA CLARA FIELD
Platform Gilda
Well #S-52

RT: 107' **Slot #64**



ENERGY RESOURCES DIVISION
COASTAL CALIFORNIA
- VENTURA OFFSHORE -
9/93 RJDIII

TORCH OPERATING COMPANY
201 S. Broadway
Orcutt, CA 93455

(805) 934-8261
(805) 937-8709

November 13, 1996

Mr. Rishi Tyagi
District Manager
U.S. Department of Interior
Minerals Management Service
770 Paseo Camarillo
Camarillo, CA 93010

RE: Sundry Notice 62
Lease OCS-P 0216 #S-~~60~~
Santa Clara Field - Platform Gilda

Mr. Tyagi:

Please accept the enclosed Form 124, "Sundry Notice" covering the above referenced well (original plus three copies). In support of this notice, the following information is enclosed:

1. Location of Well with Platform
2. Drilling and Completion Procedures
3. Casing Design
4. Cement Program
5. Proposed Logging Program
6. BOP Program
7. Well Control Procedure
8. Anticipated Pressures and Minimum Mud Requirements
9. Proposed Mud Program
10. Directional Survey
11. Proximity Summary Sheet
12. Graph showing anticipated Pore Pressures, Mud Weights & Fracture Gradients
13. Well Bore Diagram

Please call our drilling engineer, Jim Martin or myself with any question or comment at the letterhead phone number.

Thank You

Lisa A. Chacon
Environmental Clerk

COPY TO REGION

Releasable to public
Name: SRH Date: 5/13/13

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus TWO copies, with ONE copy marked "Public Information"

OMB Control Number 1010-0046
OMB Approval Expires 10/31/2005

OK 4/15

END OF OPERATIONS REPORT (EOR) (Replaces Well Summary Report)

1. ☐ COMPLETION ☒ WORKOVER ☐ ABANDONMENT ☐ CORRECTION ☐ OTHER	2. API WELL NO. *(12 Digits)*	3. PRODUCING INTERVAL CODE	4. OPERATOR NAME and ADDRESS *(Submitting Office)*
	043112063901	S01	Nuevo Energy Company 1200 Discovery Dr., Suite 500 Bakersfield CA 93309

5. WELL NAME	6. SIDETRACK NO.	7. BYPASS NO.	8. MMS OPERATOR NO.
S-62	01	00	01546

WELL AT TOTAL DEPTH	WELL AT PRODUCING ZONE
9. LEASE NO. P-0216	14. LEASE NO. P-0216
10. AREA NAME 6B	15. AREA NAME 6B
11. BLOCK NO. 4861	16. BLOCK NO. 4861

RECEIVED
APR 2005
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

OK

12. LATITUDE Y-754570 ☒ NAD 27 *(GOM & Pacific)* ☐ NAD 83 *(Alaska)*	13. LONGITUDE X-1043858 ☒ NAD 27 *(GOM & Pacific)* ☐ NAD 83 *(Alaska)*	17. LATITUDE ☒ NAD 27 *(GOM & Pacific)* ☐ NAD 83 *(Alaska)*	18. LONGITUDE ☒ NAD 27 *(GOM & Pacific)* ☐ NAD 83 *(Alaska)*
~~Y=1477992~~	~~X=1041776~~	Y= 753623	X = 104 3945

Visual →

WELL STATUS INFORMATION

19. WELL STATUS	20. TYPE CODE	21. WELL STATUS DATE	22. KOP *(MD)* ST / BP	23. TOTAL DEPTH *(Surveyed)*
COM	POW	5/8/97		MD 11185' TVD 8591'

PERFORATED INTERVAL(S) THIS COMPLETION

24. TOP *(MD)*	25. BOTTOM *(MD)*	26. TOP *(TVD)*	27. BOTTOM *(TVD)*
10818'	11046'	8377'	8510'
10428'	10474'	8145'	8173'

28. RESERVOIR NAME	29. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	LP-N

SUBSEA COMPLETION

30. PROTECTION PROVIDED	31. BUOY INSTALLED	32. TREE HEIGHT ABOVE MUDLINE
☒ YES NA ☐ NO	☒ YES NA ☐ NO	

OK OK

HYDROCARBON BEARING INTERVALS

33. INTERVAL NAME	34. TOP *(MD)*	35. BOTTOM *(MD)*	36. TYPE OF HYDROCARBON
LP-M Zone	10428	10474	Oil
LP-N Zone	10818	11046	Oil

END OF OPERATIONS REPORT (Continued)

LIST OF SIGNIFICANT MARKERS PENETRATED			
37. NAME	38. TOP *(MD)*	37. NAME	38. TOP *(MD)*
MP-3	5897'	LP-B	8358
LP-1	6818'	LP-D	9032'
LP-3	7676'	LP-K	9781'

ABANDONMENT HISTORY OF WELL			
39. CASING SIZE	40. CASING CUT DATE	41. CASING CUT METHOD	42. CASING CUT DEPTH *(BML)*

43. TYPE OF OBSTRUCTION	44. PROTECTION PROVIDED ☐ YES ☐ NO	45. BUOY INSTALLED ☐ YES ☐ NO	46. OBSTRUCTION HEIGHT ABOVE MUDLINE

47. CONTACT NAME	48. CONTACT TELEPHONE NO.	49. CONTACT E-MAIL ADDRESS
Brent Martin	661-322-7600	martinb@nuevoenergy.com

50. AUTHORIZING OFFICIAL *(Type or Print Name)*	51. TITLE
Richard F. Garcia	Agent for Nuevo Energy Company
52. AUTHORIZING SIGNATURE Richard F. Garcia	53. DATE 3/27/03

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

WORKOVER SUMMARY
PLATFORM GILDA OCS P-0216
WELL # S-62

12/4/01 MIRU. RU wireline unit and test lubricator T/1000 PSI. Run gauge ring (2.25") T/10,260' MU shifting tool. RIH to shift sleeve @ 10,162'. Move in rig. Latch into sleeve, attempt to pressure up on tbg to balance 13# CABR in csg. Tbg pressure @ 900 PSI. Tbg would not pressure up above 1100 PSI and formation would take fluid. Attempt to shift sleeve and sheared pin in shift tool. POOH.

12/6/01 NU BOPE. Re-tighten BOP bolts. Install koomey lines & function test BOPE. RU mud pump. MU test string. Test BOPE as per MMS regs F/250L T/3000 H W/water. Back out lock down screws on tubing hanger.

12/7/01 Back out hanger studs. Attempt to pull hanger. Remove grating around well head & finish backing out hanger studs. Attempt to pull seal assy free. Work pipe & wait on Baker Atlas. Drain stack. Run studs in. Test seals to 3000 PSI. Install BPV. Remove lower clamp on riser. Lift stack. Re-land BOP & riser. MU clamp. Pull BPV & install landing jt. Attempt to test riser break. Packing glands leaking. Tighten glands. Test pipe rams & riser break to 3000 PSI (OK). Back out hanger studs.

12/8/01 Circ tbg W/filtered seawater. RU Baker Atlas and RIH. Cut tbg @ 10,218'. POOH and RD Baker Atlas. Attempt to pull hanger. Check hanger stds. Pull & LD hanger. RU Pruett sheave. POOH & LD 2 7/8" prod string & Pruett line.

12/9/01 Continue POOH W/2 7/8" tbg. MU test assy. Attempt to test top pipe rams. Door seals leaking. Service seals. Hinge seal leaking. Remove ram door and change hinge seals. Install door. MU test assy. Test BOPE F/250L T/3000H PSI.

12/10/01 Test BOPE and RD test assy. Install PGSR on top of hydril. MU fishing tool assy. PU 3 ½" tbg. Rabbit each jt. Latch on to fish @ 10,261'. Jar fish loose and monitor well. POOH F/10,261'.

12/11/01 POOH W/fish. POOH and LD fishing tools. Recovered 15' of tbg W/seal assy. MU Baker SC-1 retrieving tool. & RIH. Latch SC-1 packer @ 10,261'. Pull SC-1 free. Fill tbg ever stand. POOH W/Baker isolation assy. LD 4 ¾" drill collar. Fishing tools & isolation assy. MU 2 7/8" mule shoe, 1 jt 2 7/8" tbg scraper, 7" bumper sub and RIH.

12/12/01 Continue to RIH W/7" scraper & BHA T/10,649'. Try to pump filtered sea water down tbg W/tail @ 10,649' and tbg pressured up. Pull and LD 1 jt of tbg and start circulating filtered seawater down tbg. Had to shut down numerous times due to high levels in shipping separator. Pump @ a 3Bbls per min rate. Pump 720 Bbls. POOH w/7" scraper and mule shoe assy. MU Baker snap latch, SC-1 packer isolation assy as follows: Snap latch, cross over, 2 7/8" tbg, KOIV, mill out ext., SC-1 packer, setting tools, pup jt. RIH.

12/13/01 Continue to RIH W/isolation tools and space out tbg to stab snap latch into Baker SC-1 packer. Set @ 10,490'. Pressure up to 3000 PSI and set packer. Pressure csg side to 1000 PSI for 10 min (OK). Blow ball seat @ 4400 PSI. POOH W/Baker setting tools. Measure and PU Halliburton TCP guns W/Baker S-1 blanking plug. RIH W/TCP guns. Note: Isolation assy set F/10,490' T/10,649'.

12/14/01 Continue to RIH W/TCP guns & blanking plug. Set blank plug in top of baker packer @ 10,400'. PU guns to position the shots F/10,474' T/10,428' and packer @ 10,260'. Set packer. Pressure up tbg to 700 PSI and drop bar & guns fired. Tbg pressure @ 1000 PSI. Transfer and build CaCl fluid to 11.6# to kill well. Circulate well holding 1200 PSI on choke. Pump 800 Bbls filtered CaCl water until well was dead. Monitor well. Release packer. POOH W/perf guns.

12/15/01 PU & RIH to top of blanking plug @ 10,490' with retrieving tool, 7" scraper and bumper sub. Reverse circulate and filter CaCl water to a 20 NTU reading fluid in and a 40 NTU reading fluid out. Latch blanking plug, pull equalizing port and circulate two tbg volumes. POOH and LD 7" scraper and retrieved blanking tool.

12/16/01 PU gravel pack assy as per program. Continue to trip in well with gravel pack assy to 10,000'. RUl all Dowell frac equipment. Set up hopper and fill with sand. Mix KCL material.

12/17/01 Finish RIH W/gravel pack tools and pump out tbg to set packer setting and frac job. Drop ball and set packer @ 10,268' W/3000

PSI. Snap latch assy @ 10,490'. Reverse out ball. Pressure test line T/8000 PSI (OK). Pressure up csg to 1500 PSI and start data frac pumping @ 12 Bbls per min down tbg @ 4500 PSI. Analyze data from mini fracs. Start frac pack pumping @ 11 Bbls per min rate W/maximum pressure of 5200 PSI. Pump a total of 802 Bbls slurry W/80,000 LBS proppant. Bleed well off and reverse well clean. Recovered 20+ CF of sand. Work tight seal bore assy pulling up to 150,000# to work free gravel pack tools. Pull and LD 3 ½" tbg.

12/18/01 Continue to pull and LD tbg. PU equipment to test BOPE. Test 3 ½" and 2 7/8" pipe rams F/250L T/ 2000H. All tested OK. Finish pulling and LD test equipment. Pull and LD 3 ½" tbg and gravel pack tools. Measure and PU 2 3/8" tail pipe for installation below Wye tool.

12/19/01 MU Reda ESP. Change in procedure. LD Reda ESP. POOH W2 3/8" tbg tail. RIH W/34 jts of 2 3/8" tbg & finned pup W/45, PU 2 7/8" tbg. Circulate fluid to balance. RIH picking up 2 7/8" tbg. Tag fill @ 10,256'. Attempt to circulate, tbg plugged. Try to clear tbg (no good). POOH W/wet tbg.

12/20/01 POOH. MU guide shoe assy W/5" NOGO sub. RIH and tag fill @ 10,254'. Clean out T/10,268'. Reverse circulate numerous tbg volumes. Mix 150 Bbls of 11.5 fluid. Clean out fill F/10,268' T/10,281'. Reverse circulate two tbg volumes. Circulate out 4 sacks of gravel pack sand. Pull above SC1 liner top. Filter fluid F/trip out. RIH and check fill. POOH. Plug test production equipment to 5000 PSI.

12/21/01 RIH W/2 3/8" WYE tool side string. Plug test production equipment T/5000 PSI. MU Reda pump & WYE tool assy. RU Hydro test. RIH W/production string.

12/22/01 RIH W/production string. Test tbg T/5000 PSI. MU Halliburton packer & SSSV. Unroll Reda cable from reel. Slide on pack off collar. Re-spool cable on. Feed cable through packer assy. Splice Reda cable @ packer. Install control to SSSV & packer. Splice chemical line & Pruett line. RIH W/production string. Test tbg T/5000 PSI. Space out production string. Install hanger. Make last test through hanger T/5000 PSI & RD hydro test. Land hanger.

12/23/01 Skid rig off well. ND BOP. Install tree and test Bonnett to 3000 PSI. RDMO.

12/24/01 RIH W/wire line. Set plug @ 561'. Pressure up on plug to 3000 PSI and set packer. Pull plug out and test packer and SSSV. RD wire line. RU coil tbg. RIH W/coil tbg and Baker hip tripper tool pumping ½ Bbls per min of filtered seawater. Brake through disk @ 10,304'. Continue T/10,454'. POOH W/coil tbg. RIH W/wire line and set a 1.875" PXX plug @ 9206' on the 2 3/8" stinger (offside of ESP). RIH W/wire line and set a prong in the plug @ 9206'. POOH and RD wire line. Turn well over to production. Fluid to surface @ 2200 Hrs.

12/25/01 Well shut in temporily due to Mandalay facility. Well pressure 1050 PSI. Pump filtered water down tbg. Holding 1200 PSI on annulus (442 Bbls.) Shut well in due to problem on Mandalay facility.Prep rig for pulling production string. Pump filtered water down tbg. Holding 1200 PSI on annulus (700 Bbls) seawater returns clean. Circ down tbg W/11.5 $CaCr_2$ @ 1.5 Bbls per min until kill fluid density in returns. Well dead. Install BPV. Pull tree & nipple up BOPE.

12/27/01 Filtered 11.5 CaCL2 while circulating. Dump unuseable fluid to production. RU and test wire line lubricator T/2000 PSI. RIH T/9206'. Latch prong. POOH. Did not have prong. RIH W/wire line.

12/28/01 POOH W/wire line (no prong). Pump 4 Bbls of diesel. RIH W/prong puller. POOH (no prong). Bail frac sand off top of prong. Made five trips W/wireline. Ran prong puller & recovered prong. Ran plug puller and attempt to pull plug (no good). Make bailer run and recovered small amount of sand. Ran plug puller. Latch plug. Attempt to pull plug @ 9206'(no good). Dropped line cutter. Knock tool string loose while pulling out of line with entire tool string. Line parted @ 3000' (top of tools). Ran tool to latch line cutter. Slick line parted after RIH W/9000' of wire to surface. MU wire line tools W/wireline spear.

12/29/01 Wait on orders and clean pit. Fish wireline @ 197'. POOH W/wireline and tools. Remove bad line from wire unit. MU wireline tools. Latch fish @ 9186. Jar free. POOH and recover all of wireline tools @ PXX plug. 2 3/8 tbg tail clear. RD wireline. Circ filtered seawater down annulus taking returns up tbg to production holding 1100 PSI on tbg. Pump 1400 Bbls @ 6:00 AM. Returns still oily. Shut down pumping due to bottleneck at Mandalay facility. Shut in pressures on tbg 1050 PSI.

12/31/01 MIRU. NU BOPE. Test BOP as per MMS regs F/250L T/3000H. Back out hanger screws. Pull packer loose. Monitor well. Pull hanger to

floor. Remove lines from hanger.

1/1/02 POOH W/production string. RU and LD ESP. Found all (3) pumps locked up. Measure & PU 1 ¼" Hydril tbg. RIH W/2 3/8" tbg. C/O assy, mule shoe, 27 jts of 1 ¼" tbg. 35 jts of 2 3/8"' tbg & 2 7/8" tbg to surface.

1/2/02 RIH W/1 ¼" clean out assy T/10,262'. RU to reverse circulate. Break circulation. RIH T/10,330'. Clean out F/10,330' T/10,472'. Pipe plugged. POOH T/10,262'. Unplug tbg. Wash back to 10,472'. No frac sand in returns. Clean out F/10,472' T/10,669'. Pipe plugging. Clean out F/10,669' T/10'684'. Tbg plugging. Attempt to clean out past 10,684'. POOH W/clean out assy. Recovered 8 to 10 CF of frac sand while reversing out.

1/3/02 Finish POOH and LD 1.25" tbg. Off load measure and PU Baker B-250 X-O and shifting tool. RIH W/2 3/8" tbg, 2 7/8" tbg and Baker shifting tool. Went through closing procedure on gravel pack screen. Test back side to 1500#. Good. Test sleeve T/1000 PSI. Sleeve closed. POOH and LD Baker tool. Lay out and measure Reda ESP pump equipment. Move in and spot Weatherford Hydro test equipment.

1/4/02 Test Y tool, Pruett chamber and 5 jts tbg on deck to 5000#. MU NO-GO's and RIH W/35 jts of 2 3/8" tbg. MU X-nipple (1.875") and Y tool. PU ESP motors. MU ESP pump assy on Y tool. Band flat cable to pump. Install check valve immediately above ESP. PU and tested jts W/Pruett chamber and sliding sleeve assy in c
losed position. RU Weatherford Hydro-test tools and hang sheaves. Run tbg in hole clamping cable W/1/8" cap tbg line. 3/8" chemical injection line W/check valve on bottom 10' above intake. Hydro test 2 7/8" N-80 tbg T/5000 PSI.

1/5/02 Continue to run production tbg checking cable every 40 stands and 6. banding W/cannon cable clamps. Test in hole W/ESP pump assy, clamping cable and lines. PU SCSSSV (Well star) and Halliburton RDH packer, tie in chemical line, Pruett line and ¼" control lines. Continue in hole W/remaining jts. MU Hydro test drag tools above RDH assy. Cont testing remaining pipe, banding new round cable W/2 bands per jt. PU and test hanger. Stab in electric feed through mandrel. Splice new lower connector plug in cable. Hook up and feed SS lines through hanger. Service hanger. Replace seals and land tbg on hanger. RDMO.

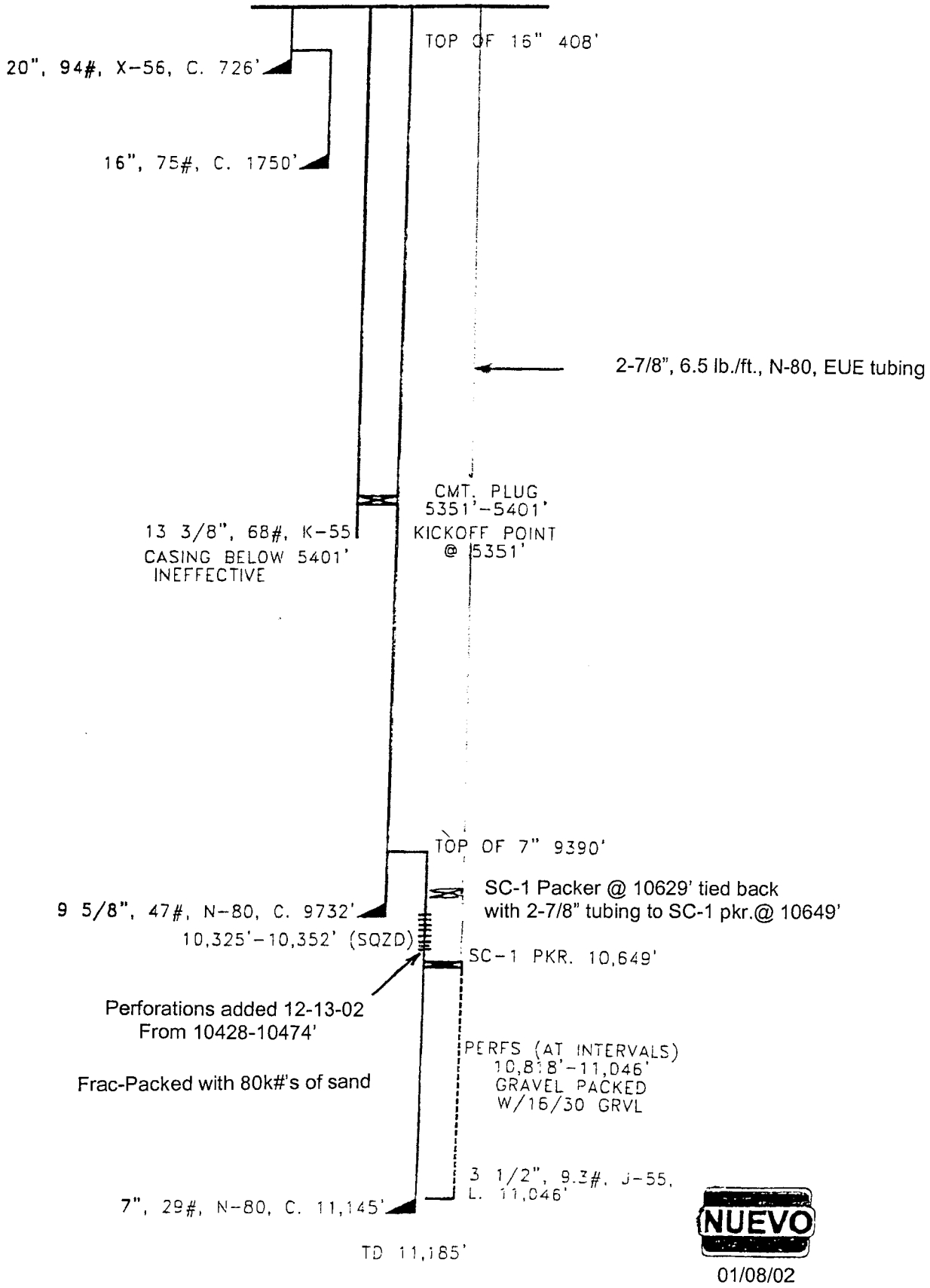
1/6/02 ND BOP and riser. Check electrical cable. Prep control, Pruett line and chemical injection line and NU tree. Hooked up flow line. Test well head to 3000#. Install 2 way check and test tree to 3000#. Reversed circulated filtered seawater. Circulated @ 2 BPM first 640 Bbls. Slowed to 1 BPM last 120 Bbls. Holding back pressure on tbg per procedure. RD lines and hoses.

1/7/02 Spot and RU Schlumberger coiled tbg unit. Install riser and CTU BOPE. RU HIP tripper (1.687 OD) and test same. Test CT BOE F/295L T/3000H. RIH W/1 1/14" CT. Tag @ 10,752'. Washed to 10,798'. CIH to 10,872'. Unable to wash deeper. PU CT sticking. WIH to 10,872'. Set 500# weight. PU to 18K to pull free. POOH to 10,700' and circulate hole clean. No sand to surface. RIH to 10,852'. Pump 1000 gallons 5% KCL & 5% F105 & 10 gallons A261 corrosion inhibitor. Follow with 2000 gallons 15% HCL. Displace with acid with 1000 gallons KCL. Spot acid from 10,852' to 10,052'. Closed backside and bullhead in with final pump in rate 1 barrel per min. @ 700#. Coil pump pressure 4300#. POOH to 9000'. Shut down and wait on acid soak. RIH W/1 $\frac{1}{4}$" CT to 10,852' tbg measurement. No fill.

1/8/02 Circulate hole clean. Pump total of 79 Bbls seawater. Purge coil tbg with nitrogen. Remove hip tripper. ND BOE's. Turn well over to production. Production lined up well to clean up tank. Flowed well. Report time readings. TP 78 CP 530 BHP 2590 BFPD 206. Total fluid back 110.7. Adding gas to csg to lift well.

1/9/02 Continue flowing well. 8:15 reading: TP 105 BFPD 105 TP 71 CP 530 BHP 2555. SI well @ 8:15. Wait on wire line. RIH W/wire line 1.875" OD plug. POOH. Run and set P prong assy for PX plug assy. POOH and RD unit. Turn well over to production.

SANTA CLARA FIELD
PLATFORM GILDA
WELL #S-62



NUEVO

01/08/02

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: August 31, 1996

1. 1ST COMP. X / RECOMPLETION / ABANDONMENT / CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-2063901	S-62	NUEVO ENERGY 201 S. BROADWAY SANTA MARIA, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	6B	01099

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1043858 Y=754570 5682FEL 6402FNL	P-0216	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=1043945 Y=753623 5655FEL 6697FNL	P-0216	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	970627	970628	N/A

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
970413	970508	MD 11185' TVD 8591'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
10818'	11046'	8377'	8510'

RECEIVED
AUG 27 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	LP-N

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
12 1/4"	9 5/8"	47#	P-110 & N-80	9732'	Class "G"	907

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
6.184"	2 7/8"	6.5	N-80	10649'	5235'
6.184"	2 7/8"	6.5	N-80	5235'	

FORM MMS -125 (August 1993) (Replaces Form MMS-330 which will not be used)

ENVIRONMENTAL PROGRAM
AUG 28

CONFIDENTIAL

ELL SUMMARY REPORT

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
8 1/2"	7"	29#	N-80	9391	11145'	Class "G"	320
8 1/2"	3 1/2"	9.3#	J-55	10649'	11046	N/A	N/A

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
10115'	10240'	Class G - plug	50 ft3
10325'	10352'	Class G + 2% CC - Fracture	30 bbls
10325'	10325'	Class 'G' - Squeeze	50 bbls
10818'	11046'	Class G + 2% CC - Fracture	48 bbls

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

Density, CNL/HALS/CNL & CP/T Logs, FMI/GPIT/DSI/GR/DTA & DTC Logs, UST/CBL/GR Logs, GR Correlation Logs, CBL Logs, PDC/GR/CCL Logs, Directional Survey, Mud Logs

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

	TOP		BOTTOM		
79. FORMATION	80. MD	81. TVD	82. MD	83. TVD	84. DESCRIPTION, CONTENTS, ETC.
Middle Pico	5897'	4786'	6818'	5483'	Sandstone, siltstone, mudstone, water
Lower Pico	6818'	5483'	8070'	6442'	Sandstone, siltstone, mudstone, water
Upper Repetto	8070'	6442'	9128'	7235'	Sandstone, siltstone, mudstone, water
Middle Repetto	9128'	7235'	9781'	7731'	Sandstone, siltstone, mudstone, water
Lower Repetto	9781'	7731'	11985'	9051'	Sandstone, siltstone, mudstone, oil, gas, water

	TOP			TOP	
85. GEOLOGIC MARKERS	86. MD	87. TVD	85. GEOLOGIC MARKERS	86. MD	87. TVD
MP-3	5897'	4786'	LP-D	9032'	7163'
LP-1	6818'	5483'	LP-K	9781'	7731'
LP-3	7676'	6141'	LP-L	10130'	7963'
LP-B	8358'	6657'	LP-M	10318'	8080'
			LP-N	10780'	8602'

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	970825

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain geologic, well test, and well-completion equipment data. This information will be used by MMS District Supervisors to ensure that they have accurate data and information on the wells under their jurisdiction and to ensure compliance with approved plans. It is also used to evaluate remedial action in the event of well-equipment failure or well-control loss. Response to this request is mandatory (43 U.S.C. 1334). Properietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0046), Washington, DC 20503

COPY TO REGION

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: August 31, 1996

1. 1ST COMP. X RECOMPLETION ABANDONMENT CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-2063901	3. WELL NO. S-62	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) NUEVO ENERGY 201 S. BROADWAY SANTA MARIA, CA 93455
8. FIELD NAME Santa Clara	9. UNIT NUMBER 6B	10. MMS OPERATOR NUMBER 01099	

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=1043858 Y=754570 5682FEL 6402FNL	P-0216	6B	4861	6B

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34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	970627	970628	N/A

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
970418	970508	MD 11185' TVD 8591'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
10818'	11046'	8377'	8510

RECEIVED
AUG 21 1997
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

Entered in Tracking System
AUG 22

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	LP-N

188

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
12 1/4"	9 5/8"	47#	N-80	9732'	Class "G"	907

TUBING RECORD

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6.184"	2 7/8"	6.5	N-80	10649'	5235'
6.184"	2 7/8"	6.5	N-80	5235'	

FORM MMS -125 (August 1993) (Replaces Form MMS-330 which will not be used)

BY:

CONFIDENTIAL

WELL SUMMARY REPORT

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Density, CNL/HALS/CNL & CP/T Logs, FMI/GPIT/DSI/GR/DTA & DTC Logs, UST/CBL/GR Logs, GR Correlation Logs, CBL Logs, PDC/GR/CCL Logs, Directional Survey, Mud Logs

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

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Middle Pico	5897'	4786'	6818'	5483'	Sandstone, siltstone, mudstone, water
Lower Pico	6818'	5483'	8070'	6442'	Sandstone, siltstone, mudstone, water
Upper Repetto	8070'	6442'	9128'	7235'	Sandstone, siltstone, mudstone, water
Middle Repetto	9128'	7235'	9781'	7731'	Sandstone, siltstone, mudstone, water
Lower Repetto	9781'	7731'	11985'	9051'	Sandstone, siltstone, mudstone, oil, gas, water

85. GEOLOGIC MARKERS	TOP 86. MD	TOP 87. TVD	85. GEOLOGIC MARKERS	TOP 86. MD	TOP 87. TVD
MP-3	5897'	4786'	LP-D	9032'	7163'
LP-1	6818'	5483'	LP-K	9781'	7731'
LP-3	7676'	6141'	LP-L	10130'	7963'
LP-B	8358'	6657'	LP-M	10318'	8080'
			LP-N	10780'	8602'

26. CONTACT NAME	27. TELEPHONE NUMBER
Bob Davis	(805) 739-9111
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
John M. Deacon	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	970819

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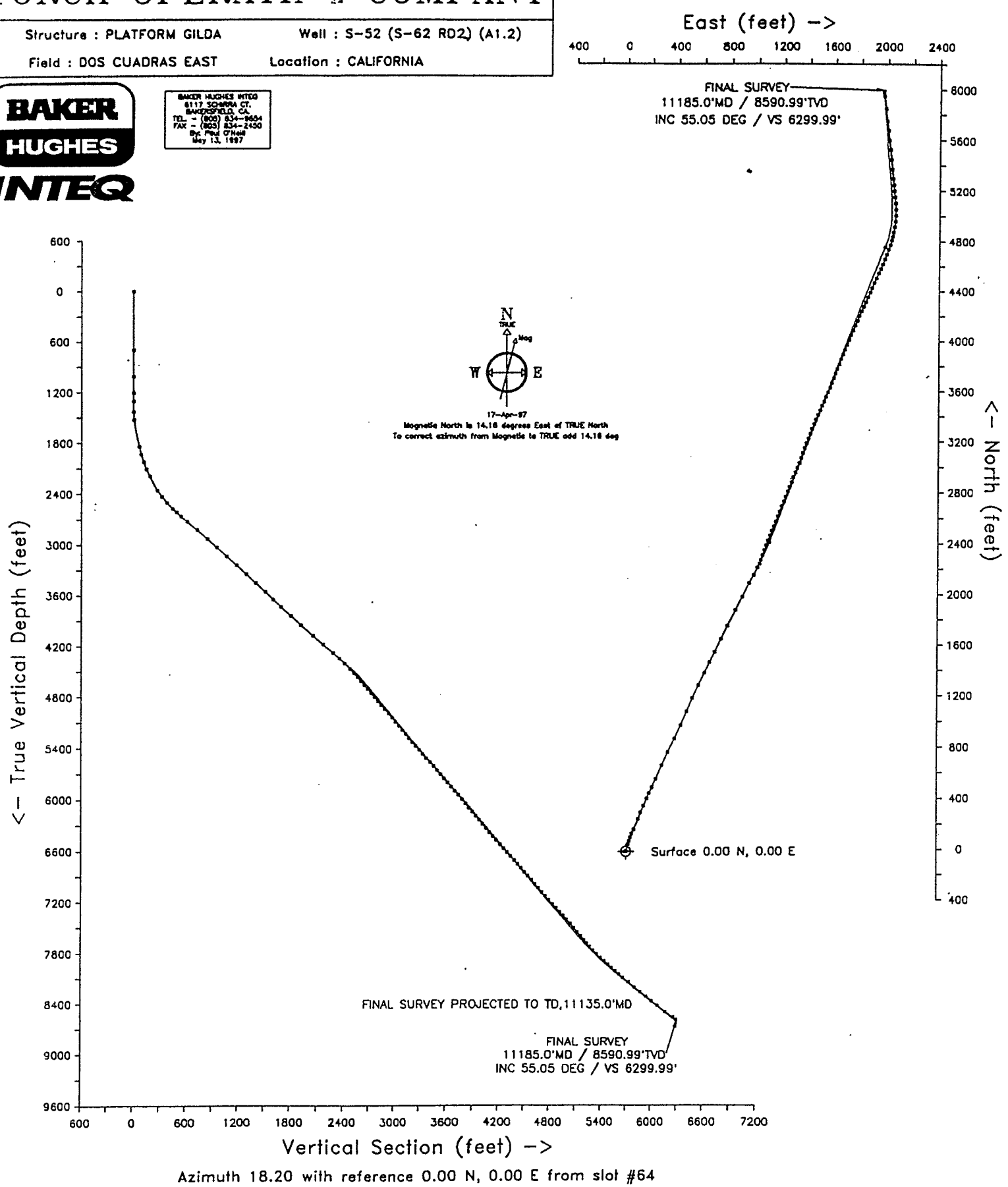
TORCH OPERATING COMPANY

Structure : PLATFORM GILDA Well : S-52 (S-62 RD2) (A1.2)

Field : DOS CUADRAS EAST Location : CALIFORNIA

BAKER HUGHES INTEQ

BAKER HUGHES INTEQ
6117 SIERRA CT.
BAKERSFIELD, CA.
TEL - (805) 834-9654
FAX - (805) 834-2450
Dic Paul O'Neill
May 13, 1997



Well Plan

Well Plan Report

Well Plan Report

Well Plan Report

CHANGE CHART AT 12 MIDNIGHT PART NO. 260145 PRINTED IN U. S. A.

DRILLING RECORDER

24 HOUR

1 HOUR

OPERATOR: Unocal NO: S-60

LOCATION: Santa Clara STATE: Fed Waters

COUNTY: Offshore T.D. OFF:

DATE ON: 8-3-94 T.D. ON:

FT. DRLD:

- ☐ FLUID PRESSURE
- ☐ PUMP STROKES
- ☐ TORQUE
- ☐ R P M
- ☐ % MUD FLOW
- ☐ % PIT LEVEL

WEIGHT IN 1000 POUNDS

PENETRATION

12:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 1:00

TEST #1
TEST #2
TEST #3
RESET TEST PLOG
TEST #4
TEST #5
TEST #6
TEST #7
TEST #8

COPY TO REGION

EPOCH WELL LOGGING, INC.

Bakersfield, CA (805) 397-7472

Ventura, CA (805) 658-7708

Anchorage, AK (907) 561-2474

COMPANY UNOCAL

WELL OCS-PT-2016 #S-60 Sidetrack #1(S-22 Redrill) Platform Gilda

FIELD Santa Clara

LOCATION Lambert Zone 6 X= 1,041,783' Y= 748,000'

COUNTY, STATE Federal Offshore, California

API WELL INDEX NO. 043-1120561-01

ELEVATION 107' R.T., 20' Water Depth

DATES 4-23-94 TO 4-25-94

DEPTHS 7871' TO 9135'

SPUD DATE (Kick-off) 4-8-94

DRILLING CONTRACTOR Veco Drilling Company RIG #Union 10

MUD COMPANY M-I Drilling Fluids, Inc.

MUD TYPE Seawater/Gelite-SF-101

LOGGING UNIT # 7

LOGGING GEOLOGISTS Paul Webster, Richard Dickerson

AUG 1 8 1994

ABBREVIATIONS

NB	NEW BIT	MW	MUD WEIGHT
	(MILL TOOTH/INSERT)	VIS	FUNNEL VISCOSITY
PDC	PC DIAMOND CUTTER	PV	PLASTIC VISCOSITY
RRB	RERUN BIT	YP	YIELD POINT
RTB	RETIP BIT	FL	FLUID LOSS
CB	CORE BIT	CL	PPM CHLORINE ION
TG	TRIP GAS	Rm	MUD RESISTIVITY
SG	SURVEY GAS	Rmf	FILTRATE RESISTIVITY
WG	WIPER GAS	LAT	LOGGED AFTER TRIP
CG	CONNECTION GAS	LAS	LOGGED AFTER SURVEY
WOB	WEIGHT ON BIT	NR	NO RETURNS
RPM	ROTARY REV/MIN	PR	POOR RETURNS
PP	PUMP PRESSURE	LCM	LOST CIRC. MATERIAL
SPM	STROKES/MIN	CO	CIRCULATE OUT

CASING RECORD

9 5/8" TO 6971'TOW

_____ TO _____

_____ TO _____

_____ TO _____

HOLE SIZE

8 1/2" TO TD

_____ TO _____

_____ TO _____

_____ TO _____

	SAND		CLAYSTONE		LIMESTONE	P	PORCELANITE
	SANDSTONE		CLAY	Z	DOLOSTONE		MACROFOSSILS
	SHALE		DIATOMITE	V	VOLCANICS		CEMENT
	SILTSTONE		CONGLOMERATE	X	INTRUSIVES		

CHERT

G	GLASSY
A	ARGILLACEOUS
P	PORCELANEOUS

PENETRATION

EPOCH WELL LOGGING, INC.

DRILL RATE (FT/HR)

drilling data

WOB - NOTED LINE (X 10s)

Note: Cross Hatched Bar In ROP Column Denotes Mudmotor w/ 0 Rotary RPM.

Window cut in 9 5/8" csg Top of Window(TOW) @ 6971' Bottom(BOW) @ 6991'

ANALYSIS OF RETURNS

DEPTH | LITHOLOGY | OIL: TRACE, STRONG TRACE SHOW, SHOW | GAS — UNITS | CHROMATOGRAPH — PPM

DITCH — TOTAL GAS

CUTTINGS GAS

CALIBRATION 100 units = 2% methane by volume

METHANE, C-1, _____

ETHANE, C-2, _____

PROPANE, C-3, _____

BUTANES, C-4, _____

PENTANES, C-5, _____

NOTE: ALL DEPTHS ARE R.T.

ROP 400 300 200 100 / WOB 40K 30K 20K 10K

WOB

NB #4, 8 1/2" FW STC MF1SH, 127Hrs, 32hrs

RD

WOB 12,000 Mudmotor w/ 50 RPM PP 1970 SPM #142-108

WOB 13-18,000 Mudmotor w/ 0 RPM

ROP 15-20,000 Mudmotor w/ 60 RPM PP 2010 SPM #142-112 4-24-94

WOB 15-20,000 Mudmotor w/ 0-60RPM PP 2100 SPM #142-110

WOB 20,000 Mudmotor w/ 0-50RPM PP 2100 SPM #142-110

WOB 20,000 Mudmotor w/ 0-50RPM PP 2100 SPM #142-110

4-25-94

WOB 15-25,000 Mudmotor w/ 60RPM PP 2100 SPM #142-110

TG Tr

Both Gases 1X

No CG's

Both Gases 1X

No CG's

Both Gases 1X

WG 3u-30min

No CG's

CG 1u

CG 1u

Both Gases 1X

CG 1u

CG 1u

CG Tr

CG Tr

CG 1u

WG 4u-30hrs

No CG

CG 3u

CG 10u

CG 180'

CG Tr

CG 2u

CG Tr

Both Gases 1X

CG 1u

No CG's

MW 12.7 VIS 45 PV 12 YP 13 FL 8.4 pH 10.4 Cl⁻ 20000 Sd ‡ Sol 19

C-1

C-3,2,1

C-1

C-1

tr C-2

C-1

C-1

C-1

C-2,1

C-1

C-1

C-1

C-3,1

C-5,2,4,3,1

C-4,1

C-5,2,4,3,1

C-4,1

C-5,2,4,3,1

C-4,1

C-5,2,4,3,1

C-4,3,1

C-3,1

C-1

Survey @ 7958' 30.2°, N55.2E 128.2'S,155.9'E

Survey @ 8051' 30.8°, N48.2E TVD 6959.6' 199.0'S,5591.9'E

Survey @ 8145' 32.0°, N42.4E TVD 5040.5' 164.2'S,5627.1'E

Survey @ 8240' 33.0°, N36.3E TVD 5119.4' 125.3'S,5659.1'E

Survey @ 8429' 34.3°, N21.5E TVD 5277' 33'S, 5709'E

Survey @ 8523' 36.6°, N16.9E TVD 5354' 18'N, 5726'E

Survey @ 8618' 38.8°, N12.7E TVD 5429' 74'N, 5741'E

Survey @ 8709' 39.5°, N10.2E TVD 5500' 130'N, 5753'E

Survey @ 8804' 39.2°, N6.0E TVD 5573' 190'N, 5761'E

Survey @ 8895' 40.2°, N6.7E TVD 5644' 247'N, 5767'E

Survey @ 8989' 39.2°, N7.1E TVD 5716' 306'N, 5775'E

Survey @ 9081' 39.6°, N7.1E TVD 5788' 364'N, 5782'E

Projected @ TD 39.6°, N7.1E TVD 5829' 398'N, 5786'E

REMARKS

LITHOLOGIC DESCRIPTION

MUD PROPERTIES

SURVEYS, OTHER TEST DATA

Formation: dom cement but w/incr quantities of sand; dom clr to transl; occ grnish; lower v fn to lower crs; priy srtd; dom qtz, com fspr, occ shrd/sl pcs + siltstone; olv gry w/strong brnish hues; rndd ctgs; mod firm; crumbly; tr to mod calc; occ arenaceous; no oil indicators.

Note: Mud system changed to mud system MW 12.7 VIS 45 PV 13 YP 13 FL 8.6 pH 10.8 Sol 19% Cl⁻ 20,000

Sand: predom v lt gry to wht, clr, tr v pl grn, pl pk; med to crs gr predom crs; pr to md srtg; gen ang to sbang; lo spher; chiefly fspr & qtz w/ tr pl grn and pl rd lithics; tr pyr, occ w/ in qtz gr; tr shell frags and calcite; mnr fl only; no oil & fil but tr irid sheen washed & unwshd spl; cut fl completely overshadowed by solvtex; no oil odor.

Clay: med to dk olv brn, grysh brn; v sft; thin to sli thk; mod solub, pasty to stky consist; tr shell frags, forams, pr oil.

Claystone: med to dk olv gry, tr w/ sli grysh hues; sft to sl f frm; sbrndd, sbblky ctgs; silty; tr kaol appr; mass s.uuc; occ w/ microfoss debris; sli to occ mod calc; grant in minor amts and is decr w/ depth; no oil fl, stn or cut fl.

Clay: dk olv gry; sft; thick; sticky to pasty consist; tr sli lumpy f; poorly indur clyst; mod to poor solub; malleable; gd cohes, fair to gd adhesv; occ contain consist amts of sand in gen; mod calc; tr shell frags and forams; silty appr; no oil stn, irid or free oil; mnr fl f ;nly; bulk cuts still contam f/ soltex.

MW 12.6 VIS 45

Sand: v lt gry overall, w/ clr, wht, lt to med gry, tr pl grn, pl rd lndin gr; lwr vfn to crs gr, dom med to crs; v poor si to rr hi spher, lyr v dull ang; arkosic; occ calc; tr chlor gr; rr dvol; tr blk mafics; rr foramns; no oil stn, fl or oil cut fl.

Clay: dk olv gry; thick; sticky to pasty consist; incr insol w/ depth rel to sh; gen sft and mod solub w/ v prly solub lumps; hi malleability; xcel cohes, adhes; variab sandy & silty; tr claystn in strx; no oil.

Wipe hole to 5 stands @ 8294'.

Siltstone: dsky to dk yelsh brn; dom rndd to coa sbblky ctgs; mod to sli firm; crumbly to mushy; fnly aren tex; no dol cmt; pin prtngs; v to mod calc; com grds to v fn gr sdst, occ grds to claystone; no oil indicators.

Sand: dom clr to transl, com lt gry, grnish, pi pink, wht; lower v fn to upper v crs(rnt/2.3mm), dom med; v prly srtd; ang to rnd, dom sbang; dom mod, occ lo + hi spher; dom qtz, com fspr, occ chloritized grs; no oil indicts.

Sand: dom clr to transl, com lt gry, grnish, occ pink, wht; lower v fn to lower v crs, dom l med; priy-v prly srtd; ang to rnd(but bcmg sli incr ang), dom sbang; mod, occ lo + hi spher; dom qtz, com fspr, no oil.

Sand: dom transl to clr, com grn to lt gry, occ wht, pink, blk; lower v fn to upper v crs, dom upper med; v prly srtd ang to rnd, dom sbang; dom mod, occ com lo, occ hi spher(rndng + hi spher cmnl used to finer grs); dom qtz, com fspr, occ mafics as qtz incrsle, occ to com chloritic rcktz stng, mnrl stnd qtz drvd f/Franciscan bcmng evid(trace chert); no oil indicators.

Siltstone: dk to dsky yelsh brn; rndd, hybrid ctgs; soft; mushy; grainy tex; homo; v calc; sp hi orgn debr; grds to silty ss v fn gr; no free oil or any other o

Sand: dom transl to clr, common milky, occ-com wht, lt gry, grn, occ pink; lower v fn to upper v crs, dom med; v prly srtd; ang to rnd, dom sbang; dom mod, occ-com lo, occ hi spher; dom qtz, occ-com fspr, qtz com mnrl stnd w/occ mafic incls; no free oil fl or any other oil indicators.

Siltstone: dk to dsky yelsh brn; rndd, hvbrid to flaky ctgs; soft to mod firm; soft to crumbly; grainy to sli aren tex; more ind w/sli bdng pn prtngs; v to mod calc; occ grds to v fn gr argil sdst; no oil indicators.

Sand: dom transl to clr, com grn, lt gry, occ wht, pink; lower v fn to occ upper v crs, dom upper med; v priy srtd; ang to rnd, dom sbang; dom mod, occ lo + hi spher; dom qtz, com fspr; no oil.

Wipe hole 6 stands inside window @7701'.

Sand: dom transl, com clr, lt gry to gry, grnsh, blsh, occ wht; lower v fn to lower crs, dom lo-er med; priy srtd; ang to sbrnd, dom sbang; dom mod to occ-com lo spher; dom qtz, com fspr, qtz is com mnrl stnd w/occ mafic incls; tr to 20% fnt yel spl fl v com med brn oil stng; fnt wh wxy wht. fl; fnt wht res cut fl; tr free oil f1 * trir; v sli petr odor f/bl.

Sand: essen as abv but w/tr chlorite mica; 80 to 100% fnt yel spl fl w/accom med brn oil stng; fast dull to mod brt whish yel cut fl; straw vis cut; mod brt wht res cut fl; tr lt brn res cut; mod v fnt yel free oil fl +mod to lo fnt irid; mod petr odor f/bl.

Sand: dom transl to clr, com lt to med gry, occ grnsh, blsh, wht , pink; lower v fn to occ upper v crs, dom upper med; v priy to v prly srtd; ang to sbrnd, dom sbang; dom mod to occ-com lo spher; dom qtz, com fspr , occ chloritic mica, qtz is com mnrl stnd grs + gry, occ chloritic rdctn stng; bgng w/80- fnt yel spl fl w/accom med oil stng but decr to 40-50% by 8920'; fet dullto mod brt whish yel cut fl; strw vis cut; dull to mod brt wht res cut fl; tr res cut; mod to scat fnt yellow free oil fl w/accom lo fnt irid ; sli petr odor f/bldngpn; cuts decr to dull fast wht cut fl, pl stw vis cut, dull wht res fl w/v sli petr odor f/bl by 8950'.

MW 12.8 FV 42 PV 12 YP 12 FL 8.6 pH 10.0 Cl⁻20000 Sd ‡ Sol 20

Sand: dom clr, abd transl, common gry, occ grn, wht; lower v fn to upper v crs, dom lower med; ang to occ rnd, dom sbang; dom mod, com-occ lo, occ hi spher; dom qtz, com fspr, occ chlorite mica, qtz com mnrl stnd; oil decr to 30-50% fnt yel spl fl w/accom med brn oil stng; wk cuts/cut fl, scat fnt yel free oil fl w/lo to no irid; v sli petr odor f/bldn.

Sand: dom clr to transl, com gry, occ wht, grn; lower v fn to upper crs, dom lower med; ang-sbrnd, dom sbang; dom mod to occ-com lo spher; dom qtz, com fspr, occ mica; oil indicators diminishing to none by bottom of interval.

DRILLER'S DEPTH 9135'R.T. TD

COPY TO REGION

EPOCH WELL LOGGING, INC.

Bakersfield, CA (805) 397-7472

Ventura, CA (805) 658-7708

Anchorage, AK (907) 561-2474

COMPANY UNOCAL

WELL OCS-P-2016 #S-60 (S-22 Redrill) Platform Gilda

FIELD Santa Clara

LOCATION Lambert Zone 6 X= 1,041,787' Y= 748,000'

COUNTY, STATE Federal Offshore, California

API WELL INDEX NO. 043-3103561-01

ELEVATION 107' R.T., 105' Water Depth

DATES 4-9-94 TO 4-13-94

DEPTHS 6691' R.T. TO 9045' R.T.

SPUD DATE (Rig-Off) 4-8-94

DRILLING CONTRACTOR Global Drilling Company RIG #Platform 'G'

MUD COMPANY M-I Drilling Fluids, Inc.

MUD TYPE Seawater/Gelex-XP-101

LOGGING ENGINEER(S) Dave Deutsch, Paul Wallace

Pump #1-6"/99" Pump #2-6"/99"

RECEIVED AUG 18 1994

ABBREVIATIONS

NB	NEW BIT	MW	MUD WEIGHT
	(MILL TOOTH=INSERT)	VIS	FUNNEL VISCOSITY
PDC	PC DIAMOND CUTTER	PV	PLASTIC VISCOSITY
RNB	RERUN BIT	YP	YIELD POINT
RTB	RETIP BIT	FL	FLUID LOSS
CB	CORE BIT	CL	PPM CHLORIDE ION
DD	DRILL DEEPER	SD	PERCENT SOLIDS
SS	SURVEY GAS	Pm	ALKALINITY
WG	WIPER GAS	LAT	LOGGED AFTER TRIP
CG	CONNECTION GAS	LAS	LOGGED AFTER SURVEY
WOB	WEIGHT ON BIT	NR	NO RETURNS
RPM	ROTARY REVMIN	PR	POOR RETURNS
PP	PUMP PRESSURE	LOT	LIGHT CIRC. MATERIAL
SPM	STROKES/MIN.	CO	CIRCULATE OUT

CASING RECORD

9 5/8" TO 4971'TVD	
TO	
TO	
TO	

HOLE SIZE

8 1/2" TO 9045'	
TO	
TO	
TO	

LITHOLOGY

- SAND
- SANDSTONE
- SHALE
- SILTSTONE
- CLAYSTONE/MUDSTONE
- CLAY
- DIATOMITE
- CONGLOMERATE
- LIMESTONE
- DOLOSTONE
- VOLCANICS
- INTRUSIVES
- PORCELANITE
- MACROFOSSILS
- CEMENT
- LIGNITE/WOODY FRAGS

CHERT

- GLASSY
- ANGULAR/CHUNKY
- PORCELANEOUS

PENETRATION ANALYSIS OF RETURNS REMARKS

WELL LOGGING INC.

DRILL RATE (FT/HR)

drilling data

WOB = DOTTED LINE (# lbs)...

Note: Cross Hatched Bar In ROP Column Denotes Mudmotor W/ 0 Rotary RPM.

OIL GAS — UNITS

DITCH — TOTAL GAS

CUTTINGS GAS

CALIBRATION 100 units = 2% methane by volume

NOTE: ALL DEPTHS ARE R.T.

CHROMATOGRAPH — PPM

METHANE, C-1 _____

ETHANE, C-2 _____

PROPANE, C-3 _____

BUTANES, C-4 _____4

PENTANES, C-5 _____5

REMARKS

LITHOLOGIC DESCRIPTION

MUD PROPERTIES

SURVEYS, OTHER TEST DATA

Note: Connection, wiper, survey and casihle gasses reported above background (+12) are as measured. Note: Gas detection equipt. malfunctions log follows Dwn...4 standards.

Note: Carbides 500gm.

Note: Lith colors referenced to Rock-Color Chart unless otherwise.

Note: All interval cuts are non-calcareous unless otherwise noted.

Note: Begin logging @ ROP 6991' (95-52ft/hr).

Survey @ 7000' 93°,3°, 580.7'E TVD 4239.9' S11.5°E,4099.7'

Bit 5b 3-jets 13-32nds 3-jets 13-32nds PX 8.6 ppg 10.8 CT 14,200psi

Note: Will no TOOH (Leak-Off test) POOH for tools.

Note: Mudmotor ** flush in solid shale; intermix lod tyni; dress w/ multi POOH for drilling tools.

Siltstone: dom olv gry w/comm strong brnsh hues; occ grd- de pelsh brn; flaky to long ,-gni splint; sft to firm; dull earthy to fnly grainy to occ sli waxy lus- ter; no evid stmc; v calc; occ dissem blk carb specks; occ shl fissu, forams; tr grds to argillaceous sandstone; no oil indications.

Sand: dom clr to transl, com wht, gry, brnsh gry, pink, v lt gry, in upper part; prly crse; sng to abnd, dom sbang; dom mod to com sr sphers; dom sub ang to sbrnd, frgs; com chloritized grn, v com dk mnrl grns; no oil indics.

Sand: dom clr, wh-sh, milky, com lt to dk gry, scattered grns, blu-gry, to brn, blk, orgnic, prly-sltly v fn to v crs, dom l- crs; tr shang to sbrnd; com sr sphers; dom sub ang- dom grg; abund feld; com lithics; dom meta and occ sedy; scattered mica, lt- shell frags; tr foramin; tr wk org sgl fl; v slow wk stream cut fl; no vis stn; no vis fluor; lt yel cut wh cut fl; tr org fl pops; no other oil attributes.

Clay: dk olive grnish-gry, brnish-gry & soft; mod thick to mod thick; sli platy cleavg; occ to com blky; occ to com earthy fract; occ gr to mod comm sbblky and sbsubbl; nonswellgr; sli plastic; nonpalatable; nonexpansive; calc; v slty, v sandy, lt shelf frags; no oil indics; no vis oil; tr fl pops and sheen.

Siltstone: mod to dk olive gry, occ brnish hues; soft to sli firmg; dull earthy lstr; v occ sparkling; smooth to dom sli rough tex; mod to occ thick bedd; occ laminae to thin bedd; scattered wk- to shell frags occ to tr v fn dissem sand; occ to sli argill grdng to minor claystone; no assoc oil indicators.

Sand: dom clr, milky, wh-sh, occ lt to dk gry, grnish, scattered brnish hues; v fn to fn, occ v fn to crs, dom fl med lr l crs; sng to dom shrnd to tr well rnd; mod to com pr sphers; mod sort; in- unconsolidated w com clay as- sociation; com lithics, scattered quartz, interbeds; dom sbang; com- tr mafics, dom mica; scattered lt- shell frags; occ sli calc cmt; occ sli dol cmt; tr v wk, com pale yel streaming cut fl; wk yel cut wh cut fl; no other oil attri- butes.

Clay: dk olive grysh-grn, olive brn, v soft; occ thick to v thick bedd; occ to com sft sticky; occ to com earthy fract; occ to com sbblky to sbsubcbe fmx; mod to occ pr sol; occ plasticity to mod; nonswellgr; nonexpansive; calc; com wisb, abund sand; no oil attri- butes.

Siltstone: olive brn & dk to dsky gry, occ brnish hues; occ to com grysh-brn; soft to occ firm to occ mod hd; massive; calc; occ to com carbonaceous matter; tr grds to silty- sst; v fn dissem sand; no oil indications.

Sand: dom clr, com wh-sh, milky, lt to dk gry, grnish-gry, occ orngish, yelsh, lt brn, pink; v fn to crs, dom l- sed; tr ang to sbrnd, dom sbang; com sr sphers; com pr sort, thin bedded to loose; com clay and silt matrix; dom grs; com feld; occ to com lithics; dom meta, com sedy, tr volc; tr mafics; dom mica; occ to com lt- shell frags; com wk- to mod streaming cut fl; wk yelsh

LEASE OCS P-0216 WELL NO. S-60RD FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
		AFE: # 645007 WORK PERFORMED: REDRILL
		(CONTINUED FROM S-22RD; RENAMED S-60RD)
4/08/94	6991'	Pulled out of hole with Baker setting tool. Ran in hole with whipstock, starting mill and MWD. Oriented whipstock and set face at 95° left of high side. Top of whipstock at 6970', KOP 6982'. Milled from 6970' - 6973'. Pulled out of hole. Ran in hole with window milling assembly. Milled window from 6970' - 6982' and formation to 6991'. Pulled out of hole.
4/09/94	6991'	Pulled out of hole. Ran in hole with dressing mill assembly. Dressed window from 6970' - 6982'. Cleaned out to 6991'. Circulated and conditioned. Performed LOT (15.1 ppg EMW). Pulled out of hole. Left window, string and watermelon mills in hole. Total fish 8.21' with top at 6982'. Ran in hole with fishing tools (5-5/8" grapple). Worked over fish. Pulled out of hole.
4/10/94	6992'	Pulled out of hole (no recovery). Redressed overshot with 5-3/4" grapple. Ran in hole with fishing assembly #2. Engaged fish and pulled loose. Pulled out of hole (100% recovery). Ran in hole with window dressing assembly. Dressed window from 6970' - 6982'. Cleaned out to 6991'. Milled formation to 6992'. Pulled out of hole. Ran in hole with drilling BHA #1.
4/11/94	7923'	Ran in hole to 6940'. Washed to 6952'. Directionally drilled to 7642'. Made wiper trip to shoe. Drilled to 7923'.
4/12/94	8453'	Drilled from 7923' - 8453'. Circulated and pulled out of hole. Tested BOPE. Ran in hole to 6800'. Circulated.
4/13/94	9045'	Circulated at 6800'. Ran in hole. Washed and reamed from 8323' - 8453'. Drilled to 8825'. Circulated bottoms up for 300 fph drilling break. Well static. Drilled to 9045'. Well flowing. Shut in. 20 bbls gain, SIDP = 150 psi, SICP = 250 psi. Circulated 11.2 ppg mud on choke. SIDP, SICP = 150 psi. Raised MW to 11.7 ppg and circulated. Pressure = 0 psi, well static. Opened well and circulated. Mud cut to 10.5 ppg. Shut in with 150 psi on casing. Circulated on choke until mud stabilized at 11.9 ppg. SICP = 175 psi. Built MW to 12.6 ppg.
4/14/94	9045'	Worked pipe. Weighted up to 12.6 ppg. Circulated 12.6 ppg mud - well static. Wiped hole to 8110'. Ran in hole to 9045'. Circulated and pulled out of hole. Made up underreamer and ran in hole. Underreamed to 10" from 7021' - 7113'.
4/15/94	9045'	Underreamed to 10" from 7113' - 7983'. Circulated and pulled out of hole. Changed out underreamer. Ran in hole. Washed and reamed from 7910 - 7983'. Underreamed to 8032'.
4/16/94	9045'	Underreamed from 8032' - 8345'. Lost 500 psi pump pressure, 15,000# weight. Pulled out of hole. Stabilizer box parted leaving 71.05' of fish in hole (underreamer, bit sub, X-O, 2 drill collars, stab). Top of fish at 8275'. Made up and ran in hole with overshot. Grapple hit top of whipstock at 6971' - unable to work by. Pulled out of hole. Ran in hole with 8-1/2" bit - unable to work past top of whipstock. Pulled out of hole.

LEASE OCS P-0216 WELL NO. S-60RD FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
4/17/94	9045'	Made up window mill assembly and ran in hole. Milled from 6969' - 6973'. Hung up while rotating at 6973'. Worked junk up hole to 6940' and freed mills. Pulled out of hole and checked blind rams. Made up window mill and worked through window to 7031'. Pulled out of hole. Made up 3 mill assembly and ran in hole. Milled at 6971'.
4/18/94	9045'	Milled to 6982'. Slid to 7013'. Circulated and pulled out of hole. Made up single window mill and ran in hole. Washed from to 8188' to top of fish at 8277'. Circulated and pulled out of hole. Made up overshot and ran in hole. Engaged fish at 8277'. Picked up to 200,000#. Slipped off. Unable to re-engage. Pulled out of hole. Made up 6.625" spiral grapple and packoff.
4/19/94	9045'	Ran in hole with 8-1/8" overshot. Engaged fish at 8277'. Jarred on fish. Released from fish. Pulled out of hole to 8090'. Circulated and pulled out of hole. Made up fishing assembly. Ran in hole. Engaged fish at 8277'. Jarred on fish. Overshot failed. Pulled out of hole.
4/20/94	9045'	Pulled out of hole. Spiral grapple stayed in hole. Made up 8-1/2" short catch overshot and ran in hole. Engaged fish at 8277'. Jarred on fish. Spotted 50 bbls of Versa-clean around fish. Jarred on fish. Rigged up wireline. Made up and ran in hole with freepoint. Stopped at 2942'. Pulled out of hole. Changed springs and added sinker bars. Ran in hole and measured freepoint at 8282' (bottom connection on stabilizer). Ran in hole with string shot at 8282'. Worked left hand torque and fired string shot. Lost torque. String back off at 5000'. Pulled out of hole with wireline. Screwed back into drill pipe. Ran in hole with string shot.
4/21/94	9045'	Jarred on fish. Ran in hole with string shot to 8282'. Fired shot. Appeared to back off overshot machine thread. Retighten jar on fish. Ran freepoint. Stretched at fish - no torque. Jarred on fish. Ran freepoint - no improvement. Picked up kelly and worked fish with hard rotation and stretch. Ran freepoint (40% free at stabilizer). Ran in hole with string shot to 8282' and attempted to back off stabilizer - negative.
4/22/94	9045'	Circulated 255 bbls of seawater and attempted to free fish - negative. Kill well with 12.7 ppg mud. Rigged up wireline. Raised MW to 12.9 ppg. Worked overshot loose while running in hole with string shot. Pulled out of hole with string shot. Rigged down wireline. Pulled out of hole. Made up 10 stands of 2-7/8" tubing on drill pipe and ran in hole to 8277'., Circulated and equalized 237 ft^3 Class "G" cement. Cement in place at 2330 hours.. Pulled out of hole to 7778' and circulated.
4/23/94	8136'	Circulated and pulled out of hole. Ran in hole and tagged top of cement at 7857'. Time drilled to 7898'. Drilled to 8136'.
4/24/94	9012'	Drilled from 8136' - 8294'. Circulated and wiped hole to 7452'. Worked tight hole from 8166' - 8073'. Drilled to 8701'. Circulated. Made wiper trip to shoe. Ran in hole to 8660'. Safety reamed to 8701'. Drilled to 9012'.
4/25/94	9136'	Directionally drilled from 9012' - 9136'. Circulated and pulled out of hole. Made up underreamer and ran in hole. Gauge reamed from 7021' - 7731'.

LEASE OCS P-0216 WELL NO. S-60RD FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
4/26/94	9136'	Gauge reamed from 7735' - 7871'. Underreamed from 7871' - 8003'. Circulated and pulled out of hole. Tested BOPE. Ran in hole with underreamer. Washed and reamed from 7971' - 8003'. Underreamed to 8384'.
4/27/94	9136'	Underreamed to 8634'. Pulled out of hole for possible washout. Found underreamer body washed out. Checked blind rams. Made up underreamer and ran in hole to 6900'. Repaired rotary table. Ran in hole. Washed and reamed from 8544' - 8634'. Underreamed to 9134'. Circulated and conditioned mud.
4/28/94	9136'	Pulled out of hole and laid down underreamer. Ran 58 joints, 2594.71, 7-5/8" 29.7# N-80 Hydril Supreme LX. Set shoe at 9125', top of hanger at 6530'. Circulated and conditioned. Rigged up cementers. Tested lines to 5000 psi. Pumped 5 bbls of water, 40 bbls of weighted preflush and cemented casing with 915 ft^3 Class "G" cement with 1.2% FL-62, .2% CD-32, and .2% R-3. Bumped plug with 2000 psi, increased to 3000 psi and set hanger. Released from hanger and pulled out of hole. Made up clean out assembly and ran in hole to 6527'.

7-5/8" 29.7# N-80 HYDRIL SUPREME CASING DETAIL

FROM	TO	LENGTH	JTS	DESCRIPTION
9124.71	9124.21	0.50		Baker Float Shoe
9124.21	9080.95	43.26	1	7-7/8" 29.7# N-80 Hydril Supreme LX
9080.95	9080.95	0.00		Baker Insert Type Float Collar
9080.95	9036.64	44.31	1	7-5/8" 29.7# N-80 Hydril Supreme LX
9036.64	9036.64	0.00		Baker Insert Type Landing Collar
9036.64	6544.67	2491.97	56	7-5/8" 29.7# N-80 Hydril Supreme LX
6544.67	6530.00	14.67		Brown Type Hydr. Set Hanger
			58	Total

4/29/94	9136'	Circulated out cement contaminated mud. Pulled out of hole. Rearranged tubulars in derrick. Ran in hole with 6-3/4" bit to 9037' (landing collar). Conditioned mud. Pulled out of hole to 6481'. Attempted to pressure test 9-5/8" X 7-5/8" lap. Pumped away at 5 BPM at 1000 psi. Pulled out of hole.
4/30/94	9136'	Continued pulling out of hole. Ran in hole with RTTS squeeze tool and set at 6280'. Pumped 197 ft3 Class "G" cement mixed with .7% FL-62, .2% CD-32. Squeezed 170 ft3 into lap leaving top of cement at 6481'. Pulled out of hole. Ran in hole with 8-1/2" clean out BHA. Waited on cement.
5/01/94	9136'	Cleaned out cement stringers from 6295'. Drilled firm cement 6485' - top of liner at 6530'. Pressure tested lap to 3000 psi for 30 minutes. Pulled out of hole. Ran in hole with 6-3/4" clean out BHA. Cleaned out cement from 6530' - 6642' and stringers from 6675' - 6680' and 7330' - 7335'. Ran in hole to 9022'. Circulated to 9036'. Conditioned mud. Pulled out of hole. Made up WSO tools.

LEASE OCS P-0216 WELL NO. S-60RD FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
5/02/94	9136'	Made and ran in hole with WSO tools. Rigged up test head and set packer at 6507', with tail at 6517'. Opened tools - faint blow. Monitored annulus (static). Closed tool. Unset packer and observed well. Pulled out of hole. Laid down WSO tools. Rigged up and ran in hole with wireline. Ran CBL/VDL/GAMMA RAY/CCL from 9036' - 6530'. Rigged down logging tools. Ran in hole with perforating guns - could not pass liner top at 6530'. Pulled out of hole and modified bullnose on perf guns. Ran in hole. Positioned guns and fired (9) 1/2" HPF, 60° phasing from 8908' - 8913'. Pulled out of hole. Rigged down wireline. Made up 6-3/4" bit and scraper.
5/03/94	9136'	Ran in hole to 9022'. Changed well fluid over to filtered seawater. Well started to flow. Shut well in. Shut in pressure = 1180 psi. Maintaining 1180 psi on casing and drill pipe. Made up 300 bbls 12.3 ppg brine.
5/04/94	9136'	Monitored well pressure build-up and worked on rotary table. Final pressure build-up = 1210 psi. Rigged up cementers and pressure tested lines. Performed injection test: less than 1/4 BPM at 3000 psi. Monitored bleed off: 1100 psi in 15 minutes. Bled well down. Pulled out of hole to 8402'. Removed IBOPE. Flowed well to trip tank. Rate = 1 bbl/5 minutes slowing to 1 bbl/15 minutes. Injected 12 bbls at 1/2 BPM and 3000 psi. Monitored bleed off. Surged well - no significant improvement in flowback. Pickled workstring with 6 bbls of HCL. Pumped 18 bbls of HCL into perfs at 8909' - 8913'. Final injection 1 BPM at 3000 psi.
5/05/94	9136'	Shut in well with 15% HCL in place. Soaked for 2 hours. Opened up and flowed 30 bbls. Ran in hole to 8952' and reversed out. Pulled out of hole to 8397'. Flowed well to trip tank. Performed injection test. Pumped 50 bbls at 2 BPM at 2950 psi. Surged well back by bleeding through choke. Attempted to inject - negative. Ran in hole and tagged fill at 8901'. Cleaned out to 8952'. Circulated and pulled out of hole to 8660'. Performed injection test. Pumped 40 bbls at 3 BPM at 2950 psi. Shut in well. Bled to 1700 psi in 30 minutes. Opened well and ran in hole to 8945' (7' additional fill). Cleaned out to 9022'. Circulated and pulled out of hole to 8801'. Closed well in. Pressure built to 920 psi.
5/06/94	9136'	Shut well in. Pressure built to 990 psi. Build 12.7 ppg mud volume. Bled well down through choke. Opened well. Ran in hole from 8801' - 9022' - no fill. Changed well fluid over to 12.7 ppg THIX-SAL fluid. Checked well for flow (negative). Pulled out of hole.
5/07/94	9136'	Pulled out of hole laying down 3-1/2" drill pipe. Tested BOPE to 200 psi/2100 psi. Annular 250/1450 psi. Measured, picked up (2520') and rattled 3-1/2" tubing. Ran in hole with 3-1/2" tubing and 5" drill pipe combo string. Tagged fill at 8946'. Cleaned out fill and pickled tubing by pumping 10 bbls 3% KCL water, 1000 gallons 15% HCL followed by 110 bbls seawater.

LEASE OCS P-0216 WELL NO. S-60RD FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
5/08/94	9136'	Pulled out of hole to 8174'. Installed safety valve and inside BOPE valve. Ran in hole to 8995'. Filled work string with 3% KCL and spotted 20 bbls across perfs. Pulled out of hole to 8714'. Removed inside BOPE valve and rigged up Halliburton. Set packer at 8619', pressured annulus to 200 psi and held for back pressure against packer. Tested lines. Pumped 50 bbls of seawater/3% KCL at 10 BPM. Final pressure of 3570 psi. ISIP 2800 psi. Performed step rate test at 1 - 10 BPM. Final injection pressure = 3950 psi. ISIP = 2900 psi. Injected 95 bbls of 80 PPT HEC at 14 BPM. Final pressure = 4160 psi. ISIP = 2800 psi. Pumped 4000 gallons of HEC pad at 5 - 15 BPM. Pumped 4500 gallons of HEC with 1 - 14 ppg of resin coated Proppant. Screened out at 25 bbls into flush. Sand injected = 20,000#. Reversed excess sand from drill string. Shut in to allow resin coated Proppant to cure. Monitored well.
5/09/94	9136'	Shut well in to allow sand cure. Monitored pressures 400 psi on workstring - 540 psi on casing. Attempted to circulate (negative), work string plugged. Bled down pressure, checked well for flow (negative). Pulled out of hole wet. Cleaned sand out of workstring and laid down tools. Ran in hole with 3-1/2" sawtooth collar on 3-1/2" 501 wedge - Lok tubing and drill pipe. Tagged sand at 8724', reversed out to 8816'. Unable to reverse any further. Circulated and cleaned out to 8824'.
5/10/94	9136'	Circulated out firm sand from 8818' - 8850'. Reverse circulated hole clean. Pulled out of hole. Pressure tested wellbore to 2500 psi. Rigged up Schlumberger lubricator. Ran in hole with perforating guns and perfed 9 (1/2") HPF from 8812' - 8817'. Monitored well - well static. Pulled out of hole with guns and rigged down well. Ran in hole with frac assembly. Tagged fill at 8809'. Reverse circulated out fill to 8850'.
5/11/94	9136'	Reverse circulated hole clean at 8850'. Pulled up 230' and installed IBOP. Ran back to 8830' and spotted 151 bbls KCL water down drill pipe. Pulled out of hole to 8620' and set packer at 8523'. Tested surface equipment to 7500 psi. Performed step rate (1-11 BPM up to 4400 psi) and data frac (1-66 BPM up to 4454 psi). ISIP 2800 psi. Analyzed data frac. Performed erosion treatment with 16 bbls of gel and 500# sand at 15 BPM. Rates up to 14.7 BPM and pressures to 4385 psi. ISIP 2470 psi. Performed frac: 143 bbls of pad, 131 bbls of gel with sand 1-14 ppg. Displaced with 37 bbls of KCL when screen out occurred. Maximum pressure 6000 psi, maximum rate 16.6 BPM. Bled off pressure. Reversed tubing clean.
5/12/94	9136'	Reversed hole clean. Pulled out of hole to 6320', slow. Dry pipe, continued out of hole. Broke down and laid out tools. Ran in hole with sawtooth collar on 3-1/2" tubing on 5" drill pipe. Tagged top of resin sand fill at 8667'. Cleaned out fill with kelly, reversing until clean to 8892'.
5/13/94	9136'	Cleaned out resin coated sand to 9022'. Reversed clean at 9022'. Pulled out of hole to 6500'. Serviced rig. Ran in hole. Reversed at 7723' - hole clean. Ran in hole to 9022' - no fill. Reverse circulated, hole clean. Pulled out of hole. Laid down 3-1/2" tubing. Checked blind rams. Installed test plug. Changed lower pipe rams to 2-7/8" and tested. Pulled test plug. Rigged up to run production equipment. Made up submersible pump.
5/14/94	9136'	Ran 2-7/8" production string, drifting and Hydrotesting. Made vertical splice at packer.

LEASE OCS P-0216 WELL NO. S-60RD FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS

3-1/2" 9.2# J-55 LINER DETAIL

FROM	TO	LENGTH	JTS	DESCRIPTION
8943.00	8942.30	0.70		3-1/2" Bull Plug Shoe
8942.30	8671.92	270.38	9	3-1/2" 9.2# J-55 NU 10 RD SSWW .016 Thinpack Pre-Packer Liner
8671.92	8649.04	22.88		Baker Lower Extension
8649.04	8645.89	3.15		Baker Seal Bore Gravel Packing Extension w/Sliding Sleeve
8645.89	8641.10	4.79		Baker Mill-Out Extension
8641.10	8636.40	4.70		Baker SC-1 76-A4-40 Packer
			9	Total

5/15/94 9136'

Completed splice. Ran in hole with production string. Landed tubing with back pressure valve in place. Tested seals. Nippled down BOPE. Nippled up and tested tree. Changed well over to filtered seawater. Released rig at 2000 hours.

PRODUCTION RATES:

5/16:	126/6	96% CUT	280/600 TBG/CSG
5/17:	129/7	95% CUT	340/390 TBG/CSG
5/18:	142/5	96% CUT	310/460 TBG/CSG
5/19:	147/6	95% CUT	240/460 TBG/CSG
5/20:	118/4	96% CUT	215/680 TBG/CSG
5/21:	106/1	99% CUT	130/700 TBG/CSG
5/22:	178/9	99% CUT	130/40 TBG/CSG
5/23:	166/8	95% CUT	130/40 TBG/CSG
5/24:	202/194	4% CUT	140/40 TBG/CSG
5/25:	207/135	35% CUT	145/40 TBG/CSG

UNOCAL
PLATFORM GILDA

S-60 SIDETRACK
slot #70
SANTA CLARA UNIT

S U R V E Y L I S T I N G

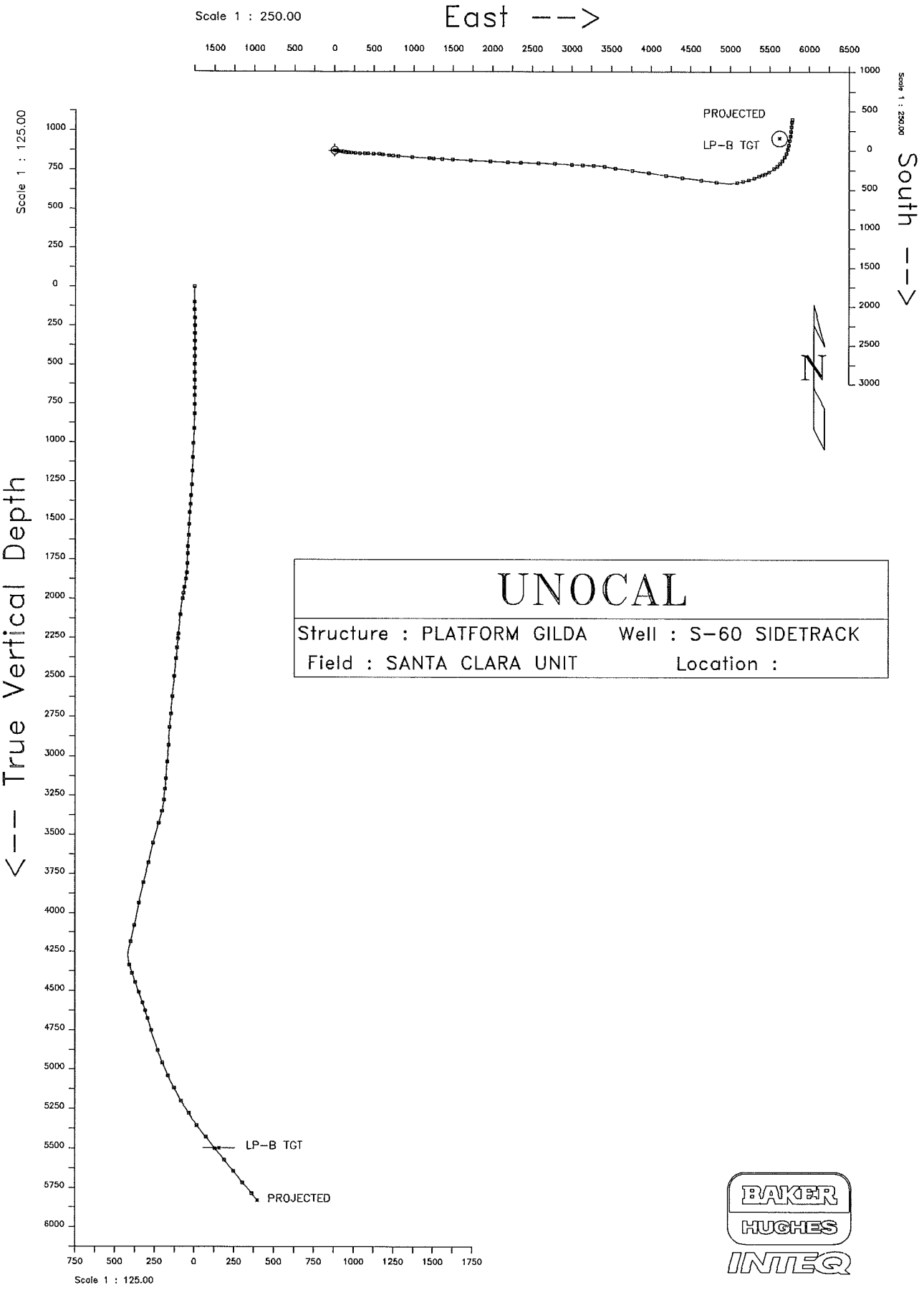
by
Baker Hughes INTEQ

Your ref : DMWD SIDETRACK
Our ref : svy3456
License :

Date printed : 14-Jul-94
Date created : 25-Apr-94
Last revised : 14-Jul-94

Field is centred on 1041733.000,747989.000,999.00000,N
Structure is centred on 1041733.000,747989.000,999.00000,N

Slot location is n34 10 56.561,w119 25 6.229
Slot Grid coordinates are N 748000.260, E 1041783.869
Slot local coordinates are 12.80 N 50.50 E
Reference North is True North



UNOCAL

Structure : PLATFORM GILDA Well : S-60 SIDETRACK

Field : SANTA CLARA UNIT Location :

BAKER HUGHES INTEQ

Vertical Section on 0.00 azimuth with reference 0.00 N, 0.00 E from slot #70

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
100.00	0.12	40.93	100.00	0.08 N	0.07 E	0.12	0.08
150.00	0.25	45.23	150.00	0.20 N	0.18 E	0.26	0.20
200.00	0.30	57.52	200.00	0.34 N	0.37 E	0.15	0.34
250.00	0.30	40.82	250.00	0.51 N	0.56 E	0.17	0.51
300.00	0.30	43.57	300.00	0.70 N	0.74 E	0.03	0.70
350.00	0.25	65.35	350.00	0.85 N	0.93 E	0.23	0.85
400.00	0.30	68.50	400.00	0.94 N	1.15 E	0.10	0.94
450.00	0.42	72.43	450.00	1.04 N	1.45 E	0.24	1.04
500.00	0.35	38.85	499.99	1.22 N	1.72 E	0.46	1.22
550.00	0.18	4.75	549.99	1.41 N	1.82 E	0.45	1.41
600.00	0.30	10.67	599.99	1.62 N	1.85 E	0.24	1.62
650.00	0.42	12.57	649.99	1.93 N	1.91 E	0.24	1.93
700.00	0.50	6.94	699.99	2.32 N	1.98 E	0.18	2.32
755.00	2.00	111.75	754.98	2.21 N	2.90 E	3.97	2.21
817.00	4.17	111.00	816.89	1.00 N	6.01 E	3.50	1.00
910.00	7.00	105.00	909.44	1.68 S	14.64 E	3.10	-1.68
1008.00	11.25	105.00	1006.17	5.70 S	29.65 E	4.34	-5.70
1100.00	15.00	98.00	1095.76	9.68 S	50.12 E	4.42	-9.68
1192.00	19.25	96.00	1183.66	12.93 S	77.00 E	4.66	-12.93
1285.00	23.75	96.00	1270.17	16.49 S	110.89 E	4.84	-16.49
1364.00	27.50	99.90	1341.39	21.29 S	144.70 E	5.20	-21.29
1426.00	30.10	97.50	1395.72	25.78 S	174.22 E	4.59	-25.78
1488.00	32.60	94.70	1448.66	29.18 S	206.28 E	4.66	-29.18
1581.00	37.40	95.00	1524.82	33.70 S	259.42 E	5.16	-33.70
1672.00	41.30	93.30	1595.18	37.84 S	316.95 E	4.45	-37.84
1769.00	43.10	91.80	1667.04	40.72 S	382.04 E	2.13	-40.72
1831.00	45.90	92.50	1711.26	42.36 S	425.46 E	4.58	-42.36
1924.00	47.90	90.80	1774.80	44.30 S	493.33 E	2.53	-44.30
2017.00	50.80	95.00	1835.39	47.92 S	563.76 E	4.63	-47.92
2079.00	52.60	96.80	1873.82	52.93 S	612.15 E	3.69	-52.93
2172.00	55.20	96.40	1928.61	61.56 S	686.79 E	2.82	-61.56
2237.00	57.70	97.10	1964.53	67.93 S	740.58 E	3.95	-67.93
2308.00	60.60	95.70	2000.94	74.71 S	801.15 E	4.42	-74.71
2514.00	60.30	93.30	2102.54	88.78 S	979.78 E	1.02	-88.78
2761.00	60.00	93.30	2225.48	101.11 S	1193.66 E	0.12	-101.11
2823.00	61.80	93.30	2255.63	104.23 S	1247.74 E	2.90	-104.23
2946.00	63.60	92.50	2312.05	109.75 S	1356.89 E	1.57	-109.75
3100.00	63.50	92.50	2380.64	115.77 S	1494.64 E	0.06	-115.77
3353.00	63.30	92.90	2493.92	126.42 S	1720.61 E	0.16	-126.42
3635.00	63.10	92.50	2621.07	138.28 S	1972.04 E	0.14	-138.28
3884.00	62.90	92.50	2734.12	147.96 S	2193.69 E	0.08	-147.96
4069.00	62.80	92.20	2818.54	154.71 S	2358.16 E	0.15	-154.71
4316.00	62.80	92.20	2931.44	163.14 S	2577.69 E	0.00	-163.14
4546.00	62.80	92.20	3036.57	170.99 S	2782.10 E	0.00	-170.99
4784.00	64.60	92.50	3142.02	179.75 S	2995.28 E	0.76	-179.75
4940.00	64.50	92.20	3209.05	185.52 S	3136.02 E	0.18	-185.52
5100.00	64.70	92.20	3277.68	191.07 S	3280.45 E	0.12	-191.07
5251.00	60.30	98.50	3347.45	203.40 S	3413.69 E	4.71	-203.40
5407.00	60.40	98.90	3424.62	223.91 S	3547.70 E	0.23	-223.91

All data is in feet unless otherwise stated
Coordinates from slot #70 and TVD from wellhead (214.00 Ft above mean sea level).
Vertical section is from wellhead on azimuth 0.00 degrees.
Declination is 14.11 degrees, Convergence is -1.74 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES	Dogleg Deg/100Ft	Vert Sect	
5659.00	59.30	98.50	3551.19	256.87 S 3763.10 E	0.46	-256.87	
5907.00	59.00	98.20	3678.36	287.79 S 3973.75 E	0.16	-287.79	
6157.00	58.90	98.20	3807.31	318.34 S 4185.74 E	0.04	-318.34	
6405.00	58.00	97.50	3937.07	347.21 S 4395.10 E	0.44	-347.21	
6684.00	60.40	96.80	4079.92	377.02 S 4632.87 E	0.89	-377.02	
6903.00	62.70	97.50	4184.25	401.00 S 4823.90 E	1.09	-401.00	
7000.00	62.50	97.34	4228.88	412.12 S 4909.30 E	0.24	-412.12	
7207.00	57.40	79.90	4333.10	408.54 S 5087.35 E	7.69	-408.54	
7302.00	53.50	75.30	4386.98	391.83 S 5163.74 E	5.72	-391.83	
7396.00	48.50	72.80	4446.13	371.82 S 5233.96 E	5.70	-371.82	
7490.00	47.30	69.30	4509.16	349.19 S 5299.91 E	3.04	-349.19	
7584.00	44.00	69.30	4574.86	325.44 S 5362.78 E	3.51	-325.44	
7652.00	40.30	67.50	4625.26	308.66 S 5405.21 E	5.72	-308.66	
7714.00	36.40	66.80	4673.88	293.74 S 5440.65 E	6.33	-293.74	
7806.00	32.30	61.60	4749.83	271.28 S 5487.40 E	5.48	-271.28	
7871.00	32.48	57.96	4804.73	253.76 S 5517.47 E	3.01	-253.76	
7958.00	30.20	55.20	4879.03	228.88 S 5555.25 E	3.10	-228.88	
8051.00	30.80	48.20	4959.19	199.65 S 5592.22 E	3.87	-199.65	
8146.00	32.00	42.60	5040.29	164.90 S 5627.40 E	3.32	-164.90	
8240.00	33.00	36.30	5119.59	125.92 S 5659.42 E	3.75	-125.92	
8335.00	33.60	27.80	5199.04	81.80 S 5687.01 E	4.95	-81.80	
8429.00	34.30	21.50	5277.04	34.13 S 5708.85 E	3.81	-34.13	
8523.00	36.60	16.90	5353.62	17.34 N 5726.71 E	3.74	17.34	
8618.00	38.80	12.70	5428.79	73.49 N 5741.49 E	3.56	73.49	
8709.00	39.50	10.20	5499.37	129.79 N 5752.89 E	1.90	129.79	
8804.00	39.20	6.00	5572.84	189.40 N 5761.38 E	2.82	189.40	
8895.00	39.20	6.70	5643.36	246.56 N 5767.74 E	0.49	246.56	
8989.00	39.20	7.10	5716.21	305.54 N 5774.88 E	0.27	305.54	
9081.00	39.40	7.10	5787.40	363.36 N 5782.08 E	0.22	363.36	
9135.00	39.40	7.10	5829.13	397.37 N 5786.31 E	0.00	397.37	PROJECTED

All data is in feet unless otherwise stated
Coordinates from slot #70 and TVD from wellhead (214.00 Ft above mean sea level).
Vertical section is from wellhead on azimuth 0.00 degrees.
Declination is 14.11 degrees, Convergence is -1.74 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Comments in wellpath

MD	TVD	Rectangular Coords.	Comment
9135.00	5829.13	397.37 N 5786.31 E	PROJECTED

Targets associated with this wellpath

Target name	Position	T.V.D.	Local rectangular coords.		Date revised
LP-B TGT	not specified	5497.00	156.00N	5624.00E	1-Mar-94

All data is in feet unless otherwise stated
Coordinates from slot #70 and TVD from wellhead (214.00 Ft above mean sea level).
Bottom hole distance is 5799.94 on azimuth 86.07 degrees from wellhead.
Vertical section is from wellhead on azimuth 0.00 degrees.
Declination is 14.11 degrees, Convergence is -1.74 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Entered for Monthly Report
MAY - 9 1994
MINERALS MANAGEMENT SERVICE

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PACIFIC OCS REGION

NOTED MCCARTH

INSPECTION OF OPERATIONS

O PARTIAL DRILLING O COMPLETE DRILLING O COMPLETION O ABANDONMENT

9473 Gilda MAL

O ANNOUNCED O UNANNOUNCED

Rig Name: HOC ID No.: 16 Date: 5-3-94 District: 51 Insp. Type: ____

Operator: Unocal ID No.: 003 Operator Rep.: Rick Reeville

Area: 6B Block: 4861 Lease: P-0216 Miles To Shore: 10 Well No: S-60

Well Type: D Permit MD: 9075 TVD: 5800 Approval Date: 2-8-94

Spud Date: 4-11-94 Water Depth: 205 Elevation: 102 RT/RKB TO ML: 312'

Present MD: 9134 TVD: 5789 Plug Back TD: NA P&A Date: NA

Present Operation: Prepairing to Sand frac.

Inspector(s)	Code No.	Insp. Hrs.	Trvl. Hrs.	Wait Hrs.	Total Hrs.
C. Encinas	26	6.5	0.50	0.0	7.00

PINC's Checked: 225 % Checked: 100 Entered In PC: Y File Copy Made: yes

FROM APPROVED APD

	Hole Size	Casing Size	Grade	Wt/Ft	Yield	Set At	Press. Test Casing	Press. Test BOP	CF Cmt.
Struc.									
Cond.	24"	20							
Surf.		16							
Inter.		13 3/8							
Prod.		9 5/8							
Liner	10"	7 5/8							

FROM FIELD INFORMATION

	Hole Size	Casing Size	Grade	Wt/Ft	Yield	Set At	CF Cmt.	Press. Test PSI	Press. Test Min.	WOC Hrs.
Struc.										
Cond.	24	20		94#		716				
Surf.	16	16		75#		1720				
Inter.		13 3/8		54.5/68#		4578				
Prod.		9 5/8		43.5		6920				
Liner	10	7 5/8		29.70		9124	714 SX	3000	30	24 hrs

09/91

PLATFORM _____ DATE _____

FORMATION PRESSURE INTEGRITY TEST

Casing	TVD	Mud Wt. (ppg)	Surf. Press.	EMW (ppg)	* MASP
Conductor					
Surface					
Intermed.					
Production					
Liner	5789	12.0	300		

BLOWOUT PREVENTER INFORMATION

					Test Press.	
BOP	Size	Work. Press.	** MATP	Test Date	Low	High
Ram	5X27/8 Var	3000	2500	4-26-94	250	2500
Annular	13 5/8	3000	2500	4-26-94	250	2500

MUD INFORMATION

Wt. (ppg)	pH	Visc.	Cl. (ppm)	Sks. Bar.	Sks. Gel
Seawater				1500 SX	110 Sk

Remarks: _____

*MASP: Maximum Allowable Surface Pressure

**MATP: Minimum Allowable Test Pressure

INC'S ISSUED

	INC No.	Enf. Act.	Shut-in Date	Time	Resume Date	Time
1.	None		___/___/___	___:___	___/___/___	___:___
2.			___/___/___	___:___	___/___/___	___:___
3.			___/___/___	___:___	___/___/___	___:___
4.			___/___/___	___:___	___/___/___	___:___
5.			___/___/___	___:___	___/___/___	___:___
6.			___/___/___	___:___	___/___/___	___:___

COMMENTS ON INC'S ISSUED

1. None
2. _____
3. _____
4. _____
5. _____
6. _____

NOTE: Report all inspection, travel, and wait time in hours and tenths of hours.

PINC NO.	IDENTIFICATION	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
G-100	Is the facility identified as required?	15(a)	W	/	/		
	OPERATIONS						
G-110	Does the lessee perform all operations in a safe and workmanlike manner, maintain all equipment in a safe condition, and take all necessary precautions to correct and remove any hazardous oil and gas accumulation or other health, safety, or fire hazard?	20(a) 20(b)	W/C/S	/	/		
G-113	Does the lessee make all facilities available for inspection by MMS personnel?	21(a)	W	/	/		
	Are all operations conducted in accordance with:						
G-114	Lease stipulations?	4(b)	W/C/S	/	/		
G-115	Approved applications?	64(a)	W/C/S	/	/		
G-116	Approved plans?	30	W/C/S	/	/		
	ENGINES						
G-150	Is exhaust piping from each diesel engine equipped with spark arresters?	123(b) (5)(i)	C	7	7		
G-151	Are all engine driven welding machines equipped with spark arresters and drip pans?	52(b)	C	/			/
G-152	Is each engine exhaust equipped to comply with the insulation and personnel protection requirements of API RP 14C, Section 4.2c(4), Fourth Edition, Sept. 1, 1986?	123(b) (5)(i)	C	7	7		
G-153	Are all engines with electrical ignition systems equipped with a low-tension ignition system?	53(a)	C	/			/
G-155	Are diesel engines which are continuously attended equipped with either remote operated manual or automatic air intake shutdown devices?	51(b)(2) 80/100 123(b) (5)(ii)	C	5	5		
G-156	Are diesel engines which are not continuously attended equipped with automatic air intake shutdown devices?	51(b)(2) 80/100 123(b) (5)(ii)	C	2	2		
	CRANES						
G-201	Are records of crane inspection, testing, maintenance, and operator qualifications maintained at the lessee's nearest field office?	51(g)	W	/	/		

PINC NO.	ELECTRICAL	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
G-231	Are all electrical installations made in accordance with API RP 14F, except Sections 7.4 and 9.4, Second Edition, July 1, 1985?	53(c)	W/C/S	/	/		
	MARKING OF EQUIPMENT						
G-250	Are all loose materials, small tools, and other small objects kept in a storage area or marked container when not in use?	40(c)(1)	W	/	/		
G-251	Are skid-mounted equipment, portable containers, spools or reels, and drums clearly marked with the owner's name?	40(c)(3) 40(c)(4)	W	/	/		
G-252	Are all markings durable enough to resist the affects of the environmental conditions to which they may be exposed?	40(c)(4)	W	/	/		
G-253	Are all materials, equipment, tools, containers and other items lost overboard recorded in the facility's daily operations report?	40(d)	W	/	/		
	WELDING AND BURNING						
G-300	Is a copy of the welding, burning and hot tapping plan and approval letter available on the facility?	52(b)	W	/	/		
G-301	Is a drawing showing the locations of safe welding and burning areas maintained on the facility?	52(c)	W	/	/		
G-302	Is all welding and burning equipment inspected by the welding supervisor or the lessee's designated person in charge prior to beginning any welding, burning, or hot tapping?	52(b)	C	/			/
G-303	Is equipment containing hydrocarbons or other flammable substances relocated at least 35 feet horizontally from the welding site, 35 feet horizontally from the point of impact of slag, sparks, or burning material at a lower elevation, or is it otherwise protected?	52(a)(4)	C	/			/
G-304	Are welding leads insulated and in good condition?	52(b)	C	/	/		
G-305	Are oxygen and fuel bottles secured in a safe place?	52(b)	W/C	6	6		
G-306	Are hoses leak-free and equipped with fittings, gauges, and regulators?	52(b)	C	/	/		

PINC NO.	WELDING AND BURNING (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
G-309	Prior to any welding or burning operation in areas other than approved, has the designated person in charge issued written authorization for the work?	52(d)(1)	C	/			/
	For welding and burning operations in areas other than approved safe welding and burning areas:						
G-310	Have all piping, containers, tanks, or other vessels which have contained a flammable substance been rendered inert?	52(d)(4)	C	/			/
G-311	Has one or more persons, with no other duties, been designated as fire watch?	52(d)(2)	C	/			/
G-312	Does the fire watch maintain a continuous surveillance with a portable gas detector during the welding or burning operation if the operation is in an area which is not equipped with a gas detector?	52(d)(2)	C	/			/
G-313	Does the fire watch have usable firefighting equipment in their possession?	52(d)(3)	C	/			/
G-314	Does the fire watch remain on duty for a period of 30 minutes after welding or burning operations have been completed?	52(d)(2)	W	/			/
G-315	Do the well(s) in the area where drilling, well-completion, well-workover, or wireline operations are in progress contain noncombustible fluids and is the entry of formation hydrocarbons into the wellbore precluded?	52(d)(5)	C	/			/
G-316	Are all producing wells in the well-bay or production area shut-in at the surface safety valve if welding or burning operations are conducted within 10 feet of the well-bay or production area?	52(d)(6)	C	/			/
G-317	Are all water-discharge-point sources from hydrocarbon-handling vessels monitored in order to stop welding or burning operations in case flammable fluids are discharged as a result of equipment upset or malfunction?	52(a)(3)	C	/			/
	POLLUTION PREVENTION						
E-100	Is the lessee preventing pollution of offshore waters?	40(a)	W/C	/	/		
E-101	Is the lessee disposing of drill cuttings, sand, and other well solids as approved?	40(b)(2)	C/S	/	/		

PINC NO.	POLLUTION PREVENTION (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
E-102	Is the facility equipped with curbs, gutters, and drip pans necessary to collect all contaminants not authorized for discharge?	40(b)(4)	C	16	16		
E-103	Is each drain piped to a sump system that automatically maintains the oil at a level to prevent discharge into offshore waters?	40(b)(4)	C	16	16		
E-105	Are all gravity drains equipped with a water trap or other means to prevent gas in the sump system from escaping through the drains?	40(b)(4) 67(m)(14)	W/C/S	16	16		
E-107	Is the lessee preventing the addition of petroleum-based substances to the mud system?	40(b)(1)	S	1	1		
E-108	Is the lessee preventing the disposal of equipment, cables, chains, containers, and other material into offshore waters?	40(b)(6)	W	1	1		
	INSPECTIONS AND REPORTS						
E-120	Are records of the daily pollution inspections maintained at the facility for 2 years?	41(a)	W	1	1		
E-121	Are records of the monthly pollution response equipment inspections kept for at least 2 years at a site designated in the Oil Spill Contingency Plan?	41(b)	W	1	1		
E-122	Is the pollution response equipment identified in the Oil Spill Contingency Plan maintained in accordance with the requirements in the plan?	42(d)	W/S	26	26		
E-123	Are pollution response equipment and materials identified in the Oil Spill Contingency Plan located at the designated site(s)?	42(f)	W/S	2	2		
	TRAINING AND DRILLS						
E-130	Are records of the pollution control equipment training class available?	43(a)	W	1	1		
E-131	Are the results of the pollution control equipment drills available for inspection?	43(b)	W	1	1		
E-132	Are the pollution control equipment drills conducted in accordance with the Oil Spill Contingency Plan?	43(b)	W	1	1		

PINC NO.	DRILLING	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
	GENERAL						
D-100	Is the drilling unit equipped with an operable traveling block safety device?	51(b)(1)	S	/	/		
D-101	Are results of the operational checks of the traveling block safety device entered in the driller's report?	51(b)(1)	W	/	/		
	DIRECTIONAL SURVEYS						
D-110	Are inclinational surveys obtained on all vertical wells at intervals not exceeding 1,000 feet?	51(e)(2)	S	/			/
D-111	Are directional surveys giving both inclination and azimuth obtained on all directional wells at intervals not exceeding 500 feet?	51(e)(2)	S	/	/		
D-112	Are directional surveys giving both inclination and azimuth obtained on all directional wells at intervals not exceeding 100 feet in all portions of the hole where angle changes are planned?	51(e)(2)	S	/	/		
D-113	Are directional surveys giving both inclination and azimuth obtained at intervals not exceeding 500 feet prior to or upon setting surface or intermediate casing, liners, and at total depth on all wells?	51(e)(3)	S	/			/
	MOVING DRILLING RIGS						
D-120	Are all wells in the same well-bay which are capable of producing hydrocarbons shut-in below the surface with a pump-through-type tubing plug and at the surface with a closed master valve prior to moving drilling rigs and related equipment?	51(h)	W/C	/	/		
	CASING PROGRAM						
D-150	Is casing set as approved?	54(a)	W	/	/		
D-152	Has a pressure-integrity test been run below the surface casing, the intermediate casing(s), and liner(s) used as intermediate casing(s)?	54(a)(6)	W/S	/			/
D-153	Are drilling operations suspended when the safe margin, as approved by the District Supervisor, between the mud weight in use and the equivalent mud weight at the casing shoe is not maintained?	54(a)(6)	W/S	/	/		

PINC NO.	CASING PROGRAM (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-154	Are the results of all tests and of hole-behavior observations made during the course of drilling related to formation integrity and pore pressure recorded in the driller's report?	54(a)(6)	W	/	/		
D-155	If the hole for the drive or structural casing was drilled, was a quantity of cement sufficient to fill the annular space back to the mud line used?	54(b)	W	/			/
D-156	Is cement fill in the annular spaces of the conductor casing verified by observation of cement returns, or in the event observation of cement returns is not feasible, is an additional quantity of cement used to assure fill to the mud line?	54(c)(2)	W/S	/			/
D-157	Is surface casing cemented with a quantity of cement that fills the calculated annular space to at least 200 feet inside the conductor casing or as approved or prescribed by the District Supervisor?	54(c)(3)	W/S	/			/
D-158	Have all casings, except the drive or structural casing, been pressure tested to 70% of the minimum internal-yield pressure of the casing or as otherwise approved by the District Supervisor?	55(a)	W/S	/			/
D-159	Are the results of all casing pressure tests recorded in the driller's report?	55(a)	W	/	/		
D-160	Is each production liner lap tested to a minimum of 500 psi above formation fracture pressure at the shoe of the casing into which the liner is lapped or as otherwise approved by the District Supervisor?	55(b)	W/S	/	/		
D-161	Is the drilling liner lap pressure test equal to or greater than the pressure that will be encountered at the liner lap when conducting planned pressure integrity tests below liner shoe?	55(b)	W/S	/	/		
D-162	Are results of the liner seal tests recorded in the driller's report?	55(b)	W	/	/		
D-163	Has the casing been pressure tested, calipered, or otherwise evaluated every 30 days during prolonged operations?	55(c)	W/S	/	/		
D-164	Is there proper waiting-on-cement time before drilling was resumed?	55(d)	W	/	/		

PINC NO.	BOP SYSTEMS AND COMPONENTS	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-200	Does the working pressure of all BOP components exceed the anticipated surface pressure to which they may be subjected?	56(c)	S	/	/		
D-201	Does the accumulator system provide sufficient capacity to supply 1.5 times the volume of fluid necessary to close and hold closed all BOP equipment units with a minimum of 200 psi above the precharged pressure without assistance from a charging system?	56(d)(1)	S	/	/		
D-202	Have accumulator regulators, supplied by rig air and without a secondary source of pneumatic supply, been equipped with manual overrides or, alternately, other devices provided to ensure capability of hydraulic operations if rig air is lost?	56(d)(1)	S	/	/		
D-203	Is an automatic backup accumulator charging system, supplied by a power source independent from the power source to the primary accumulator charging system, and possessing sufficient capability to close all BOP components and hold them closed, provided?	56(d)(2)	S	/	/		
D-204	Is at least one operable remote BOP control station, in addition to the one on the drilling floor, provided in a readily accessible location away from the drilling floor?	56(d)(3)	S	/	/		
D-205	Is a drilling spool with side outlets provided if side outlets are not provided in the body of the BOP stack to provide for separate kill and choke lines?	56(d)(4)	S	/	/		
D-206	Is there a choke and a kill line each equipped with two full opening valves?	56(d)(5)	S	/	/		
D-207	Is at least one of the valves on the choke line and on the kill line remotely controlled?	56(d)(5)	S	/	/		
D-208	Is a fill-up line installed above the uppermost preventer?	56(d)(6)	S	/	/		
D-209	Does the choke manifold and choke equipment subject to well and/or pump pressure have a rated working pressure at least as great as the rated working pressure of the ram-type BOP's or as otherwise approved by the District Supervisor?	56(d)(7)(i)	S	/	/		

PINC NO.	BOP SYSTEMS AND COMPONENTS (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-211	If buffer tanks are installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together, are isolation valves installed on each line?	56(d) (7)(iii)	S	/	/		
D-212	Do valves, pipes, flexible steel hoses, and other fittings upstream of, and including the choke manifold, have pressure ratings at least as great as the working pressure of the ram-type BOP's or as otherwise approved by the District Supervisor?	56(d)(8)	S	/	/		
D-213	Does the wellhead assembly have a rated working pressure that exceeds the anticipated surface pressure to which it may be subjected?	56(d)(9)	S	/	/		
D-214	On a conventional drilling rig, is an essentially full-opening kelly cock installed below the swivel (upper kelly cock)?	56(d) (10)(i)	S	/	/		
D-215	On a conventional drilling rig, is an essentially full-opening valve of such design that it can be run through the BOP stack (strippable) installed at the bottom of the kelly (lower kelly cock)?	56(d) (10)(i)	S	/	/		
D-216	With mud motor in service and while using drill pipe in lieu of a kelly, is one kelly cock located above and one strippable kelly cock located below the joint of drill pipe employed in lieu of a kelly?	56(d) (10)(i)	S	/	/		
D-217	On a top-drive system equipped with a remotely-controlled valve, is a second and lower strippable essentially full-opening valve installed?	56(d) (10)(i)	S	/			/
D-218	Is a wrench to fit each manually operated valve in a conventional drilling rig, mud motor, and top-drive system stored in a location readily accessible to the drilling crew?	56(d) (10)(i)	S	/	/		
D-219	Are the inside BOP and full-opening drill-string safety valves, fitting all sizes of pipe in the drill string, maintained in the open position on the rig floor at all times while drilling operations are being conducted?	56(d) (10)(ii)	S	/	/		
D-220	Is a safety valve available on the rig floor assembled with a compatible connection to fit the casing string being run?	56(d) (10)(iii	S	/			/
D-221	Are locking devices installed on the ram-type preventers?	56(d)(11)	S	/	/		
D-222	Prior to commencing tapered drill pipe operations, is the BOP stack equipped as required?	56(g)	S	/			/

PINC NO.	SURFACE BOP SYSTEMS	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-230	Is at least one of the valves on the kill line remotely-controlled, or is a check valve installed on the kill line in lieu of the remotely-controlled valve?	56(d)(5)	S	/	/		
D-231	If a check valve is installed in lieu of a remotely-controlled valve in the kill line, are two readily accessible manual valves in place and is the check valve placed between the manual valves and the pump?	56(d)(5)	S	/			1
D-232	Prior to drilling below surface or intermediate casing, is a BOP system installed consisting of at least four remote-controlled, hydraulically-operated BOP's including at least two equipped with pipe rams, one with blind rams, and one annular type?	56(f) 56(g)(2)	S	/			/
	SUBSEA BOP SYSTEMS						
D-240	Prior to drilling below the surface and intermediate casing, are there at least four remote-controlled, hydraulically-operated BOP's including at least two equipped with pipe rams, one with blind-shear ram, and one annular type?	56(e)(1) 56(g)(2)	S	/			/
D-241	Is a subsea accumulator closing unit or suitable alternative approved by the District Supervisor installed?	56(e)(1)	S	/			/
D-242	Does the BOP system include operable dual-pod control when drilling below the surface casing?	56(e)(2)	S	/			/
	BOP TESTS, ACTUATIONS, INSPECTIONS, AND MAINTENANCE						
D-250	Prior to conducting high pressure tests, are all BOP systems tested to a low pressure of 200 to 300 psi?	57(a)	W/S	/	/		
D-251	Are choke manifold valves, upper and lower kelly cocks, top drive, inside-BOP, and the drill-string safety valves pressure tested to pipe ram test pressures or as otherwise approved by the District Supervisor?	57(d)	W/S	/	/		
D-252	Are safety valves assembled with connections actuated prior to running casing?	57(d)	S	/			/
D-253	Are surface and subsea BOP systems pressure tested before drilling out each string of casing or before continuing operations in cases where cement is not drilled out?	57(e)(2)	W/S	/			/

PINC NO.	BOP TESTS, ACTUATIONS INSPECTIONS, AND MAINTENANCE (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-254	Was the reason for postponing pressure testing entered into the driller's report?	57(e)(3)	W	/	/		
D-255	Is pressure testing performed at intervals to allow each drilling crew to operate the equipment?	57(e)(3)	W	/	/		
D-256	Are blind and blind-shear rams actuated at least once every seven days?	57(e)(4)	W/S	/	/		
D-257	Are variable bore-pipe rams pressure tested againist all sizes of pipe in use?	57(e)(5)	W/S	/	/		
D-258	Are surface and subsea BOP systems pressure tested following the disconnection or repair of any pressure containment seal in the wellhead or BOP stack assembly, but limited to the affected component?	57(e)(6)	W/S	/	/		
D-259	Are BOP systems and marine risers visually inspected at least once each day?	57(f)	W	/	/		
	BOP TEST RECORDS						
D-260	Are the time, date, and results of all pressure tests, actuations, and inspection of BOP system, system components, and marine risers recorded in the driller's report or referenced documents?	57(h) 57(h)(4)	W	/	/		
D-261	Are BOP test pressures recorded on a pressure chart, unless otherwise approved by the District Supervisor?	57(g)	W	/	/		
D-262	Is the test interval for each BOP component tested sufficient to demonstrate that the component is effectively holding pressure?	57(g)	W	/	/		
D-263	Are BOP test pressure charts certified as correct by the operator's representative at the facility?	57(g)	W	/	/		
D-264	Does the documentation indicate the sequential order of BOP and auxiliary equipment testing and the pressure and duration of each test?	57(h)(1)	W	/	/		
D-265	Is the control station used during the test identified in the driller's report or referenced document?	57(h)(2) 57(h)(4)	W	/	/		
D-266	Are any problems or irregularities observed during BOP and auxiliary equipment testing and any actions taken to remedy such problems or irregularities recorded in the driller's report or referenced document?	57(h)(3) 57(h)(4)	W	/	/		

PINC NO.	BOP TEST RECORDS (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-267	Are all records including pressure charts, driller's report, and referenced documents of BOP tests, actuations, and inspections available at the facility for the duration of the drilling activity?	57(h)(4)	W	/	/		
D-268	Are all such records retained for a period of two years at the facility, at the lessee's field office nearest the facility, or at another location conveniently available to the District Supervisor?	57(h)(4)	W	/	/		
	SURFACE BOP TESTS						
D-270	Are surface BOP systems pressure tested when installed?	57(e)(1)	W/S	/	/		
D-271	Are ram-type BOP's and the choke manifold pressure tested with water to rated working pressure or as otherwise approved by the District Supervisor?	57(b)	W/S	/	/		
D-272	Is the annular-type BOP pressure tested with water to 70% of its rated working pressure or as otherwise approved by the District Supervisor?	57(b)	W/S	/	/		
D-273	Are surface BOP systems pressure tested at least once each week, but not exceeding 7 days between tests, alternating between control stations?	57(e)(3)	W/S	/	/		
	SUBSEA BOP TESTS						
D-281	Are subsea BOP system components stump pressure tested at the surface with water to rated working pressure?	57(c)	W/S	/			/
D-282	Are subsea annular-type BOP's stump pressure tested at the surface with water to 70% of their rated working pressure?	57(c)	W/S	/			/
D-283	After installation of the BOP stack on the seafloor: Are ram-type BOP's and choke manifold pressure tested to rated working pressure or as otherwise approved by the District Supervisor?	57(c)	W/S	/			/
D-284	Is the annular preventer pressure tested to 70% of its rated working pressure or as otherwise approved by the District Supervisor?	57(c)	W/S	/			/
D-285	Are subsea BOP systems tested at least once each week, but not exceeding seven days between tests, alternating between control stations and pods?	57(e)(3)	W/S	/			/

PINC NO.	SUBSEA BOP TESTS (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-286	Is the pod used during the test identified in the drillers report or referenced documents?	57(h)(2) 57(h)(4)	W	/			/
	WELL CONTROL DRILLS						
D-290	Are well-control drills conducted for each drilling crew as required?	58(a)	W	/	/		
D-291	Is a copy of the complete well control drill plan posted on the rig floor and/or bulletin board?	58(a)(2)	W	/	/		
D-292	Are drills conducted in accordance with the well-control plan?	58(a)(2)	W	/	/		
D-293	Are well-control drills recorded in the driller's report?	58(a)(3)	W	/	/		
	DIVERTER SYSTEMS						
D-300	When drilling a conductor or surface hole, is the drilling unit equipped with a diverter system consisting of a diverter sealing element, diverter lines, and control systems unless otherwise approved by the District Supervisor for floating drilling operations?	59(a)	S	/			/
D-301	Is the diverter system equipped with remotely-controlled valves in the flow and vent lines that can be operated from at least one remote control station in addition to the one on the drill floor?	59(c)	S	/			/
D-302	Are the diverter sealing element, diverter valves, and diverter control systems, including the remote-control system, actuation tested and the vent lines flow tested when first installed?	59(f)	W	/			/
D-303	Are subsequent actuation tests of the diverter sealing element, diverter valves, and diverter control systems, including the remote-control system conducted at least once every 24-hour period alternating between control stations?	59(f)	W	/			/
D-304	Are all valves used in the diverter system full-opening?	59(c)	S	/			/
D-305	Are all right-angle and sharp turns in the diverter lines targeted?	59(c)	S	/			/
D-306	If flexible hose is used for diverter lines instead of rigid pipe, does the flexible hose have integral couplings?	59(c)	S	/			/

PINC NO.	DIVERTER SYSTEMS (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-307	Is the entire diverter system firmly anchored and supported to prevent whipping and vibration?	59(c)	S	/			/
D-308	Are all diverter control instruments and lines protected from physical damage from thrown and falling objects?	59(c)	S	/			/
D-309	Are all pressure tests, flow tests, and actuation results recorded in the driller's report?	59(f)	W	/			/
D-311	If the diverter system utilizes only one spool outlet, are branch lines installed to provide downwind diversion capability?	59(d)(1) 59(e)(1)	S	/			/
	SURFACE DIVERTER SYSTEMS						
D-322	Is the minimum spool outlet and diverter line internal diameter at least 10 inches?	59(d)(2)	S	/			/
D-323	If dual spool outlets are utilized, does each outlet have a minimum internal diameter of at least 8 inches?	59(d)(2)	S	/			/
D-324	If dual spool outlets are utilized, are both outlets piped to overboard lines?	59(d)(2)	S	/			/
D-325	If dual spool outlets are utilized, does each line downstream of the changeover nipple at the spool have a minimum internal diameter of 10 inches?	59(d)(2)	S	/			/
D-326	Are diverter sealing elements and diverter valves pressure tested to a minimum of 200 psi when nippled up on conductor casing, with no more than 7 days elapsed time between subsequent tests?	59(f)	W	/			/
	SUBSEA DIVERTER SYSTEMS						
D-333	Are all spool outlet and diverter line internal diameters at least 12 inches?	59(e)(2)	S	/			/
D-334	On dynamically-positioned drill ships, is vessel heading maintained to allow for downwind diversion?	59(e)(3)	S	/			/
	MUD PROGRAM						
D-400	Has mud been properly conditioned by circulation before starting out of the hole with drill pipe, or is there proper documentation in the driller's report that circulation was not necessary?	60(b)(1)	W	/	/		

PINC NO.	MUD PROGRAM (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-401	When coming out of the hole with drill pipe, is the annulus filled with mud before the change in mud level decreases the hydrostatic pressure 75 psi, or every 5 stands of drill pipe, whichever gives a lower decrease in hydrostatic pressure?	60(b)(3)	W	/	/		
D-402	Has the number of stands of drill pipe and drill collars that may be pulled prior to filling the hole and the equivalent mud volume been calculated and posted near the driller's station?	60(b)(3)	W	/	/		
D-403	For each casing string, is the maximum pressure to be contained under the BOP posted near the driller's station?	60(b)(6)	W	/	/		
D-405	Is an operable mud-gas separator and degasser installed in the mud system prior to start of drilling and maintained for use throughout the drilling of the well?	60(b)(8)	S	/	/		
D-406	Is the mud circulated or reverse circulated prior to pulling the drill-stem test tools?	60(b)(2) 60(b)(9)	W	/	/		
D-407	Is mud testing equipment maintained on the drilling rig at all times?	60(c)(1)	S	/	/		
D-408	Are mud tests performed once each tour, or more frequently, as conditions warrant?	60(c)(1)	W	/	/		
D-409	Are results of mud tests recorded in the driller's report?	60(c)(1)	W	/	/		
D-410	Is a recording mud-pit level indicator with audible and visual warnings installed and used?	60(c) (2)(i)	S	/	/		
D-411	Is a mud-volume measuring device used to determine the mud volumes required to fill the hole on trips?	60(b)(3) 60(c) (2)(ii)	S	/	/		
D-412	Are mud-return indicator devices which indicate the relationship between mud-return flow rate and pump discharge rate installed and used?	60(c) (2)(iii)	S	/	/		
D-413	Is operable gas-detecting equipment installed to monitor drilling mud returns, with indicators located on the rig floor or in a continuously manned mud-logging unit having immediate communication with the rig floor?	60(c) (2)(iv)	S	/	/		
D-414	Are minimum quantities of mud and mud materials maintained at the drill site as necessary to ensure well-control?	60(d)(1) 60(d)(3)	W/S	/	/		

PINC NO.	MUD PROGRAM (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-415	Are records of daily inventories of mud and mud materials maintained at the well site?	60(d)(2)	W	/	/		
	MUD-HANDLING AREAS CLASSIFIED AS WHERE DANGEROUS CONCENTRATIONS OF GAS MAY ACCUMULATE						
D-421	If not continuously activated, are mechanical ventilation systems activated on signal from gas detectors indicating the presence of 1% or more of gas by volume?	60(e)(1)	S	/	/		
	Are all classified mud-handling areas:						
D-422	Equipped with high capacity mechanical ventilation systems unless such ventilation is provided by natural means?	60(e)(1)	S	/	/		
D-423	Maintained at a negative pressure relative to an adjacent area if mechanical ventilation is installed and discharges may be hazardous?	60(e)(2)	S	/	/		
D-424	Which are maintained at a negative pressure, protected with one of the following: (i) a pressure-sensitive alarm, (ii) open-door alarms on each access to the area, (iii) automatic door closing devices, (iv) air locks, or (v) other devices approved by the District Supervisor?	60(E)(2)	S	/	/		
D-425	Fitted with gas detectors and alarms except in open areas where adequate ventilation is provided by natural means?	60(e)(4)	S	/	/		
D-426	Equipped with either explosion proof or pressurized electrical equipment to prevent the ignition of explosive gases?	60(e)(4)	S	/	/		
D-427	Where air is used for pressurizing, is the air intake located outside of, and as far as practical from, hazardous areas?	60(e)(4)	S	/	/		
D-428	Are mechanical ventilation systems fitted with alarms which are activated upon failure of the system?	60(e)(5)	S	/	/		
D-429	Are gas detection systems tested for operation and recalibrated at a frequency such that no more than 90 days shall elapse between tests?	60(e)(6)	W/S	/	/		
	SECURING OF WELLS						
D-440	Is a downhole safety device such as a cement plug, bridge plug, or packer installed when drilling operations are interrupted by events such as those which force evacuation of the drilling crew, prevent station keeping, or require repair to major drilling or well control equipment?	61	W	/	/		

PINC NO.	SUPERVISION, SURVEILLANCE, AND TRAINING	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
D-450	From the time drilling operations are initiated and until the well is completed or abandoned, is the well continuously under surveillance unless the well is secured with BOP's, bridge plugs, packers, or cement plugs?	63(b)	W	/	/		
D-451	Are lessee and drilling contractor personnel trained and qualified in accordance with Subpart O of 30 CFR 250?	63(c)	C	/	/		
D-452	Are records of specific training, which lessee and drilling contractor personnel have successfully completed, the dates of completion and the names and dates of courses maintained at the drill site?	63(c)	W	/	/		
	APPLICATIONS FOR PERMIT TO DRILL						
D-460	Does the lessee have written or oral approval to drill the well?	64(a)	S	/	/		
D-461	Does the lessee have written or oral approval to change plans, make changes in major drilling equipment, deepen or plug back a well, or engage in similar activities?	65(a)	S	/			/
	HYDROGEN SULFIDE						
H-100	Is a copy of the approved H_2S Contingency Plan available in the field area until operations are completed?	67(h)(1)	W/S	/	/		
H-101	Are at least two safe briefing areas established?	67(h)(1)(iv)	S	/	/		
H-102	Are all personnel informed of the hazards of H_2S and of SO_2 resulting from burning H_2S and instructed in the provisions for personnel safety contained in the H_2S Contingency Plan?	67(h)(2)(i)	C	/	/		
H-103	Are all personnel instructed in the use of safety equipment which they may be required to use?	67(h)(2)(ii)	C	/	/		
H-104	Are all personnel informed of the location of protective-breathing equipment, H_2S detectors and alarms, ventilation equipment, briefing areas, warning systems, evacuation procedures, and the direction of prevailing winds?	67(h)(2)(iii)	C	/	/		
H-105	Are all personnel informed of the restrictions and corrective measures concerning beards, spectacles, and contact lenses in conformance with ANSI Z88.2?	67(h)(2)(iv)	C	/	/		

PINC NO.	HYDROGEN SULFIDE (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
H-106	Is safety information prominently posted on the facility?	67(h) (2)(v)	W	/	/		
H-107	Is safety information prominently posted on vessels serving the facility?	67(h) (2)(v)	W	/			/
H-108	Does each person receive a training session upon arrival at the facility?	67(h) (2)(vi)	W	/	/		
H-109	Does each person participate in a drill within 24 hours after duty begins?	67(h) (2)(vi)	W	/	/		
H-110	Has a weekly H_2S drill and training session been held?	67(h) (2)(vi)	W	/	/		
H-111	Are records of attendance at the weekly drills and training sessions maintained at the facility?	67(h) (2)(vi)	W	/	/		
H-112	Have all personnel been instructed in basic first-aid procedures applicable to victims of H_2S exposure?	67(h) (2)(vii)	C	/	/		
	Is the following equipment readily available for use:	67(h) (2)(vii)					
H-113	A first-aid kit of appropriate size and content for the number of personnel on the facility?		W	3	3		
H-114	Resuscitators complete with face masks, oxygen bottles, and spare oxygen bottles?	67(h) (2)(vii) & (7)(v)	S	/	/		
H-115	At least one litter or equivalent device?	67(h) (2)(vii)	W	/	/		
H-116	Are personnel informed of the meaning of all warning signs?	67(h) (2)(viii)	C	/	/		
H-117	Is wind-direction equipment installed?	67(h) (3)(i)	S	/	/		
H-118	Are operational danger signs and rectangular red flags available for use?	67(h) (3)(ii)	W	/	/		
H-119	Are public address system and a siren, horn, or other similar warning devices with a unique sound used only for H_2S warnings installed?	67(h)(4)	S	/	/		
H-120	Does the facility have an H_2S-detection and H_2S-monitoring system which activates audible and visual alarms when the atmospheric concentration reaches 20 ppm and is capable of sensing a minimum of 10 ppm of H_2S with sensing points at the bell nipple, shale shaker, mud pit area, driller's station, living quarters, and other areas where H_2S might accumulate?	67(h) (5)(i)	S	/	/		

PINC NO.	HYDROGEN SULFIDE (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
H-126	Is the H_2S-detection and H_2S-monitoring equipment calibrated?	67(h)(5)(ii)	S	/	/		
H-127	Are H_2S-detection ampoules or any other comparable H_2S-monitoring devices available for use by all personnel?	67(h)(5)(iii)	S	/	/		
H-128	Are pressure-demand-type respirators immediately accessible to all personnel on the facility?	67(h)(6)(i)	S	/	/		
H-130	Is protective-breathing equipment stored at locations that are quickly and easily accessible to all personnel?	67(h)(6)(ii)	S	/	/		
H-131	Are all breathing-air bottles labeled as containing breathing-quality air for human use?	67(h)(6)(iii)	C	/	/		
H-132	Do vessels attendant to facilities carry appropriate protective-breathing equipment for each crew member?	67(h)(6)(iv)	C	/			/
H-133	Do helicopters attendant to facilities operating in known H_2S zones carry pressure-demand-type respirators for the flight crews?	67(h)(6)(v)	C	/			/
H-134	Do facilities operating in unknown H_2S zones store pressure-demand-type respirators immediately accessible to the heliport for the use of flight crews?	67(h)(6)(v)	C	/	/		
H-135	Are all members of flight crews trained in the use of the particular type(s) of respirator equipment made available?	67(h)(6)(v)	C	/			/
H-136	Is a system of breathing-air manifolds, hoses, and masks provided on the facility and in the briefing areas?	67(h)(6)(vi)	S	/	/		
H-137	Is a cascade air-bottle system provided for the breathing-air manifolds and to refill individual protective-breathing apparatus bottles?	67(h)(6)(vi)	S	/	/		
H-138	If the cascade air-bottle system is recharged by high-pressure compressor suitable for providing breathing-quality air, is the compressor suction located in an uncontaminated atmosphere?	67(h)(6)(vi)	S	/	/		
	Is the following personnel-safety equipment available:						
H-139	Portable H_2S detectors?	67(h)(7)(i)	S	/	/		
-140	Retrieval ropes with safety harnesses to retrieve incapacitated personnel from contaminated areas?	67(h)(7)(ii)	W	/	/		

PINC NO.	HYDROGEN SULFIDE (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
	Is the following personnel-safety equipment available (cont.):						
H-141	Chalkboards and/or note pads for communication purposes located on the rig floor, shale-shaker area, the cement-pump rooms, well-bay areas, production processing equipment area, gas compressor area, and pipeline-pump area?	67(h)(7)(iii)	W	/	/		
H-142	Bull horns and flashing lights?	67(h)(7)(iv)	S	/	/		
H-144	Are all ventilation devices explosion-proof and situated in areas where H_2S or SO_2 may accumulate?	67(h)(8)	C/S	/	/		
H-145	Are movable, multidirectional ventilation devices capable of dispersing H_2S or SO_2 vapors away from working personnel provided in the work areas?	67(h)(8)	C	/	/		
H-146	If water-based, well-control fluids are used, and if H2S is detected by air sensors, has the Garrett-Gas-Train test or comparable test techniques for soluble sulfides been conducted?	67(i)(2)	W	/			/
H-147	Are sufficient quantities of additives for the control of H_2S, well control fluid pH, and corrosion of equipment maintained on the facility if operating in zones known to contain H_2S?	67(i)(3)	S	/	/		
H-148	Prior to drilling into a known H_2S-bearing zone, are scavengers for circulation throughout the system available on the facility?	67(i)(3)(i)	S	/	/		
H-149	Is the pH of water-based well-control fluids maintained at a minimum of 10.0 prior to drilling into and during drilling, completion, or workover operations in a known H_2S zone?	67(i)(3)(ii)	W	/	/		
H-150	Is a degasser and a closed flare system installed to collect and burn gases removed from well control fluids when operating in a zone known to contain H_2S?	67(i)(4)	W	/	/		
H-151	Is a safety meeting conducted for all personnel who will be on the facility prior to well testing in a zone known to contain H_2S?	67(k)(1)	C	/	/		
H-152	Are all gases produced during testing burned through the flare system when testing in a zone known to contain H_2S?	67(k)(3)	S	/			/

PINC NO.	HYDROGEN SULFIDE (Cont.)	AUTHORITY	ENF. ACT.	# CK.	# YES	# NO	# NA
	When operating in a known H_2S zone:	67(m)(7)	S				
H-153	Are flare line outlets located on the downwind side and as far from the facility as is feasible?			/	/		
H-154	Is the flare outlet equipped with an automatic ignition system including a pilot-gas source or an equivalent system?	67(m)(7)	S	/	/		
H-155	Is an alternate method available for igniting the flare?	67(m)(7)	W	/	/		
H-159	Are H_2S levels continuously monitored in the work areas when pulling a wet string of drill pipe, circulating bottoms-up, cementing, logging, or circulating to condition well-control fluids?	67(m)(1)	W/S	/	/		
H-160	Is protective breathing equipment worn by personnel in the work area at least 10 stands in advance of retrieving the core barrel during coring operations?	67(m)(2)	W/S	/			/
H-161	Are all cores to be transported sealed and marked for the presence of H_2S?	67(m)(2)	W/S	/			/
H-162	Is well-control fluid in use for logging operations conditioned and treated to minimize the effect of H_2S on the equipment?	67(m)(3)	W/S	/	/		
H-163	Are displaced well-control fluids monitored during stripping operations?	67(m)(4)	W/S	/	/		
H-164	Is protective breathing equipment worn by personnel in the work area when the concentration of H_2S reaches or exceeds 20 ppm or if the well is under pressure during stripping operations?	67(m)(4)	W/S	/			/
H-165	Is protective breathing equipment worn by personnel in the work area prior to and subsequent to bottoms up when circulating out a kick and during extended kill operations?	67(m)(5)	W/S	/			/
H-167	Are lubricators which may be exposed to fluids containing H_2S made of H_2S-resistant materials?	67 (m)(9)	W/S	/	/		
H-168	Are metals used for sensing lines and safety-control devices which are exposed to H_2S bearing fluids constructed of H2S corrosion resistant materials or coated with appropriate materials so as to resist corrosion?	67 (m)(11)	W/S	/	/		
H-169	Are all seals which may be exposed to fluids containing H_2S made of H_2S resistant material?	67 (m)(12)	W/S	/	/		

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
10/96	1300	564	2108	1323	492	434	62	1300	564
11/96	1303	437	2130	1307	388	335	62	2602	1001
'96	1457	509	2201	1465	443	349	60	4060	1510
Tot/ 96	4060	1510	6439	4095	1323				
01/97	1057	549	2139	1057	481	519	67	5117	2059
02/97	1222	495	1624	1216	428	405	57	6339	2554
03/97	1569	649	1705	1562	563	414	52	7908	3203
04/97	815	266	2146	832	232	326	72	8723	3469
05/97	973	404	2170	969	351	415	69	9696	3873
06/97	1039	89	1830	1039	78	86	64	10735	3962
07/97	1159	222	1860	1154	201	192	62	11894	4184
08/97	701	562	2201	709	526	802	76	12595	4746
09/97	131	129	632	141	122	983	83	12726	4875
10/97	0	0	0	2	0	0	0	12726	4875
11/97	0	0	0	0	0	0	0	12726	4875
'97	0	0	0	0	0	0	0	12726	4875
Tot/ 97	8666	3365	16307	8681	2982				
01/98	0	0	0	0	0	0	0	12726	4875
02/98	0	0	0	0	0	0	0	12726	4875
03/98	0	0	0	0	0	0	0	12726	4875
Tot/ 98	0	0	0	0	0				

PRODUCTION LEDGER

Date	Oil, Bbl	Gas, Mcf	Water, Bbl	Oil Sale, Bbl	Gas Sale, Mcf	Gor, Cf/Bbl	Water %	Cum Oil, Bbl	Cum Gas, Mcf
10/96	1300	564	2108	1323	492	434	62	1300	564
11/96	1303	437	2130	1307	388	335	62	2602	1001
12/96	1457	509	2201	1465	443	349	60	4060	1510
Tot/96	4060	1510	6439	4095	1323				
01/97	1057	549	2139	1057	481	519	67	5117	2059
02/97	1222	495	1624	1216	428	405	57	6339	2554
03/97	1569	649	1705	1562	563	414	52	7908	3203
04/97	815	266	2146	832	232	326	72	8723	3469
05/97	973	404	2170	969	351	415	69	9696	3873
06/97	1039	89	1830	1039	78	86	64	10735	3962
07/97	1159	222	1860	1154	201	192	62	11894	4184
08/97	701	562	2201	709	526	802	76	12595	4746
09/97	131	129	632	141	122	983	83	12726	4875
10/97	0	0	0	2	0	0	0	12726	4875
11/97	0	0	0	0	0	0	0	12726	4875
12/97	0	0	0	0	0	0	0	12726	4875
Tot/97	8666	3365	16307	8681	2982				
01/98	0	0	0	0	0	0	0	12726	4875
Tot/98	0	0	0	0	0				

COPY TO REGION

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPOR ON WELL

Submit original plus three copies th one copy marked "Public Infor n."

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL ✓ CORRECTION ___	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20561-01	S-60	UNION OIL COMPANY OF CALIFORNIA P.O. BOX 6176 VENTURA, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
SANTA CLARA	P-0216	00003

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	48 61	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ✓	SIDETRACK ___		
SUBSEQUENT REPORT ✓	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03520E07816	P-0216	6B	48 61	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 ✓ NAD 83 ___	205'	107'	U0 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

SEE ATTACHED HISTORY

History Attached to well Sidetrack

NOTED: Dave Gebauer

Entered for Monthly Report
OCT 13 1994
1140
OCT 21 1994

26. CONTACT NAME	27. TELEPHONE NUMBER
GREGORY B. SCHRAGE	(805) 650-4589

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
MICHAEL J. BUNYAK	DRILLING MANAGER/AGENT

30. AUTHORIZING SIGNATURE	31. DATE
Michael J. Bunyak	10/10/94

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for District Supervisor

DATE 10/17/94

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

COPY TO REGION

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL ✓ / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20561-01	S-60	UNION OIL COMPANY OF CALIFORNIA P.O. BOX 6176 VENTURA, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
SANTA CLARA	P-0216	00003

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	48 61	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ✓	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	DSI/POW
SUBSEQUENT REPORT ___	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ✓	SIDETRACK ___		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03520E07816	P-0216	6B	48 61	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 ___ NAD 83 ✓	205'	107'	U0 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Entered for Monthly Report
JUL 20 1994
1104
C.L. Rau

RECEIVED
JUL 18 1994
MINERALS MANAGEMENT SERVICE
PACIFIC OUTER CONTINENTAL SHELF REGION

26. CONTACT NAME	27. TELEPHONE NUMBER
GREGORY B. SCHRAGE	(805) 650-4589
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
MICHAEL J. BUNYAK	DRILLING MANAGER/AGENT
30. AUTHORIZING SIGNATURE	**31. DATE**
Michael J. Bunyak	7/15/94

THIS SPACE FOR MMS USE ONLY

APPROVED BY C.L. Rau for JAK — TITLE District Supervisor — DATE 7/18/94

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain knowledge of equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

PUBLIC INFORMATION

PROCEDURE:

1. MIRU wireline. Open "XA" sleeve at 8620' and change well over to seawater.

2. Skid rig over slot #70, well S-60.

3. Install BPV. Nipple down tree. Nipple up 20-3/4", Class IV, 3M BOPE. Test BOPE at 250/2100 psi in accordance with Field Rules and MMS regulations.

4. Unset "RDH" packer at 513' and circulate well with seawater. POOH with production equipment.

5. Set test plug. Test blind rams at 250/2100 psi. Pull test plug.

6. RIH with sawtooth collar on open-ended tubing and clean out to 9022'. Change well over to weighted brine as necessary.

OPTION A (NO APPRECIABLE FILL)

7. Proceed to step 16, running production equipment.

OPTION B (FILL ENCOUNTERED)

8. Make up tubing conveyed perforating guns loaded with 24 gm big hole charges at 12 spf. Tag bottom, pick up and position guns from 8747'-8940'. Set packer. Pressure annulus to 1200 psi and fire guns.

   NOTES:
   1) Tubing string to be filled with seawater from packer to 500' from surface.
   2) Tubing to be closed in when guns are fired.
   3) Schlumberger to provide guns, Steve Grayson, 644-8145.

9. Bleed off tubing. Unset packer and circulate well. POOH.

10. RIH with drillable bridge plug on tubing and set at 8945'. Circulate well fluids through filter press. POOH.

11. RIH with 3-1/2" x 4.25", 9.3#, NU10rd, 0.016" SSWW thinpack (16/30 gravel) liner on 2-7/8" tubing to within 1' of BP as follows:

    a) Bullnose with bailing plate
    b) ±270' of 3-1/2", 0.016" SSWW liner
    c) ±20' of 4-1/2" extension
    d) Baker reciprocating port collar
    e) Baker model SC-1 packer with upper and lower extensions

    NOTES:
    1) Centralizing lugs are on every joint and are 6-5/8" OD.

2) Tag BP and pickup 1' to ensure no gravel settling below liner.

12. Establish circulation, drop ball, and set packer. Pressure test annulus to 1500 psi. Release from hanger.

13. Establish circulation in gravel pack and reversing positions.

14. Gravel pack as follows:

a) Place tool in gravel pack position and pressure test annulus to 1500 psi. Release pressure. Pump 10 bbls of prepad. Take returns through choke.
b) Pump 16-20 Ottawa gravel at 5 ppg gravel to fluid slurry at 2-3 bpm. Gravel volume = 94 cu. ft. with no excess (using 0.25 ft^3 per ft of perfs = 48 ft^3 and the annulus = 46 ft^3).
c) Displace with 5 bbls of viscous post-pad followed by completion brine. When gravel reaches crossover tool, choke returns to 70%. When 1/2 of gravel is past tool, cut returns to 50%.
d) Pick up to reversing position and reverse clean.
e) Wait 2 hours for gravel to settle and attempt to circulate. If able to circulate, mix gravel and continue to gravel pack until sand out is reached. Reverse clean. Repeat repack until circulation is not possible.
f) Pick up, close port collar, and test to 2000 psi.

NOTES: 1) Gravel packing fluid to have a viscosity of ±400 cp.
2) Fluid to sheared through BJ shear unit.

15. Run in hole with 1.9" OD CS tubing tail and reverse clean.

16. Run production equipment.

NOTE: Run sliding sleeve open if CACl/CaBr completion fluid is in well.

17. Land tubing with backpressure valve in place. Nipple down BOPE. Nipple up and test tree to 3000 psi.

18. If CaCl/CaBr fluid is in well, reverse out with seawater and put in annuli of injectors S-6 and S-12.

19. Place well on production.

20. Release rig.

WRITTEN BY:_____ APPROVED BY:_____
DATE: _____ DATE: _____
GBS:gbs
S60rpr

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS I WELL

Submit original plus three copies with one copy marked "Public Informatic

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL ✓ CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20561-01	S-60	COPY TO REGION UNION OIL COMPANY OF CALIFORNIA P.O. BOX 6176 VENTURA, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
SANTA CLARA	P-0216	00003

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	48 61	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ✓	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	DSI/POW
SUBSEQUENT REPORT ___	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ✓		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03520E07816	P-0216	6B	48 61	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 ✓ NAD 83 ___	205'	107'	U0 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

PLUG WELLBORE WITH CEMENT FROM THE TOP OF THE FISH AT 8277' TO 7950' AND SIDETRACK HOLE.

Entered for Mail
MAY 3

(VERBAL APPROVAL GIVEN TO GREG SCHRAGE ON 4/22/94 PER MMS)

RECEIVED
APR 27

26. CONTACT NAME	27. TELEPHONE NUMBER
GREGORY B. SCHRAGE	(805) 650-4589

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
MICHAEL J. BUNYAK	DRILLING MANAGER/AGENT

30. AUTHORIZING SIGNATURE	31. DATE
Michael J. Bunyak	4/22/94

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ for TITLE District Supervisor

DATE 4/25/94

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-332 which will not be used)

CONFIDENTIAL

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Informatio

OMB No. 1010-0045
Expiration Date: August 31, 1996

1. ORIGINAL ✓ CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20561-01	S-60	COPY TO REGION UNION OIL COMPANY OF CALIFORNIA P.O. BOX 6176 VENTURA, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
SANTA CLARA	P-0216	00003

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	48 61	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WORK						34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ✓	ACIDIZE ✓	FRACTURE ___	PLUG BACK ___	WORKOVER ___			DSI/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___			
	ARTIFICIAL LIFT ___	MULTI-COMPLETION ___	RECOMPLETION ___	___			
	CHANGE ZONE ___	PERFORATE ___	SIDETRACK ___	___			
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___	___			

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
S03520E07816	P-0216	6B	48 61	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 ✓ NAD 83 ___	205'	107'	U0 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

ACIDIZE EXISTING PERFS FROM 8908' - 8913' WITH 750 GALLONS 15% HCL.

(VERBAL APPROVAL GIVEN TO GLEN OLIVERA BY D. GEBAUER OF MMS ON 5/4/94.)

Entered for Monday
MAY 12

26. CONTACT NAME	27. TELEPHONE NUMBER
GREGORY B. SCHRAGE	(805) 650-4589

28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
MICHAEL J. BUNYAK	DRILLING MANAGER/AGENT

30. AUTHORIZING SIGNATURE	31. DATE
	5/5/94

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APPROVED BY _____ for TITLE District Supervisor

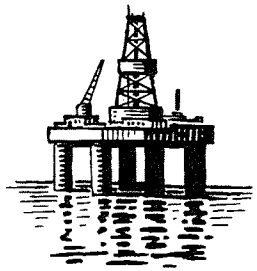
DATE 5/12/94

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FORM MMS-124 (August 1993) (Replaces Forms MMS-331 and MMS-3[illegible] which will not be used)

CONFIDENTIAL



Spud
10-24-83

ST @ 6970' MD
04-08-94

BP @ 9171' MD
03-15-85

BP @ 9531' MD
01-09-84

10010' MD
5934' TVD
11-23-83
S022
'70'
ST00BP00

9927' MD
5890' TVD
01-10-84
S022
'71'
ST00BP01

10096' MD
5941' TVD
03-18-85
S022
'00'
ST00BP02

BP @ 7857' MD
04-23-94

9045' MD
04-13-94
S060
'72'
ST01BP00

9136' MD
5829' TVD
04-25-94
S060
'01'
ST01BP01

API# 0431120561**

Santa Clara Field

Well# S022 & S060

Lease# P00216

DCOR, L.L.C.

— Directional Survey

— No Directional Survey

COPY TO REGION

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: August 31, 1996

1. 1ST COMP. ✓ / RECOMPLETION ___ / ABANDONMENT ___ / CORRECTION ___	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20561-01	S-60	UNION OIL COMPANY OF CALIFORNIA P.O. BOX 6176 VENTURA, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
SANTA CLARA	P-0216	00003

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
S03741E02020	P-0216	6B	48 61	6B

WELL AT PRODUCING ZONE

37. WELL LOCATION AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
S03539E02051	P-0216	6B	48 61	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	94-05-15	94-05-16	94-04-02

44. DATE SIDETRACKED	45. DATE TD REACHED	24. TOTAL DEPTH (Surveyed)
94-04-23	94-04-25	MD 9136' TVD 5829'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
8747'	8940'	5529'	5678'

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
UPPER REPETTO	LP-B LP-B1

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT (Ft³)

OCT 12 1994

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64. PACKER SETTING DEPTH (MD)
9.441"	2-875"	6.5#	N-80	8528'	522'

Entered for Worthwhile Value

OCT 13 1994

OCT 13 1994

BY

197

CONFIDENTIAL

FORM MMS-125 (August 1993) (Replaces Form MMS-330 which will not be used)

WELL SUMMARY REPORT

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT^3)
6.875"	3.5"	9.2#	J-55	8636'	8943'	N/A	NONE

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL		75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
73. TOP (MD)	74. BOTTOM (MD)		

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill stem and well potential tests.

79. FORMATION	TOP		BOTTOM		84. DESCRIPTION, CONTENTS, ETC.
	80. MD	81. TVD	82. MD	83. TVD	

85. GEOLOGIC MARKERS	TOP		85. GEOLOGIC MARKERS	TOP	
	86. MD	87. TVD		86. MD	87. TVD

26. CONTACT NAME	27. TELEPHONE NUMBER
GREGORY B. SCHRAGE	(805) 650-4589
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
MICHAEL J. BUNYAK	AGENT
30. AUTHORIZING SIGNATURE	**31. DATE**
Michael J. Bunyak	10/10/94

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LEASE OCS P-0216 WELL NO. S-60 FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
		AFE: # 645144 WORK PERFORMED: PERFORATE
7/17/94	9136'TD	Commenced operations at 0001 hours. Skidded rig to S-60 and rigged up. Installed back pressure valve. Nippled down tree. Nippled up and tested BOPE. Unset hanger and attempted to pull tubing. Unable to release packer. Stretch indicates stuck at pump. Pulled back pressure valve.
7/18/94	9136'TD	Removed back pressure valve - well static. Locked open QLP at 528'. Ran freepoint to 2200'. Unable to work deeper. Added two sinker bars and reran freepoint. Pumped tool in hole 1300' - 8500'. Fell to 8640'. Unable to get reliable reading. Pulled out of hole. Found bad spot in line. Cut and reheaded line.
7/19/94	9136'TD	Reran freepoint to 1700'. Could not pump tool down. Tubing plugged. Pulled out of hole. Ran in hole with bailer. Bailed at "XA" sliding sleeve with no progress. Pulled out of hole and recovered small amount of unknown putty like substance. Ran in hole with "XA" shift tool. Could not open "XA" sleeve and tool would not lock in. Ran in hole. Could not pass "XA" sleeve. Ran in hole with Dialog chemical cutter to 3005'. Could not work deeper. Pulled out of hole. Ran Kinnley one shot perf tool and shot one hole at 8612'. Pulled out of hole. Positioned Dialog chemical cutter at 8592' and cut tubing. Pulled out of hole. Pumped jet cutter down tubing and circulated tubing clean. Fired jet cutter at 8591'.
7/20/94	9136'TD	Rigged down Dialog. Pulled out of hole with production equipment. Ran in hole with 6" drill collars and heavy weight drill pipe. Pulled out of hole laying down drill collars and heavy weight drill pipe. Set test plug. Changed lower pipe rams to 5". Tested at 250/2100 psi. Pulled test plug. Made up overshot fishing assembly and ran in hole picking up 3-1/2" drill pipe. Tagged fill at 8453'. Circulated.
7/21/94	9136'TD	Cleaned out fill from 8453' - 8586'. Reversed clean. Engaged fish at 8586'. Jarred and worked fish to 8505'. Unable to work higher. Released from fish. Reversed clean. Pulled out of hole. Changed out fishing tools. Engaged fish at 8505'.
7/22/94	9136'TD	Jarred fish to 8428'. Restuck. Rigged up coil tubing. Pressure tested lines, reel, and BOPE. Ran in hole with wash nozzle circulating. Tagged at 8416'. Circulated and worked to 8423'. Unable to work deeper. Pulled out of hole. Made up 2" bit and 1-3/4" motor on coil tubing and ran in hole. Could not work past 8377'. Closed flow tee and circulated down tubing while trying to work deeper - negative. Pulled out of hole. Rigged down coil tubing. Jarred and worked fish to 8403'.

LEASE OCS P-0216 WELL NO. S-60 FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
7/23/94	9136'TD	Pulled out of hole. Recovered 9' cut off, 1 joint 2-7/8" tubing, Pruett chamber, 8' pup, crossover, and pump top flange. Made up rope spear and ran in hole to 7-5/8" liner top at 6530'. Pulled out of hole. Recovered Pruett line and cable armor. Ran in hole with spear to 8480' and worked to 8483'. Pulled out of hole. Recovered 46' of cable. Checked casing shut off rams. Ran in hole with spear.
7/24/94	9136'TD	Ran in hole and worked spear to 8490'. Pulled out of hole - no recovery. Made up 5-7/8" shoe and junk basket assembly. Ran in hole. Tagged at 8513'. Moved fish to 8529'. Pulled out of hole. Found junk baskets packed full of metal and stainless wrapped around tools. Made up overshot and ran in hole. Engaged fish at 8529'. Jarred free and pulled out of hole. Recovered 17' Reda pump (parted at gas separator). Laid down fishing tools.
7/25/94	9136'TD	Tested BOPE. Ran in hole with 6-5/8" washpipe assembly. Tagged junk at 8455' and worked washpipe to 8460'. Reverse circulated and attempted to wash over fish - negative. Junk kept wedging along side of washpipe. Pulled out of hole and laid down washpipe. Ran in hole with 5-7/8" overshot with 4" basket grapple. Worked grapple to 8481'. Unable to get hold of fish. Pulled out of hole. Found grapple packed with junk. Slip and cut drilling line.
7/26/94	9136'TD	Ran in hole with washpipe to 6527'. Reversed circulated. Ran in hole to 8450'. Worked over fish and reversed to 8482'. Pulled out of hole. Ran in hole with rope spear to 8441'. Worked spear. Pulled out of hole - no recovery. Ran in hole with close catch overshot to 8481'. Unable to engage fish. Pulled out of hole. Ran in hole with 5-7/8" X 4-7/8" washover shoe.
7/27/94	9136'TD	Ran in hole with 5-7/8" washover shoe to 8481'. Washed over fish to 8482'. Pulled out of hole. Recovered one gas separator and spear prong tip. Recovered small amount of cable guards and bands in junk subs. Function tested blind rams. Ran in hole with 5-7/8" X 4-7/8" washover shoe to 8483'. Washed over fish from 8483' - 8486'. Circulated. Pulled out of hole. Ran in hole with 5-3/4" overshot to 8483'. Worked over and engaged fish. Pulled out of hole to 8372'.
7/28/94	9136'TD	Checked well for flow and pressure. Circulated bottoms up. Pulled out of hole. Laid down fishing tools. Recovered gas separator, seal and motor (100% fish recovered). Attempted to run in hole with spear. Damaged spear on wellhead. Ran in hole with sawtooth collar on drill pipe to 8368'. Circulated and cleaned out fill from 8368' - 9022'. Circulated high vis sweep. Checked well for flow - well flowing. Shut well in. 500 psi on casing and drill pipe. Recovered 400 bbls of 11.8 ppg $CaBr/CaCl_2$ from S-12 and mixed with 350 bbls of 12.5 $CaBr/CaCl_2$.
7/29/94	9136'TD	Killed well with 12.2 ppg $CaBr/CaCl_2$. Circulated. Checked for flow. Circulated. Pulled out of hole. Function casing shut off rams. Ran in hole with 7-5/8" scraper to 8868'. Cleaned out fill from 8868' - 9022'. Circulated. Pulled to 6489'. Circulated from 6613' - 6527'. Waited. Ran in hole to 8900'. Reverse from 8900' - 9022'. Reverse circulated.

LEASE OCS P-0216 WELL NO. S-60 FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
7/30/94	9136'TD	Reverse circulated. Pulled to 6473'. Ran in hole to 9022'. Spotted filtered 11.9 $CaBr/CaCl_2$ to 8000'. Pulled out of hole. Function tested casing shut off rams. Made up and ran in hole with perforating guns. Left 1600' of drill pipe dry. Set packer. Fired guns and perforated 12 hpf from 8747' - 8940'. Pulled out of hole.
7/31/94	9136'TD	Pulled out of hole and laid down guns. Made up and ran in hole with bridge plug and set at 8945'. Circulated and attempted to filter completion fluid. Pulled out of hole. Made up 9 joints of 3-1/2" X 4-1/4", 9.2#, J-55 NU 10RD, 0.016 SSWW thinpack liner on gravel pack tools and ran in hole. Tagged bridge plug at 8945'. Picked liner up 2'. Circulated. Dropped packer setting ball.

3-1/2" 9.2# J-55 LINER DETAIL

FROM	TO	LENGTH	JTS	DESCRIPTION
8943.00	8942.30	0.70		3-1/2" Bull Plug Shoe
8942.30	8671.92	270.38	9	3-1/2" 9.2# J-55 NU 10 RD SSWW .016 Thinpack Pre-Packer Liner
8671.92	8649.04	22.88		Baker Lower Extension
8649.04	8645.89	3.15		Baker Seal Bore Gravel Packing Extension w/Sliding Sleeve
8645.89	8641.10	4.79		Baker Mill-Out Extension
8641.10	8636.40	4.70		Baker SC-1 76-A4-40 Packer
			9	Total

8/01/94	9136'TD	Dropped packer setting ball. Set packer at 8636'. Sheared out ball. Tested annulus to 800 psi. Gravel packed 3-1/2" X 4-1/2" SSWW liner in three stages. Reversed hole clean between stages, 68.5 ft^3 (150 % Theoretical). Closed sliding sleeve and tested to 2000 psi. Pulled out of hole. Ran in hole with tubing tail on drill pipe to 8942'. Reverse circulated.
8/02/94	9136'TD	Reversed circulated. Checked well for flow. Pulled out of hole. Laid down heavy weight and 2-3/8" flush joint tubing. Set test plug. Changed lower rams to 2-7/8". Tested BOPE at 250/2100 psi. Pulled test plug. Made up submersible pump production equipment and ran in hole hydrotesting and drifting.
8/03/94	9136'TD	Made up SCSSV assembly and made electrical splice. Ran in hole. Landed 2-7/8" tubing with back pressure valve in place. Tested hanger. Nippled down BOPE. Nippled up and tested tree. Pulled back pressure valve. Changed well over to filtered seawater. Rigged up wireline. Closed "XA" sleeve at 8440'. Rigged down wireline. Placed well on production. Prepared for rig move. Released rig at 2400 hours.

LEASE OCS P-0216 WELL NO. S-60 FIELD SANTA CLARA

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS

2-7/8" 6.5# N-80 TUBING DETAIL

FROM	TO	LENGTH	JTS	DESCRIPTION
8527.98	8514.05	13.93		Reda 62.5 HP Motor
8514.05	8508.11	5.94		Reda Seal Section
8508.11	8505.84	2.27		Reda Gas Separator
8505.84	8487.63	18.21		Reda 240 Stage Pump
8487.63	8486.53	1.10		2-7/8" X 2-3/8" X-over
8486.53	8478.38	8.15		2-7/8" 6.5# N-80 Pup
8478.38	8472.37	6.01		2-7/8" 6.5# N-80 Pup
8472.37	8440.65	31.72		Pressure Chamber (External)
8440.65	8437.47	3.18		"XA" Sliding Sleeve (Open)
8437.47	542.30	7895.17	251	2-7/8" 6.5# N-80 EUE 8RD
542.30	540.15	2.15		2-7/8" 6.5# L-80 Pup
540.15	529.56	10.59		QLP SSSV
529.56	523.44	6.12		2-7/8" 6.5# L-80 Pup
523.44	522.31	1.13		3-1/2" X 2-7/8" X-over
522.31	513.65	8.66		RDH Packer
513.65	508.03	5.62		Spacer
508.03	499.53	8.50		Vent Mandrel
499.53	495.42	4.11		2-7/8" 6.5# L-80 Pup
495.42	54.72	440.70	14	2-7/8" 6.5# N-80 EUE 8RD
54.72	53.00	1.72		Fatigue Nipple
53.00	52.00	1.00		Tubing Hanger
			265	Total

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information."

OMB No. 1010-0046
Expiration Date: August 31, 1996

1. 1ST COMP. RECOMPLETION ✓ ABANDONMENT CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20561-01	S-60	COPY TO REGION UNION OIL COMPANY OF CALIFORNIA P.O. BOX 6176 VENTURA, CA 93006

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
SANTA CLARA	P-0216	00003

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
S03741E02020	P-0216	6B	48 61	6B

WELL AT PRODUCING ZONE

37. WELL LOCATION AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
S03539E02051	P-0216	6B	48 61	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	94-05-15	94-05-16	94-04-02

44. DATE SIDETRACKED	45. DATE TD REACHED	24. TOTAL DEPTH (Surveyed)
94-04-23	94-04-25	MD 9136' TVD 5829'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
8908'	8913'	5653'	5656'
8812'	8817'	5579'	5582'

RECEIVED
AUG 18 1994
MINERALS MANAGEMENT SERVICE
PACIFIC OUTER CONTINENTAL SHELF REGION

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
UPPER REPETTO	LP-B, LP-B1

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT (FT³)
26"	20"	94#	K-55	716'	EXISTING CASING STRING	
22"	16"	75#	K-55	1720'	EXISTING CASING STRING	
18"	13.375"	68#, 54.5#	K-55	4579'	EXISTING CASING STRING	
12.25"	9.625"	47#, 43.5#	N-80	6970'	EXISTING CASING STRING	

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64. PACKER SETTING DEPTH (MD)
2.441"	2.875"	6.5#	N-80	8705'	522'

Entered AUG 19 1994 195

ENTERED IN OCS
AUG 19 1994
BY:

CONFIDENTIAL

FORM MMS-125 (August 1993) (Replaces Form MMS-330 which will not be used)

WELL SUMMARY REPORT

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT^3)
10"	7.625"	29.7#	N-80	6530'	9125'	"G"	900 FT^3

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL		75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
73. TOP (MD)	74. BOTTOM (MD)		
7871'	8277'	CLASS "G" CEMENT	237 FT^3
8909'	8913'	15% HCL	756 GAL

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

MUD LOG, CBL, DIRECTIONAL SURVEY

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill stem and well potential tests.

79. FORMATION	TOP		BOTTOM		84. DESCRIPTION, CONTENTS, ETC.
	80. MD	81. TVD	82. MD	83. TVD	
LP-8	8747'	5529'	8867'	5622'	OIL, WATER, GAS
LP-B1	8867'	5622'	8972'	5703'	OIL, WATER, GAS
LP-B2	8972'	5703'	9095'	5798'	OIL, WATER, GAS
LP-C	9095'	5798'			OIL, WATER, GAS

85. GEOLOGIC MARKERS	TOP		85. GEOLOGIC MARKERS	TOP	
	86. MD	87. TVD		86. MD	87. TVD
LP-4	8377'	5234'	LP-B1	8867'	5622'
LP-A (TOP REPETTO)	8528'	5358'	LP-B2	8972'	5703'
LP-B	8747'	5529'	LP-C	9095'	5798'

26. CONTACT NAME	27. TELEPHONE NUMBER
GREGORY B. SCHRAGE	(805) 650-4589
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
MICHAEL J. BUNYAK	AGENT
30. AUTHORIZING SIGNATURE	**31. DATE**
Michael J Bunyak	08/15/94

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that this information is being collected to obtain geologic, well test, and well-completion equipment data. This information will be used by MMS District Supervisors to ensure that they have accurate data and information on the wells under their jurisdiction and to ensure compliance with approved plans. It is also used to evaluate remedial action in the event of well-equipment failure or well-control loss. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.18.

Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2053, Minerals Management Service, 381 Elden Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0046), Washington, DC 20503.

WORKOVER SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
9/22/01	MIRU. RU pump & pits to mix CACL water. Mix CACL stack material. Install new load line on crane. Mix CACL (total 500 sacks).
9/23/01	Cont to mix CACL. RU pump lines to change well over. CACL wt=11.1 ppg. Change well over to CACL (410 bbls total). Install BP valve. Remove wellhead. Install and flange up riser.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
5/7/01	Strip over wireline. Circ @ shoe & @ fish. Logging tools free at this time. Pull tools into overshot. Cut line. Pull line out of rope socket. Spool up line. Circ. & cond mud. RD loggers. Change out bails on top drive. POOH with tools. LD logging tools & fishing tools. Load out same. PU BHA & tools. RIH with BHA. Slip & cut drill line. RIH. Tag btm - no fill. Circ & cond mud for liner. Pump pill. Drop rabbit. POOH for liner.
5/8/01	RU csg. crew. PU 35 jts of 5" 15# P110 hyd 511 liner. MU baker liner. Hanger running on back up power. RIH with 5" liner to 10550'. Fill pipe. Circ btm up. RIH with liner. Tag btm 8'. Circ & rotate liner. Drop ball set liner used Dowell to shear ball seat 4200# liner top @ 10262' shoe 11917'. LAP 337'. Test lines to 4200# pump 20 bbls chemical 20 bbls. Mud push 14.5. Test packer 1200 psi. Pull 5 stds. Rev circ. 16 bbls back to surface. POOH. RU csg. crew. PU 35 jts of 5", 15#, P110, hyd 511 liner. MU liner hanger. Run on back up power. RIH with 5" liner to 10550'. Fill pipe. Circ btm up. RIH with liner. Tag btm. PU 8'. Circ & rotate liner. Drop ball. Set liner. Used Dowell to shear ball seat 4200#. Liner top @ 10262. Shoe @ 11917'. LAP 337'. Test lines to 4200#. Pump 20 bbls chemical 20 bbls mudpush 14.5 mix and pump 300 sks class G cement with .35% D85 - .35% D167 -10GPSD61. 2% D46 Displace with 105 bbls of mud. Bump pug 1400 psi. Test packer 1200 psi. Test packer 1200 psi. Pull 5 stds. Rev. circ bbls back to surface. POOH.
5/9/01	LD liner running tool. PU 6.125" bit and 7" csg scraper. RIH to 1000'. Chang out sub on top drive. RIH to 9762'. Change over from shore power to back up generator power. Clean out cmt from 9762'. To 10,262' (top of liner). Changed back to shore power. Circ sweep around. Performed lap test with 1550 psi with 13.2 ppg mud. 520 psi above. POOH. LD bit and csg scraper. PU lap test tools. RIH.
5/10/01	RU and pump 72 bbls of seawater down drill pipe. Set packer at 10,200' and performed negative lap test with 1808 psi under balance (switch from shore power to back power @ 13:00 hrs). Unset packer and reverse circ seawater. (Switch to shore power @ 17:30 hrs). POOH with lap test tools. LD same. PU handling tools, bit, 5" csg scraper, 12 ea 3.25" dc, 1317' of 2 7/8" dp. RIH.
5/11/01	RIH with 4 1/4" bit to 10262'. Top of liner. Clean out cmt from 10262' to 10285'. RIH. Tag cmt @ 11685'. C/O cmt from 11685' to 11822' (landing collar). Pumped hi-vis sweep. Change hole over to seawater with biocide. POOH. LD 3 1/2" DP, 2 7/8" DP, 3 1/2" HWDP, 4 3/4" DC. ND BOPe.
5/12/01	Install 13 5/8" x 2 9/16" adapter flange. Release rig @ 08:00 hrs.

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
Pacific OCS Region, Camarillo District
770 Paseo Camarillo - MS 7210
Camarillo, California 93010-6064

IN REPLY REFER TO:

Date: 5/1/01

Memorandum

To: Regional Supervisor, Office of Offshore Field Operations

From: District Supervisor, Camarillo District

Subject: Transmittal of Daily Lease Information

Attached is the following information for Josh, Lease OCS-P 0216,

Well No. S-44

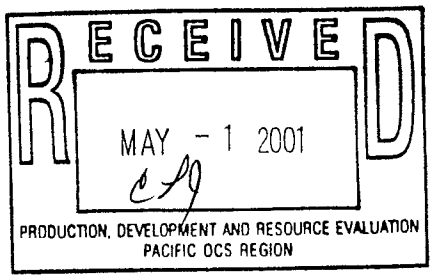
_____Daily Drilling Summary	Report #_____	Dated_____
_____Daily Completion Summary	Report #_____	Dated_____
_____Daily Workover Reports	Report #_____	Dated_____
_____Weekly Drilling Summary	Report #_____	Dated_____
✓ Other	Report #_____	Dated_____

Drilling Summary 4/2-8/01

Received by: Carole L Johnstone

Date: 5/1/01

cc: Carole Johnstone ← This Copy For



United States Department of the Interior

MINERALS MANAGEMENT SERVICE
Pacific OCS Region, Camarillo District
770 Paseo Camarillo - MS 7210
Camarillo, California 93010-6064

IN REPLY REFER TO:

Date: 5/1/01

Memorandum

To: Regional Supervisor, Office of Offshore Field Operations

From: District Supervisor, Camarillo District

Subject: Transmittal of Daily Lease Information

Attached is the following information for Irene, Lease OCS-P 0216,

Well No. S-44

____Daily Drilling Summary	Report #_____	Dated_____
____Daily Completion Summary	Report #_____	Dated_____
____Daily Workover Reports	Report #_____	Dated_____
____Weekly Drilling Summary	Report #_____	Dated_____
_/_ Other	Report #_____	Dated_____

Drilling Summary 4/9-20/01

Received by: Carole L Johnstone

Date: 5/1/01

cc: Carole Johnstone ← This Copy For

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MAY - 1 2001
PRODUCTION, DEVELOPMENT AND RESOURCE EVALUATION
PACIFIC OCS REGION

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MAY - 9 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
4/30/01	Drill cement/float equip. Clean out to 10636'. Circ & cond raise mud WT to 12#. Conduct formation integrity test leak off is at 15.8PPG. POOH for BHA slm. PU BHA & tools anadrill. Set tools test motor. RIH clean to btm -no fill. Survey. Drill slide rotate from 10636' to 10925'.
5/1/01	Circ. for wiper trip. Circ. Make wiper tri/short trip from 10958' to 10600'. Work on top drive oil pump. RIH. Drill rotate from 10952' to 11180'. Drill rotate from 11180' to 11434'. Circ for wiper trip. Wiper trip/short trip from 11434'. To 10600'. Drill rotate from 11434' to 11550'.
5/2/01	Drill rotate f/11550' to 11720'. circ for wiper trip. Wiper trip/short trip 5 stds. Drill rotate f/11720' to 11782'. Circ. for trip. Pump dry job. Trip for bit. LD BHA & tools.
5/3/01	MU fishing tools. RIH with fishing tools. Trip in with junk basket and run on back up generator power 2 1/2 hours. Circ btm up. Work junk basket. RIH. Clean out basket. PU BHA & tools. Circ & cond wash/ream f/10600' / t/11185'.
5/4/01	Wash/ream f/11185' / 11782'. Drill rotate f/11782' to 11925'. Circ for wiper trip. Wiper trip/short trip to csg. shoe 10600' tight from 11750 to 11650'. Check swivel & top drive for bent sub XO. Sub could be bent trip in on fill. circ. For logs weight 12.7 to 12.9. RIH for logs. RU for loggers. Equip. failure.
5/5/01	Wait on sensor head for logging unit. RIH clean btm 65' - no fill. Equip failure, circ & cond mud 1100 units of gas wt up to 13.2. MU logging tools.
5/6/01	RIH with logging tools FMS-DSI-GR-ACTS to 11925' Log stuck. Log @ 10850'. Hole condition. Stuck logs. Wait on fishing tools. MU fishing tools to strip over wireline.

RECE
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MINERALS MANAGEMENT SERVICE
CAMARILLO
COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
4/23/01	Drill rotate slide from 10445' to 10467'. Circ for wiper trip. Wiper trip/short trip 65 stds. clean to btm. 90' no fill Drill rotate slide f/10467' to 10636'. Circ btm up. Trip out for bit & test BOPE. Note: Jim Martin received verbal approval from Ralph Vasquez of the MMS for a 24 extension of the BOPE test.
4/24/01	POOH swab. RIH to btm. circ. & cond Mud wt up to 11.3. RIH to shoe. Monitor well. Trip back to btm. Circ. & cont. mud with up to 11.8. POOH slow. LD BHA tools. Pull wear bushing. Install test plug. Test BOPE. Brent Martin received verbal approval from MMS district supervisor Rishi Tyagi to extend the BOPE test deadline 24 hours.
4/25/01	Test all rams and valve to 250/l / 5000/h psi. Annular preventer to 250// / 3600/h. Pull test plug and install wear bushing. Service rig & top drive. LD excess drill collars. PU hole opener with 30' nose. RIH to 7781'. Reamed mud motor run from 7781' to 9526' (1745').
4/26/01	Wash/ream motor run from 9526 to 10636'. Circ & cond for csg. Wiper trip/short trip to csg 7800'. Service rig & top drive on leak top drum fixed the leak wipe down derrick did get some drips in the water. Trip to btm. circ. for csg. POOH for csg. Break 30 stds of pipe. LD HWDP & reamer. Pull wear brushing RU csg.
4/27/01	Run 237 jts of 26# 7" csg 78 jts of S-95 hyd 521-52 jts of P110 hyd 521 jts of P110 LTC MU fluid hanger. LD @ 52' KB. RU Dowell. Circ csg. Pump 20 bbls of chem. was & 20 bbls of mud at 12.5 PPG. Shut down. Drop btm plug. Cmt 7" csg with lead 850 sks of class 'G' POZ 4% D20-4D12-2%D46-2%D85 and tail 250 sks of class g - 10GPSD80 - 15GPSD81 - 05GPSD4. Displace with 382 bbls bump plug with 500# over shut well in. Wait on cmt.
4/28/01	Wait on cmt. Release press. on csg. Back out LD jts. Pull diverter. ND at riser & wellhead. Install pack off. NU & install diverter. Install 3 1/2" rams in BOPE. RU 3 1/2" tools. MU packer. RIH and set. Start testing BOPE 250/l / 5000/h. Packer started leaking. Change out packers. Cont. to test BOPE. Slip & cut drill line. LD 5" drill pipe.
4/29/01	LD 5" drilling pipe. MU bit. PU BHA & 3 1/2" drilling pipe to 10513'. Tag float. Drill cement/float equip. Circ. for csg test & test 2500 psi. Drill cmt/float equip. Clean out rat hole to 10636'.
4/30/01	Drill cement/float equip. Clean out to 10636'. Circ & cond raise mud WT to 12#. Conduct formation integrity test leak off is at 15.8PPG. POOH for BHA slm. PU BHA & tools anadrill. Set tools test motor. RIH clean to btm -no fill. Survey. Drill slide rotate from 10636' to 10925'.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
4/9/01	Pull wear brushing. Install test plug. RU Dowell. Run leak off test. Press. test to 370 psi. Leaked off to 325 psi in 10 min. Test BOPe/diverter 250/l / 5000/h. RD Dowell. Pull test plug. Install wear brushing. PU 10 jts. of tbg. RIH to 1400'. Equip failure. Shift ring on the over running clutch came apart lifting the electric brake kick out. Cont. to RIH to 5614'. Circ. & cond. Mud. RU Dowell. Mix & pump 100 sks of cement across bad csg. from 5614' to 5324'. RD Dowell. Pull 7 stds. Squeeze 16 bbls down csg. 1 bbl per min. 700 psi. Shut down with 1500 psi, 5 bbls in csg. Shut in. Wait on cmt.
4/10/01	Wait on cmt. Release press. 875 psi. Circ. & cond. Mud. RIH. LD tbg. MU bit. Run in HWDP. PU 2000' of 6" pipe. Slip & cut drill line. RIH. Tag stringers @ 5220'. Clean out cement stringers to 5500'. Drill cmt from 5500' to 5650'. Run in to 5920'. Circ. btm. up Trip out to PU mills.
4/11/01	Cont. POOH. PU tapered mill and two watermelon mills. RIH. Test csg. with 10.2 PPG and 466 psi EMW. 11.8 PPG. Cont. to RIH to 5600'. Ream bad spot from 5606'. To 5614'. Check drag 10k down and 15k up. Retest csg. with 10.2 PPG. And 470 psi. EMW 11.8 PPG. POOH with mills. PU BHA for feeler run. RIH. Worked through tight spot f/5606' to 5675'. 15k down 20k up. RIH to 7779' 6' of fill. POOH above bad spot @ 06:00.
4/12/01	Pulled up to 4665'. Broke circ. Removed drawworks guards. Deryco balanced drawworks drum. Install guard. Slipped 150' of drill line. Lowerered block to floor. Unstring block.
4/13/01	Cont. unstringing old block string up new block. PU block and pinned to swivel. Unpinned top drive. Hung off bloc and removed excess drill line from drum. Broke circ. Pumped dry job. POOH. LD washpipe. RIH with 8 1/2" bit and mechanical collar locator to 7779'. Worked collar did not see csg. collar. Clean out fill from 7779' to 7785'. circ hole clean @ 7785'. Pulled up to 5600'.
4/14/01	Cont. to POOH to 5800'. Press. test csg. @ 5600. 10.1 PPG and 585psi. EMW 12.6 PPG - good. POOH. LD collar locator and bit. Wait on wireline unit. RU wireline unit. Run collar locator top of cmt @ 7792' W/L measurement 7' difference between W/L and D.P. measurement first collar is 30' above top of cement. POOH and RD wireline unit. Pulled wear bushing. PU whipstock and MWD. RIH to 5600'. Broke circ. Worked whipstock through tight spot at 5808' to 5614'. RIH to 770'. Orient whipstock to 54" right of high side of hole.
4/15/01	Set whipstock slips. Pulled 10k against sheared off whipstock. Mill starter mill from 7765' to 7768'. Circ. btm. up. POOH. LD monel and starter mill. Set wear bushing in well head. MU window mill. RIH to 7765'. Mill from 7765' to 7781' with window mill. Circ. and cond. Mud for L.O.
4/16/01	Cont. circ. hole. Perform F.I.T. with 10.2 PPG mud and 560 psi EMW 12.0 PPG at 5999' TVD. POOH to 5600'. Dump and clean mud tanks. Set tank btm to prod. facility.

COPY TO REGION

Date	Description of Work
	POOH. LD mills. PU mud motor. MWD and jars. RIH to 2650'. While drifting 5" DP. Drift fell in hole. Drain BOPe stack down to wellhead. No drift. RIH to 5000 to allow more stretch while pulling up. Changed over mud at 5000'. POOH slow from 5000' to 1500' with drifting riding on stabilizer above mud motor. Occasionally hanging up on csg. collar from 1500'. To 1410'. Drag increased up. Reamed with 2 15,000# drag with pump on idle.
4/17/01	Directional drilled 8.5" hole from 7796' to 8197'. Circ. for wiper trip. Wiped hole to 7750' 20-30k. Drag had to PU top drive from 7850' to 7820'. Broke circ. no drag while circ. Went though whipstock. Good directional drill from 8197' to 8872'. Reaming each std.
4/20/01	Circ. for wiper trip. Wiper trip from 8671' to 7820'. Ream tight spot from 8020' to 7950'. Trip in clean to btm. from 8578' to 8671' - no fill. Directional drlg from 8671' to 8800'. Drlg. Rotate from 8800' to 8860'. Circ. for wiper trip. Wiper trip/short trip from 8860' to 7800'. Clean 90' to btm. No fill 30 k off btm. Drill rotate from 8860' to 9332'. Circ. for wiper trip. Wiper trip/short trip 9332' to 8680'.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
4/2/01	RIH with 8 3/8" swedge. RIH to 5600. Work swedge in & out of bad spot to 10,000 drag. RIH. LD 8 3/8" swedge. PU 8 1/2" swedge. RIH with 8 1/2" swedge. Work swedge 25k down 35k up. Run down. Circ. & cont. mud. LD tools. MU 8 1/8" wash pipe. RIH.
4/3/01	Try working 8 1/8" wash pipe down - neg 40k up 25k down. POOH. Make up short shoe. RIH. Slip & cut drill line. RIH. Work through tight spot 35k up 25k down. RIH to 9890'. Circ. POOH 30k over @ 5600. LD wash pipe. Make mill assembly. RIH.
4/4/01	Mill @ 5600'. RIH to 7900'. POOH. LD mill. MU wash pipe. RIH. Attempt to work through bad spot. Push down 50k coming up. POOH. LD tools. MU mills. RIH to 5600'. Mill.
4/5/01	Mill bad spot. Equip. failure. Top drive down. Cont. to mill bad spot from 5800' to 5830'. POOH. LD mill. MU BHA. RIH to 5800' Work through bad spot 10k down trip to btm.
4/6/01	Reverse circ. btm. up 40 sks. Lost 14 bls. circ. btm. up long way. POOH slow through bad spot. At 5800'. 15k drag. POOH. LD washpipe and tools. MU cement retainer. RIH to 7885'. Set retainer @ 7885'. Sting out & bad in. Set down 25k. RU Dowell. Press test lines to 3000 psi. Start inj. rate. Pumped 1 1/2 bbls 2500 psi. Bleed back 1 1/2 bbls. Start cement job. Pump 10 water, 13 bbls cement, 5 water, 125 mud slack off 3'. Remove cement lines. Pull 3 stds. Try to reverse circ- neg. Pumped away 20 bbls. MU top drive. Pump down drill string - neg. 3500 psi. RIH with plug. Drill pipe last 9 stds. Cemented up.
4/7/01	LD retainer. PU 23 jts. RIH 10 stds. circ. RIH. Tag cmt. @ 7855'. Circ. LD 2 jts. RU Dowell. Press test to 2000 psi. Pump 10 bbls of water 13 cement displace with 3 water & 129 bbls of mud. Pull 3 stds. Reverse circ 2000 sks. RIH. MU packer. RIH to 5398'. Set packer open & close bypass. RU Dowell. Test lines to 3000 psi. Pump 10 water, 10 cement. Displace with 10 psi water 75 mud shut down. Close bypass packer was set. Try to reset - neg. Shut rams continue without packer. Displace with total of 102 with Dowell 5 bbls down csg. with rig pump. Hold press 30 min. Bleed down press pull 6 stds.
4/8/01	Circ. btm. up. RIH. LD tools. LD bad drill pipe, wash pipe, & tbg. MU bit. RIH. Tag cement @ 5437'. Drilling cement. From 5437' to 5625', circ. & cond. RIH. Tag cmnt @ 7720' Drill cement. From 7720' to 785'. Circ. & cond. Mud. RIH for BOPE test.

COPY TO REGION

DRILLING SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
3/11/01	MIRU. Install back press. valve. ND prod. tree. Put plugs in tbg. hanger. Install riser nipple up BOPE. Install diverter. Change out 2 7/8" rams to 5" rams. Function test BOPE. Fill stack. Fix flow lines. Valves and flow line leaks. RU Dowell to test BOPE. Test BOPE 250/l / 5000/h.
3/12/01	Test BOPE/diverter. RD testers. MU LD jt. Bleed down csg. Press. f/250/t / t/30 psi. Shut Hydrill with 500 psi. Back out tie down pins. Work tbg. hanger, SSSV & packer up hole 25'. Monitor well - no change. Circ. well on choke with 100 psi back press. 2 bbls a min over run production slow down to a bbl per min until salt water came back. Montior well. Circ. well on choke. Displace with 9.5 mud. Monitor well. Pull tbg. hanger to rig floor.
3/13/01	Pull tbg. hanger to rig floor. Tbg. parted. Rig inspection lost 40,000 in wt. Cont. to pull to rig floor. LD tbg. hanger. Trip out to SSSV. LD. Trip out with tbg. Recovered 108 jts. 3400'. Wait on fishing tools. Clean up rig. mix mud. MU overshot. Spider in hole. LD bad tbg. PU tbg. Tag top of fish @ 3485'. Work over fish. Engage. Work fish up and down to 150,000. RU wireline. MU tools. Run in with sinker bars.
3/14/01	RIH with 1 5/8" sinker bars (27' long). Bars stopped @ 5404'. POOH and removed 15' of sinker bars. RIH with 12' of 1 5/8" sinker bars. Bars stopped @ 5393'. POOH. LD 1 5/8" and PU 22' of 1" sinker bars. RIH and bars stopped @ 5372'. POOH. LD sinker bars. RIH with 100 grain string. Shot to 5358'. Pulled up to 5324'. Unable to put left hand torque in tbg. Put 10 turns in and got 1/2 turn back. Fired string shot to jar scale off of tbg. POOH. RIH with 1 7/8" chemical cutter worked down to 4900'. Pulled up to 4876'. Fired chemical cutter. POOH with wireline. Chemical cutter did not cut tbg. PU pump. Down circ. head and circulated through overshot. Worked pipe in an attempt to break tbg. at cut. No good.
3/15/01	Cont. PU 5" drill pipe. MU 2 1/2" swivel/circ. head on 3 1/2" drill pipe and LD. Mill over and engaged top of fish @ 4897'. PU circ. head. Circ. btm. up jarred on fish. Secured well for electrician to change breaker in SCR house. RU wireline. Run 1.875" gauge. Stopped @ 7400'. POOH. Jarred fish loose. RD wireline. Secure well. RU to drive.
3/16/01	RIH with free pint. Took 15 setting partially stuck from 7484' to 8850'. Free @ 8800'. Torque reading showed pipe rotating. POOH with free point. RIH with 1.58" jet cutting tool. Cut tbg. at 4980'. (wireline measurement). POOH. Worked tbg. apart at jct cut. RD wireline. POOH with fish. Release overshot. Recovered and LD 45 jts. Of 2 7/8" tbg. (1413.36"). New top of fish @ 4897' (DP measurement). Broke out and LD kelly. Kelly spinner upper kelly valve. Kelly bushing and swivel. PU fishing tool. RU and PU 5" DP. Worked on 5" pipe spinner. Cont. PU 5" drill pipe.
3/17/01	RU top drive and associated equip.

MAR-23-2001 02:21PM FROM-Torch-Accounting 805-937-0237 T-207 P.006/007 F-438

Date	Description of Work
3/18/01	Cont. RU top drive. Circ. btm. up. POOH with fish. Did not have fish. Overshot parted at extension. MU overshot with 2 7/8" grapple. RIH with overshot and latched onto fish at 4897'. Jarred on fish. Pulled tbg. loose. Had 23,000# over pull of total fish weight over pull decreased as pipe was pulled. Pulled up to 8900'. (TOL 8909'). Circ. btm up at 8900'. Cont. POOH with fish. Release over shots. LD fishing tools. Changed elevators and bails. POOH. LD 2 7/8" tbg.

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Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies, with ONE copy marked "Public Information"

OMB Control Number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

1. TYPE OF SUBMITTAL	2. MMS OPERATOR NO.	3. OPERATOR NAME and ADDRESS *(Submitting Office)*
☐ REQUEST ☒ SUBSEQUENT ☐ CORRECTION APPROVAL REPORT	01546	Nuevo Energy Company 1200 Discovery Dr. Suite 500 Bakersfield, CA 93309

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
S44	03	00

7. API WELL NO. *(12 digits)*	8. START DATE *(Proposed)*	9. PRODUCING INTERVAL CODE	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
043112061003	ASAP		COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216	16. LEASE NO. P-0216
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861	18. BLOCK NO. 4861

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JUN - 5 2003
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ☐ INITIAL COMPLETION
- ☐ MULTI-COMPLETION
- ☐ RECOMPLETION
- ☒ MODIFY PERFORATIONS
- ☐ CHANGE ZONE
- ☐ PERMANENT PLUGGING
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- ☐ PLUG BACK TO SIDETRACK / BYPASS
- ☐ OTHER _____
- ☒ ACIDIZE WITH COIL TUBING
- ☒ ARTIFICIAL LIFT (INITIAL)
- ☒ WORKOVER
- ☒ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)*	21. RIG TYPE
Nuevo 6080	PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

Please see attached history.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
Brent H. Martin	(661) 395-5201	martinb@nuevoenergy.com

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company
28. AUTHORIZING SIGNATURE Richard F. Garcia	29. DATE 6/03/03

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
Thomas Hunaway	District Supervisor	JUN - 9 2003

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover, and production operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

PERFORATE AND RETURN TO PRODUCTION
PLATFORM "GILDA" OCS P-0216
WELL: S-44

2/26/2003	Held safety meeting with American Safety and Production. Rigged up wireline lubricator and test to 2000 PSI. RIH with 1.87" "B" shifting tool to 10,059'. Sitting down and pulling tight. POOH and rig down slickline. Secure well. Spot mud pump and install suction line.
2/27/2003	Held safety meeting. Cleaned out drains on drill deck. Cleaned active mud tanks. Installed surface line from pump to production tree. Off load BOPE from work boat. Held safety meeting with night crew. Rigged up air compressor. Installed blank flanges on unused suction manifold outlets. Changed rams in BOP. Off load ECI tanks and anadyne tanks with CaCl from work boat.
2/28/2003	Held safety meeting. Checked weight of CaCl in anadyne tanks. 10.8 PPG. Received 180 Bbls. Increased weight to 11.5 PPG. Test surface lines to 2000 PSI. Bull headed 100 Bbls of 11.5 PPG CaCl into well. Initial pressure 2550 PSI @ .3 BPM. Final pressure @ 2100 PSI. Bled pressure off. Recovered 1 Bbl. of fluid. Shut well in. Pressure increased to 1100 PSI. in 5 min. Final pressure 80 PSI. Recovered 7 Bbls total. Shut well in. Pressure increased to 900 PSI. Bled pressure off. Mostly gas. Pumped 20 Bbls into well. Initial pressure 2800 PSI @ .7 BPM. Final pressure 2600 PSI @ .7 BPM. Stopped pump. Pressure bled to 1000 PSI. Bled pressure off. Shut well in.
3/1/2003	Well shut in. Held safety meeting. Off load 270 Bbls of 11.5 PPG CaCl into pits. Open well. Tubing pressure 600 PSI. Well stopped but a little gas remain. Monitor well with no flow. Closed SCSSSV. Flushed oil from surface lines to tree. Install BPV. Nipple down production tree.
3/2/2003	Secure derrick guide lines and all clamps on subbase. Held safety meeting. Continue to hammer up flanges on BOP stack. Off load work boat. Install koomey hoses and koomey remote stations control lines. Attempt to pressure up on the koomey. The overloads kicked out at 1100 PSI and the electrical motor got hot. Had the platform electrician check out the problem and determine that the motor was single phasing. Held safety meeting with crew. Install picture nipple. Build and install 12" flow line. RD koomey and swap out for rental koomey. Pressure test same. Install koomey hoses and koomey remote stations control lines. Function test BOP and koomey remote stations. MU 2 3/8" test string assembly.
3/3/2003	Latch on to J tool with 2 3/8" pipe to start BOP test. Held safety meeting with crew. Change accumulator lines on HCR unit. Fill BOPE stack with seawater. Test lines and BOP to 1000 PSI to check for leaks. Tighten door on top set of rams. Test annular with 2 3/8" tubing to 3500 PSI. Re-tighten flange on mud cross, clamp on well head and choke flange. Test annular to 3500 PSI with 2 3/8" tubing (OK). Test top of 2 3/8" rams, choke, manifold, kill lines, BOP, safety valve and kill lines to 250 PSI low and 5000 PSI high pressure using water (OK). PU 2 7/8" tubing and RIH with J tool and test variable pipe rams to 250 PSI low (OK). Could not get a high pressure (5000 PSI) test. Open up variable ram cavity and check rams (OK). Close and tighten up ram cavity. Increase manifold pressure on accumulator and retest 2 7/8" variable rams to 250 PSI low and 5000 PSI high (OK). Pull and lay down 2 7/8" tubing and pick up 3 ½" tubing to continue on with BOPE test at end of tour.

3/4/2003	Note: Annular was tested with 2 7/8" tubing to 250 PSI low and 3500 PSI high. Test 3 1/2" tubing variable rams to 250 PSI low pressure and 5000 PSI high pressure (OK). Test annular with 3 1/2" tubing to 250 PSI low and 3500 PSI high pressure (OK). Testing completed @ 7:00 Hrs. Pull and lay down 3 1/2" tubing and pick up 2 7/8" jt of tubing to screw into tubing hanger. Back out tubing hanger screws and prepare to pull packer loose. Close hydril around 2 7/8" tubing to SSSV. Pressure up and open SSSV and found tubing pressure up to 350 PSI below valve with heavy oil. Rig up and pump 11.4# CCL down casing and up tubing. Circulate heavy oil to production department. Continue to circulate until well was dead. Break out and lay down SSSV. Pull and lay down 2 7/8" tubing production string.
3/5/2003	Held safety meeting and checked cranes. Lay down 2 7/8" tubing and Howco Packer. Make up 5" casing scraper with 6' 2 3/8" tubing stinger on bottom. Measure and pick up 2 3/8" P-110 work string. Measure and pick up 2 7/8" P-110 work string. Offload Schlumberger wireline unit and tools, two anadine tanks and empty CaCl into storage tanks. Back load 2 7/8" N-80 production tubing, packer and SSSV on Santa Cruz work boat. Continue to measure and pick up 2 7/8" and 3 1/2" P-110 work string.
3/6/2003	Crew change this AM. Held safety meeting and inspected cranes. Continue to pick up 3 1/2" pipe and run in well to 11,299'. Tag down on top of fish. Could not go any deeper. Rig up pump equipment and pump down casing and up tubing. Did not make any hole and did not see any sign of fill in fluid returns. Fluid was clean. Pump full casing/tubing volume of fluid. Pull up 150' and moniter well for 1 1/2 hours. Run back to 11,299'. Found no sign of fill. Fluid level in casing remained static. POOH and lay down scraper. Rig up Schlumberger wire line unit and run in well with CCL - Gamma ray log. Tag top of fish at 11,312'. Wireline correlated measurement. POOH and lay down logging tool. Well fluid remains static. Make up 5" composite bridge plug on wireline and run in well. Set 5" composite bridge plug at 11,300'. Pull out of well at EOT.
3/7/2003	Continue to POOH with wireline and rig down. Made up 5" retrievable Baker Packer and RIH to 10,665'. Set packer @ 10,665'. Preformed injectivity rate of 1/2 BPM @ 1430 PSI, 1 BPM @ 1900 PSI, 1 1/2 BPM @ 2300 PSI, 2.5 BPM @ 3100 PSI. Pulled up to open circulating port on packer. Unable to get circulation. Worked pipe in attempt to open tool. Packer started moving up hole. Unset packer. Reset @ 10,665'. Unable to open circulating port. POOH with packer. Inspected packer. Did not see anything that would cause tool not to work. Lay down retrievable packer and pick up R3 packer. RIH with R3 packer to 10,665'. Rig up to circulate.
3/8/2003	Circulate 80 Bbls of CaCl down tubing @ 2 BPM and 700 PSI. Set Baker R3 packer @ 10.665'. Pressure tubing to 1500 PSI. Pick up and open circulating port. Slack off and close port. Pick up and open port. Rig up Dowell to squeeze. Pump 20 Bbls of water. Mix and pump 20 Bbls (112 CF) of Class G with additives. Displace with 2 Bbls of water and 26.5 Bbls of CaCl. Close circulating port. Squeeze 5.4 Bbls of cement into formation. Initial pressure 2100 PSI. Final pressure 2900 PSI. Shut down and rig up to reverse circualte. CIP @ 9:15 on 3/7/03. Reverse circulate 65 Bbls. Recovered 4 Bbls of cement. Unset packer. POOH with squeeze tool. Pick up 4 1/4" bit, bit sub, six 3 1/8" drill collars. RIH to 10,200'.
3/9/2002	Continue cleaning out cement from 10,688' to 11,167'. Penetration slow and bit started torquening. Circulate bottoms up. Lay down power swivel. POOH with clean out tool.
3/10/2003	Continue to POOH. Out side row of bit was full of hard cement between teeth and even with top of cutters. Lay down bit and pick up 4 1/8" mill. RIH with BHA and 10 stands of 2 3/8" tubing. Attempt to adjust brakes on drawwork. RIH to 10,500'. Changed fan belt on drawworks motor. Continue to RIH to 11,167'. Pick up power swivel. Clean out hard cment from 11,167' to 11,265'.

3/11/2003	Continue cleaning out cement from 11,265' to 11,280'. Broke loose. Tagged bridge plug @ 11,285'. Thirteen foot difference in wireline measurement and tubing measurement. Note: Adjusted to KB depth = 11,298'. Circulated bottoms up. Lay down power swivel and pull one stand to get above top perf. Rig up and test casing to 1500 PSI (OK). RIH and pick up power swivel. Drill out bridge plug @ 11,285'. Push down hole. Stop moving @ 11.290'. Pump Hi-Vis sweep around. Lay down power swivel and POOH. Test BOPE. All rams and valves to 250 PSI low and 5000 PSI high. Test annular to 250 PSI low and 3500 PSI high.
3/12/2003	Note: All measurement is wireline measurement and is 13' deeper than tubing measurement. Continue testing BOPE. Test all rams and valves to 250 PSI low and 5000 PSI High. Annular to 250 PSI low and 3500 PSI high. Mechanic worked on koomey and adjustd brakes on deaw works while testing BOP. Changed out koomey unit and function test. Backed out tie-down. Pulled and lay down test plug. Picked up 4 3/16" mill shoe and 2 joints of 3 3/4" washpipe. RIH with washpipe to 11,177'. Took weight. Pulled up 10K over to pull out. Picked up power swivel. Wash and ream from 11,163' to 11,256'.
3/13/2003	Continue to wash and ream F/11,258' T/11,290'. Milling F/11,290' T/10,292.5'. Trip out for new mill.
3/14/2003	Continue to trip in hole. Service rig. Held safety meeting. Repair hydraulic winch and actuator on rig. Pick up power swivel and break circulation. Continue to mill F/11,292.5 T/11,294'.
3/15/2003	Note: All measurements are 13' deeper than the tubing measurement. Milling from 11,294'. RU and reverse circulate two tubing volumes at 2.5 BPM, 1000 PSI. Continue to mill T/11,295'. RD power swivel. Start out of hole, tight 40' off bottom. PU joint & slide back to bottom. Picked back up and pull through with 20K over. Tight at 100'. Continue out of hole. Change out tools. LD wash pipe and two DAD drill collars. Trip in.
3/16/2003	Note: All measurements are wireline measurments and are 13' deeper than tubing measurements. Continue to trip in hole. PU power swivel. Fill pipe and tag bottom. PU and break circulation. Drop ball. Work reverse circulating basket with some rotation on bottom. Trip out of hole. Change out BHA to milling assy. Did not find anything in circulating basket. Held safety meeting. Trip in with milling assy. Milling, no footage to report.
3/17/2003	Note: All measurements are wireline measurments and are 13' deeper than tubing measurements. Continue to mill. Drill string failure (twisted off). Lost 46K weight. Trip out to top of fish 1790'. Wait on fishing tools. MU over-shot. Trip in and tag fish. Latch on with overshot. Trip out with fish. LD fishing tools. Shut down from coming out of hole due to high winds, 29 stands off bottom.
3/18/2003	Note: All measurements are wireline measurements and are 13' deeper than tubing measurements. Continue to wait on high winds. Trip out for concave mill. Change wash shoe mill to concave mill. LD wash pipe. Trip in hole. Shut down for high winds. Trip in hole. PU swivel. Break circulation. Continue milling at 11,295'. No footage to report. RD swivel. LD pipe.
3/19/2003	Lay down 3 1/2", 2 7/8", 2 3/8" PH-6 tbg and BHA. PU 5500' of 2 7/8" tbg for kill string. MU tbg hanger. Install back pressure valve. PU landing joint and land in well head. Lay down landing joint. Clear floor. Remove power swivel. Clean mud tanks. Start rigging down.

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies, with ONE copy marked "Public Information"

OMB Control Number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well) Confidential

1. TYPE OF SUBMITTAL	2. MMS OPERATOR NO.	3. OPERATOR NAME and ADDRESS *(Submitting Office)*
☐ REQUEST ☐ SUBSEQUENT ☒ CORRECTION APPROVAL REPORT	01546	Nuevo Energy Company 1200 Discovery Dr. Suite 500 Bakersfield, CA 93309

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
S44	03	00

7. API WELL NO. *(12 digits)*	8. START DATE *(Proposed)*	9. PRODUCING INTERVAL CODE	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
043112061003	ASAP		COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216	16. LEASE NO. P-0216
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861	18. BLOCK NO. 4861

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MAR 20 2003
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

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- ☐ INITIAL COMPLETION
- ☐ MULTI-COMPLETION
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- ☒ MODIFY PERFORATIONS
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- ☒ ACIDIZE WITH COIL TUBING
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- ☒ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)*	21. RIG TYPE
Nuevo 6080	PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

Please see attached procedure.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
Brent H. Martin	(661) 395-5201	martinb@nuevoenergy.com

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company

28. AUTHORIZING SIGNATURE	29. DATE
Richard F. Garcia by W.V.	3/17/03

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
	District Supervisor	3/17/03

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover, and production operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

Procedure for Gilda S-44

As per conversation between Rishi Tyagi and Nuevo's Brent Martin, if another days fishing is unsuccessful, Nuevo respectfully asks permission to temporarily suspend further operations by running a 2 7/8" kill string and hanging off @ 5500' on tubing hanger. The top of the production packer is plugged @ 11,304' and the open perforations above @ 11,255' - 95' MD have been squeezed and positively tested to 1500 PSI. The pore pressure is known to be 11.2 ppg from BHP measurements from WL and the completion fluid density is 11.6 Ppg. Verbal approval was received. Note: at this time Nuevo would also like permission to extend the deadline to test it's BOP's (every 7 days) from 2400 Hrs 3/18/03 to 2400 Hrs 3/22/03. Operations are currently suspended @ 0700 Hrs 3/17/03 due to high winds. Once activity resumes a last fishing effort will be attempted. If the efforts are unsuccessful the work string will be removed, the production kill string run, BOP's ND, and the production tree NU and tested.

Releasable to public
Name: SEH Date: 3/13

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies, with ONE copy marked "Public Information"

OMB Control Number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well) Confidential

1. TYPE OF SUBMITTAL	2. MMS OPERATOR NO.	3. OPERATOR NAME and ADDRESS *(Submitting Office)*
☐ REQUEST ☐ SUBSEQUENT ☒ CORRECTION APPROVAL REPORT	01546	Nuevo Energy Company 1200 Discovery Dr. Suite 500 Bakersfield, CA 93309

4. WELL NAME	5. SIDETRACK NO.	6. BYPASS NO.
S44	03	00

7. API WELL NO. *(12 digits)*	8. START DATE *(Proposed)*	9. PRODUCING INTERVAL CODE	10. WELL STATUS	11. WATER DEPTH *(Surveyed)*	12. ELEVATION AT KB *(Surveyed)*
043112061003	2/26/03	SO1	COM/POW	205'	107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216	16. LEASE NO. P-0216
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861	18. BLOCK NO. 4861

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MAR 7 2003
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ☐ INITIAL COMPLETION
- ☐ MULTI-COMPLETION
- ☐ RECOMPLETION
- ☒ MODIFY PERFORATIONS
- ☐ CHANGE ZONE
- ☐ PERMANENT PLUGGING
- ☐ TEMPORARY ABANDONMENT
- ☐ PLUG BACK TO SIDETRACK / BYPASS
- ☐ OTHER _____
- ☒ ACIDIZE WITH COIL TUBING
- ☒ ARTIFICIAL LIFT (INITIAL)
- ☒ WORKOVER
- ☒ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)* Nuevo 6080

21. RIG TYPE PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

Nuevo proposes to amend previously approved procedure (2/20/03 OK) to delete step # 15 as per attachment. The negative test of the squeezed perforations is not necessary as the positive test pressure of 1500 PSI in step 14 is adequate to establish cement integrity. the isolation assembly to be run in step # 27 will protect the squeeze perforations against any negative pressures in subsequent operations. See explanation at bottom of procedure for temporary abandonment of top zone.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
Brent H. Martin	(661) 395-5201	martinb@nuevoenergy.com

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company

28. AUTHORIZING SIGNATURE	29. DATE
Richard F. Garcia by RV	2/26/03

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
	District Supervisor	2/26/03

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover, and production operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1¼ hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

PLATFORM GILDA - WELL S-44
SANTA CLARA FIELD, SANTA BARBARA COUNTY
RETURN WELL TO PRODUCTION

February 14, 2003

GENERAL DATA:

TD	11917' MD (8616' TVD)
WELLHEAD	7" (5M) National
SURFACE CASING	20", 94#, K-55, cemented at 726'
INTERMEDIATE CASING	16", 75#, X-52, cemented at 1583' 13-3/8", 68#, K-55, cemented at 3998'
PRODUCTION CASING	9-5/8", 47#, Whipstock set at 7740' MD 7", 26#, S-95/P-110, 0-10600' Min Burst: 9950 psi Min Collapse: 6230 psi
PRODUCTION LINER	5", 15#, P-110, 10262-11917' MD Min Burst: 11400 psi Min Collapse: 8830 psi
LAP TEST	Negative test on the 7" X 5" lap to ±1800 psi on 05/10/01
PRODUCTION TUBING	2-7/8", 6.5#, N-80, 0-10088' 2-3/8", 4.7#, N-80, 10088-10151' Burst: 10570 psi Collapse 11160 psi
EXISTING PERFORATIONS:	11255 – 11295' MD – Lower Repetto M Upper sand Frac pack w/31,000# 20/40 sand. WWSS removed. 11410 – 11470' MD – Lower Repetto M Lower sand Frac pack w/45,000# 20/40 sand. WWSS 11398-11482'. **55' of 1-5/8" drill rod stuck between 11309-11363' MD.** 11635 – 11695' MD – Lower Repetto N sand Frac pack w/83,000# 20/40 sand. WWSS 11616-11725'.
RESULT BHP RUN 2/11/03	4727 psi at 11260' MD / 8119' TVD 11.2 ppg EMW
CURRENT PACKER/SCSSV	7", 26# X 2-3/8", RDH packer @10108' MD 2-7/8" Wellstar SCSSSV at 495' MD
WORKOVER OBJECTIVE	Squeeze off top set perforations 11255-11295' MD. Remove drill rod by milling Quantum packer & seal bore extension, follow with external cutter to retrieve rod. Make a polishing run with a mill shoe followed by installing a drive over adapter and packer to salvage frac pack completion for the LPM lower sand. Clean and stimulate LPM Lower and LPN frac completions. Return well to production with new ESP.
RIG MAST LIMITATION	±215k#'s

PROCEDURES:

1. Rigged up 0.092" diameter WL unit. RIH with a Pressure/Temperature gauge to 11260' on 02/11/03. Downloaded pressure information for use for kill fluid weight calculation. (Pressure of 4727 psi @ 11260'MD – Pore Pressure=11.2 ppg EMW - Completion Fluid Density will be 11.5 ppg).

2. RIH with shifting tool and shift XA sliding sleeve @ 10093' MD to open position.

3. Skid the rig over Well S-44.

4. Circulate out with 11.5 ppg Calcium Chloride to kill the well.

5. RU WL. Shift the "X-A" SSDV into the closed position. RD WL. Close SCSSSV. Install back pressure valve and remove tree.

6. Install riser and Class IV (5M) BOPE. Test riser and BOPE to 250/5000 psi, and annular to 250/3500 psi as per MMS regulations.

   Note: MMS is to be notified 24 hours in advance of anticipated start of BOP test. Fill out the "BOP Test Procedure" to be signed by TRS tool pusher and Nuevo Company Representative at conclusion of the test. The Nuevo Company Representative will sign and date the BOP test chart to be filed & posted at the platform. Fax a copy to the Nuevo Bakersfield office.

7. Check to confirm well is static. Pull tubing hanger and unseat packer.

8. POH with production equipment. Monitor any possible fluid entry into the wellbore with the trip tank monitor. Continuously fill the annulus with kill fluid while POH. Monitor for proper fill-up.

9. PU a tapered work string consisting of 1540', 2-3/8", 6.2#, P-110, PH-6, 6565', 2-7/8", 7.9#, P-110, PH-6, and 3500', 3-1/2",12.95#, P-110, PH-6 Tbg.

   Note: A TIW valve with crossovers made up for quick installation will be on the rig floor for all trips.

10. RIH with a 5" 15# casing scraper and circulate well clean to the top of the production packer at 11304'.

11. Run and set a 5", 15# composite E-Z drill bridge plug at 11300' MD.

12. MU and RIH with squeeze packer. Set packer at 10,685' MD (530' above proposed squeeze interval).

13. RU cementing unit. Pressure test surface equipment to 3000 psi. Open bypass on packer. Squeeze the upper perforations from 11255-11295' as follows:

a. Establish formation injectivity.
b. Place freshwater spacer ahead of the cement
c. Mix, pump, and circulate a minimum of 60 cf/50 sx of Class "G" cement to circulation port.
d. Close bypass.
e. Displace cement slurry to the open perforations.
f. Squeeze cement through the perforations.
g. If the final squeeze pressure is not realized, then repeat steps a through f as per above (until squeeze is achieved).
h. Repeat step 13 until cement covers all open perforations.
i. POOH w/ squeeze packer.

14. RIH with 4-3/16" or 4-1/8" bladed workover bit. Drill out cement to the top of bridge plug. Circulate well clean. Test squeeze perforations with 1500 psi of pressure. Carefully monitor any fluid loss. It squeeze perforations do not hold pressure, repeat steps #12 & #13 until successful positive test of squeeze perforations is obtained.

~~15. PU and RIH with 7", 26# lap test tools to above the liner top. Set packer. Open the tool and negative test the squeezed perforations to a minimum of 870 psi differential. The string will be monitored for a minimum of two hours to establish static conditions.~~

16. RIH with bit & continue drilling out the cement, and then the bridge plug. POOH after reach the top of Quantum packer at 11304' MD. PU mill shoe and RIH.

17. Mill over Quantum packer and lower packer extension (f/11303-11329', total of 26') with mill shoe and wash over assembly.

18. Continue milling down to ±11,335' MD (±5 feet below the crossover located at 11330') to finish removing the crossover (with larger OD coupling). POOH with the mill shoe.

19. PU wash shoe and RIH. Wash-over the TOF at 11,345 and wash down to 11382 feet in preparation for the external hydraulic cutter run. Once the depth of 11,382 is reached, place string weight on top of the washpipe assembly to confirm that frac pack sand is still in place for the pack-off overshot completion effort. POH with the washpipe and shoe.

20. RIH with hydraulic external cutting assembly to 11377' (15' below the collar connection in 2-3/8" located at ±11362' MD, or 14 feet below the fish –bottom of drill rod)

21. Activate the hydraulic external cutter. Cut the blank tubing. POOH with the cutter and blank 2-3/8" tubing above 11377' MD, with the drill rod inside the tubing. The new TOF will be 11377'.

22. RIH with mill shoe to dress off any burrs at the top of the 2-3/8" X 1.995" ID blank stub, and to ensure adequate sealing area is available for drive-over adapter. POOH.

23. RIH with tapered work string to serve as guide string for the 1-1/4" coil. Lower to the top of stub at 11377'. Hang off the workstring at the rotary table in the slips. RU the 1-1/4" CTU BOPE stack and the injector head on top of the work-string. Perform full BOP pressure test and pressure test valves to 5000 psi.

24. RIH with a nozzle inside the tapered guide string and continue downward to the fill or restricted area. Clean to sump packer depth at 11725' MD. If progress cannot be made to cleanout the lower completion, Nuevo Bakersfield will check with the MMS Camarillo office to devise contingency procedure at that time. If the cleanout is made, proceed to Step 25.

25. RIH with tapered workstring to ±11377' MD. Change out the workover completion fluid with clean completion fluid. POOH standing back the workstring in the derrick.

26. RIH with drive over adaptor, 2-3 /8" blank, 5" production packer, and hydraulic packer setting tools on work string. Tag TOF and slack off weight to swallow and pack-off on the stub looking up. Set the production packer. Pull out of hole with packer setting tools.

    Note: Production packer is to be set @ approximately ± 11312' MD.

27. Pick up the upper isolation assembly consisting of 5", 15#, production snap-latch packer, mill out extension, shear out safety joint, and 2-3/8", 4.7#, N-80 EUE tubing with seal unit. Sting seals into seal bore of the production packer set in Step 26 above, and slack off to engage the snap latch at the production packer. Drop the packer setting ball and apply packer setting pressure, setting the isolation packer at +/- 11,150'. POH with the packer setting tools.

28. RIH with open-ended tapered work-string with Baker's snap latch assembly and seals. Land at the top of the isolation packer as per above at +11150' and engage snap-latch. Hang off workstring at rotary table on slips. RU the 1-1/4" CTU BOPE stack and the injector head on top of the work-string. Perform full BOP pressure test and pressure test valves to 5000 psi. RIH with CTU nozzle and clean to sump packer depth at 11725' MD.

29. Perform through the 1-1/4" coiled tubing w/wash nozzle the following stimulation job. Perform acid wash for existing perforations (11635-11695' and 11410-11470' MD) with 50 gal/ft 15% HCl. POOH w/ CT. RD CTU.

30. Pull tension and disengage the snap-latch. POH. LD workstring (excepting 600'). Run 7" 26# casing scraper to 600'. POH LD pipe.

31. MU & RIH with the production equipment while PU the 2-7/8", 6.5 ppf, N-80 production string. Position the bottom of the ESP assembly at ±10,000' MD and the ESP mudline packer @ ±510' MD. See proposed production assembly as below:

    a. Reda Motor
    b. Reda BSL protector
    c. Reda GS Gas Separator
    d. Reda pump
    e. Reda Bolt on Discharge Head - 2.37" OD 8RD EUE
    f. Nuevo Crossover 2-3/8" EUE pin to 2-7/8" EUE 8rd box
    g. One pup jt, 2-7/8" , 6.4 ppg, N-80, EUE 8rd
    h. Pruitt BHP chamber
    i. 2-7/8" XN Nipple
    j. One jt 2-7/8" ,6.4 ppg, N-80, EUE 8rd tubing
    k. Halliburton XA sliding sleeve
    l. X jts 2-7/8", 6.4 ppf, N-80 tubing

m. One pup jt 2-7/8" , 6.4 ppg, N-80, EUE 8rd
n. 2-7/8" SCSSSV (2-7/8" EUE 8rd Conn. x 2.313" ID "X" type profile)
o. Flow Coupling (2-7/8" EUE Box X 2-7/8" EUE 8rd pin)
p. One pup jt, 2-7/8" , 6.4 ppg, N-80, EUE 8rd
q. Packer sub
r. 7"-26# size ESP packer (2-7/8" EUE Box X 2-7/8" EUE 8rd pin)
s. One pup jt, 2-7/8" , 6.4 ppg, N-80, EUE 8rd
t. Nuevo 14 joints, 2-7/8", 6.4 ppf, N-80 tubing
u. Fatigue nipple
v. Hanger

Notes:

a) REDA serviceman will test electric cable at intervals during run.
b) **An MMS variance will be required 24 hours in advance prior to soldering the cable splice.** Utilize explosion proof ventilation fan to clear well vapors. Fill out hot work permit. Continuously monitor work area with hand held monitors for LEL.
c) Tally all equipment run, listing ID's, OD's and setting depths.

30. Land the tubing hanger in the wellhead.

31. Close SCSSSV. Install back-pressure valve in tubing hanger profile.

32. Remove BOPE and riser and set to side. NU the production tree and test to 3000 psi.

33. Flow test the well for 48 hours to ensure that there are no problems with the ESP as per MMS allowance. At the end of the 48 hour flow test SI well, and commence wireline operations to set plug and set SCSSV packer.

34. RU 0.092" diameter WL. MU the "X" plug and RIH. Seat in the 2.313" ID "**X**" profile in the SCSSSV. POH.

35. Pressure up on the SCSSV packer and set the packer.

36. RU WL. RIH and pull the wireline "X" plug that is seated in the 2.313" X-profile in the 2-7/8" SCSSSV. POH. RD WL unit.

37. RD and skid rig. Turn the well over to production.

38. Check that the SCSSSV, vent sleeve, and packer are holding pressure for MMS compliance. Equalize pressure across the vent sleeve before reopening.

Note: Justification of Temporary Abandonment of Perforations from 11255-11295' MD: Based on an anticipated minimal increment of production (post frac analysis), the decision has been made to leave this zone squeezed off to minimize completion risks due to mechanical complexity. A re-completion may be attempted at a later date once the LPN and the LPM lower have been depleted.

Releasable to public
Name: SEA Date: 4/3/13

U.S. Department of the Interior
Minerals Management Service (MMS)

Submit ORIGINAL plus THREE copies, with ONE copy marked "Public Information"

OMB Control Number 1010-0045
OMB Approval Expires 10/31/2005

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

OK 2/25

1. TYPE OF SUBMITTAL ☒ REQUEST ☐ SUBSEQUENT ☐ CORRECTION APPROVAL REPORT		2. MMS OPERATOR NO. 01546	3. OPERATOR NAME and ADDRESS *(Submitting Office)* Nuevo Energy Company 1200 Discovery Dr. Suite 500 Bakersfield, CA 93309		
4. WELL NAME S44	5. SIDETRACK NO. 03	6. BYPASS NO. 00			
7. API WELL NO. *(12 digits)* 043112061003	8. START DATE *(Proposed)* 2/24/03	9. PRODUCING INTERVAL CODE SO	10. WELL STATUS COM/POW	11. WATER DEPTH *(Surveyed)* 205'	12. ELEVATION AT KB *(Surveyed)* 107'

WELL AT TOTAL DEPTH	WELL AT SURFACE
13. LEASE NO. P-0216	16. LEASE NO. P-0216
14. AREA NAME 6B	17. AREA NAME 6B
15. BLOCK NO. 4861	18. BLOCK NO. 4861

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FEB 2 [illegible] 2003
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

19. PROPOSED OR COMPLETED WORK *(Describe in Section 22)*

- ☐ INITIAL COMPLETION
- ☐ MULTI-COMPLETION
- ☐ RECOMPLETION
- ☒ MODIFY PERFORATIONS
- ☐ CHANGE ZONE
- ☐ PERMANENT PLUGGING
- ☐ TEMPORARY ABANDONMENT
- ☐ PLUG BACK TO SIDETRACK / BYPASS
- ☐ OTHER _____
- ☒ ACIDIZE WITH COIL TUBING
- ☒ ARTIFICIAL LIFT (INITIAL)
- ☒ WORKOVER
- ☐ CHANGE IN APPROVED PROCEDURE
- ☐ FINAL LOCATION PLAT ATTACHED

20. RIG NAME OR PRIMARY UNIT *(e.g., Wireline Unit, Coil Tubing unit, etc.)* Nuevo 6080

21. RIG TYPE PS

22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS *(Attach Prognosis or Summary of Completed Work, As Appropriate)*

Please see attached procedure to squeeze off top set of perforations, remove obstruction (fish) from wellbore and run remedial completion string to return to production the "LPN" and "LPM" lower Repetto sands.

23. CONTACT NAME	24. CONTACT TELEPHONE NO.	25. CONTACT E-MAIL ADDRESS
Brent H. Martin	(661) 395-5201	martinb@nuevoenergy.com

26. AUTHORIZING OFFICIAL *(Type or Print Name)*	27. TITLE
Richard F. Garcia	as Agent for Nuevo Energy Company
28. AUTHORIZING SIGNATURE Richard F. Garcia	29. DATE 2/20/03

THIS SPACE FOR MMS USE ONLY

APPROVED BY	TITLE	DATE
for	District Supervisor	2/25/03

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PLATFORM GILDA - WELL S-44
SANTA CLARA FIELD, SANTA BARBARA COUNTY
RETURN WELL TO PRODUCTION

February 14, 2003

GENERAL DATA:

TD	11917' MD (8616' TVD)
WELLHEAD	7" (5M) National
SURFACE CASING	20", 94#, K-55, cemented at 726'
INTERMEDIATE CASING	16", 75#, X-52, cemented at 1583' 13-3/8", 68#, K-55, cemented at 3998'
PRODUCTION CASING	9-5/8", 47#, Whipstock set at 7740' MD 7", 26#, S-95/P-110, 0-10600' Min Burst: 9950 psi Min Collapse: 6230 psi
PRODUCTION LINER	5", 15#, P-110, 10262-11917' MD Min Burst: 11400 psi Min Collapse: 8830 psi
LAP TEST	Negative test on the 7" X 5" lap to ±1800 psi on 05/10/01
PRODUCTION TUBING	2-7/8", 6.5#, N-80, 0-10088' 2-3/8", 4.7#, N-80, 10088-10151' Burst: 10570 psi Collapse 11160 psi
EXISTING PERFORATIONS:	11255 – 11295' MD – Lower Repetto M Upper sand Frac pack w/31,000# 20/40 sand. WWSS removed. 11410 – 11470' MD – Lower Repetto M Lower sand Frac pack w/45,000# 20/40 sand. WWSS 11398-11482'. **55' of 1-5/8" drill rod stuck between 11309-11363' MD.** 11635 – 11695' MD – Lower Repetto N sand Frac pack w/83,000# 20/40 sand. WWSS 11616-11725'.
RESULT BHP RUN 2/11/03	4727 psi at 11260' MD / 8119' TVD 11.2 ppg EMW
CURRENT PACKER/SCSSV	7", 26# X 2-3/8", RDH packer @10108' MD 2-7/8" Wellstar SCSSSV at 495' MD
WORKOVER OBJECTIVE	Squeeze off top set perforations 11255-11295' MD. Remove drill rod by milling Quantum packer & seal bore extension, follow with external cutter to retrieve rod. Make a polishing run with a mill shoe followed by installing a drive over adapter and packer to salvage frac pack completion for the LPM lower sand. Clean and stimulate LPM Lower and LPN frac completions. Return well to production with new ESP.
RIG MAST LIMITATION	±215k#'s

PROCEDURES:

1. Rigged up 0.092" diameter WL unit. RIH with a Pressure/Temperature gauge to 11260' on 02/11/03. Downloaded pressure information for use for kill fluid weight calculation. (Pressure of 4727 psi @ 11260'MD – Pore Pressure=11.2 ppg EMW - Completion Fluid Density will be 11.5 ppg).

2. RIH with shifting tool and shift XA sliding sleeve @ 10093' MD to open position.

3. Skid the rig over Well S-44.

4. Circulate out with 11.5 ppg Calcium Chloride to kill the well.

5. RU WL. Shift the "X-A" SSDV into the closed position. RD WL. Close SCSSSV. Install back pressure valve and remove tree.

6. Install riser and Class IV (5M) BOPE. Test riser and BOPE to 250/5000 psi, and annular to 250/3500 psi as per MMS regulations.

   Note: MMS is to be notified 24 hours in advance of anticipated start of BOP test. Fill out the "BOP Test Procedure" to be signed by TRS tool pusher and Nuevo Company Representative at conclusion of the test. The Nuevo Company Representative will sign and date the BOP test chart to be filed & posted at the platform. Fax a copy to the Nuevo Bakersfield office.

7. Check to confirm well is static. Pull tubing hanger and unseat packer.

8. POH with production equipment. Monitor any possible fluid entry into the wellbore with the trip tank monitor. Continuously fill the annulus with kill fluid while POH. Monitor for proper fill-up.

9. PU a tapered work string consisting of 1540', 2-3/8", 6.2#, P-110, PH-6, 6565', 2-7/8", 7.9#, P-110, PH-6, and 3500', 3-1/2",12.95#, P-110, PH-6 Tbg.

   Note: A TIW valve with crossovers made up for quick installation will be on the rig floor for all trips.

10. RIH with a 5" 15# casing scraper and circulate well clean to the top of the production packer at 11304'.

11. Run and set a 5", 15# composite E-Z drill bridge plug at 11300' MD.

12. MU and RIH with squeeze packer. Set packer at 10,685' MD (530' above proposed squeeze interval).

13. RU cementing unit. Pressure test surface equipment to 3000 psi. Open bypass on packer. Squeeze the upper perforations from 11255-11295' as follows:

OK * Squeeze perfs due to sand production

a. Establish formation injectivity.
b. Place freshwater spacer ahead of the cement
c. Mix, pump, and circulate a minimum of 60 cf/50 sx of Class "G" cement to circulation port.
d. Close bypass.
e. Displace cement slurry to the open perforations.
f. Squeeze cement through the perforations.
g. If the final squeeze pressure is not realized, then repeat steps a through f as per above (until squeeze is achieved).
h. Repeat step 13 until cement covers all open perforations.
i. POOH w/ squeeze packer.

14. RIH with 4-3/16" or 4-1/8" bladed workover bit. Drill out cement to the top of bridge plug. Circulate well clean. Test squeeze perforations with 1500 psi of pressure. Carefully monitor any fluid loss. It squeeze perforations do not hold pressure, repeat steps #12 & #13 until successful positive test of squeeze perforations is obtained.

15. PU and RIH with 7", 26# lap test tools to above the liner top. Set packer. Open the tool and negative test the squeezed perforations to a minimum of 870 psi differential. The string will be monitored for a minimum of two hours to establish static conditions.

16. RIH with bit & continue drilling out the cement, and then the bridge plug. POOH after reach the top of Quantum packer at 11304' MD. PU mill shoe and RIH.

17. Mill over Quantum packer and lower packer extension (f/11303-11329', total of 26') with mill shoe and wash over assembly.

18. Continue milling down to ±11,335' MD (±5 feet below the crossover located at 11330') to finish removing the crossover (with larger OD coupling). POOH with the mill shoe.

19. PU wash shoe and RIH. Wash-over the TOF at 11,345 and wash down to 11382 feet in preparation for the external hydraulic cutter run. Once the depth of 11,382 is reached, place string weight on top of the washpipe assembly to confirm that frac pack sand is still in place for the pack-off overshot completion effort. POH with the washpipe and shoe.

20. RIH with hydraulic external cutting assembly to 11377' (15' below the collar connection in 2-3/8" located at ±11362' MD, or 14 feet below the fish –bottom of drill rod)

21. Activate the hydraulic external cutter. Cut the blank tubing. POOH with the cutter and blank 2-3/8" tubing above 11377' MD, with the drill rod inside the tubing. The new TOF will be 11377'.

22. RIH with mill shoe to dress off any burrs at the top of the 2-3/8" X 1.995" ID blank stub, and to ensure adequate sealing area is available for drive-over adapter. POOH.

23. RIH with tapered work string to serve as guide string for the 1-1/4" coil. Lower to the top of stub at 11377'. Hang off the workstring at the rotary table in the slips. RU the 1-1/4" CTU BOPE stack and the injector head on top of the work-string. Perform full BOP pressure test and pressure test valves to 5000 psi.

7

24. RIH with a nozzle inside the tapered guide string and continue downward to the fill or restricted area. Clean to sump packer depth at 11725' MD. If progress cannot be made to cleanout the lower completion, Nuevo Bakersfield will check with the MMS Camarillo office to devise contingency procedure at that time. If the cleanout is made, proceed to Step 25.

25. RIH with tapered workstring to ±11377' MD. Change out the workover completion fluid with clean completion fluid. POOH standing back the workstring in the derrick.

26. RIH with drive over adaptor, 2-3 /8" blank, 5" production packer, and hydraulic packer setting tools on work string. Tag TOF and slack off weight to swallow and pack-off on the stub looking up. Set the production packer. Pull out of hole with packer setting tools.

    Note: Production packer is to be set @ approximately ± 11312' MD.

27. Pick up the upper isolation assembly consisting of 5", 15#, production snap-latch packer, mill out extension, shear out safety joint, and 2-3/8", 4.7#, N-80 EUE tubing with seal unit. Sting seals into seal bore of the production packer set in Step 26 above, and slack off to engage the snap latch at the production packer. Drop the packer setting ball and apply packer setting pressure, setting the isolation packer at +/- 11,150'. POH with the packer setting tools.

28. RIH with open-ended tapered work-string with Baker's snap latch assembly and seals. Land at the top of the isolation packer as per above at +11150' and engage snap-latch. Hang off workstring at rotary table on slips. RU the 1-1/4" CTU BOPE stack and the injector head on top of the work-string. Perform full BOP pressure test and pressure test valves to 5000 psi. RIH with CTU nozzle and clean to sump packer depth at 11725' MD.

29. Perform through the 1-1/4" coiled tubing w/wash nozzle the following stimulation job. Perform acid wash for existing perforations (11635-11695' and 11410-11470' MD) with 50 gal/ft 15% HCl. POOH w/ CT. RD CTU.

30. Pull tension and disengage the snap-latch. POH. LD workstring (excepting 600'). Run 7" 26# casing scraper to 600'. POH LD pipe.

31. MU & RIH with the production equipment while PU the 2-7/8", 6.5 ppf, N-80 production string. Position the bottom of the ESP assembly at ±10,000' MD and the ESP mudline packer @ ±510' MD. See proposed production assembly as below:

    a. Reda Motor
    b. Reda BSL protector
    c. Reda GS Gas Separator
    d. Reda pump
    e. Reda Bolt on Discharge Head - 2.37" OD 8 RD EUE
    f. Nuevo Crossover 2-3/8" EUE pin to 2-7/8" EUE 8rd box
    g. One pup jt, 2-7/8" , 6.4 ppg, N-80, EUE 8rd
    h. Pruitt BHP chamber
    i. 2-7/8" XN Nipple
    j. One jt 2-7/8" ,6.4 ppg, N-80, EUE 8rd tubing
    k. Halliburton XA sliding sleeve
    l. X jts 2-7/8", 6.4 ppf, N-80 tubing

m. One pup jt 2-7/8" , 6.4 ppg, N-80, EUE 8rd
n. 2-7/8" SCSSSV (2-7/8" EUE 8rd Conn. x 2.313" ID "X" type profile)
o. Flow Coupling (2-7/8" EUE Box X 2-7/8" EUE 8rd pin)
p. One pup jt, 2-7/8" , 6.4 ppg, N-80, EUE 8rd
q. Packer sub
r. 7"-26# size ESP packer (2-7/8" EUE Box X 2-7/8" EUE 8rd pin)
s. One pup jt, 2-7/8" , 6.4 ppg, N-80, EUE 8rd
t. Nuevo 14 joints, 2-7/8", 6.4 ppf, N-80 tubing
u. Fatigue nipple
v. Hanger

Notes:

a) REDA serviceman will test electric cable at intervals during run.
b) **An MMS variance will be required 24 hours in advance prior to soldering the cable splice.** Utilize explosion proof ventilation fan to clear well vapors. Fill out hot work permit. Continuously monitor work area with hand held monitors for LEL.
c) Tally all equipment run, listing ID's, OD's and setting depths.

30. Land the tubing hanger in the wellhead.

31. Close SCSSSV. Install back-pressure valve in tubing hanger profile.

32. Remove BOPE and riser and set to side. NU the production tree and test to 3000 psi.

33. Flow test the well for 48 hours to ensure that there are no problems with the ESP as per MMS allowance. At the end of the 48 hour flow test SI well, and commence wireline operations to set plug and set SCSSV packer.

34. RU 0.092" diameter WL. MU the "X" plug and RIH. Seat in the 2.313" ID "**X**" profile in the SCSSSV. POH.

35. Pressure up on the SCSSV packer and set the packer.

36. RU WL. RIH and pull the wireline "X" plug that is seated in the 2.313" X-profile in the 2-7/8" SCSSSV. POH. RD WL unit.

37. RD and skid rig. Turn the well over to production.

38. Check that the SCSSSV, vent sleeve, and packer are holding pressure for MMS compliance. Equalize pressure across the vent sleeve before reopening.

Schlumberger

Nuevo Energy Co.

Revision #0

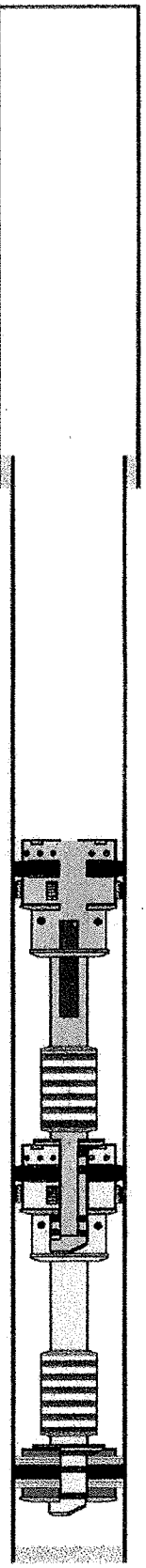
Revised 11/19/01

Completion as of 11/19/01

Prepared for : Phil Tibbs	Date : 7/25/01	Casing : 5" 15# P-110 4.408"	Completion Type : Co Mingle Complete
Well Name : OCS-P 0216 #S-44	Field Name : Santa Clara	Est. BHP : 5,600 psi / BHST: 190 deg F	Upper Sand 11,255' - 11,295' (40') MPTVD 8125' Middle Sand 11,410' - 11,470' (60') MPTVD 8415' Lower Sand 11,635' - 11,695' (60') MPTVD 8244'
Prepared by : Ted Latch (337) 265-2416	District : Maurice, LA (800) 599-9935	Rig : Gilda Platform 805 642-7565	
Production Tubing : 2 7/8" 6.5# 8rd ID: 2.441" Drift: 2.347"	Wash Pipe: 1 1/4" FJ ID: 1.380"	Work String: 2 3/8" 7.7# PH-6 ID: 1.703" Drift: 1.609"	

Casing:	5" 15# P-110 4.408"	Salesman: Farrell Pitts 805 644-8160	
Casing Drift:	4.283"	Pumping:	Dowell / Gravel Pack
Completion Fluid:	13.3 # CaBr2	Tools	Dowell
Packer Fluid:	13.3 # CaBr2	WP Equipment:	
Deviation:	53 deg. Max	String Weight Include Block -	
Deviation:	40 deg. @ Perfs	Block Weight -	
Screen:	316L Wire Wrap	Weight On Locator -	
Screen:	2 3/8" 8rd Base Pipe N-80	Original RKB -	
Blank:	2 3/8" 4.7# 8rd N-80	Item Number Used to Correct For WLM -	
Type Well	Oil Well	Item's Actual Pipe Measured Length -	

	Length	ID	OD	PRODUCTION ASSEMBLY	No.
	Length	ID	OD	UPPER FRAC ASSEMBLY	
11309.97	22.83				BAKER
11331.50	31.43				BAKER
11362.93					BAKER
					BAKER
					BAKER
					NU
					NU
					NU
					NU
					BAKER
					SLB
					SLB
	Length	ID	OD	Middle FRAC ASSEMBLY	
11393.09	4.42	2.688	4.250	5" X 2.688" Quantum Packer (11.5-15#) AFLAS	SLB
11398.11	21.36	2.688	3.940	5" X 2.688" Extended Circulating Housing w/ Closure Sleeve	SLB
11329.47	1.00	1.995	3.653	XO, 2 3/8" 8rd Pin X 3.3750"-8 Stub Acme Box	SLB
11330.47	0.00	1.995	3.653	XO, 2 3/8" SuperMax Pin X 2 3/8" 8rd Box	NU
11330.47	66.48	1.995	2.375	2 3/8" 4.7# N80 Super Max Blank Pipe (collapse = 11,780 Psi)	NU
11396.95	80.78	1.995	2.875	2 3/8" 4.7# N80 SuperMax 12Ga Prod. Screen (316SS/ 140 Wire)	NU
11477.73	3.87	1.995	2.875	XO, 2 3/8" EUE 8rd Pin X 2 3/8" SuperMax Box	NU
11481.60	1.58	1.955	3.813	5" X 2.688"Snap Latch Locator (2 3/8" EUE 8rd Box)	SLB
11483.18	13.10	1.812	2.688	2.688" X 1.812" Lower Zone Multi-Seal Assembly Viton	SLB
11496.28	0.40	1.955	2.688	2.688" Self Aligning Guide Shoe	SLB
11496.68				End of Assembly	
	Length	ID	OD	LOWER FRAC ASSEMBLY	
11481.60	4.42	2.688	4.250	5" X 2.688" Quantum Packer (11.5-15#) AFLAS	SLB
11486.02	21.36	2.688	3.940	5" X 2.688" Extended Circulating Housing w/ Closure Sleeve	SLB
11507.38	0.45	1.995	3.653	XO, 2 3/8" 8rd Pin X 3.3750"-8 Stub Acme Box	SLB
11507.83	0.00	1.995	3.653	XO, 2 3/8" SuperMax Pin X 2 3/8" 8rd Box	NU
11507.83	108.40	1.995	2.375	2 3/8" 4.7# N80 Super Max Blank Pipe (collapse = 11,780 Psi)	NU
11616.23	107.30	1.995	2.875	2 3/8" 4.7# N80 SuperMax 12Ga Prod. Screen (316SS/ 140 Wire)	NU
11723.53	1.37	1.995	2.875	XO, 2 3/8" EUE 8rd Pin X 2 3/8" SuperMax Box	NU
11724.90	0.83	1.995	3.813	5" X 2.688" Snap Latch Locator (2 3/8" EUE 8rd Box)	SLB
11725.73	2.95	1.995	2.688	2.688" Seal Unit Viton	SLB
11728.68	0.40	1.995	2.688	2.688" Guide Shoe	SLB
11729.08				End of Assembly	
	Length	ID	OD	SUMP PACKER	
11724.90	3.08	2.688	4.000	5" x 2.688" Model 18L Sump Packer (11.5-15#)	SLB
				Can Not Run Flapper In Upper Assembly Because	
				Of Isolation Assembly	

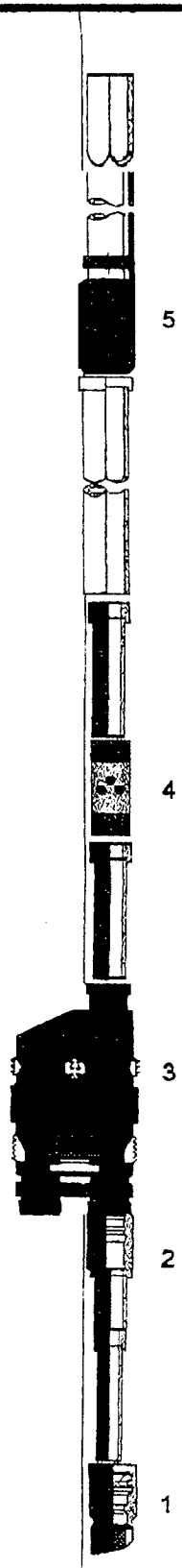


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Current D..

COMPLETION GUIDE

HALLIBURTON



HALLIBURTON ENERGY SERVICES COMPLETION PRODUCTS

PREPARED FOR:	COMPANY:	DATE:	NEW:
John Hernin	Nuevo Energy	20-Nov-01	W/O: Temp

FIELD NAME Santa Clara	WELL NAME:	WELL No.:
	Gilda S-44	S-44

CASING SIZE 7"	WEIGHT:	GRADE:
LINER SIZE:	WEIGHT:	GRADE:
UPPER TUBING:	WEIGHT:	THREAD:
MIDDLE TUBING:	WEIGHT:	THREAD:
LOWER TUBING:	WEIGHT:	THREAD:

	DESCRIPTION	ID	OD	LENGTH	TOP	BOTTOM
	MULESHOE GUIDE	1.990		.41	10151.09	10151.50
1	XN nipple 1.875 w/1.791 no-go	1.791		1.28	10149.81	10151.09
	1 jt 2 3/8 EUE N-80 tbg	1.990		31.54	10118.27	10149.81
	sub 2 3/8 EUE N-80 tbg	1.990		2.12	10116.15	10118.27
2	X nipple 1.875	1.875		1.17	10114.98	10116.15
3	RDH packer w/ secondary plugged	1.940	6.080	6.35	10108.63	10114.98
	sub 2 3/8 EUE N-80 tbg	1.990		11.91	10096.72	10108.63
4	XA sliding sleeve (open up)	1.875		3.22	10093.50	10096.72
	sub 2 3/8 EUE N-80 tbg	1.990		4.11	10089.39	10093.50
	x-over 2 3/8-2 7/8 EUE 8rd	1.990		1.10	10088.29	10089.39
	306 jts 2 7/8" EUE 8rd N-80 tbg	2.440		9582.63	505.66	10088.29
	sub 2 7/8" EUE 8 rd N-80	2.440		3.61	502.05	505.66
	flow cplg 2 7/8" EUE	2.440		3.94	498.11	502.05
5	SCSSV Wellstar safety valve	2.313		3.90	494.21	498.11
	flow cplg 2 7/8" EUE	2.440		3.98	490.23	494.21
	sub 2 7/8" EUE 8 rd N-80	2.440		3.60	486.63	490.23
	14 jts 2 7/8" EUE N-80 tbg	2.440		433.79	52.84	486.63
	fatigue nipple 2 7/8" EUE N-80	2.440		1.74	51.10	52.84
	hanger	2.500		1.10	50.00	51.10
	KB			50.00		50.00

PREPARED E Jerry Brown
OFFICE: Oxnard CA TELEPHONE: 805-487-9638

Releasable to public
Name: SEH Date: 5/13/13

Confidential

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20610-03/S01	S-44	NUEVO ENERGY COMPANY 1200 Discovery Dr., Ste 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL ___	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER X	COM/POW
SUBSEQUENT REPORT X	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=10417751 7825' FEL Y=747981 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	TRS # 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see attached information for re-drill summary.

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name) Richard F. Garcia	29. TITLE as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE Richard F. Garcia By Wi	31. DATE 11/5/02

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 11/14/02

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

FORM MMS-124 (September 1999) *(Replaces all previous editions of Form MMS-124, which may not be used)*

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: September 30, 2002

1. 1ST COMP. / RECOMPLETION / ABANDONMENT / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-20610-03/S01	S-44 ST 3	Nuevo Energy 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=104,5983.85 Y=253,999.62	P-0216	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=104,5726 Y=753,696	P-0216	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	11/22/2001		3/10/2001

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
	5/8/01	MD 11,925' TVD 8520'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
11,255'	11,295'		
11,410'	11,470'		
11,635'	11,695'		

RECEIVED
NOV – 6 2002
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	Lower Repetto

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
30"	20"	94#	K-55	726'		
16"	13 3/8"	68#	K-55	3998'		
	9 5/8"	47#	N80	9422'		
	7'	26#	S-95 & P-110	10,600'	Class G W/add.	1242 Ft^3

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
	2 7/8"	6.5#	N80	10,151'	10,115'
					11,300'
					11,480'
					11,727'

FORM MMS -125 (September 1999 (Replaces all previous editions of Form MMS-125, which will not be used)

WELL SUMMARY REPORT (continued)

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
	16"	75#	X-52	368'	1583'		
	7 5/8"	33#	N-80	8909'	11,344'		
	5"	15#	P-110	10,262'	11,917'	Class G W/add.	357 F^{t3}

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
11,635'	11,695'	Frac Sand	83000 LBS
11,410'	11,470'	Frac Sand	45,000 LBS
11,255'	11,295'	Frac Sand	31370 LBS

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

79. FORMATION	TOP 80. MD	TOP 81. TVD	BOTTOM 82. MD	BOTTOM 83. TVD	84. DESCRIPTION, CONTENTS, ETC.
Lower Repetto	10,262'		11,345' TD		

85. GEOLOGIC MARKERS	TOP 86. MD	TOP 87. TVD	85. GEOLOGIC MARKERS	TOP 86. MD	TOP 87. TVD
LP-K	10,262'				
LP-M	10,737'				
LP-N	11,212'				

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
Richard F. Garcia	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
Richard F. Garcia By W.V.	11-5-02

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

FORM MMS -125 (September 1999 (Replaces all previous editions of Form MMS-125, which will not be used)

COMPLETION SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
9/22/01	MIRU. RU pump & pits to mix CaCl water. Mix CaCl & stack material. Install new load line on crane. Mix CaCl (total 500 sacks).
9/23/01	Cont to mix CaCl. RU pump lines to change well over. CaCl wt=11.1 PPG. Change well over to CaCl (410 Bbls total). Install BP valve. Remove wellhead. Install and flange up riser.
9/24/01	NU Class IV 13 5/8" 5000# BOPE. Function test BOP (OK). Pickup, test jt & plug. Land jt in the tubing hanger and fill connection between rise and X-0. Flange using Bx-160. Ring leaking bad. Found clamp to be wrong size for 13 5/8" equip. Fill stack to test BOP (test no good, leaks). Found door on double gate leaking. Break door apart and grease seal. Retighten BOP equipment at tour change.
9/25/01	Start BOPE test. Test annular F/ 250L T/2100H. Test with 2 3/8" and 2 7/8" tubing. Test 2 3/8" & 2 7/8" pipe rams and blind rams. Safety valve F/ 250L T/ 3000H. All tested to MMS specs using water and remote stations (OK). Pump 50 Bbls down tubing @ 200PSI latch on to the tubing hanger and release packer. Pull hanger to surface and press down. Hang sheaves and hook up spoolers. Pull BPV and LD tubing hangers. Pull tubing to SSSV and pump open valve, bleed overbalance pressure to pit (10 Bbls). Well bled off. Pull and LD SSSV & RDH packer. Change out chemical and cable spools. POOH W/ESP. Found no bands on stds 26 through 30 and cable would not come out of well without assistance. Pulled 160 total jts at 6AM. Estimate loss of 40 bands at 6 AM tour change.
9/26/01	Continue to pull W/ESP. LD 3 pumps (good). Electric cable had holes. The motor was burnt/ground out. The AGH is good. The shaft is loose in the top protector. The gas separator intake screen is 80% plugged. Had 10 bands and 64 saddles missing. RD sheaves. Broke down packer & SSSV. Installed stripping rubber and PU rev circ tool. RIH W/rev circulating tool to 5000'. RU to rev circulating @ 5000'. RIH W/rev circ tool to 7000'. Rev circ @ 7000'. RIH to 9000'. Rev circ @ 9000'. RIH to 10,262'. PU 17 jts of 2 7/8" tubing. Rev circ at 10262', worked junk sub. POOH W/rev circ tool.
9/27/01	Continue to POOH & service rev circ tool. Recovered 5 bands and 2 saddles. PU hydrostatic surge tool and RIH. Worked surge tool on top of liner. POOH, no recovery. PU 4" rev circ tool. PU 30 jts of 2 3/8" tubing. RIH to 10,250'. Install PGSR in circ head. Rev circ while RIH from 10,250' to 11,030' (tubing measurement). Top of packer @ 11,126'. POOH W/rev circ tool. (will SLM when running in hole).
9/28/01	Continue to POOH W/rev circ tool. LD tool. No recovery. PU 4" surge tool and RIH

Date	Description of Work
	small amount of gravel pack sand coming from tubing. Continue to RIH W/surge tool. Tried to rotate (no good). POOH & LD.
9/30/01	Work shoe @ 11,102'. No torque. Could not break through. LD power swivel. POOH W/rev circ tool. Recovered 23 bands and 17 saddles. RIH W/rev circ tool to 11,102'. Work shoe @ 11,102'. No torque, could not break through. POOH W/rev circ tool. Recovered 1 piece of bands and 1 saddle. LD rev circ tool. PU spear and RIH.
10/1/01	Continue to RIH W/spear to 11,102'. Worked spear on junk @ 11,102'. POOH W/spear 2-3 K drag in liner. No Recovery. PU rev circ tool and RIH to 10,250'. Work tool across top of liner. RIH to 11,102'. Work tool on junk form 11,102' to 11,110'. RD swivel and POOH.
10/2/01	Continue to POOH W/rev circ tool. No recovery. Install test plug and change pipe ram arrangement. Test all rams and valves F/250L T/3000H PSI. Annular preventer to F/250L T/2500H PSI. RD test equipment. Pull test plug. Install PGSR. RIH W/spear to 11,110'. Worked Spear. Set 15 - 20K down. Took 10- 15K over-pull to free. Try bumper sub to knock down hole. 24K over-pull to free. POOH W/spear.
10/3/01	Continue to POOH. LD spear. No recovery but shows possible entry in to top of shear out sub. Measure and PU 4" saw tooth shoe W/one jt of washpipe. Trip in well to 11,110'. PU power swivel and install reverse circ rubber. Work over and rotate shoe on bands from 11,110' to 11,116'. Shoe torque's up and sticks requiring 20K pull over tubing weight to pull free. RD power swivel and pull PGSR rubber. POOH. Found wire catchers up inside shoe gone and score marks on inside and outside of shoe. MU new shoe on washpipe and run in well @ EOT.
10/4/01	Continue to trip in well W/washpipe and wire catcher shoe. Circ over fish/junk without rotating at 11,116'. Took 8K to fall over top of sub. Reverse circ well at 3 BPM @ 1800 PSI. Well continues to Flow back up tubing (over balance condition). Well quit flowing back after circ. POOH W/washpipe and wire catcher shoe, found wires damaged but intact indicating that shoe had gone over shear sub. There was no band recovery. LD wash pipe and shoe. MU shear sub overshot and RIH. Tagged @ 11,106'. Try to pressure test casing, would not test. Well flowed out tbg. Had oil returns, circ oil out (5 Bbls) to tank. Pump pill down tbg. Prepare to pull out of well. POOH W/shear sub overshot. Found nothing unusual on tool. MU fishing tools at EOT.
10/5/01	Well started flowing out of tubing. Circ 11.2 # CaCl to control flow, getting oil returns. Well started to flow again. Hook up pump and circ well dead. Continue to RIH circulating as needed to control well. Circ well, build up fluid weight to 11.2#. Well is static. Latch onto seal assembly @ 11,110' and work fish loose. POOH (80 stands). Finish POOH and LD seal assembly. MU fishing tools to clean off top of packer and RIH @ EOT.

Date	Description of Work
10/6/01	RU pump and reverse circ at top of packer @ 11,116' to remove any debris or bands left on top of packer. POOH 700' and well started flowing out of tbg. Pump on well and kill. Continue to POOH. Break down fishing tool and found top of snap latch in fishing tool. Run 15 stds 2 3/8" kill-string. Change out power tongs. Cleanup work area. Open well, pull kill-string and MU seal assembly minus snap latch. RIH to top of packer and stab in seal assembly. Top of seal @11,115'. Test csg side to 500 PSI (OK). Fill coiled tubing unit with filtered 11.3# CaCl water and run in well @ 5000' @ EOT.
10/7/01	Coiled tubing stopped @ 11,117'. Work tbg unit. Could not make any progress. POOH W/coiled tbg and rig out unit. Rig equipment to pull tubing. Pull and release seal assembly. Run kill string. Secure well. Set in power swivel unit. PU 1 5/8" drill rod W/clean out assembly. Continue in well. Tag top of packer @ 11,116'. LD 10 jts of tbg and pick up power swivel. Start milling (pumping down csg.). Mill plugging off pump down tbg. Continue milling. Clean out metal fill F/11,116' T/11,118'. Run to 11,123'. Mill down to 11,237'. Pump down and clean out to 11,230 @ EOT.
10/8/01	Continue to clean out inside of screen F/11,230' T/11,423', Pumping down tbg and up csg when well started to take fluid. Pull to 11,369', drill rod stuck in bailer screen. Start to pull pipe to 120,000# while trying to circ and rotate. Try to pump down csg. Well pressures up to 1500 PSI and will not take any fluid. Try to pump down tbg. Tbg pressure up to 2500 PSI and will not take fluids. Try to make blind back off and 2 7/8" tbg backed off 5 to 10 jts below table. Screw back into tbg and re-torque pipe. Attempt another back off, could not get torque down hole. Well started to flow up csg. Shut in csg and flow to pit. Well continued to flow. Start to monitor well @ 500 PSI. (21:00 hrs). Continue to monitor well. Build up to 850 PSI and stabilize. Continue to monitor well csg.
10/9/01	RU wireline to shoot off 2 3/8" tbg. Run in well to 10,720'. Bleed off csg to shoot. Make chemical cut @ 10,720'. POOH and RD wireline unit. RU equip to kill well. Tie into production facilities to circ oil out of csg. Circ oil through production facility to kill well. Well produced 100+Bbls of oil today while circ, but lost 200 + Bbls of CaCl while being shut in and killing well. Build 11.4# CaCl while circulating and killing well. Circ well with 11.3# CaCl. Well is dead. POOH W/tbg. POOH & LD cut off jt. Remove PGSR stripping rubber. PU fishing tools, bump sub, jars, drill collars, etc. RIH W/fishing tool assy spidering in well all tbg. Secure well and rig.
10/10/01	RIH to 9500'. Test all rams and valves F/250 T/3000 PSI. Annular preventer F/250 T/2000 PSI. Bleed well down to 400 PSI on annular. Pulled tbg hanger & broke circ. RIH W/overshot to 10,720'. Tighten each connection. Work over fish and jar on fish (no movement). Spot and rig up wireline unit. RIH W/5/8" freepoint tool. Secure well and rig.
10/11/01	RIH to 9500'. Work 5/8" freepoint to drill rod at 10,722'. Free @ 11,148' and stuck @ 11,223' (wireline measurement). All readings are stetch, unable to get and torque

Date	Description of Work
	readings. POOH W/wireline and RD. RU & circ well at 1.4 BPM, 11.4 PPG in 11.2 PPG returns (returns has small amount of gas & oil). Work pipe and jar on fish (no movement).
10/12/01	Circ well at 1.4 BPM (11.4 PPG in and out). RIH W/11/16" chemical cutter. Worked cutter inside 1 5/8" drill rod. Correlate & fired cutter @11,174' (tbg measurement). Cutter and slip left in hole. RD Wireline. Work pipe and jar on fish.
10/13/01	Continue attempting to release overshot from fish @ 10,722'. Pressure up to 3000 PSI. No injection.
10/14/01	Circ well. RU wireline. RIH W 11/16" chemical cutter. Correlate wireline and fired cutter at 11,171'. Did not go through pipe. POOH W/ wireline cutter. Work and jar on fish but unable to break pipe into. RIH W/collar locator, locator did not show any indication of a cut at 11,174' or 11,171'. POOH W/locator.
10/15/01	Continue to POOH W/cutter and change out. RIH W/11/16" cutter. Correlate and shoot cutter @ 11,166'. POOH W/cutter. Work pipe, jar on fish. MU string shot and RIH. Collar locator stopped working. POOH. RIH W/cutter and correlate. Work torque in tbg. Fire string shot @ 11,156' (300 grain). POOH W/string shot. Jar on fish while making up string shot #2. RIH W/string shot #2 and correlate. Work torque in tbg, fire string shot @ 11,156' (400 grain). Pipe not parted. POOH W/wireline.
10/16/01	Continue to POOH W/wireline. Work pipe and jar on fish. RIH W/string shot. Collar locator stopped working. POOH and fix collar locator. RIH W/string shot. Work torque in tbg for back off. Pull fish up hole 7'. POOH W/wireline. Pumped 60 Bbls of fluid in tbg. Pull tbg up hole 2'. Jar on fish, circ bottoms up. Jar on fish while making up string shot. No movement. Set tbg in neutral and put right hand torque in tbg. Fire string shot @ 11,141'. Tail at 11,147'. POOH W/wireline. No movement.
10/17/01	RIH W/string shot to 11,056'. Torque tbg W/7 turns of left hand torque and shoot string. Tbg came free. POOH W/wireline. LD wireline lubricator and RD wireline equip. POOH W/2 7/8" tbg and LD fishing tools. LD 10 jts of 1 5/8" drill rod. Found bottom shot joint. Flared out and split above tool jt. Prepare BOP test equip. Land test plug and fill riser W/water and 3000 PSI high-pressure W/both 2 3/8" and 2 7/8" tbg. Test hydril F/250L T/2100H pressure using MMS specifications. LD test plug and install PGSR. MU 1 5/8" overshot and fishing tool assy. RIH.
10/18/01	W/overshot and mill control. Work over top of fish at 11,056'. Jar on fish, work up hole 6'. Fish came loose. POOH W/fish and LD fishing tools. Found bottom of fish swollen and W/vertical cracks. PU seal assy and trip in well.
10/19/01	Cont to trip in well W/seal assy for wireline work. W/seal assy hung above packer @ 11,114'. Hook up pump and reverse circ well W/100 Bbls of fluid. Stab in seal assy

Date	Description of Work
	and test to 500 PSI (OK). RU wireline unit to run and cut off packer. Run wireline W/chemical cutter to 11,116'. Would not go any deeper. POOH and add extra weight. RIH and determine that chemical cutter would go through seal. Stab into packer and try to run cutter. Would not go past 11,116'. POOH and RD wireline equip. Prepare to pull tbg (it was determined that fill was in liner). POOH W/seal assy and PU 2 jts of 1" CS Hydril tbg to clean out string. Trip in well W/clean out string.
10/20/01	Cont to RIH to top of packer @ 11,116' and rig up pump to reverse circ. Clean out what appears to be gravel pack sand F/11,116' T/11,110' to shut in well. Stab 1" Hydril tbg back into top of packer @ 11,116' and run to 11,156'. No signs of fill. Reverse bottoms up with no signs of fill. PU Baker seal assy for wireline work and trip in well. Stab into packer @ 11,116' and test assy to 500 PSI (OK). RU wireline. Secure well & rig.
10/21/01	RIH W/chemical cutter to 11,131'. Could not go deeper. Need to make cut @ 11,146' & log past seal assy to confirm depth. RIH to 11,131' and stuck wireline assy. Fire 1 11/16" chemical cutter and free up stuck tools. POOH W/cutter and MU 1 5/8" sinker bar assy. RIH W/sinker bars to 11,156'(OK). POOH. MU 1 9/16" chemical cutter and run in well to 11,151' and make chemical cut. POOH and LD cutter. MU collar locator on bottom of sinker bars and RIH to confirm chemical cut @ 11,151' (OK). POOH and RD wireline equip. Work seal assy trying to stab back into top of packer could only get in 2'. POOH W/seal assy and LD. Found score marks 1' up and bottom of shoe slightly bent in. PU two 9/16" taper mill to dress top of packer.
10/22/01	RIH W/2 9/16" taper mill. Tag top of fish @ 11,051'. Chase fish to 11,100' and rotate to 11,116'. Clean out top of packer down to 11,121' W/taper mill. MU 2.641" spear and RIH to 11,119'. Work spear down to 11,121'. POOH W/spear. No recovery. MU 2.718" spear and RIH.
10/23/01	RIH W/2.718" spear. Work spear down inside top of packer @ 11,116' and latch onto fish. Work up hole dragging F/10,000 T/20,000 Lbs over-pull. Fish hanging up every few feet when jars went off and lost fish. Could not get back into fish and stay latched in. POOH and found spear to be in good condition. MU 1.091" nominal size spear to fish inside 2 3/8" cut off tbg below packer. RIH and latch onto 2 3/8" tbg. Work fish up hole 10' and stopped, jar on fish, able to work up and down 10'. Continue to jar fish, spear keeps coming out of fish. POOH.
10/24/01	Cont to POOH W/spear. Grapple missing from spear. Test BOPE, all rams, and valves to F/250 T/3000 PSI and annular F/250 T/2000 PSI. RIH W/packer retrieving tool. Worked retrieving tool into packer @ 11,116'. POOH W/packer. LD packer and retrieving tool. Packer parted below perf ext. leaving seal bore and lower ext. New top of fish at 11,125'.
10/25/01	Installed circ head. MU 2.718" grapple on spear and RIH to 11,125'. Latch onto fish and jar on fish. Spear came loose from fish. POOH W/grapple missing from spear.

Date	Description of Work
	LD fish tool. PU 4" X 3.250" X 4' wavy bottom mill shoe. RIH to 11,125'. PU power swivel and install rubber in PGSR. Mill over seal bore.
10/26/01	Cont to mill over fish. Mill total of 16". Circ bottoms up. POOH W/mill shoe. MU 2 7/8" host spear and RIH. Stabbed fish @ 11,125'. Jar on fish. Spear come loose from fish. POOH W/spear. Grapple missing. PU 4.188" concave mill and 3 junk baskets.
10/27/01	Cont RIH W/four 3/16" concave mill and three junk baskets. PU power swivel and mill on fish form 11,125' to 11.141'. Milled one hour not making any hole. Pump 20 Bbls Hi-Vis sweeps every 3'. Pump sweep at 11,141'. Clear top of liner. Pull to top of liner @ 10,260'. Circ Hi-Vis sweep around @ 10,260'. POOH W/mill.
10/28/01	Continue to POOH W/mill and junk baskets. Mill worn and one of the four shanks was cracked. Junk baskets full of cuttings. Emptied junk baskets and changed mill. RIH W/mill. PU power swivel W/1' of fill. Mill 2 3/8" tbg from 11,141' to 11,152'. Pump Hi-Vis sweep around at top of liner. POOH and LD mill. Clean junk baskets. PU 6 jts of 4" X 3.25" wash pipe W/wavy bottom mill shoe and three junk baskets.
10/29/01	RIH W/wash pipe down to 11,150'. Work junk baskets. When pump shut down, could not pick up. Restart pump and able to move pipe. Pump two Hi-Vis sweeps around & down tbg. Could PU W/no problems. Started reverse circ and worked over fish W/gravel pack sand and metal returns. Washed F/11,152' T/11,199'. POOH W/55 jts of 2 7/8" tbg. Tbg twisted off at bottom . PU 5 - ¾" overshot W/3 - 3/32" grapple. RIH and latch fish @ 1,720'. Jar on fish W/30,000 K and pulling up to 110 - 120K. String weight 60K. Jar fish up hole 2'.
10/30/01	Cont to jar fish and pull fish free. POOH and LD 1 jt tbg. Clean and LD junk basket. RIH W/wash pipe. PU power swivel. Washed over fish F/11,199' T/11,292' tubing measurement. Circ bottoms up. When tag bottom pressure would increase, PU and pressure would go down (possible packer). Pull up to top of liner (to test BOPE).
10/31/01	Remove PSGR stripping head and MU BOPE test assy. Test upper and lower pipe rams using 2 7/8" and 2 3/8" tbg F/250L T/3000H. Test Hydril F/250L T/2100H using water as per MMS reg's. All tested OK. RIH W/wash pipe to 11,287' and circ down to 11,292'. Circ well clean and had small amounts of sand returns. POOH and well started to flow back out of tbg. POOH W/Wash pipe and stand in derrick. MU overshot W/2 3'8" grapple, drill collars, BS jars, accell. Trip in well W/fishing assy.
11/1/01	Latch onto top of fish @ 11,152' and jar on snap latch assy @ 11,295'. Latch would not come loose. Well started to flow out csg. Attempt to back snap latch out of packer by turning tbg to right. Work torque down to snap latch but could not free up fish. Finally released overshot @ 11,152'. Well continues to flow intermittently out of csg. RU pump to kill well. Circ 450 Bbls of 11.4# CaCl down tbg to control well flow. POOH W/fishing tool assy and PU wash pipe running in well W/wash pipe to

Date	Description of Work
	check for fill around fish @ EOT.
11/2/01	Cont to trip well and tag top of fill @ 11,212'. Clean out frac sand F/11,212' T/11,260'. Broke and repaired swivel jt. Cont to clean out sand by reverse circ bottoms every connection. Clean out to 11,202'. Bring fluid weight up to 11.5# while circ well clean. Pull wash pipe to top of liner @ 10,262' and cont to weight up CaCl to 11.5#. Run wash pipe back in well and tag fill @ 11,277'. Circ well clean. Mix 25 Bbls Xanvis pill mixed W/25# sapp and 25# caustic soda and displace to bottom. POOH W/wash pipe.
11/3/01	Continue to POOH W/washpipe. MU 2 3/8" overshot on fishing tool assy and RIH. Engage top of fish @ 11,152' and start to jar on fish. Work bottom of fish @ 11,295' up hole to 11,157'. Stop, possible polished bore recepticle hung up on split top of 1 5/8" drill rod. Jar on fish trying to work over top of 1 5/8" drill rod stuck inside 2 3/8" wire wrap screen. 2 7/8" tbg parted @ 2263'. POOH and PU overshot to catch 2 7/8" collar. RIH and engage top of fish @ 2263' and release bottom overshot @ 11,002'. POOH W/all fishing tools
11/4/01	Measure and caliper reverse back off tools. PU reversing tools and LD. Replace 7 jts bent 2 3/8" tbg. Start to trip in well and well started to flow out of tbg. Pump CaCl down tbg to control flow. Continue to RIH W/reverse back off tool and engage fish @ 11,002'. Start to reverse out tbg. Reversed out tbg and start to POOH. Found top of bumper sub had unscrewed (left had threads on bumper sub). Redress reverse sub and well started to flow. Pump 11.4# CaCl down tbg. Stage in well while pumping down tbg and re-torque all tbg as being RIH to screw into top of bumper sub.
11/5/01	Continue to trip in well and circ in 11.5# CaCl water as needed. Run reverse tool to 10,990' and build and circ the well volume to 11.5# CaCl. There was 50 Bbls and oil returns while changing over. Engage top of bumper sub and using reverse tool screw into bumper sub. Make many attempts to unscrew fish W/reversing tool. Appears that polish bore assy is spinning on connection of 1 5/8" drill rod and will not back off. Order out wireline to shoot off fish. RU wireline and run in well W/sinker bars and collar locator.
11/6/01	Continue to RIH W/sinker bars and collar locator. Wireline tools stopped @ top of fish @ 11,002'. Could not work past top of fish and stuck wireline tools. Work wireline tools free. POOH and rig out wire line tools. Attempt back off W/reverse tool and achieved success. POOH and found that we had retrieved gravel pack screen, seal assy and two drill rods. LD fish. New top of drill rod @ 11,210'. Five jts of drill rod left in well. MU and run 4 jts wash pipe W/wavy bottom shoe, jars and drill collars. RIH and tag fill @ 11,205'. RU, pump and reverse circ out sand.
11/7/01	Continue to reverse out sand to top of packer @ 11.295'. Sand is entrapped in oil that is being circ as well as coming freely W/CaCl water. Well never completely cleaned up when decision was made to pull to liner top and make MMS regs BOPE

Date	Description of Work
	test. Strip off PGSR circ head. PU tbg hanger and blank plug. Land in tbg hanger. Fill BOPE stack with water. Test BOP stack F/250L T/3000H PSI using 2 7/8" and 2 3/8" tbg. Test Hydril F/250L T/2000H PSI. All tests (OK). Pull and LD tbg hanger and strip on PSGR. Circ to kill well. Well wants to flow up tbg. RIH & tag top of sand @ 11,200'. RU pump lines to reverse clean out sand F/11,200' T/11,245'.
11/8/01	Continue to clean out sand F/11'245' T/11,295' and mix 25 Bbls of high Vis pill consisting of 25# of Xanvis, 5 gal of safe Vis and mixed W/25 Bbls of CaCl. Displace 25 Bbls pill down tbg W/60 Bbls of CaCl. Pull tbg up to 11,100' and squeeze 6 Bbls of Xanvis pill into perforations F/11,255' T/11,295' @ a rate of .87 Bbls per min and 2000 PSI. Let bleed into formation F/2000 PSI T/300 PSI in 20 min. Bleed off remaining 300 PSI. Returned $\frac{1}{2}$ Bbl from formation. POOH W/wash pipe and stand back in derrick. MU new bottom hole assy W/1-3/4" grapple, jars, bumper sub, accelerator and 4 drill collars. Trip in well W/1-3/4" grapple and engage fish @ 11,220'. Jar on fish. No movement at EOT.
11/9/01	Continue to jar on 1-5/8" drill rod pulling up to 110,000# on tbg. Decision made to release overshot and pull tbg. POOH W/over shot, LD fishing tools. PU reversing tools and over shot with grapple. RIH and engage top of fish @ 11,220'. Reverse out fish. POOH and retrieve 1 jt of drill rod 32' long. New top of fish @ 11,252'. Redress reversing tool.
11/10/01	MU mule shoe. RIH and tag down tbg measurement @ 11,257'. PU power swivel. Circ over fish and clean out to 11,298'. Circ clean and recover frac sand. Raised mud wt. Wash over drill rod to 11,341' tbg measurement. Recover frac sand. This is bottom of packer ext. Circ clean. Finish raising wt to 12 PPG. Mix 25 Bbls polymer pill. Spot over fish. POOH T/11,120'. Squeeze away 20 Bbls @ 2000 PSI. When stop pumping pressure drops to 1800 PSI. Bled to 0 in 3 hours. Takes 8 Bbls to fill hole. Pull 10 stds and RIH to top of fish. Work over fish and tag fill @ 11,329' tbg measurement (12' fill). RU power swivel and clean out T/11,341'. Reverse circ hole clean.
11/11/01	Reverse hole clean. Spot 20 Bbls polymer pill on bottom. POOH to top of liner. LD power swivel. POOH & LD W/2 3/8" wash jt. MU over shot 1 $\frac{1}{4}$" grapple W/4 1/8" cut lip shoe on reversing tool. RIH. Note: 2 7/8" tbg was made up W/1500 PSI. Should have been made up at 2000 PSI. 2000 PSI is what tbg was made up on previous trips.
11/12/01	RIH and work over the top of the fish @ 11,260' tbg measurement. RIH T/11,341' tbg measurement. No fill. RU power swivel. Circ spot 20 Bbl polymer pill on bottom. POOH and RD power swivel. LD one jt of 2 3/8" cut off wash down jt. PU reversing tool and RIH to 11,260'. RU power swivel and work over fish. Had to turn right and work to latch onto fish. Pull 20 stds. POOH but did not have fish. Break down fishing tool. Check grapple. Had small piece of metal stuck in mill control. Clean up over shot.

Date	Description of Work
11/13/01	Dress over shot. PU & RIH reversing tool T/11,260'. RU power swivel & work over fish. Turn and work mill control on to fish. POOH and recovered 2 jts drill rod 58.85'. LD fish and reversing tool. MU 2.50 junk concave mill. RIH and tag @ 11,318.85'. This is 5' high by the fish we pulled. RU power swivel. Mill to 11,321' and start to TQ & hang up. Circ up some frac, sand and fine metal. Circ and mix Hi-Vis polymer sweep. Try to mill lost hole @ 11,318'. By numbers we should be in packer ext.
11/14/01	LD power swivel. POOH W/2 ½" mill. Measure tbg out of well. Remove PGSR and found mill rounded off on top and bottom. RU equip for BOPE test. Run in test plug and could not get to seat and test. After repeated attempts found old tbg hanger "O" ring in hanger seat. Retrieve W/test plug. Test BOPE to MMS specs. MU 4 1/8" concave mill and RIH.
11/15/01	With 2 1/8" mill tag top of fish @ 11,302'. PU power swivel and mill down 3" in 30 minutes. Reverse well clean. Small amounts of metal returns. Mix up 20 Bbls high Vis Polymer pill and displace down tbg to 11,000'. Pull up out of pill. POOH W/4 1/8" concave mill and found wear pattern on mill. Consistent W/top of 1 ¾" drill rod. MU 4 1/8" mill on 2 drill collars W/jars and RIH. Tag top of drill rod @ 11,302'. PU power swivel. Mill on drill rod F/11,302' T/11,304'. When mill started to torque up. Took 2 hours to mill 2'. Acted like mill is on top of packer. PU and reverse well clean. Lots of metal returns. LD power swivel and start to POOH W/mill.
11/16/01	POOH W/4 1/8" mill and found mill was milling on drill rod above packer @ 11,304'. Break out safety joint from reversing assy and send to yard for possible back off extension (not re-usable). MU wash pipe. RIH and tag top of packer @ 11,304'. Rotate lightly on top of packer and reverse circ. Did not make any hole and returns were clean. Trip out of well W/wash pipe. Handle BHA assy and PU 2 3/8" pipe W/mule shoe. Trip in well W/mule shoe joint @ EOT.
11/17/01	Continue to RIH W/mule shoe joint and tag top of drill rod @ 11,304'. PU power swivel and prepare to reverse circ drill down from 11,304' to 11,307' and mule shoe quit going. Could not make any more hole. Change out PGSR circulating rubber. LD power swivel and prepare to POOH. POOH W/mule shoe joint and found 2 pieces of broken drill rod and end of mule shoe worn down. Measure and PU new joint of 2 3/8" tbg W/bottom of joint cut and made into wavy bottom mill W/tungsten carbide applied to bottom. Trip into well W/new wash over joint. PU power swivel and RU to reverse circ. Tag top of fish @ 11,306'. Drill down to 11,308'. Could not make any more hole and pump pressure increased to 1200 PSI. LD power swivel and prepare to POOH. POOH W/wash over joint.
11/18/01	POOH W/wash over joint and found end coned in on bottom. Decision made to run wireline impression block. Order out wireline unit. RU wireline unit and MU 4.250" impression block. RIH to 11,275' wireline measurement and set down to make impression. POOH and found IB had not taken a picture. MU 3 1/8" impression block

Date	Description of Work
	and RIH and set down @ 11,290'. POOH W/IB and found very slight impression along edge. Could not identify anything positive. MU 2 ¼" impression block and RIH and set down @ 11,292'. POOH and found slight imprint along edge. Could not identify anything positive. MU 2.5" stabilized mill and RIH and PU power swivel.
11/19/01	Tag top of fish @ 11,307' and mill down to 11,309'. Mill stopped. Getting small amount of metal returns. Pump pressured up to 2000 PSI. LD power swivel and POOH W/2.50" stabilized mill. Found indications on mill and stabilizer that we were inside packer milling on drill rod. Also found inside second jt of 2 3/8" tbg from bottom, 2 pieces of drill rod, one piece 11" long and the other piece 12" long. The pieces were milled in half. PU 2 3/8" jt of tbg W/mule shoe cut on bottom and RIH drifting 2 3/8" tbg. Nothing else was found in tbg. PU power swivel and start reverse circulation, engage top of fish @ 11,309' and drill down W/2 3/8" mule shoe to 11,323'. Stopped and could not make any more progress. Mix high Vis pill. Displace 10 Bbls high Vis pill to bottom W/60 Bbls fluid. LD power swivel and prepare to POOH. POOH W/mule shoe jt.
11/20/01	Continue to POOH W/wash over jt. Found jt to be 1.55" shorter than when ran. Decision was made to pick up and run reversing tool W/1 5/8" grapple. Pull on fish up to 100,000# and set grapple. Make many attempts to reverse out drill rod @ various weights. Grapple deeps slipping off. Could not get drill rod to back off. POOH and LD 2 3/8" tbg and fishing tool assy. RIH W/drill collars and wash pipe that was standing in derrick and pull and LD.
11/21/01	Break down fishing tools. MU packer assy and RIH W/production string. Land hanger and RU wire line. Make gauge run to 10,130'. RIH W/XX-plug. Attempt to set plug @ 10,116'. Set 7" packer @ 10,114' W/2500 PSI & test backside W/1000 PSI (OK). Bleed off SSV & install back pressure valve.
11/22/01	ND BOPE. Install production tree. Test bonnet to 3000 PSI. Clean well bay. Secure BOPE equip on the drill deck. RDMO.

RE-DRILL SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

REPORT DATE : 3/11/01 MD : 0 TVD : _____ DAYS : 0 MW : 12.0 VISC : 47

DAILY DETAILS : START OPERATIONS ON REDRILL OF S-44 AT 6:00 AM 3/10/01. HELD SAFETY MEETING. INSTALL BACK PRESS VALVE. NIPPLE DOWN PRODUCTION TREE. PUT PLUGS IN TBG HANGER, INSTALL RISER, NIPPLE UP BOPS, INSTALL DIVERTER. CHANGE OUT 2 7/8" RAMS TO 5" RAMS. FUNTION TEST BOPS. HELD SAFETY MEETING. FILL STACK, FIX FLOW LINE VALVES AND FLOW LINE LEAKS. RIG UP DOWELL TO TEST BOPS. TEST BOPS, 250 LOW 5000 HIGH.

REPORT DATE : 3/12/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 33

DAILY DETAILS : TEST BOPS/DIVERTER. RIG DOWN TESTERS, MAKE UP LANDING JOINT. BLEED DOWN CASING PRESS F/ 250 T/ 30 PSI. SHUT HYDRILL WITH 500 PSI, BACK OUT TIE DOWN PINS. WORK TBG HANGER SSSV& PACKER UP HOLE 25'. MONITOR WELL, NO CHANGE. CIRC WELL ON CHOKE WITH 100 PSI BACK PRESS 2 BBLS A MIN OVER RUN PRODUCTION SLOW DOWN TO A BBL PER MIN UNTIL SALTWATER COMING BACK. MONITOR WELL. CIRC WELL ON CHOKE DISPLACE WITH 9.5 MUD. MONITOR WELL. PULL TBG HANGER TO RIG FLOOR.

REPORT DATE : 3/13/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 52

DAILY DETAILS : PULLING TBG HANGER TO RIG FLOOR. TBG PARTED. RIG INSPECTION LOST 40000 IN WT CONTINUE TO PULL TO RIG FLOOR, LAY DOWN TBG HANGER, TRIP OUT TO SSSV, LAY DOWN, TRIP OUT WITH TBG, RECOVERED 108 JOINTS 3400'. WAIT ON FISHING TOOLS, CLEAN UP RIG, MIX MUD. MAKE UP OVERSHOT SPIDER IN HOLE LAY DOWN BAD TBG, PICK UP TBG, TAG TOP OF FISH 3485'. WORK OVER FISH, ENGAGE, WORK FISH UP AND DOWN TO 150000. WAIT ON WIRELINE UNIT. UNLOAD TOOLS, RIG UP WIRELINE. MAKE UP TOOLS, RUN IN WITH SINKER BARS TO SEE HOW FAR WE CAN GO.

REPORT DATE : 3/14/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.6 VISC : 54

DAILY DETAILS : RIH WITH 1 5/8" SINKER BARS (27' LONG), BARS STOPPED AT 5404'. POOH AND REMOVED 15' OF SINKER BARS. RIH WITH 12' OF 1 5/8" SINKER BARS. BARS STOPPED AT 5393'. POOH. L/D 1 5/8" AND P/U 22' OF 1" SINKER BARS. RIH AND BARS STOPPED AT 5372'. POOH. L/D SINKER BARS. RIH WITH 100 GRAIN STRING SHOT TO 5356'. PULLED UP TO 5324'. UNABLE TO PUT LEFT HAND TORQUE IN TUBING. PUT 10 TURNS IN AND GOT 1/2 TURN BACK. FIRED STRING SHOT TO JAR SCALE OFF OF TUBING. POOH. RIH WITH 1 7/8" CHEMICAL CUTTER. WORKED DOWN TO 4900'. PULLED UP TO 4876'. FIRED CHEMICAL CUTTER. POOH WITH WIRELINE. CHEMICAL CUTTER DID NOT CUT TUBING. P/U PUMP, LAY DOWN CIRCULATING HEAD AND CIRCULATED THROUGH OVERSHOT. WORKED PIPE IN AN ATTEMPT TO BREAK TUBING AT CUT. NO GOOD. TRIED TO RELEASE OVERSHOT FROM FISH. UNABLE TO GET TORQUE TO OVERSHOT. R/U WIRELINE. RIH WITH 1.58" JET CUT TOOL TO 7516'. POOH. RIH WITH FREE POINT TOOL TO 3560'. TOOL STOP WORKING. POOH. CHECKING OUT FREE POINT.

REPORT DATE : 3/15/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 46

DAILY DETAILS : RIH WITH FREE POINT. TOOK 15 SETTING. PARTIALLY STUCK FROM 7484' TO 6650'. FREE AT 6600'. TORQUE READING SHOWED PIPE ROTATING. POOH WITH FREE POINT. RIH WITH 1.58" JET CUTTING TOOL. CUT TUBING AT 4908' (WIRELINE MEASUREMENT). POOH. WORKED TUBING APART AT JET CUT. R/D WIRELINE. POOH WITH FISH. RELEASED OVERSHOT. RECOVERED AND LAID DOWN 45 JTS OF 2 7/8" TUBING (1413.36'). NEW TOP OF FISH AT 4897' (D. P. MEASUREMENT). BROKE OUT AND LAID DOWN KELLY, KELLY SPINNER, UPPER KELLY VALVE, KELLY BUSHING AND SWIVEL. P/U FISHING TOOL R/U AND PICKED UP 5" D.P. WORKED ON 5" PIPE SPINNER. CONTINUE PICKING UP 5" DRILL PIPE.

REPORT DATE : 3/16/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 46

DAILY DETAILS : CONTINUE PICKING UP 5" DRILL PIPE. MADE UP 3 1/2" SWIVEL/CIRCULATING HEAD ON 3 1/2" DRILL PIPE AND LAID DOWN. MILL OVER AND ENGAGED TOP OF FISH AT 4897'. P/U CIRCULATING HEAD AND CIRCULATED BOTTOM UP. JARRED ON FISH. SECURED WELL FOR ELECTRICIAN TO CHANGE BREAKER IN SCR HOUSE. R/U WIRELINE AND RAN 1.875" GAGE. STOPPED AT 7400". POOH. RIH WITH 1.58" JET CUTTER AND CUT TUBING AT 6611'. POOH JARRED FISH LOOSE. RIGGED WIRELINE DOWN. SECURED WELL. RIGGING UP TOP DRIVE.

REPORT DATE : 3/17/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 47

DAILY DETAILS : RIGGING UP TOP DRIVE AND ASSOCIATED EQUIPMENT.

REPORT DATE : 3/18/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 45

DAILY DETAILS : CONTINUE RIGGING UP TOP DRIVE. CIRCULATED BOTTOM UP. POOH WITH FISH. DID NOT HAVE FISH. OVERSHOT PARTED AT EXTENSION. M/U OVERSHOT WITH 2 7/8" GRAPPLE. RIH WITH OVERSHOT AND LATCHED ONTO FISH AT 4897'. JARRED ON FISH. PULLED TUBING LOOSE. HAD 23,000# OVER PULL OF TOTAL FISH WEIGHT. OVER PULL DECREASED AS PIPE WAS PULLED. PULLED UP TO 8900'. (T.O.L. AT 8909'). CIRCULATED BOTTOM UP AT 8900'. CONTINUE POOH WITH FISH. RELEASED OVER SHOTS AND L/D FISHING TOOLS. CHANGED ELEVATORS AND BAILS. POOH, LAYING DOWN 2 7/8" TUBING.

REPORT DATE : 3/19/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 45

DAILY DETAILS : CHANGED OUT TUBING TONGS. CONTINUE L/D 2 7/8" TUBING. RECOVERED 54 JTS, 1705' OF FISH. NEW TOP OF FISH AT 6602'. CUT OFF JOINT CALIPERED 2.875". M/U 7 1/4" GUIDE WITH 2 7/8" GRAPPLE. RIH TO 4899'. P/U 5" DRILL PIPE. WORKED OVER FISH AT 6602'. 5K DRAG F/ 6592' T/ 6602'. JARRED ON FISH 1/2 HOUR, 40,000# OVER PULL. OVER SHOT SLIPPING OFF FISH. POOH TO CHANGE GRAPPLE. CHANGED OUT 2 7/8" GRAPPLE AND ADDED 2' EXTENSION TO OVERSHOT. RIH WITH 7 1/4" GUIDE ON OVERSHOT WITH 2 7/8" GRAPPLE. REPLACED BROKEN AIR LINE ON DRAWWORKS. CONTINUE RIH WITH OVERSHOT. WORKED OVER FISH AT 6602'. 5K DRAG F/ 6592' TO 6602'. JARRED ON FISH WITH 80,000# OVER PULL. OVERSHOT STARTED SLIPPING OFF FISH. POOH TO CHANGE GRAPPLE.

REPORT DATE : 3/20/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 47

DAILY DETAILS : CONTINUE POOH WITH OVERSHOT. CHANGED GRAPPLE AND ADDED EXTENSION TO REACH TUBING COLLAR. RIH TO 3148'. SECURED WELL. ELECTRICIAN CHANGED CIRCUIT BREAKER TO TOP DRIVE. CONTINUE RIH TO 6602'. 5K DRAG F/ 6592' T/ 6602'. BROKE CIRC ABOVE TOP OF FISH AT 6602'. WHEN SLID OVER FISH, PUMP PRESSURE INCREASED TO 3000 PSI. SHUT PUMP OFF AND PRESSURE STAYED AT 3000 PSI. BLED OFF. WORKED OVER AND LATCHED TUBING COLLAR. JARRED ON FISH. SET JARS OFF 100K OVER FISHING STRING WEIGHT. PULLED 100K AGAINST FISH. RIGGED UP WIRELINE. RIH WITH 1 7/8" SINKER BARS. TOOLS SAT DOWN AT 6543'. WORKED WIRELINE WITH 90,000 STRING WEIGHT. UNABLE TO PASS 6543'. PULLED UP TO 200,000 STRING WEIGHT. TOOL STOPS AT 6500'. UNABLE TO WORK THROUGH. POOH WITH WIRELINE.

REPORT DATE : 3/21/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : RIGGED DOWN WIRELINE EQUIPMENT. CIRCULATED HOLE CLEAN AT 6600'. LOTS OF SAND RETURN. POOH WITH OVERSHOT AND L/D FISHING TOOLS. P/U 8 1/2" BIT. RIH TO 6600'. NO DRAG. RABBIT DRILL PIPE. CIRCULATED BTM UP. INCREASED MUD WT TO 10.2 PPG. POOH WITH BIT. RIGGED UP AND PICKED UP 2 3/8" FLUSH JT TUBING.

REPORT DATE : 3/22/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 46

DAILY DETAILS : RIH WITH 2 3/8" FLUSH JT TUBING ON 5" DRILL PIPE. TORCH SAFETY DEPARTMENT HAD DRUG CHECK. CONTINUE RIH TO 6602' (TOP OF FISH). WORKED 2 3/8" TUBING PASS 2 7/8" TUBING. CLEANED SAND OUT FROM 6602' TO 6861'. CIRCULATED HOLE CLEAN. LOTS OF SAND. CLEANED OUT SAND FROM 6861' TO 8706'.

REPORT DATE : 3/23/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.5 VISC : 42

DAILY DETAILS : CONTINUE CLEANING OUT SAND FROM 8706' TO 8909' (TOP OF LINER). CIRCULATED HI-VIS SWEEP AROUND AT 8909'. WORKED 2 3/8" CS HYD TUBING INTO ANNULUS OF 7 5/8" CSG X 2 7/8" TBG. POOH TO 6830'. WAIT ON FILL. RIH TO 8909'. NO FILL. MIXED AND PUMPED HI-VIS AROUND. POOH TO 2 3/8", CLEAN OUT STRING. TUBING WAS BENT. POOH LAYING DOWN CLEAN OUT STRING. 10 JTS WERE BENT. R/U AND P/U 7" GUIDE SHOE WITH 2 7/8" EXTERNAL CUTTER ASSEMBLY AND 15 JTS OF 5 3/4" X 5" WASHPIPE (466.01'). RUNNING IN HOLE WITH WASHPIPE. NEXT B.O.P.E. TEST BEFORE 3/25/01.

REPORT DATE : 3/24/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 52

DAILY DETAILS : CONTINUE RIH WITH 2 7/8" EXTERNAL TUBING CUTTERS ON 5 3/4" WASHPIPE TO 6602'. WORKED CUTTER OVER FISH AND CUT TUBING AT 7036'. POOH TO TOP OF WASHPIPE. RIGGED UP 2 7/8" HANDLING TOOLS AND LAID DOWN 426' OF 2 7/8" FISH. NEW TOP OF FISH AT 7036'. POOH WITH WASHPIPE. RIGGED UP AND TEST BOPE. TEST ALL RAMS AND VALVES TO 250/5000 PSI AND ANNULAR PREVENTER TO 250/3500 PSI. WORKED ON REMOTE FOR LOWER PIPE RAM. WORKING ON HCR VALVE AT 0600.

REPORT DATE : 3/25/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 51

DAILY DETAILS : CONTINUE WORKING ON HCR VALVE. CHANGED VALVE STEM AND SEAT. TEST HCR VALVE TO 250/5000 PSI, GOOD. INSTALL WEAR BUSHING IN WELLHEAD. P/U 30 JTS OF 5" DRILL PIPE AND STOOD BACK IN DERRICK. P/U 5 3/4" WASHPIPE WITH 2 7/8" EXTERNAL CUTTER AND RIH TO 7036'. WORKED CUTTER OVER FISH TO 7478'. MADE FOUR ATTEMPS TO CUT FISH. POOH WITH WASHPIPE AND CUTTER.

REPORT DATE : 3/26/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 49

DAILY DETAILS : CONTINUE POOH WITH WASHPIPE. NO FISH. STOOD WASH PIPE BACK IN DERRICK. ADJUST BRAKES. CHANGED JARS. M/U OVERSHOT WITH 2 7/8" GRAPPLE. RIH. S.L.M. 10' DIFFERENCE. ADJUSTED DEPTH. NEW TOP OF FISH AT 7026'. BROKE CIRC TOP OF FISH. WORKED OVER TOP OF FISH. JARRED FISH LOOSE. POOH WITH FISH. PULLING WET. LAID DOWN FISH. RECOVERED 442.26'. NEW TOP OF FISH AT 7468'. RIH WITH 466' OF 5 3/4" WASHPIPE.

REPORT DATE : 3/27/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 51

DAILY DETAILS : CONTINUE RIH WITH WASHPIPE TO 7468'. WORKED WASHPIPE OVER FISH TO 7909'. CUT FISH AT 7909'. WORKED FISH LOOSE WITH CUTTERS. POOH WITH FISH. RIGGED UP 2 7/8" HANDLING TOOL AND LAID DOWN 441.09' OF FISH. NEW TOP OF FISH AT 7909'. SMALL AMOUNT OF GAS TRAPPED IN SAND WHILE BREAKING OUT TUBING. POOH WITH WASHPIPE AND LAID DOWN CUTTER. M/U SAWTOOTH ON WASHPIPE. P/U 7 MORE JTS OF WASHPIPE, TOTAL 665'. P/U 15 JTS OF 5" D.P. AND STOOD IN DERRICK. RIH WITH WASHPIPE WITH SAWTOOTH TO 7909'. CIRC AT 7909'. WASHED OVER FISH TO 8500'. LOT OF SAND RETURNS.

REPORT DATE : 3/28/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.3 VISC : 49

DAILY DETAILS : WASH OVER TBG 8563'. CIRC & COND MUD. TRIP OUT LAY DOWN JARS. DRESS OVERSHOT, MAKE UP FISHING TOOLS. SLIP & CUT DRLG LINE. TRIP IN TO 7909', TOP OF FISH. WORK OVER FISH TO 8469' ATTEMPT TO CUT, FAILED. TRIP OUT LAY DOWN TOOLS. BREAK DOWN TOOLS. MAKE UP OVERSHOT BUMPER SUB. TRIP IN.

REPORT DATE : 3/29/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.3 VISC : 49

DAILY DETAILS : TRIP IN WITH FISHING TOOLS. JAR ON FISH. TRIP OUT, NO FISH. DRESS OVERSHOT, TRIP IN. JAR ON FISH, TRY BACK OFF, NEG. TRIP OUT, RECOVERED 5' OF FISH. LAY DOWN FISHING TOOLS. MAKE UP 9 5/8" SCRAPER & BIT, TRIP IN, SERVICE & RE-TORQUING ALL CONN.

REPORT DATE : 3/30/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.3 VISC : 47

DAILY DETAILS : TRIP IN, SERVICE ALL CONN WITH SCRAPER. TAG FISH, CIRC BOTTOMS UP. TRIP OUT. TEST CASING, PUMPED 28 BBLS, 650 PSI SHUT DOWN PRESS, FELL FROM 650 TO 300 IN 10 MINS. TRIP OUT. MAKE UP MILL, TRIP IN. AT 5606' HIT TIGHT SPOT. MILL GOT THROUGH. JARED 90000 OVER STRING WT TO GET MILL BACK OUT. TRIP OUT TO INSPECT TOOLS. ALL TOOLS OK. BREAK DOWN ALL TOOLS. WAIT ON WIRELINE. WORK ON RIG.

REPORT DATE : 3/31/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.1 VISC : 48

DAILY DETAILS : CLEAN UP RIG. WAIT ON WIRELINE. RIG UP WIRELINE. RUN IN WITH 9 5/8" CALIPER TOOL TO 7800'. LOG OUT, BAD RUN, RE-RUN LOG. FOUND BAD SPOT FROM 5602' TO 5612'. RIG DOWN WIRELINE. WAIT ON WASHPIPE, RERUN WIRELINE LOG FROM 4875' TO 3890'. RIG DOWN WIRELINE. UNLOAD CREW BOAT. MAKE UP WASHPIPE BUMPER SUB & JARS. SERVICE RIG. TRIP IN WITH 8 1/8 WASHPIPE. GAGE RUN. TAG BAD SPOT. ATTEMPT TO WORK WASHPIPE THROUGH WITH 25000 DOWN NEG. TRIP OUT WITH PIPE. MAKE UP PACKER AND BUMPER SUB. TRIP IN.

REPORT DATE : 4/1/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : TRIP IN WITH PACKER TO 5645' SLOW ,FILL EVERY FIVE STANDS. PRESS UP ON PACKER SLOW TO 2250 PSI, DO LEAK OFF TEST, 1/4 BBL MIN 300 PSI BROKE BACK TO 250, SHUT DOWN, PUMP PRESS FELL TO 210, STABILIZE THERE, LEAK OFF WOULD BE 11.1+ UNSET PACKER LET RELAX 30 MINS. SERVICE RIG. TRIP OUT FOR CASING TEST, LAY DOWN PACKER. MAKE UP NEW PACKER, TRIP IN TO 5550', SET PACKER. DAYLIGHT SAVING TIME. TEST CASING TO 1000 PSI. TRIP OUT WITH PACKER, LAY DOWN. MAKE UP 8 3/8 SWEDGE BUMBER SUB JARS & 7" DC.

REPORT DATE : 4/2/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 45

DAILY DETAILS : TRIP IN WITH 8 3/8 SWEDGE. SERVICE RIG. TRIP IN TO 5600'. WORK SWEDGE IN & OUT OF BAD SPOT, 5 TO 10000 DRAG. TRIP OUT, LAY DOWN 8 3/8 SWEDGE, PICK UP 8 1/2 SWEDGE. TRIP IN WITH 8 1/2 SWEDGE. WORK SWEDGE 25K DOWN, 35K UP, RUN DC DOWN PASS 5600'. CIRC & COND MUD. TRIP OUT. LAY DOWN TOOLS. SERVICE RIG. MAKE UP 8 1/8 WASH PIPE, TRIP IN.

REPORT DATE : 4/3/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : TRY WORKING 8 1/8 WASH PIPE DOWN NEG 40K UP 25K DOWN. TRIP OUT. MAKE UP SHORT SHOE, TRIP IN. SLIP & CUT DRILL LINE. TRIP IN. WORK THRU TIGHT SPOT 35K UP 25K DOWN. TRIP IN TO 7890'. CIRC, SERVICE RIG. TRIP OUT 30K OVER AT 5600', LAY DOWN WASH PIPE. CLEAN ON RIG, SERVICE RIG. MAKE MILL ASSEMBLY. TRIP IN.

REPORT DATE : 4/4/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : MILLING AT 5600'. TRIP IN TO 7900'. SERVICE RIG. TRIP OUT, LAY DOWN MILLS. MAKE UP WASH PIPE, TRIP IN. ATTEMPT TO WORK THRU BAD SPOT, 15' INTO IT 38K PUSHING DOWN, 50K COMING UP. TRIP OUT, LAY DOWN MILLS. SERVICE RIG. MAKE UP MILLS, TRIP IN TO 5600'. MILL.

REPORT DATE : 4/5/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : MILL BAD SPOT. EQUIPMENT FAILURE, TOP DRIVE DOWN. CON'T TO MILL BAD SPOT FROM 5600' TO 5630'. TRIP OUT, LAY DOWN MILLS. SERVICE RIG. MAKE UP BHA. TRIP IN TO 5600', WORK THRU BAD SPOT 10K DOWN TRIP TO BOTTOM.

REPORT DATE : 4/6/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : REVERSE CIRC BOTTOMS UP 40 SKS, LOST 14 BBLS. CIRC BOTTOMS UP LONG WAY. TRIP OUT SLOW THRU BAD SPOT AT 5600'. 15K DRAG. TRIP OUT. LAY DOWN WASH PIPE AND TOOLS. SERVICE RIG. MAKE UP CEMENT RETAINER. TRIP IN TO 7885'. SET RETAINER AT 7885'. STING OUT & BACK IN. SET DOWN 25K . RIG UP DOWELL. HELD SAFETY MEETING. PRESS TEST LINES TO 3000 PSI. START INJECTION RATE. PUMPED 1 1/2 BBLS 2500 PSI. BLEED BACK 1 1/2 BBLS. NOTE: CONVERSATION WITH BRENT MARTIN & RISHI TYAGI OF MMS, AGREE TO LAY AT LEAST A 100' CEMENT PLUG ABOVE RETAINER. START CEMENT JOB. PUMP 10 WATER, 13 BBS CEMENT, 5 WATER, 125 MUD SLACK OFF 3'. REMOVE CEMENT LINES. PULL 3 STANDS. TRY TO REVERSE CIRC. NEG. PUMPED AWAY 20 BBLS. MAKE UP TOP DRIVE. PUMP DOWN DRILL STRING. NEG. 3500 PSI. TRIP OUT WITH PLUG. DRILL PIPE LAST 9 STANDS. CEMENTED UP.

REPORT DATE : 4/7/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 54

DAILY DETAILS : LAY DOWN RETAINER, CLEAN FLOOR. PICK UP 23 JOINTS, TRIP IN 10 STANDS, CIRC, TRIP IN, TAG CEMENT AT 7855'. CIRC. LAY DOWN 2 JOINTS, RIG UP DOWELL, HELD SAFETY MEETING, PRESS TEST TO 2000 PSI, PUMP 10 BBLS OF WATER, 13 CEMENT DISPLACE WITH 3 WATER & 129 BBLS OF MUD. PULL 3 STANDS, REVERSE CIRC 2000 STROKES. TRIP OUT OF HOLE. MAKE UP PACKER, TRIP IN TO 5398'. SET PACKER, OPEN & CLOSE OPEN BYPASS. RIG UP DOWELL. HELD SAFETY MEETING. TEST LINES TO 3000 PSI, PUMP 10 WATER, 10 CEMENT, DISPLACE WITH 10 WATER,75 MUD. SHUT DOWN, CLOSE BYPASS, PACKER WAS UNSET, TRY TO RE-SET, NEG. SHUT RAMS, CONTINUE ON WITHOUT PACKER, DISPLACE WITH TOTAL OF 102 WITH DOWELL 5 BBLS DOWN CASING WITH RIG PUMP, HOLD PRESS 30 MINS, BLEED DOWN PRESS. PULL 5 STANDS.

REPORT DATE : 4/8/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.1 VISC : 58

DAILY DETAILS : CIRC BOTTOMS UP. TRIP OUT, LAY DOWN TOOLS. LAY DOWN BAD DRILL PIPE, WASH PIPE & TBG. MAKE UP BIT, TRIP IN, TAG CEMENT AT 5437'. DRLG CEMENT FROM 5437' TO 5625'. CIRC & COND. TRIP IN, TAG CEMENT AT 7720'. DRLG CEMENT FROM 7720' TO 7785'. CIRC & COND MUD. TRIP OUT FOR BOP TEST.

REPORT DATE : 4/9/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.1 VISC : 40

DAILY DETAILS : PULL WEAR BUSHING, INSTALL TEST PLUG, RIG UP DOWELL. DO LEAK OFF TEST, PRESS TEST TO 370 PSI, LEAKED OFF TO 325 PSI IN 10 MINS. TEST BOPS/DIVERTER 250 LOW, 5000 HIGH, RIG DOWN DOWELL, PULL TEST PLUG, INSTALL WEAR BUSHING. PICK UP 10 JOINTS OF TBG, TRIP IN TO 1400'. EQUIPMENT FAILURE, SHIFTING RING ON THE OVER RUNNING CLUTCH CAME APART LETTING THE ELECTRIC BRAKE KICK OUT. CONTINUE TO TRIP IN TO 5614'. CIRC & COND MUD. RIG UP DOWELL. HELD SAFETY MEETING. MIX & PUMP 100 SKS OF CEMENT ACROSS BAD CASING FROM 5614' TO 5324'. RIG DOWN DOWELL, PULL 7 STANDS, SQUEEZE 16 BBLS DOWN CASING, 1 BBL A MIN 700 PSI, SHUT DOWN WITH 1500 PSI, 5 BBLS IN CASING, SHUT IN. WAIT ON CEMENT.

REPORT DATE : 4/10/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.1 VISC : 47

DAILY DETAILS : WAIT ON CEMENT. RELEASE PRESS 875 PSI, CIRC & COND MUD. TRIP OUT, LAY DOWN TBG. MAKE UP BIT, RUN IN HWDP, PICK UP 2000' OF 5" PIPE. SLIP & CUT DRILL LINE. TRIP IN, TAG STRINGERS AT 5220', CLEAN OUT CEMENT STRINGERS TO 5500', DRILL CEMENT FROM 5500' TO 5650', RUN IN TO 5920'. CIRC BOTTOMS UP. TRIP OUT TO PICK UP MILLS.

REPORT DATE : 4/11/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.2 VISC : 48

DAILY DETAILS : CONTINUE POOH. PICKED UP TAPERED MILL AND TWO WATERMELON MILLS. RIH. TEST CASING WITH 10.2 PPG AND 466 PSI. EMW 11.8 PPG. CONTINUE RIH TO 5600'. REAM BAD SPOT FROM 5606' TO 5614'. CHECK DRAG. 10K DOWN AND 15K UP. RETEST CASING WITH 10.2 PPG AND 470 PSI. EMW 11.8 PPG. POOH WITH MILLS. PICKED UP BHA FOR FEELER RUN. RIH. WORKED THROUGH TIGHT SPOT F/ 5606' TO 5675'. 15K DOWN 20K UP. RIH TO 7779'. 6' OF FILL. POOH ABOVE BAD SPOT AT 06:00.

REPORT DATE : 4/12/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.1 VISC : 52

DAILY DETAILS : PULLED UP TO 4665'. BROKE CIRC. REMOVED DRAWWORK GUARDS. DREYCO BALANCED DRAWWORK DRUM. INSTALLED GUARD. SLIPPED 150' OF DRILL LINE. LOWERED BLOCK TO FLOOR. UNSTRINGING BLOCK.

REPORT DATE : 4/13/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.1 VISC : 50

DAILY DETAILS : CONTINUE UNSTRINGING OLD BLOCK. STRUNG UP NEW BLOCK. PICKED UP BLOCK AND PINNED TO SWIVEL. UNPINNED TOP DRIVE. HUNG OFF BLOCK AND REMOVED EXCESS DRILL LINE FROM DRUM. BROKE CIRCULATION. PUMPED DRY JOB. POOH. L/D WASHPIPE. RIH WITH 8 1/2" BIT AND MECHANICAL COLLAR LOCATOR TO 7779'. WORKED COLLAR LOCATOR. DID NOT SEE CASING COLLAR. CLEANED OUT FILL FROM 7779' TO 7785'. CIRCULATED HOLE CLEAN AT 7785'. PULLED UP TO 5600'.

REPORT DATE : 4/14/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.2 VISC : 48

DAILY DETAILS : CONTINUE POOH TO 5600'. PRESSURE TEST CASING AT 5600'. 10.1 PPG AND 585 PSI. EMW 12.6 PPG. GOOD. POOH. L/D COLLAR LOCATOR AND BIT. SERVICE RIG. WAIT ON WIRELINE UNIT. R/U WIRE LINE UNIT. RAN COLLAR LOCATOR. TOP OF CEMENT AT 7792' W/L MEASUREMENT. 7' DIFFERENCE BETWEEN W/L AND D.P. MEASUREMENT. FIRST COLLAR IS 30' ABOVE TOP OF CEMENT. POOH AND R/D WIRELINE UNIT. PULLED WEAR BUSHING. P/U WHIPSTOCK AND MWD. RIH TO 5600'. BROKE CIRCULATION. WORKED WHIPSTOCK THROUGH TIGHT SPOT AT 5606' TO 5614'. RIH TO 7700'. ORIENT WHIPSTOCK TO 54°. RIGHT OF HIGH SIDE OF HOLE.

REPORT DATE : 4/15/01 MD : 7,796 TVD : _____ DAYS : ____ MW : 10.1 VISC : 50

DAILY DETAILS : SET WHIPSTOCK SLIPS. PULLED 10K AGAINST. SHEARED OFF WHIPSTOCK. MILL STARTER MILL FROM 7765' TO 7768'. CIRCULATED BOTTOM UP. POOH. L/D MONEL AND STARTER MILL. SERVICE RIG. SET WEAR BUSHING IN WELLHEAD. M/U WINDOW MILL AND RIH TO 7765'. MILL FROM 7765' TO 7781' WITH WINDOW MILL. CIRCULATING AND CONDITION MUD FOR L.O.T.

REPORT DATE : 4/16/01 MD : 7,796 TVD : _____ DAYS : ____ MW : 11.0 VISC : 47

DAILY DETAILS : CONTINUE CIRCULATING HOLE. PERFORM F.I.T. WITH 10.2 PPG MUD AND 560 PSI. EMW 12.0 PPG AT 5999' TVD. POOH TO 5600'. DUMP AND CLEAN MUD TANKS. SENT TANK BOTTOMS TO PRODUCTION FACILITY. POOH L/D MILLS. SERVICE RIG. P/U MUD MOTOR, MWD AND JARS. RIH TO 2650'. WHILE DRIFTING 5" D.P., DRIFT FELL IN HOLE. DRAIN BOP STACK DOWN TO WELLHEAD. NO DRIFT. RIH TO 5000' TO ALLOW MORE STRETCH WHILE PULLING UP. CHANGED OVER MUD AT 5000'. POOH SLOW FROM 5000' TO 1500' WITH DRIFT RIDING ON STABILIZER ABOVE MUD MOTOR. OCCASIONALLY HANGING UP ON CASING COLLAR. FROM 1500' TO 1410' DRAG INCREASED. UP REAMED WITH 2 - 15,000 # DRAG WITH PUMP ON IDLE. RIH AT 06:00.

REPORT DATE : 4/17/01 MD : 7,796 TVD : _____ DAYS : ____ MW : 11.0 VISC : 46

DAILY DETAILS : CONTINUE RIH 7765'. WORKED THRU TIGHT SPOT AT 5606'. UNABLE TO PASS 7765'. CIRCULATED BOTTOM UP. CHANGED MUD SYSTEM OVER TO GELITE SP-101. POOH WITH 75K TO 100K DRAG FROM 7762' TO 5636'. CONNECTED TOP DRIVE AND UP REAMED FROM 5636' TO 5606' WITH HIGH ROTARY TORQUE. NO DRAG FROM 5606' TO SURFACE. STOPPED STAB ABOVE MUD MOTOR AT WEAR BUSHING. COULD NOT SEE DRIFT. POOH, NO DRIFT. L/D DIRECTIONAL BHA. P/U BIT. RIH WITH 8.5" BIT TO 7796'. TAGGED DRIFT AT 5606', SET 20K DOWN TO GET DRIFT GOING DOWN HOLE. CHASED DRIFT TO BOTTOM. CIRCULATING BOTTOM UP AT 7796'.

REPORT DATE : 4/18/01 MD : 7,796 TVD : _____ DAYS : ____ MW : 11.0 VISC : 44

DAILY DETAILS : CONTINUE CIRCULATING BOTTOM UP. PULLED UP 1 STAND AND HUNG BLOCK. SLIP AND CUT DRILL LINE. POOH, L/D BIT. P/U REV CIRCULATING TOOL. RIH. DRIFTED PIPE WITH 5" D.P. DRIFT. LAID ONE JOINT DOWN. CIRCULATED DOWN FROM 7775' TO 7796'. DROPPED BALL. WORKED FISHING TOOL FROM 7796' TO 7800'. POOH. L/D FISHING TOOL. NO FISH. P/U DIRECTIONAL BHA AND RIH TO 7763'. ORIENT MUD MOTOR. WORKED THRU WHIPSTOCK. CLEANED OUT TO 7796'.

REPORT DATE : 4/19/01 MD : 8,672 TVD : _____ DAYS : ____ MW : 11.1 VISC : 55

DAILY DETAILS : DIRECTIONAL DRILLED 8.5" HOLE FROM 7796' TO 8197'. CIRCULATED FOR WIPER TRIP. WIPED HOLE TO 7750'. 20-30K DRAG. HAD TO P/U TOP DRIVE FROM 7850' TO 7820'. BROKE CIRC. NO DRAG WHILE CIRC. WENT THRU WHIPSTOCK GOOD. DIRECTIONAL DRILL FROM 8197' TO 8672'. REAMING EACH STAND.

REPORT DATE : 4/20/01 MD : 9,332 TVD : _____ DAYS : ____ MW : 11.2 VISC : 49

DAILY DETAILS : CIRC FOR WIPER TRIP. WIPER TRIP FROM 8671' TO 7820', REAM TIGHT SPOT FROM 8020' TO 7950'. SERVICE RIG. TRIP IN CLEAN TO BOTTOM FROM 8576' TO 8671', NO FILL. DIRECTIONAL DRLG FROM 8671' TO 8800'. DRLG ROTATE FROM 8800' TO 8860'. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP FROM 8860' TO 7800', CLEAN 90' TO BOTTOM, NO FILL 30K OFF BOTTOM. DRILL ROTATE FROM 8860' TO 9332'. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP 9332' TO 8680'.

REPORT DATE : 4/21/01 MD : 10,090 TVD : _____ DAYS : ____ MW : 11.2 VISC : 50

DAILY DETAILS : DRILL ROTATE FROM 9332' TO 9710'. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP FROM 9710' TO 7800', BACK REAM F/9616' TO 9052', TRIP IN, REAM F/9426' TO 9616', NO FILL ON BOTTOM. DRILL ROTATE FROM 9710' TO 9995'. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP F/9995' TO 9530'. DRILL ROTATE F/9995' TO 10090'.

REPORT DATE : 4/22/01 MD : 10,445 TVD : _____ DAYS : ____ MW : 11.2 VISC : 52

DAILY DETAILS : DRILL ROTATE F/10090' TO 10279'. CIRCULATE FOR SHORT TRIP. WIPER TRIP/SHORT TRIP INTO CASING. REPAIR TOP DRIVE HOSE PROTECTOR, HYD HOSE & ELEC LINES & SERVICE TOP DRIVE & RIG AJUST BRAKES . TRIP IN CIRC DOWN F/9779' TO 9869', TRIP IN TO 10279', NO FILL. DRILL ROTATE SLIDE F/10279' TO 10445'.

REPORT DATE : 4/23/01 MD : 10,636 TVD : _____ DAYS : ____ MW : 11.3 VISC : 48

DAILY DETAILS : DRILL ROTATE SLIDE F/10445' TO 10467'. CIRCULATE FOR WIPER TRIP' WIPER TRIP/SHORT TRIP 5 STANDS. CLEAN TO BOTTOM 90' NO FILL. DRILL ROTATE SLIDE F/10467' TO 10636'. CIRCULATE BOTTOMS UP. TRIP OUT FOR BIT & TEST BOP. NOTE: RECEIVED VERBAL APPROVAL FROM RALPH VASQUEZ OF THE MMS TO JIM MARTIN FOR A 24 HOUR EXTENSION OF THE BOPE TEST.

REPORT DATE : 4/24/01 MD : 10,636 TVD : _____ DAYS : ____ MW : 11.6 VISC : 45

DAILY DETAILS : TRIP OUT OF HOLE SWABBING, TRIP BACK TO BOTTOM. CIRC & COND MUD WT UP TO 11.3. TRIP OUT TO SHOE, MONITOR WELL, TRIP BACK TO BOTTOM. CIRC & CONT MUD WT UP TO 11.6. TRIP OUT SLOW. LAY DOWN BHA TOOLS. PULL WEAR BUSHING. INSTALL TEST PLUG. TEST BOPS. RECEIVED VERBAL APPROVAL FROM MMS DISTRICT SUPERVISOR RISHI TYAGI TO BRENT MARTIN TO EXTEND THE BOP TEST DEADLINE 24 HOURS.

REPORT DATE : 4/25/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.6 VISC : 45

DAILY DETAILS : TESTED ALL RAMS AND VALVES TO 250/5000 PSI. ANNULAR PREVENTER TO 250/3500 PSI. PULLED TEST PLUG AND INSTALLED WEAR BUSHING. SERVICE RIG AND TOP DRIVE. L/D EXCESS DRILL COLLARS. P/U HOLE OPENER WITH 3' NOSE AND RIH TO 7781'. REAMED MUD MOTOR RUN FROM 7781' TO 9526'. (1745').

REPORT DATE : 4/26/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.7 VISC : 46

DAILY DETAILS : WASH/REAM MOTOR RUN F/ 9526' T O 10636'. CIRCULATE & COND FOR CASING. WIPER TRIP/SHORT TRIP TO CASING 7800'. SERVICE RIG & TOP DRIVE, OIL LEAK ON TOP DRIVE, FIXED THE LEAK, WIPE DOWN DRK, DID GET SOME DROPS IN THE WATER. TRIP TO BOTTOM. CIRCULATE FOR CASING. TRIP OUT TO RUN CASING. SOFT BREAK 30 STANDS OF PIPE, LAY DOWN HWDP & REAMER. PULL WEAR BUSHING, HELD SAFETY MEETING. RIG UP CASING CREW, MOVE SLIDE BACK ON TOP DRIVE.

REPORT DATE : 4/27/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.7 VISC : 46

DAILY DETAILS : HELD SAFETY MEETING. RUN 237 JOINTS OF 26#, 7", CASING 78 JOINTS OF S-95 HYD 521, 52 JOINTS OF P-110 HYD 521, 107JOINTS P-110 LTC. MAKE UP FLUTED HANGER, LAND AT 52' KB. SHOE AT 10600'. RIG UP DOWELL, CIRC CASING. HELD SAFETY MEETING. PUMP 20 BBLS OF CHEMICAL WASH & 20 BBLS OF MUDPUSHXT AT 12.5 PPG, SHUT DOWN, DROP BOTTOM PLUG. CEMENT 7" CASING WITH LEAD 650 SXS OF CLASS G -POZ-4%D20-.4D13-.2%D46-. 2%D65 AND TAIL 250 SXS 0F CLASS G -.10GPSD80-.15GPSD81-.05GPSD47 DISPLACE WITH 20 BBLS OF WATER CHANGE OVER TO RIG PUMPS DISPLACE 382 BBLS BUMP PLUG WITH 500# OVER SHUT WELL IN. WAIT ON CEMENT.

REPORT DATE : 4/28/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.7 VISC : 46

DAILY DETAILS : WAIT ON CEMENT. RELEASE PRESS ON CASING, BRK OUT LANDING JOINTS, PULL DIVERTER, NIPPLE DOWN AT RISER & WELLHEAD, INSTALL PACK OFF, NIPPLE UP & INSTALL DIVERTER, INSTALL 3 1/2" RAMS IN BOP, RIG UP 3 1/2" TOOLS. MAKE UP PACKER, RUN IN AND SET, START TESTING BOPS 250 LOW, 5000 HIGH, PACKER STARTED LEAKING, CHANGE OUT PACKERS, CONTINUE TO TEST BOPS. SLIP & CUT DRILL LINE. LAY DOWN 5" DRLG PIPE.

REPORT DATE : 4/29/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.7 VISC : 52

DAILY DETAILS : LAY DOWN 5" DRLG PIPE. MAKE UP BIT, PICK UP BHA & 3 1/2" DRLG PIPE TO 10513', TAG FLOAT. DRILL CEMENT/FLOAT EQUIP. CIRCULATE FOR CASING TEST & TEST 2500 PSI. DRILL CEMENT/FLOAT EQUIP. CLEAN OUT RAT HOLE TO 10636'.

REPORT DATE : 4/30/01 MD : 10,925 TVD : 7,769 DAYS : ____ MW : 12.1 VISC : 52

DAILY DETAILS : DRILL CEMENT/FLOAT EQUIP. CLEAN OUT TO 10636'. CIRCULATE & COND, RAISE MUD WT TO 12#. CONDUCT FORMATION INTEGRITY TEST LEAK OFF IS AT 15.8 PPG. TRIP OUT FOR BHA SLM. PICK UP BHA & TOOLS ANADRILL SET TOOLS TEST MOTOR. TRIP IN CLEAN TO BOTTOM NO FILL SURVEY. DRILL SLIDE ROTATE FROM 10636' TO 10925'.

REPORT DATE : 5/1/01 MD : 11,550 TVD : _____ DAYS : ____ MW : 12.3 VISC : 55

DAILY DETAILS : CIRCULATE FOR WIPER TRIP. CIRC, MAKE WIPER TRIP/SHORT TRIP FROM 10956' TO 10600'. SERVICE RIG. WORK ON TOP DRIVE OILER PUMP, OUT #1 PUMP LINERS LEAKING FIX 6BY8 PUMP. TRIP IN. DRILL ROTATE FROM 10925' TO 11180'. SERVICE RIG. DRILL ROTATE FROM 11180' TO 11434'. CIRC FOR WIPER TRIP. WIPER TRIP/SHORT TRIP FROM 11434' TO 10600'. DRILL ROTATE FROM 11434' TO 11550'.

REPORT DATE : 5/2/01 MD : 11,720 TVD : _____ DAYS : ____ MW : 12.3 VISC : 52

DAILY DETAILS : DRILL ROTATE F/ 11550' TO 11720'. CIRC FOR WIPER TRIP. WIPER TRIP/SHORT TRIP 5 STANDS. DRILL ROTATE F/ 11720' T 11782'. CIRCULATE FOR TRIP,. PUMP DRY JOB. TRIP FOR BIT. LD BHA & TOOLS, LOST ONE CONE WAIT ON MAGNET.

REPORT DATE : 5/3/01 MD : 11,782 TVD : _____ DAYS : ____ MW : 12.7 VISC : 51

DAILY DETAILS : WAIT ON TOOLS, SERVICE RIG AND TOP DRIVE. MAKE UP FISHING TOOLS. TRIP IN WITH JUNK BASKET AND RUNNING ON BACKUP GENERATOR POWER, 2 1/2 HOURS. CIRC BOTTOMS UP, WORK JUNK BASKET. TRIP OUT. CLEAN OUT BASKET, GOT PART OF A CONE. PU BHA & TOOLS. TRIP IN TO 10600'. CIRC & COND. WASH/REAM F/ 10600' TO 11185'.

REPORT DATE : 5/4/01 MD : 11,925 TVD : _____ DAYS : ____ MW : 12.9 VISC : 45

DAILY DETAILS : WASH/REAM F/ 11185' TO 11782'. DRILL ROTATE F/ 11782' TO 11925' TD. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP TO CASING SHOE 10600', TIGHT F/ 11750' TO 11650'. SERVICE RIG & TOP DRIVE, CHECK SWIVEL & TOP DRIVE FOR BENT SUB XO, SUB COULD BE BENT. TRIP IN ON FILL. CIRCULATE FOR LOGS, WT UP FROM 12.7 TO 12.9. TRIP OUT FOR LOGS. RIG UP LOGGERS. EQUIPMENT FAILURE, WAIT ON DIFF SENSER HEAD FOR LOGGING UNIT.

REPORT DATE : 5/5/01 MD : 11,925 TVD : _____ DAYS : ____ MW : 13.3 VISC : 45

DAILY DETAILS : EQUIPMENT FAILURE, WAIT ON NEW WT SENSER HEAD FOR LOGGING UNIT, NEW SENSER DID NOT WORK, WAIT ON PARTS. EQUIPMENT FAILURE, WAIT ON SCHLUMBERGER, TRIP IN CLEAN TO BOTTOM 65' NO FILL EQUIPMENT FAILURE, CIRC & COND MUD 1100 UNITS OF GAS WT UP TO 13.2. EQUIPMENT FAILURE, TRIP OUT TO LOG. EQUIPMENT FAILURE, RIG UP LOGGERS. LOGGING WITH AIT-PEX-CMR-ACTSTOOLS GOT TO 11745' LOG OUT LAY DOWN TOOLS MAKE UP LOGGING TOOLS, FMS-DSI-GR-ACTS- RUN IN.

REPORT DATE : 5/6/01 MD : 11,925 TVD : _____ DAYS : ____ MW : 13.3 VISC : 49

DAILY DETAILS : RUN IN WITH LOGGING TOOLS FMS-DSI-GR-ACTS- TO 11925', LOG STUCK LOGS AT 10650'. HOLE CONDITIONS, STUCK LOGS, WAIT ON FISHING TOOLS. HOLE CONDITIONS, MAKE UP FISHING TOOLS TO STRIP OVER WIRELINE. HOLE CONDITIONS, STRIP OVER WIRE LINE.

REPORT DATE : 5/7/01 MD : 11,925 TVD : _____ DAYS : ____ MW : 13.2 VISC : 48

DAILY DETAILS : HOLE CONDITIONS, STRIP OVER WIRE LINE, CIRC AT SHOE & AT FISH, LOGGING TOOLS FREE AT THIS TIME. HOLE CONDITIONS, PULL TOOLS INTO OVERSHOT, CUT LINE, PULL LINE OUT OF ROPE SOCKET, SPOOL UP LINE. HOLE CONDITIONS, TRIP IN TWO STANDS, TAG BOTTOM, TRIP OUT TO SHOE. HOLE CONDITIONS, CIRC & COND MUD, RIG DOWN LOGGERS, CHANGE OUT BAILS ON TOP DRIVE. HOLE CONDITIONS, TRIP OUT WITH TOOLS. HOLE CONDITIONS, LAY DOWN LOGGING TOOLS & FISHING TOOLS, LOAD OUT SAME. PU BHA & TOOLS,TRIP IN BHA. SLIP & CUT DRILL LINE. TRIP IN, TAG BOTTOM NO FILL. CIRCULATE & COND MUD FOR LINER. PUMP PILL DROP RABBIT TRIP OUT FOR LINER.

REPORT DATE : 5/8/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 48

DAILY DETAILS : TRIP OUT FOR LINER. CHANGE OVER TO COMPLETION AFE.

REPORT DATE : 5/8/01 MD : 11,925 TVD : 8,520 DAYS : 0 MW : _____ VISC : _____

DAILY DETAILS : RIG UP CASING CREW. PICK UP 35 JOINTS OF 5", 15#, P110, HYD 511 LINER. MAKE UP BAKER LINER HANGER, RUNNING ON BACK UP POWER. TRIP IN WITH 5" LINER TO 10550' FILLING PIPE. CIRCULATE BOTTOMS UP. TRIP IN WITH LINER, TAG BOTTOM, PICK UP 8'. CIRCULATE & ROTATE LINER. DROP BALL. SET LINER. USED DOWELL TO SHEAR BALL SEAT 4200#. LINER TOP AT 10262'. SHOE AT 11917'. LAP 337. TEST LINES TO 4200#. PUMP 20 BBLS CHEMICAL, 20 BBLS MUDPUSH 14.5 MIX AND PUMP 300 SKS CLASS G CEMENT WITH .35%D65 -. 35%D167 -.10GPSD81 -.2%D46. DISPLACE WITH 105 BBLS OF MUD. BUMP PLUG 1400 PSI. TEST PACKER 1200 PSI, PULL 5 STANDS, REV CIRC 16 BBLS BACK TO SURFACE. TRIP OUT.

REPORT DATE : 5/9/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 43

DAILY DETAILS : CONTINUE POOH. L/D LINER RUNNING TOOL. P/U 6.125" BIT AND 7" CASING SCRAPER. RIH TO 1000'. CHANGED OUT SUB ON TOP DRIVE. RIH TO 9762'. CHANGED OVER FROM SHORE POWER TO BACK-UP GENERATOR POWER. CLEANED OUT CEMENT FROM 9762' TO 10,262'. (TOP OF LINER). CHANGED BACK TO SHORE POWER. CIRCULATED SWEEP AROUND. PERFORMED LAP TEST WITH 1550 PSI WITH 13.2 PPG MUD. 520 PSI ABOVE L.O.T. POOH. L/D BIT AND CASING SCRAPER. P/U LAP TEST TOOLS. RIH

REPORT DATE : 5/10/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 45

DAILY DETAILS : CONTINUE RIH WITH LAP TEST TOOLS. R/U AND PUMPED 72 BBLS OF SEAWATER DOWN DRILL PIPE. SET PACKER AT 10,200' AND PERFORMED NEGATIVE LAP TEST WITH 1808 PSI UNDERBALANCE. (SWITCH FROM SHORE POWER TO BACK POWER AT 13:00.) UNSET PACKER AND REVERSED CIRCULATED SEAWATER OUT. (SWITCH TO SHORE POWER AT 17:30.). POOH WITH LAP TEST TOOLS. L/D SAME. SERVICE RIG. P/U HANDLING TOOLS, BIT, 5" CASING SCRAPER, 12 EA 3.25" D.C., 1317' OF 2 7/8" D.P. RIH.

REPORT DATE : 5/11/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 45

DAILY DETAILS : RIH WITH 4 1/4" BIT TO 10262', TOP OF LINER. CLEAN OUT CEMENT FROM 10262' TO 10285'. RIH, TAGGED CEMENT AT 11685'. C/O CEMENT FROM 11685' TO 11822'. (LANDING COLLAR). PUMPED HI-VIS SWEEP. CHANGED HOLE OVER TO SEAWATER WITH BIOCIDE. POOH LAYING DOWN 3 1/2" DP, 2 7/8" DP, 3 1/2" HWDP, 4 3/4" DC. NIPPLE DOWN B.O.P.E.

REPORT DATE : 5/12/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 45

DAILY DETAILS : INSTALL 13 5/8" X 2 9/16" ADAPTER FLANGE. SECURED WELL. RELEASED RIG AT 08:00 5/11/01. FINAL REPORT.

REPORT DATE : 7/28/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 45

DAILY DETAILS : MOVE RIG TO S-44.

REPORT DATE : 7/29/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 8.6 VISC : 29

DAILY DETAILS : MOVE RIG TO S-44. RIGGING UP. NIPPLE DOWN WELLHEAD CAP. INSTALL NEW WELLHEAD. NIPPLE UP BOPS, ACC & FUNCTION TEST.

REPORT DATE : 7/30/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.6 VISC : 29

DAILY DETAILS : UNLOAD BOAT LOGGING TOOLS. RU/RD SERVICE TOOLS SCHLUMBERGER. WORK ON SCHLUMBERGER UNIT. WAIT ON PARTS. LOGGING, CEMENT BOND LOG LOGGING TOOLS GOT TO 11470', WOULD NOT GO TO BOTTOM. TD IS 11822', RIG DOWN LOGGERS. INSTALL PITCHER NIPPLE, CHANGE OUT RAMS TO 3 1/2" & 2 3/8".

REPORT DATE : 7/31/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.6 VISC : 29

DAILY DETAILS : CHANGE OUT RAMS. FIX MUD SEAL ON RAM DOOR. INSTALL 2" VALVES ON WELL HEAD. INSTALL FLOW LINE. WAIT ON PERMIT. WORK ON RIG. OFF LOAD BOAT. MAKE UP TEST PLUG & 3-1/2" TBG. GOT PERMIT AT 1700 HRS. WAIT ON BOP TESTERS. TEST BOPS/DIVERTER. 250 LOW, 5000 HIGH. BAG 3500 PSI. BAG WILL NOT TEST. LAY DOWN TEST TOOLS. WORK ON BAG.

REPORT DATE : 8/1/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : TEST TOP DRIVE 250 / 5000 PSI. REMOVED BELL NIPPLE. UNSCREW CAP ON ANNULAR PREVENTER AND REMOVED OLD RUBBER. CLEANED AND INSPECTED. INSTALLED NEW RUBBER AND CAP. FUNCTION TEST. TEST ANNULAR PREVENTER 250 / 3500 PSI. GOOD. TEST SAFETY VALVE AND IBOP 250 / 5000 PSI. GOOD. R/D TEST EQUIPMENT. INSTALLED BELL NIPPLE AND FLOWLINE CENSOR. P/U 4-1/4" BIT, 5" CASING SCRAPER AND 52 JOINTS OF 2-3/8", 5.95#, P110 PH6 TUBING. P/U 3-1/2", 12.95#, PH6 TUBING.

REPORT DATE : 8/2/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : CONTINUE PICKING UP 3-1/2" TUBING. POOH WITH 3-1/2" TUBING TO 2-3/8" TUBING AND PICKED UP 9 JOINTS. WORKED ON FOOT THROTTLE. RIH WITH 3-1/2' TUBING. CONTINUE PICKING UP 3-1/2" TUBING (ALL TUBING WAS RABBITED). DID NOT TAG ANYTHING AT 11,470'. TAGGED AT 11,810'. CLEANED OUT FROM 11,810' TO 11,813'. UNABLE TO WORK PASS 11,813'. CIRCULATED HOLE CLEAN. PUMPED THREE 20 BBLS HI-VIS SWEEPS. POOH TO 10,226', TOP OF LINER AT 10,262'. WAIT ON FILL. RIH.

REPORT DATE : 8/3/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : TAGGED AT 11,813'. NO FILL. POOH. S.L.M. 5' DIFFERENCE. NO CORRECTION. R/U WIRELINE AND RAN CBT-USIT FROM 11,813' TO 10262'. R/D WIRELINE. RIH WITH 5" CASING SCRAPER. P/U 7" CASING SCRAPER ON 3 1/2" TUBING. RIH, WORKING EACH STAND TO 11,813'. CIRCULATED HI-VIS SWEEPS.

REPORT DATE : 8/4/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : CIRCULATE DRIL KLEEN. CLEANING HOLE WITH RETURNS GOING TO PRODUCTION. DUMP AND CLEAN MUD TANKS. CIRCULATED CAUSTIC SWEEP THROUGH CHOKE, KILL LINES AND FLOW LINE. RIGGED UP FILTER PRESS UNIT.

REPORT DATE : 8/5/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : TRANSFERED CABR2 FROM POLY TANK TO ACTIVE TANKS. CHECKED MUD, 13.1 PPG. WAIT ON CACL2 TO INCREASE MUD WT. CLEANED POLY TANKS WHILE WAITING. INCREASED CABR2 IN ACTIVE TANK TO 13.5 PPG. FILTERED 13.5 PPG CABR2 AND STORED IN POLY TANKS. R/U DOWELL TO TREE. R/U MANIFOLD. STARTED MIXING MUD PUSH. POLYMER LEAKED INTO ACTIVE SYSTEM. CLEANED ACTIVE TANKS.

REPORT DATE : 8/6/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : WORKED ON SUCTION VALVE IN PILL TANK. UNABLE TO MIX. HELD SAFETY MEETING. OPENED SUBSURFACE SAFETY VALVE. 80 PSI ON CASING. 0 PSI ON TUBING. BLED OFF. TEST SURFACE LINES TO 4000 PSI. CIRCULATED CABR2 OUT OF S-65 AT INITIAL RATE .2 BPM WITH 1300 PSI. FINAL RATE .85 BPM WITH 1100 PSI. RECOVERED 445 BBLS, 400 BBLS OF 12.3 TO 13.3 PPG, 45 BBLS OF 11.2 TO 12.8 PPG. SECURED WELL. SITP 550 PSI. SICP 20 PSI. WEIGHT UP CABR2 TO 13.4 PPG AND FILTERING TO ECI TANK.

REPORT DATE : 8/7/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.5 VISC : 29

DAILY DETAILS : RIGGED UP DOWELL TO PICKLE TUBING IN S-44. CHECKED DOWELL PUMP. DISCHARGE AND SUCTION VALVE. HELD SAFETY MEETING. PRESSURE TEST SURFACE LINES TO 3000 PSI. PUMPED 1000 GAL OF 15% HCL. AND REVERSED OUT. DISPLACED SEAWATER WITH 13.4 PPG CABR2. CIRCULATED ONE HOLE VOLUME. FILTERED TO 6 NTU. POOH WITH 3 1/2" TUBING. L/D 7" CASING SCRAPER. CLEANED DECK AND RIG FLOOR WHILE WAITING ON SUMP PACKER.

REPORT DATE : 8/8/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : WAITING ON SUMP PACKER AND EQUIPMENT. POOH WITH 2 3/8" TUBING. CHANGED OUT VALVES IN MUD TANKS. R/U SCHLUMBERGER WIRELINE UNIT AND CHECK TOOL. RIH WITH 4" RING GAUGE TO 10,162', TOP OF LINE AT 10,262'. WHEN OPERATOR STOP AND PICKED UP TO GET UP WEIGHT, THE WIRELINE SKID UNIT SLID APP 20'. STOPPING WHEN UNIT RUN INTO RIG FLOOR DOGHOUSE. (WIRELINE UNIT WAS NOT SECURED TO PIPE RACK). REPOSITIONED AND CHAINED WIRELINE UNIT. ATTEMPT TO PULL UP TO GET LINE TENSION, TOOL WAS STUCK. WAITING ON FISHING TOOLS. P/U FISHING TOOL. R/U TO STRIP OVER WIRELINE. STIPPING OVER WIRELINE TO RECOVER GAUGE RING.

REPORT DATE : 8/9/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : CONTINUE STRIPPING OVER WIRELINE. TAGGED TOP OF FISH AT 10,276'. TOP OF LINER AT 10,262'. WORKED OVERSHOT OVER FISH AT 10,276'. PULLED FISH UP ABOVE LINER TOP. MAX OVERPULL 8K. INSTALLED "T" BAR CLAMP. PULLED WIRELINE OUT OF ROPE SOCKET. POOH WITH WIRELINE. BAD SPOT AT +/- 4000'. WOULD NOT GO THROUGH SHEAVE. CUT BURRS AND WORKED THROUGH. RE-HUNG SHEAVE. CONTINUE PULLING WIRELINE. R/D WIRELINE. CHANGED BAILS ON TOP DRIVE. POOH WITH FISH.

REPORT DATE : 8/10/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : CONTINUE POOH WITH FISH. APP 250' OF E-LINE ON TOP. LINE HAD PARTED, NOT PULLED OUT OF ROPE SOCKET. L/D FISH AND FISHING TOOLS. CHECKED GUAGE ON RING. FOUND TO BE 4.285". LINER DRIFT 4.283". RIH WITH 5" CASING SCRAPER. DID NOT TAG ANYTHING IN LINER. R/U TO REVERSE CIRCULATE. REVERSE CIRCULATE. CLEAN FILTER PRESS AND CHANGED PRESSURE GAUGE. REVERSE CIRCULATE HOLE CLEAN. POOH.

REPORT DATE : 8/11/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : CONTINUE POOH WITH CASING SCRAPER. HELD SAFETY MEETING. R/U SCHLUMBERGER WIRELINE. RIH WITH 4.25" GAUGE RING TO 11,900'. P/U SUMP PACKER. RIH ON W/L. CORRELATED. PACKER STUCK AT 11,727'. SET PACKER AT 11,727'. POOH AND R/D WIRELINE. RIH OPEN ENDED.. WORKED ON FOOT THROTTLE. CONTINUE RIH. TAGGED SUMP PACKER AT 11,722' TUBING MEASUREMENT. (11,727' W/L). R/U TO REVERSE CIRCULATE AND MIXING SWEEPS.

REPORT DATE : 8/12/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : MIXED SWEEPS. PUMP 10 BBLS OF HEC SWEEP, 40 BBL OF SATURATED SALT SLURRY, 10 BBLS OF HEC SWEEP, 25 BBLS SOLVENT SWEEP, PUMPED AROUND WITH CABR2 FILTERING FLUID. POOH. INSTALL TEST PLUG AND R/U SURFACE LINES. TEST BOP HAD PROBLEMS WITH CHART. NEW CHARTS ENROUTE TO RETEST.

REPORT DATE : 8/13/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : RECEIVED CHARTS AND RETEST BOPE. R/D TEST LINES AND PULLED TEST PLUG. P/U PERFORATING GUNS AND RIH RABBIT TUBING. WORKED ON FOOT THROTTLE. CONTINUE RIH WITH GUNS TO 11,722' (MEASURED DEPTH). LATCHED INTO SUMP PACKER AT 11,722' (MEASURED DEPTH). SPACED OUT. INSTALLED SAFETY VALVE. BROKE CIRCULATION. DROPPED BALL. PRESSURED UP AND FIRED GUNS WITH 2000 PSI. PERFORATED 12 SPF, 12 GM,RDX, .062 DIA. BOTTOM PERF AT 11,695' W/L DEPTH. TOP PERF AT 11,635' W/L DEPTH. MONITOR WELL, OK. POOH WITH GUNS. L/D SAME. RIH WITH 5", 15#, CASING SCRAPER.

REPORT DATE : 8/14/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : CONTINUE RIH WITH 5" CASING SCRAPER. WORKED SCRAPER FROM 11,722' TO 11,629', MEASURED DEPTH. REVERSE CIRCULATED HOLE CLEAN. WORK ON FOOT THROTTLE. POOH WITH SCRAPER. L/D SAME. PICKED UP AND RIH WITH SUPERMAX 12 GAUGE 316 SS/140 WIRE PRODUCTION SCREEN.

REPORT DATE : 8/15/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : TRIP IN WITH SCREEN LINER, TAG SUMP PACKER AT 11727'. SPACE OUT TOOLS, CHANGE OUT BALES ON TOP DRIVE, RIG UP SCHLUMBERGER. HELD SAFETY MEETING. TEST 2" LINES TO 5000 PSI, DROP BALL, SET PACKER, TEST 3" LINES TO 10000 PSI. DADA FRAC FILL TBG WITH LINEAR GEL 80BBLS 5PPM 3000PSI LINE TOOLS UP TO SQUEEZE 2PPM 3000PSI STEP UP 2PPM TO 12PPM AT 5400PSI TOTAL OF 65BBLS. SHUT DOWN ISIP 2655PSI PUMPED 100BBLS 10PPM 6600PIS X-LINLCED GEL DISPLACED WITH LINEAR GEL STEPDOWN ANALYSIS INDICATED NO WELLBORE RESTRICTION CLOSER PRESS 1750PSI - 0.65PSI/FT-21%EFF SHUTDOWN 2665PSI. PUMP FRAC 10-11 PPM 5000-6700PSI PLACED 83000 LBS OF SAND WITH 27% PAD VOLUME DISPLACED WITH LINEAR GEL NET PRESS INCREASE 400-600 PSI SHUTDOWN PRESS 3200PSI. PUT TOOLS IN REV POSITION, REV CIRC, LOST ABOUT 145BBLS OF FLUID. MONITOR WELL, RIG DOWN SCHLUMBERGER, LOSING ABOUT 8 TO 10 BBLS/HR. MIX AND PUMP PILL 20 BBLS. MONITOR WELL. FLITER FLUID, MIX SALT PILL, LOST ABOUT 247 BBLS.

REPORT DATE : 8/16/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : MONITOR WELL, FILTER FLUID, PUMP SALT PILL. MONITOR WELL. MIX BAG BROMIDE, NO FLUID LOST, WORK WITH PRODUCTION, SHUT WELL IN, REPLACE SOME LINES ON PRODUCTION DECK. TRIP OUT FOR GUNS. RU/RD SERVICE TOOLS, WASH PIPE. MAKE UP GUNS. TRIP IN WITH GUNS & RABBIT PIPE. SET PACKER PLUG AT 11478' AND TEST SPACE OUT GUNS. DROP BALL, CIRC DOWN, FIRE GUNS FROM 11470' TO 11410'.

REPORT DATE : 8/17/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : CIRCULATE DOWN BALL FIRE GUNS MONITOR WELL. REV CIRC, START TRIP OUT WELL TUBING. REV CIRC ONE TBG VOL. TRIP OUT FOR SCRAPER AND PACKER PLUG OVERSHOT. LAY DOWN GUNS, MAKE UP SCRAPER & OVERSHOT. TRIP IN TO TOP OF PACKER. CIRCULATE FILTER FLUID, LATCH PACKER PLUG, REV CIRC. PULL PACKER PLUG, MONITOR WELL. TRIP OUT FOR LINER.

REPORT DATE : 8/18/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TRIP OUT, DID NOT HAVE PACKER PLUG. REDRESS OVERSHOT, TRIP IN. CIRC & WASH DOWN TO PLUG, LATCH ONTO PLUG, PULL OUT & IN PACKER A FEW TIMES. TRIP OUT WITH PACKER PLUG. LAY DOWN SERVICE TOOLS. PICK UP SCREEN LINER, START PICKING UP WASH PIPE AND SEALS. WRONG INTERNAL SEALS. LAY DOWN SCREEN LINER, TRIP IN HOLE TO 11470', WAIT ON SEALS.

REPORT DATE : 8/19/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : WAIT ON SEALS, TRIP IN TO 11470'. WORK ON RIG FILTER FLUID. TRIP OUT FOR SCREEN LINER. PICK UP LINER PACKER & WASH PIPE. TRIP IN WITH LINER.

REPORT DATE : 8/20/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TRIP IN 11478'. ATTEMPT TO STING INTO PACKER, TRY TO PRESS UP ON BACKSIDE, NEG. GETTING ALOT OF OVERPULL, PACKER COULD BE SETTING. RELEASE FROM LINER. TRIP OUT. MAKE UP RETRIEVING TOOL, TRIP IN. LATCH ONTO LINER, START OUT TIGHT 20' OFF BOTTOM, WORK THRU 60K OVER, TRIP OUT. LAY DOWN TOOLS & LINER, MULE SHOE SHOWS SIGNS OF SETTING DOWN. THE PACKER SHOWS SIGNS OF JUNK LONGSIDE PACKER & CASING, ONE LOCK NUT MISSING ON RETRIEVING TOOL. MAKE UP SEAL ASSY, TRIP IN TO SEE IF WE CAN GET STUNG IN.

REPORT DATE : 8/21/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TRIP IN WITH SEAL ASSY. TAG PACKER, ROTATE STRING, STING INTO PACKER 7' TO 9' IN TAKING WT. WORK SEALS INTO PACKER SETTING DOWN 30 TO 40K, LATCH INTO PACKER AND OUT. TRIP OUT FOR LINER. MAKE UP SCREEN LINER AND WASH PIPE, WELL TAKING FLUID. TRIP IN, STABBED INTO PACKER. STOPPED FLUID LOSS - LOST IN LAST 8 HRS, 296 BBLS. CHANGE OUT BAILS RIG UP SCHLUMBERGER. SAFETY MEETING, WAIT ON SCHLUMBERGER ENGINEER, PRESS TEST 2" LINES TO 5000 PSI 3" LINES TO 10000 PSI, DROP BALL, SET PACKER, RELEASE TOOLS, TEST BACKSIDE. PREJOB MEETING PUMP DATA FRAC.

REPORT DATE : 8/22/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : DATA FRAC 10 BBL AMIN AV PSI 4939. FRAC #2 AV PRESS 5400 PSI SCREENED OUT 45000 LBS IN PERFS. REV CIRC 265 BBLS, LOST 181 BBLS. RIG DOWN SCHLUMBERGER. PUMP 18 BBLS OF SALT PILL & HEC, SPOT ON BOTTOM. PULL 11 STANDS. MONITOR WELL. CHANGE BAILS ON TOP DRIVE. TRIP OUT FOR GUNS. LAY DOWN TOOLS. PICK UP PACKER PLUG & GUNS. TRIP IN TO 11306'. SET PACKER PLUG, SPACE OUT GUNS, DROP BALL, CIRC DOWN, FIRE GUNS. MONITOR WELL PULL 5 STANDS REV CIRC WELL UP TUBING. TRIP OUT FOR SCRAPER AND OVERSHOT.

REPORT DATE : 8/23/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TRIP OUT FOR SCRAPER AND OVERSHOT. TRIP IN WITH SCARPER 11300'. CLEAN MUD TANKS FILTER FLUID. CIRC FILTER FLUID, WASH DOWN LATCH ONTO PACKER PLUG. PULL PACKER PLUG OUT. MONITOR WELL. TRIP OUT FOR SCREEN LINER. MAKE UP SCREEN LINER WASH PIPE & PACKER. TRIP IN WITH LINER.

REPORT DATE : 8/24/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TAG TOP OF LINER, STING IN & OUT. LATCH INTO PACKER. RIG UP SCHLUMBERGER. HELD PREJOB MEETING. DROP BALL, TEST 2" LINES TO 5000 PSI, 3"LINES TO 9000 PSI. SET PACKER, REV OUT BALL. PUMP DATA FRAC, 100 BBLS AT 4239 PSI AT 64 BPM. FRACTURE PERFORATIONS 11255' - 11295' WITH 616 BBLS OF SLURRY & 49,000 LBS SAND. AVG TREATING PRESSURE 3211 PSI AT 7.8 BPM. SCREEN OUT WITH 7#/GAL SLURRY ON PERFS. 30,000 LBS OF 20/40 ECONO PROP INTO PERFS. REV OUT 130 BBLS, NO LOSS OF FLUID. RIG DOWN SCHLUMBERGER. CHANGE OUT BAILS, PUMP 18 BBLS SALT & HEC PILL, SPOT PILL ON BOTTOM. PULL 10 STANDS, MONITOR WELL. TRIP OUT FOR SEAL ASSY. LAY DOWN TOOLS, MAKE UP TOOLS. TRIP IN WITH SEALS, SET SEALS.

REPORT DATE : 8/25/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : SET SEAL ASSY. LAY DOWN WORK STRING. RIG UP TO RUN PRODUCTION PRUETT-HYDRO TEST-CERTEX. MAKE UP 400 SERIES ESP PUMP CHEMICAL LINE ESP LINE PRUETT CHAMBER SLIDING SLEEVE AND HYDRO TEST.

REPORT DATE : 8/26/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : RUN PRODUCTION STRING. SPLICE ESP CABLE. RUN PRODUCTING STRING.

REPORT DATE : 8/27/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : RUN PRODUCTION STRING. MAKE UP PACKER AND SSSV. MAKE SPLICE ON ESP-PRUETT LINE -CHEMICAL LINE. MAKE UP CONTROL LINE. RUN IN HOLE. MAKE UP TBG HANGER. SPLICE PLUG ON ESP LINE. MAKE UP ALL LINES & TEST LAND TBG HANGER. NU/ND BOP/DIVERTER. NIPPLE UP TREE AND TEST.

REPORT DATE : 8/28/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : INSTALL PRODUCTION TREE & TEST. PUMP DOWN PUSH PILL DISPLACE WELL WITH SEAWATER 47 BBLS. TBG PRESS UP TO 2600 PSI, CASING PRESS FELL TO ZERO. ATTEMPT TO KEEP SSSV OPEN, COULD NOT. 7000 PSI ON CONTROL LINE, VENT VALVE DOES NOT APPEAR TO BE OPEN. PACKER IS SET, CAN NOT PUMP DOWN BACK SIDE. INSTALL BACK PRESS VALVE. NIPPLE DOWN TREE. NIPPLE UP BOPS. CHANGE OUT RAMS.

REPORT DATE : 8/29/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : CHANGE OUT RAMS, RIG UP TO TEST BOPS. TEST BOPS, 5000 HIGH, 250 LOW. MAKE TBG UP TO HANGER. CLOSE HYDRIL, PULL PACKER FREE, 35000# OVER PULL 450 PSI CASING PRESSURE. CIRCULATE DOWN TBG 1900 PSI TO OPEN SSSV, CIRC OUT 48 BBLS SALT WATER WITH CABR 5300 STKS TWO BBLS AMIN LONG WAY. SHUT DOWN PUMPS, NO PRESS, OPEN HYDRIL, MONITOR WELL. PULL TBG HANGER TO FLOOR, UNHOOK ESP CONTROL LINE & CHEMICAL LINE, APPEARS TO BE PLUGGED OFF, LAY DOWN TBG HANGER. PULL OUT OF HOLE, CONTROL LINE SMASHED AT SSSV, LAY DOWN VENT VALVE, SSSV & PACKER. SEND INTO TOWN TO BE REDRESSED. MONITOR WELL. WAIT ON TOOLS.

REPORT DATE : 8/30/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : MONITOR WELL. WAIT ON TOOLS. SPACED OUT TUBING. MADE UP PACKER & SCSSV. MADE SPLICE ON ESP-PRUITT LINE -CHEMICAL LINE. MADE UP CONTROL LINE. RUN IN HOLE. MADE UP TBG HANGER SPLICE PLUG ON ESP LINE. MADE UP ALL LINES AND TEST. LANDED TBG HANGER. N/D BOPE AND RISER. N/U PRODUCTION TREE.

REPORT DATE : 8/31/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : CONTINUE TO NIPPLE UP TREE AND TEST. PUMP PUSH PILL AND CHANGED WELL OVER TO SEAWATER AT 1 1/2 BPM. R/U TRS WIRELINE. RIH AND CLOSED SLIDING SLEEVE AT 9726'. PULLED TOOL. RIH AND SET "X" PLUG AT 530'. PULLED RUNNING TOOL. PRESSURED UP AND SET "RDH" PACKER. RIH AND RETRIEVED "X" PLUG. R/D WIRELINE. TEST ANNULAR TO 500 PSI. TURNED WELL OVER TO PRODUCTION AT 17:00 HRS 8/30/01. PREPARED RIG FOR DEMOBILIZATION. BROKE DOWN BOPE STACK. RIGGING DOWN TOP DRIVE.

REPORT DATE : 9/1/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : RD SERVICE TOOLS & DOWELL UNIT TOP DRIVE. FINAL REPORT.

Operator: Torch Operating Company
Field: Santa Clara F[illegible]d
Well: S44-ST03
Location: OCS-P 0216
API#: 04-311-20610-03/S01

Spud D[illegible]e: 2001
KB: 107'
County:

Geological Marker: Lwr Repetto

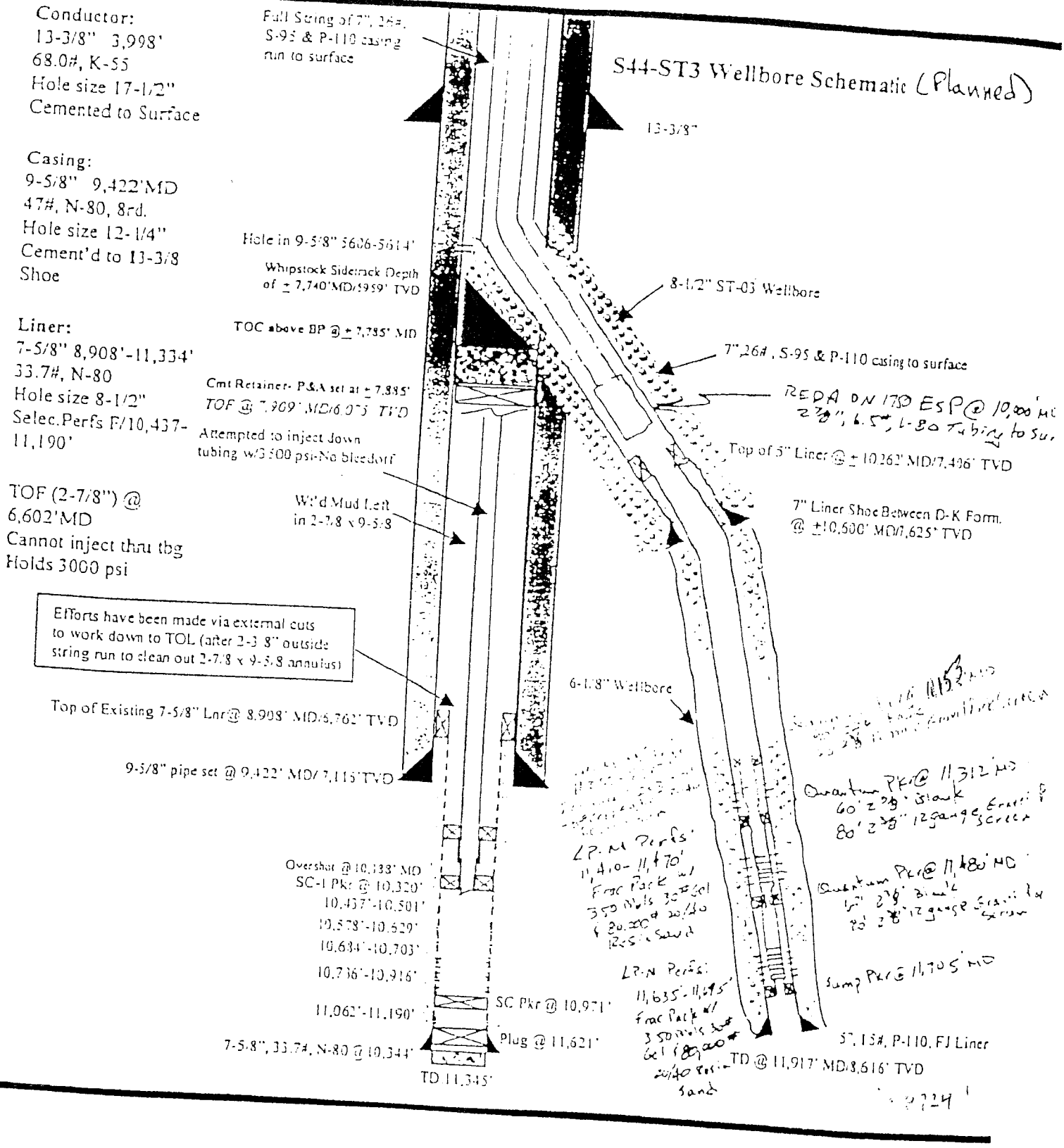
Conductor:
13-3/8" 3,998'
68.0#, K-55
Hole size 17-1/2"
Cemented to Surface

Casing:
9-5/8" 9,422'MD
47#, N-80, 8rd.
Hole size 12-1/4"
Cement'd to 13-3/8 Shoe

Liner:
7-5/8" 8,908'-11,334'
33.7#, N-80
Hole size 8-1/2"
Selec.Perfs F/10,437-11,190'

TOF (2-7/8") @ 6,602'MD
Cannot inject thru tbg
Holds 3000 psi

Efforts have been made via external cuts to work down to TOL (after 2-3/8" outside string run to clean out 2-7/8 x 9-5/8 annulus)



Gilda S-44

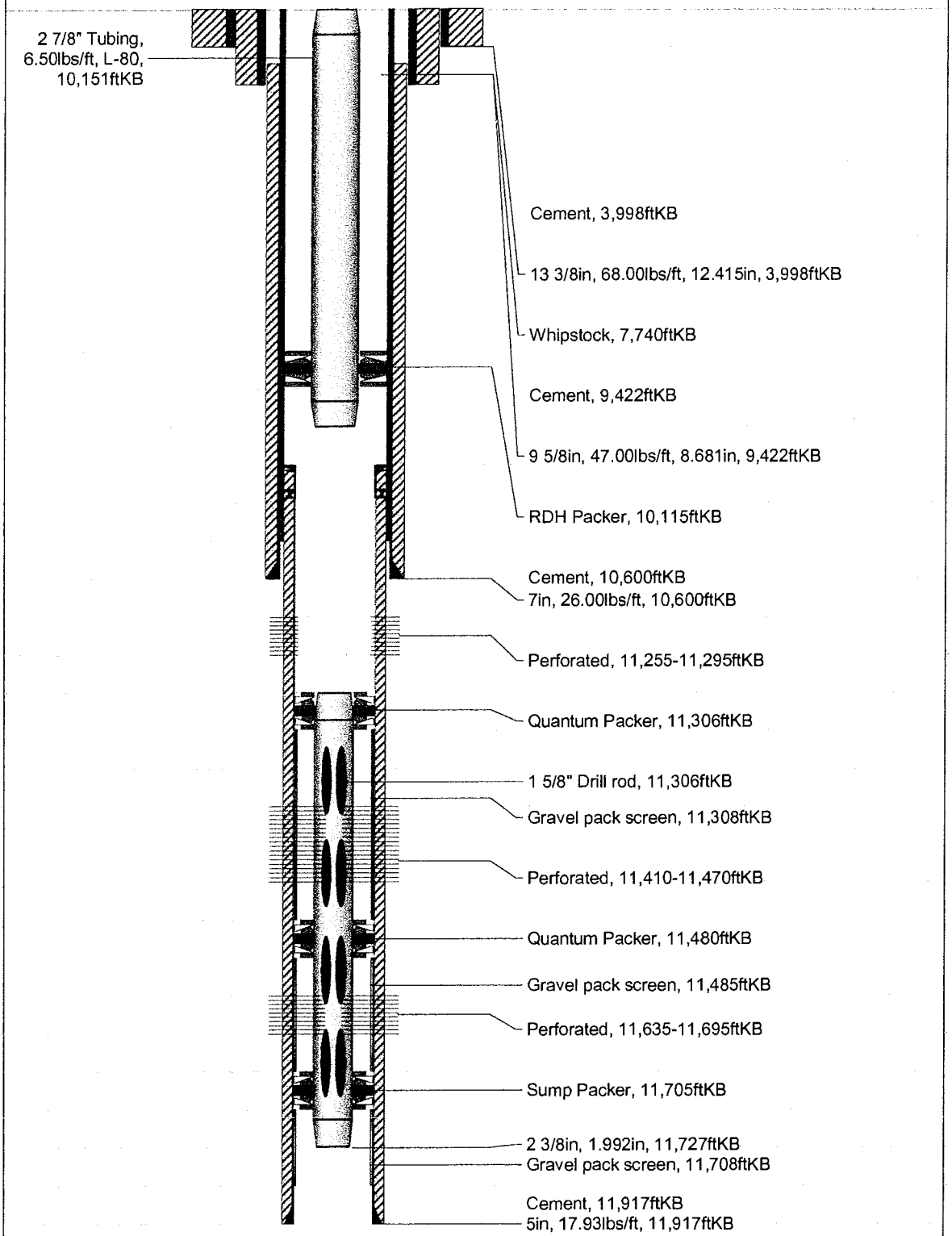
Current Schematic

API	Field Name	Operator	State	Lease
0431120610	Santa Clara	Nuevo Energy	California	OCS P-0216

Comment	Total Depth (ftKB)

ReDrill ST 03: 9/23/2002

ftKB (MD)	Schematic - Actual	Geology



MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20610-03/S01	S-44	NUEVO ENERGY 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

COPY TO REGION

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE X	FRACTURE ___	PLUG BACK ___	WORKOVER X	
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
APPROVAL X	ARTIFICIAL LIFT X	MULTICOMPLETION ___	RECOMPLETION ___		COM/POW
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT ___		
SUBSEQUENT REPORT	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

The attached procedure is an addition to previous submittals and is part of this ongoing project.

RECEIVED
SEP 18 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Phil Tibbs	(661) 395-5421
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Sabrina J. Miller	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
Sabrina J. Miller	010917

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 9/20/01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

NUEVO ENERGY COMPANY

OCS P-0216 Platform Gilda Well S-44
Workover Procedure

1. RU slickline unit RIH w/ 1-½" sinker bar to 9,750'. MU and RIH w/ Shifting tool & open "XA" sliding sleeve @ 9,726'.

2. Pump filtered seawater down tubing while taking returns up the backside. Once the well is full of seawater, record SICP and SITP. Adjust density of $CaBr_2$ fluid as per calculations based upon recorded pressures.

3. Kill well by circulating well clean with $CaBr_2$ filtered kill weight fluid (KWF). Open casing valve and circulate until fluid returns are clean. During the 8/2001 initial completion 13.3 PPG $CaBr_2$ fluid was used. It should take 400 Bbls to fill well.

4. Skid rig over well S-44. Install BPV and ND tree. NU and test BOPE.

5. Pull out of hole with ESP production equipment.

6. RIH w/ Baker Retrieving Assembly, release & POOH w/ Baker Shear Out Sub & Baker Right Hand Release Anchor Latch Seal Assembly.

7. RIH w/ Baker Snap Latch Seal Assembly & ON/OFF Tool. Latch into Baker SC-1 packer @ 11,126'.

8. RU CTU & RIH w/ 1-¼" CT & circulate CT down through all three gravel-pack assemblies to 11,700'. Acidize w/ 2,000 gallons 15% HCL while POOH w/ CT. SI tubing returns & push acid into formation. Continue to POOH w/ CT to 4,000', purge CT w/ Nitrogen, & flow test well for 12 hours then SI.

9. Close Hydril, release tubing from ON/OFF Tool, & reverse circulate KWF to kill well. POOH with tubing.

10. RIH w/ new ESP production equipment. ESP will be set @ 9,970' & RDH packer will be placed in production string @ ~500' MD.

11. Install Back-Pressure Valve and Nipple down BOPE. Install and test tree, Release rig.

12. Verify pump operation. Set packer within 48 hours.

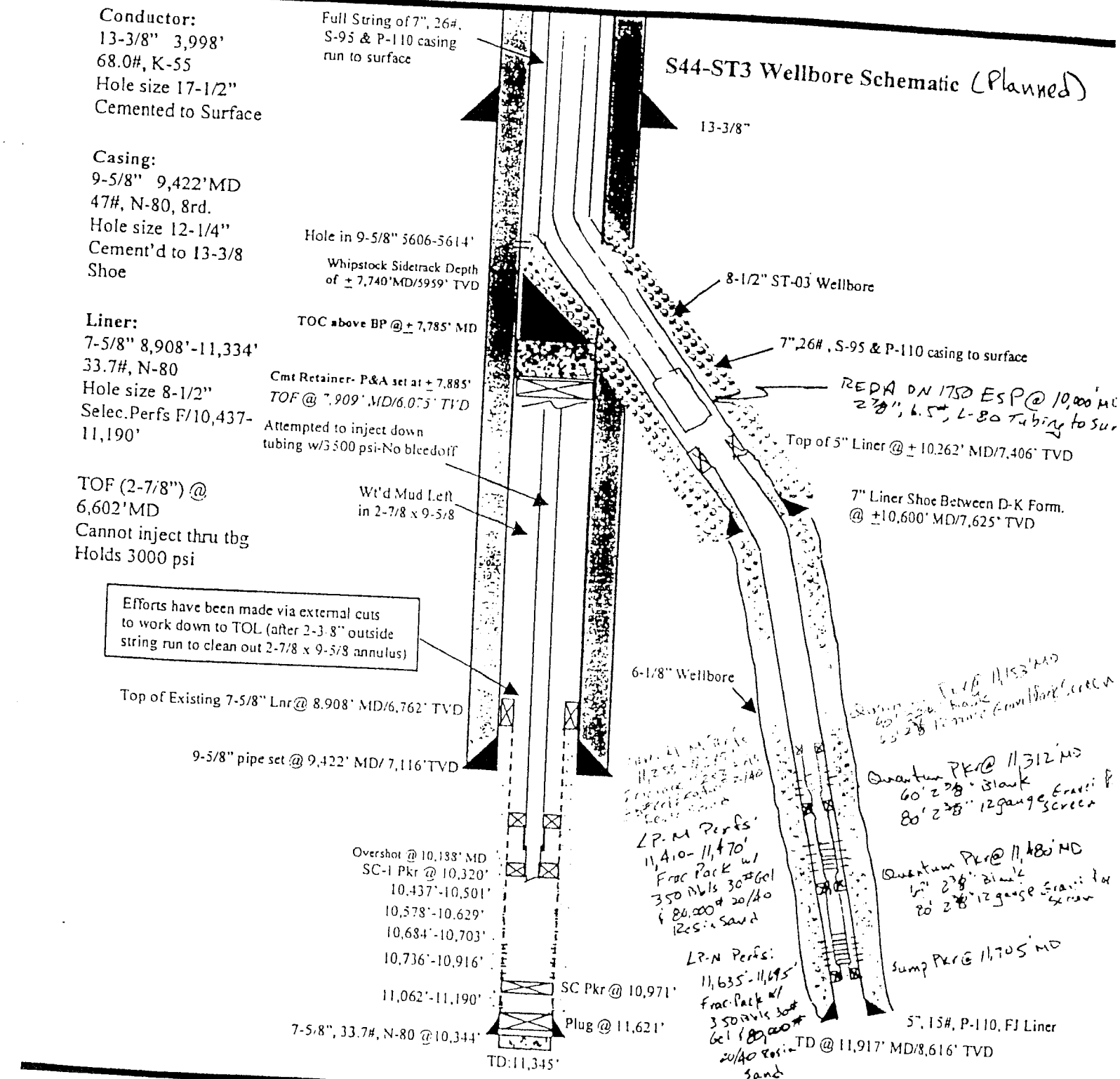
13. Return well to production.

Operator: Torch Operati[illegible] Company
Field: Santa Clara F[illegible]d
Well: S44-ST03
Location: OCS-P 0216
API#: 04-311-20610-03/S01

Spud D : 2001
KB: 107'
County:

Geological Marker: Lwr Repetto

S44-ST3 Wellbore Schematic (Planned)



Releasable to public
Name: SL Date: 5/13/13

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL / CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20610-03/S01	S-44	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	1200 Discovery Dr., Suite 500
Santa Clara	891012369A	01546	Bakersfield, CA 93309

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	
APPROVAL X	ALTER CASING ___	INITIAL COMPLETION X	PULL CASING ___	OTHER ___	COM/POW
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

The attached procedure should replace all previous completion procedures for this project. There is an addition of a 3rd Zone - LP-M. **The only changes to this procedure are found in sections 51 - 71.**

RECEIVED
AUG 2 - 2001
MINERALS MANAGEMENT SERVICE
SANTA MARIA DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Phil Tibbs	(661) 395-5421
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Sabrina J. Miller	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
Sabrina J. Miller	010820

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 8/22/01

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FORM MMS-124 (September 1999) *(Replaces all previous editions of Form MMS-124, which may not be used)*

NUEVO ENERGY COMPANY
Santa Clara Field, Offshore California
OCS-P-0216
Platform Gilda
Well # S-44

AMENDED COMPLETION PROCEDURE

PROCEDURE SUMMARY:

A) Changeover to seawater, clean casing, and changeover to 13.3 PPG $CaBr_2$ brine.

B) TCP 60 ft of perforations in LP-N (11,635'-11,695' MD).

C) Run 80 ft of 2-3/8" wire wrapped stainless screen, set, and frac-pack LP-N sand.

D) TCP 60 ft of perforations in Lower LP-M (11,410'-11,470' MD).

E) Run 80 ft of 2-3/8" wire-wrapped stainless screen, stack on top of first screen, and frac-pack Lower LP-M.

F) TCP 60 ft of perforations in Upper LP-M (11,255'-11,295' MD).

G) Run 80 ft of 2-3/8" wire-wrapped stainless screen, stack on top of first screen, and frac-pack Upper LP-M.

H) Put on production as ESP pumping and gravel packed LP-M, LP-N oil producer.

Tubular Capacities

	Size	Interval	Wt	ID	Drift	Bbl/ft	Hole Vol (bbl)
Cond. Csg	20"	0 - 715'	106.5#	19.000"	18.812"	0.3506	---
Inter. Csg	13-3/8"	0 - 3,998'	68.0	12.415"	12.259"	0.1497	---
Prod. Csg	7"	0 –10,600'	26.0	6.276"	6.151"	0.0382	392*
Prod. Liner	5"	10,262'-11,917'	15.0	4.408"	4.283"	0.0188	29*
							421* bbl

* Actual well volume based upon well records: 5" FC @ 11,823' & Liner Top @ 10,262'

PROCEDURE:

1) Rig up electric line logging unit and run CBT-USIT log inside 5", 15#, P-110 Liner from float collar at 11,823' to liner top at 10,262'. Evaluate logs and cement squeeze as required.

2) RIH with 4-¼" bit on 3-½" (10,200') and 2-3/8" (±1,620') PH-6 workstring to float collar at 11,823'. Circulate out seawater and continue to circulate with filtered sea water and gel sweeps as required, until returns run clear. **Clean fill to PBTD.**

3) Rig up acid pump skid and pump a 4 bbl freshwater spacer (to prevent contamination of $CaBr_2$) and then 1,000 gal. 15% HCL tubing pickle acid mixture to within 2 joints of the packer (calculate capacity of 3-½" and 2-3/8" PH-6 work string). Reverse out at maximum rate to well clean tank. Send to production system at a slow enough rate to allow dilution to minimize handling problems at Mandalay. POOH with bit.

4) Begin cleaning active and reserve pits with caustic wash as required as soon as seawater returns are clean.

5) RIH with 4-¼" bit, 5" all-weight casing scraper, 1,620' 2-3/8" PH-6 tubing, 7" all-weight casing scraper, 5,000' 3-½" PH-6 tubing, 7" " all-weight casing scraper, and 5, 3-½" PH-6 tubing. Scrape 7" casing to 10,262' liner top and 5" liner to 11,823' PBTD. Pump cleaning pills and seawater sweeps while reciprocating and rotating scrapers in the hole. Continue pumping filtered seawater until returns run clear. POOH with scrapers.

6) Rig up DE filter press and filter 13.3 PPG $CaBr_2$ left over from S-65 job into 500 Bbl ECI Tank. Filter entire system to approximately 20 NTU's or less. Consult with duty engineer if turbidity appears to be from dissolved material (i.e., rust). until Displace seawater from tubing and casing. Fill surface pits and tanks with recovered 13.3 PPG $CaBr_2$ left over from S-65 job.

7) Start circulating 13.3 PPG $CaBr_2$ from S-65 into active pit system with Coiled Tubing Unit. Filter fluid with DE filter press and fill ECI Tank. Start filling S-44 wellbore with clean 13.3 PPG $CaBr_2$ and continue to filter fluid until returns are 20 NTU's higher than inet NTU readings. POOH with scrapers.

StimPac LP-N Interval 11,635' – 11,695' MD

8) Rig up wireline unit and run in hole w/ 4.250" gauge ring to PBTD at 11,823'. Make up and run in hole with 5" Dowell DSII Sump Packer and GR-CCL Logging Tools. Correlate GR-CCL with CBL-USIT log and set Sump Packer at 11,705' MD.

9) Pick up and run in hole with Halliburton tubing conveyed perforating assembly with 3-3/8" guns loaded to perforate 60' of the LP-N Sand (11,635' MD – 11,695' MD). Charges to be 12 SPF, 12 gm, RDX, big hole entry (0.62" dia., 6.08" penetration).

- TCP assembly is to be as follows:

  Quantum Snap-Latch Assembly
  2-3/8" 8rd Pin x 2-7/8" 10rd ACME Crossover
  1' 3-3/8" Blank Spacer
  60' 3-3/8" TCP Gun loaded 12 SPF guns
  2.8' 3-3/8" Blank Spacer

1-3/8" Ball Drop Firing Head
2-3/8" 8rd Pin x 2-3/8" PH-6 Box Crossover
2-3/8" PH-6 tubing above 5" Liner Top and 3-½" PH-6 tubing to surface

Caution: On all TCP runs, use pipe dope sparingly.

- Do not run wireline correlation log, but instead tag sump packer with bottom of TCP assembly and pick up to desired depth based on pipe tally.

10) Prior to perforating, notify production and hold rig floor safety meeting. Drop firing ball down tubing, wait for 1 hour, pressure workstring to 2,500 psi and hold until guns fire.

11) Adjust density of $CaBr_2$ completion fluid as necessary in order to maintain safe wellbore conditions.

12) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, salt or calcium carbonate pill will be considered.

13) Pick up and RIH slowly with the following Quantum 2-3/8" Gravel Pack Assembly and running tools as follows (see attached drawing):

- Quantum Packer Service Tool with Uni-Port Service Tool and 140' 1-¼" FJ P-110 Wash Pipe.
- 5" x 2.688" Quantum Packer (11.5-15ppf) AFLAS
- 5" x 2.688" Extended Circulating Housing w/ Closure Sleeve
- Crossover 2-3/8" 8rd Pin x 3-3/8" 8 Stub ACME Box
- 116' 2-3/8" 4.7 ppf, N-80, SuperMax Blank Pipe (Last section of Blank will have 8rd Box)
- 80' 2-3/8" 4.7 ppf, N-80, SuperMax 12 gauge 316SS/140 Wire Production Screen
- Crossover 2-3/8" 8rd Pin x 2-3/8" Super Max Box
- 5" x 2.688" Snap Latch Locator (2-3/8" 8rd Box)
- 2.688" Viton Seal Unit
- 2.688" Guide Shoe

Note: Minimize the use of pipe dope on screen assembly's threads.
Note: On all GP Assembly runs, rabbit all equipment run above Service Tool.
Note: Minimize the use of pipe dope on work string.

14) Before stinging into sump packer, establish a pick up and slack off weight reference.

15) Snap into and out of sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight as directed by serviceman.

Note: Space out workstring to a safe working height on floor prior to snapping into sump packer.

16) Rig up pump skid and test surface lines to 5,000 psi.

17) Establish circulation down workstring. Circulate 5 to 10 Bbls to clean ball seat in setting tool. Drop 1-¼ " Bakerlite Setting Ball, wait 30 minutes to let ball fall to ball seat. With ball on seat, hydraulically set Quantum packer at direction of serviceman.

18) Hold setting pressure 2,200 psi for 5 minutes. Bleed tubing pressure down to 500 psi and hold.

19) Pressure test annulus to minimum 1,000 psi for 5 minutes. Bleed off. Test the Quantum packer by picking up and setting down 20,000 Lbs. weight. Locate neutral weight on packer.

20) Pressure down tubing to 3,400 psi and hold 2 minutes to release service tools from packer. Pick up 18" to locate the lower circulating position. Continue to pickup service tools 9 more feet in order to find reverse position.

21) Hook up Rig Pump casing and reverse out 1-¼" Bakerlite setting ball.

22) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Pick up 18" and the service tool will be in the **Circulating Position**. Mark the string at the surface for this position.

DATAFRAC PUMPING (Step Rate Test followed by Calibration Test):

- **Fill 500 Bbl ECI Tank with 4% KCL (or equal product)**
- **Frac-pack pumpers to supply enough headsets for driller, toolman, and two Nuevo/Torch representatives.**

23) Shift tool to reverse position. Circulate 3360 gals (80 Bbls) WF 130 (Linear 30# gel) down tubing to fill well.

24) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Inject the Data-frac as per design to be finalized after the analysis of open-hole logs. Once the Data-frac has been performed, a fracture treatment will be optimized as the data directs.
While injecting fluids for Data-frac, maintain casing pressure (to be confirmed with Nuevo/Torch representative), preferably at ±1000 psi. Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on 5" lap).

NOTE: Burst rating of 5", 15#, L-80 liner is 11740 psi.

25) Pump Data-frac and StimPac LP-N interval as per Schlumberger procedure.

26) Bleed off workstring and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with $CaBr_2$ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of $CaBr_2$ water.

27) When screen is packed, pull uphole until end of washpipe is above Quantum packer. Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize.

28) Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

Note: If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer (pill material to be decided in discussion with Nuevo engineer).

29) POOH with workstring and LD Quantum crossover tool and washpipe.

StimPac Lower LP-M Interval 11,410' – 11,470' MD

30) Pick up and run in hole with Halliburton tubing conveyed perforating assembly with 3-3/8" guns loaded to perforate 60' of the LP-M Sand (11,410' MD – 11,470' MD). Charges to be 12 SPF, 12 gm, RDX, big hole entry (0.62" dia., 6.08" penetration). Packer Plug and Running tool will be made up on bottom of Halliburton TCP assembly. Plug is to be run *without seals*, and with surge (equalizer) chamber.

- TCP assembly is to be as follows:

  Quantum Packer Plug and Running Tool
  2-3/8" 8rd Pin x 2-7/8" 10rd ACME Crossover
  1' 3-3/8" Blank Spacer
  60' 3-3/8" TCP Gun loaded 12 SPF guns
  2.8' 3-3/8" Blank Spacer
  1-3/8" Ball Drop Firing Head
  2-3/8" 8rd Pin x 2-3/8" PH-6 Box Crossover
  2-3/8" PH-6 tubing above 5" Liner Top and 3-½" PH-6 tubing to surface

  Caution: On all TCP runs, use pipe dope sparingly.

- Do not run wireline correlation log, but instead tag sump packer with bottom of TCP assembly and pick up to desired depth based on pipe tally (to avoid running wireline in deviated hole).

- Find profile in Quantum packer by setting down; snap in with Packer Plug (plug is to protect lower Quantum Packer Bore from perf debris). Pull straight up and shear out to get off with setting tool. Pick up to appropriate depth, getting guns on depth by correlating from Quantum Plug with pipe tally.

31) Prior to perforating, notify production and hold rig floor safety meeting. Drop firing ball down tubing, wait for 1 hour, pressure workstring to 2,500 psi and hold until guns fire.

32) Adjust density of $CaBr_2$ completion fluid as necessary in order to maintain safe wellbore conditions.

33) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, salt or calcium carbonate pill will be considered.

34) Pick up and RIH slowly with the following Quantum 2-3/8" Gravel Pack Assembly and running tools as follows (see attached drawing):

- Quantum Packer Service Tool with Uni-Port Service Tool and 130' 1-¼" FJ P-110 Wash Pipe.
- 5" x 2.688" Quantum Packer (11.5-15ppf) AFLAS
- 5" x 2.688" Extended Circulating Housing w/ Closure Sleeve
- Crossover 2-3/8" 8rd Pin x 3-3/8" 8 Stub ACME Box
- 68' 2-3/8" 4.7 ppf, N-80, SuperMax Blank Pipe (Last section of Blank will have 8rd Box)
- 80' 2-3/8" 4.7 ppf, N-80, SuperMax 12 gauge 316SS/140 Wire Production Screen
- Crossover 2-3/8" 8rd Pin x 2-3/8" Super Max Box
- 5" x 2.688" Snap Latch Locator (2-3/8" 8rd Box)
- 2.688" x 1.812" Lower Zone Multi-Seal Viton Seal Assembly
- 2.688" Self Aligning Guide Shoe

Note: Minimize the use of pipe dope on screen assembly's threads.
Note: On all GP Assembly runs, rabbit all equipment run above Service Tool.
Note: Minimize the use of pipe dope on work string.

35) Before stinging into lower Quantum packer, establish a pick up and slack off weight reference.

36) Snap into and out of Quantum packer to confirm gravel pack assembly is on depth. Snap back into Quantum packer and set down desired weight as directed by serviceman.

Note: Space out workstring to a safe working height on floor prior to snapping into sump packer.

37) Rig up pump skid and test surface lines to 5,000 psi.

38) Establish circulation down workstring. Circulate 5 to 10 Bbls to clean ball seat in setting tool. Drop 1-¼ " Bakerlite Setting Ball, wait 30 minutes to let ball fall to ball seat. With ball on seat, hydraulically set Quantum packer at direction of serviceman.

39) Hold setting pressure 2,200 psi for 5 minutes. Bleed tubing pressure down to 500 psi and hold.

40) Pressure test annulus to minimum 1,000 psi for 5 minutes. Bleed off. Test the Quantum packer by picking up and setting down 20,000 Lbs. weight. Locate neutral weight on packer.

41) Pressure down tubing to 3,400 psi and hold 2 minutes to release service tools from packer. Pick up 18" to locate the lower circulating position. Continue to pickup service tools 9 more feet in order to find reverse position.

42) Hook up Rig Pump casing and reverse out 1-¼" Bakerlite setting ball.

43) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Pick up 18" and the service tool will be in the **Circulating Position**. Mark the string at the surface for this position.

DATAFRAC PUMPING (Step Rate Test followed by Calibration Test):

- **Fill 500 Bbl ECI Tank with 4% KCL (or equal product)**
- **Frac-pack pumpers to supply enough headsets for driller, toolman, and two Nuevo/Torch representatives.**

44) Shift tool to reverse position. Circulate 3318 gals (79 Bbls) WF 130 (Linear 30# gel) down tubing to fill well.

45) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Inject the Data-frac as per design to be finalized after the analysis of open-hole logs. Once the Data-frac has been performed, a fracture treatment will be optimized as the data directs.
While injecting fluids for Data-frac, maintain casing pressure (to be confirmed with Nuevo/Torch representative), preferably at ± 1000 psi. Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on 5" lap).

NOTE: Burst rating of 5", 15#, L-80 liner is 11740 psi.

46) Pump Data-frac and StimPac Lower LP-M interval as per Schlumberger procedure.

47) Bleed off workstring and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with $CaBr_2$ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of $CaBr_2$ water.

48) When screen is packed, pull uphole until end of washpipe is above Quantum packer. Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize.

49) Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

Note: If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer (pill material to be decided in discussion with Nuevo engineer).

50) POOH with workstring and LD Quantum crossover tool and washpipe.

StimPac Upper LP-M Interval 11,255' – 11,295' MD

51) Pick up and run in hole with Halliburton tubing conveyed perforating assembly with 3-3/8" guns loaded to perforate 40' of the LP-M Sand (11,255' MD – 11,295' MD). Charges to be 12 SPF, 12 gm, RDX, big hole entry (0.62" dia., 6.08" penetration). Packer Plug and Running tool will be made up on bottom of Halliburton TCP assembly. Plug is to be run *without seals*, and with surge (equalizer) chamber.

- TCP assembly is to be as follows:

  Quantum Packer Plug and Running Tool
  2-3/8" 8rd Pin x 2-7/8" 10rd ACME Crossover
  1' 3-3/8" Blank Spacer
  40' 3-3/8" TCP Gun loaded 12 SPF guns
  2.8' 3-3/8" Blank Spacer
  1-3/8" Ball Drop Firing Head
  2-3/8" 8rd Pin x 2-3/8" PH-6 Box Crossover
  2-3/8" PH-6 tubing above 5" Liner Top and 3-½" PH-6 tubing to surface

  Caution: On all TCP runs, use pipe dope sparingly.

- Do not run wireline correlation log, but instead tag sump packer with bottom of TCP assembly and pick up to desired depth based on pipe tally (to avoid running wireline in deviated hole).

- Find profile in Quantum packer by setting down; snap in with Packer Plug (plug is to protect lower Quantum Packer Bore from perf debris). Pull straight up and shear out to get off with setting tool. Pick up to appropriate depth, getting guns on depth by correlating from Quantum Plug with pipe tally.

52) Prior to perforating, notify production and hold rig floor safety meeting. Drop firing ball down tubing, wait for 1 hour, pressure workstring to 2,500 psi and hold until guns fire.

53) Adjust density of $CaBr_2$ completion fluid as necessary in order to maintain safe wellbore conditions.

54) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, salt or calcium carbonate pill will be considered.

55) Pick up and RIH slowly with the following Quantum 2-3/8" Gravel Pack Assembly and running tools as follows (see attached drawing):

- Quantum Packer Service Tool with Uni-Port Service Tool and 130' 1-¼" FJ P-110 Wash Pipe.
- 5" x 2.688" Quantum Packer (11.5-15ppf) AFLAS
- 5" x 2.688" Extended Circulating Housing w/ Closure Sleeve
- Crossover 2-3/8" 8rd Pin x 3-3/8" 8 Stub ACME Box
- 60' 2-3/8" 4.7 ppf, N-80, SuperMax Blank Pipe (Last section of Blank will have 8rd Box)
- 80' 2-3/8" 4.7 ppf, N-80, SuperMax 12 gauge 316SS/140 Wire Production Screen
- Crossover 2-3/8" 8rd Pin x 2-3/8" Super Max Box
- 5" x 2.688" Snap Latch Locator (2-3/8" 8rd Box)
- 2.688" x 1.812" Lower Zone Multi-Seal Viton Seal Assembly
- 2.688" Self Aligning Guide Shoe

Note: Minimize the use of pipe dope on screen assembly's threads.
Note: On all GP Assembly runs, rabbit all equipment run above Service Tool.
Note: Minimize the use of pipe dope on work string.

56) Before stinging into lower Quantum packer, establish a pick up and slack off weight reference.

57) Snap into and out of Quantum packer to confirm gravel pack assembly is on depth. Snap back into Quantum packer and set down desired weight as directed by serviceman.

Note: Space out workstring to a safe working height on floor prior to snapping into sump packer.

58) Rig up pump skid and test surface lines to 5,000 psi.

59) Establish circulation down workstring. Circulate 5 to 10 Bbls to clean ball seat in setting tool. Drop 1-¼" Bakerlite Setting Ball, wait 30 minutes to let ball fall to ball seat. With ball on seat, hydraulically set Quantum packer at direction of serviceman.

60) Hold setting pressure 2,200 psi for 5 minutes. Bleed tubing pressure down to 500 psi and hold.

61) Pressure test annulus to minimum 1,000 psi for 5 minutes. Bleed off. Test the Quantum packer by picking up and setting down 20,000 Lbs. weight. Locate neutral weight on packer.

62) Pressure down tubing to 3,400 psi and hold 2 minutes to release service tools from packer. Pick up 18" to locate the lower circulating position. Continue to pickup service tools 9 more feet in order to find reverse position.

63) Hook up Rig Pump casing and reverse out 1-¼" Bakerlite setting ball.

64) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Pick up 18" and the service tool will be in the **Circulating Position**. Mark the string at the surface for this position.

DATAFRAC PUMPING (Step Rate Test followed by Calibration Test):

- **Fill 500 Bbl ECI Tank with 4% KCL (or equal product)**
- **Frac-pack pumpers to supply enough headsets for driller, toolman, and two Nuevo/Torch representatives.**

65) Shift tool to reverse position. Circulate 3318 gals (79 Bbls) WF 130 (Linear 30# gel) down tubing to fill well.

66) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Inject the Data-frac as per design to be finalized after the analysis of open-hole logs. Once the Data-frac has been performed, a fracture treatment will be optimized as the data directs.
While injecting fluids for Data-frac, maintain casing pressure (to be confirmed with Nuevo/Torch representative), preferably at ± 1000 psi. Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on 5" lap).

NOTE: Burst rating of 5", 15#, P-110 liner is 11400 psi.

67) Pump Data-frac and StimPac Upper LP-M interval as per Schlumberger procedure.

68) Bleed off workstring and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with $CaBr_2$ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of $CaBr_2$ water.

69) When screen is packed, pull uphole until end of washpipe is above Quantum packer. Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize.

70) Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

Note: If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer (pill material to be decided in discussion with Nuevo engineer).

71) POOH with workstring and LD Quantum crossover tool and washpipe.

72) RIH with electrical submergible pump (ESP) assembly on 2-7/8" 6.5 ppf 8rd L-80 Tubing to 10,000' (262' above 5" Liner Top).

The production assembly is as follows:

- 400 series ESP Pump Assembly (exact design to be supplied) with ¼" capillary tubing run from surface to the pump suction
- 2 joints 2-7/8", 6.5 ppf, 8rd, L-80 Tubing
- 4-1/2" x 2-7/8" external sensing Pruett chamber
- 1 joint 2-7/8" tubing
- Halliburton "XA" sliding sleeve (Open position)
- ±9300' 2-7/8", 6.5 ppf, 8rd, L-80 Tubing to Halliburton "RDH" Packer w/ Wellstar SCS safety system
- 2-7/8" tubing to ~500' MD
- 2-7/8" tubing to wellhead. All tubing will be 2-7/8", 6.5#, EUE, N-80. (NOTE: This 2-7/8" is good for 145,000# tension when new - ensure string weight after drag added is less than this rating.) Banded to tubing will be one #2 ESP cable, ¼" chemical injection line (ESP pump suction to surface), 1/8" capillary tubing (Pruett chamber to surface), and SCSSV control line (packer to surface).

Note: Do not set packer.

73) Land tubing in hanger. Pressure test tubing hanger. Set BPV. Hookup SCSSV hydraulic line.

74) ND BOPE. NU and test tree.

75) Rig up to pump seawater down tubing thru the open "XA" sliding sleeve while taking returns through casing valve. Keep SCSSV open by applying control line pressure.

76) Open casing Valve and circulate 13.3 PPG $CaBr_2$ water out of well with seawater utilizing a 25 Bbl gelled seawater Push Pill by pumping through 2-7/8" tubing. Apply back pressure at surface to offset the hydrostatic pressure loss of filling hole with seawater ($\pm$2,000 psi) when well if full of seawater.

Note:

- **Clean and filter recovered $CaBr_2$ brine with DE filter unit prior to storing for future use.**
- **Store all of the recovered 13.3 PPG $CaBr_2$ water in surface ECI Tanks and Mud Pits.**
- **Keep all recovered $CaBr_2$ water heavier than 11.2 PPG in separate tanks or MPT's.**

77) Make up Sliding Sleeve Shifting Tool on slickline, RIH and close "XA" Sliding Sleeve located 2 joints above ESP. POOH and rig down Slickline Unit.

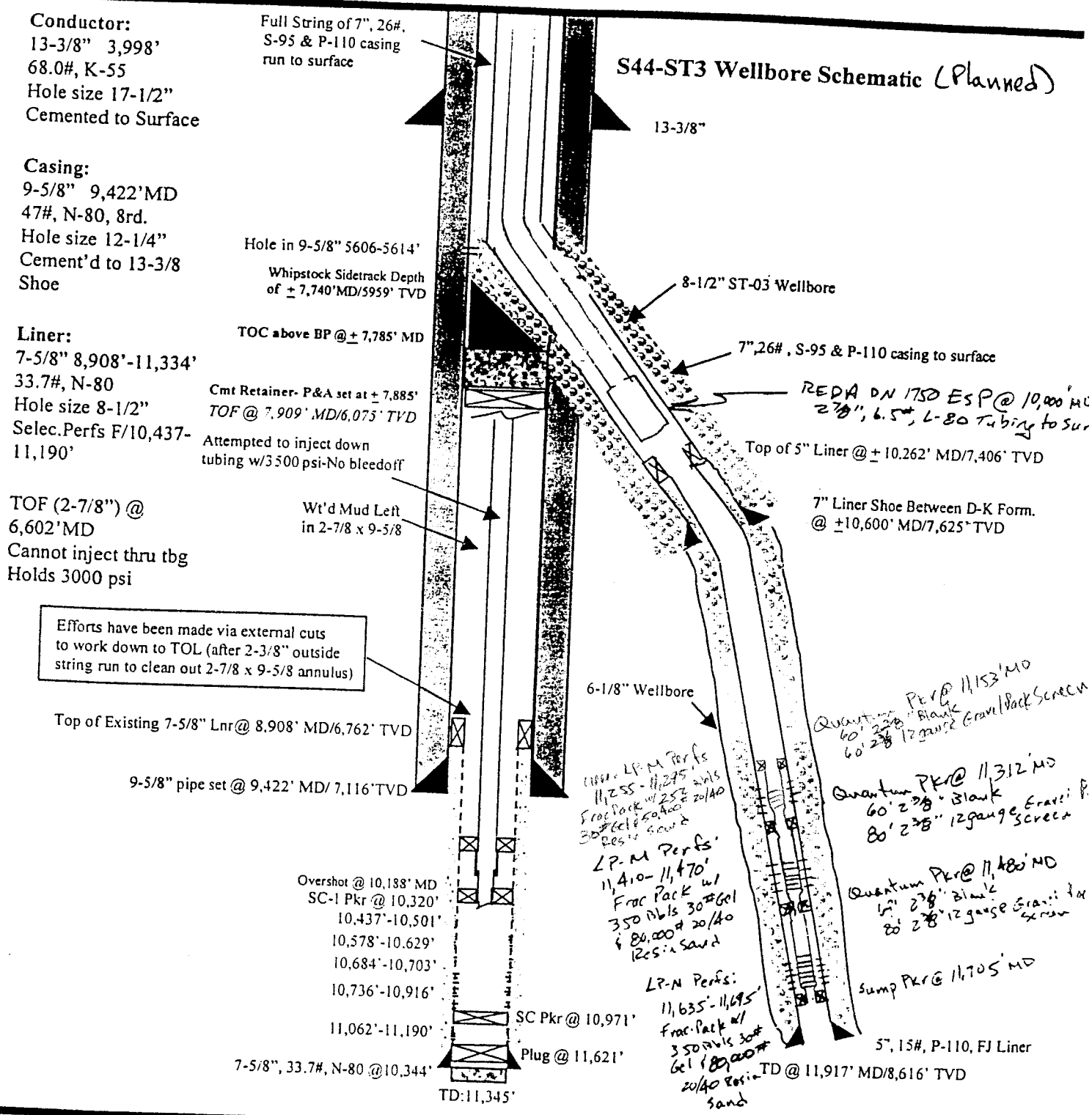
78) Begin pumping well per engineering direction, with low initial drawdown. Set packer within 48 hours. Keep well on platform hot sheet until well load fluids are recovered and well settles into a stabilized producing condition. Fax copies of the hot sheet to Nuevo engineer as required.

Operator: Torch Ope ng Company
Field: Santa Clara Field
Well: S44-ST03
Location: OCS-P 0216
API#: 04-311-20610-03/S01

Spud . ate: 2001
KB: 107'
County:

Geological Marker: Lwr Repetto

S44-ST3 Wellbore Schematic (Planned)



Releasable to public
Name: SRH Date: 5/13/13

MINERALS MANAGEMENT SERV.
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies w.
one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL / CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20610-03/S01	S-44	NUEVO ENERGY 1800 30th St., Suite 200 Bakersfield, CA 93301

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

COPY TO REGION

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK								34. WELL STATUS/ TYPE CODE
	ACIDIZE		FRACTURE		PLUG BACK		WORKOVER		
REQUEST	ALTER CASING		INITIAL COMPLETION	X	PULL CASING		OTHER		
APPROVAL X	ARTIFICIAL LIFT		MULTICOMPLETION		RECOMPLETION				COM/POW
	CHANGE ZONE		PERFORATE		SIDETRACT	X			
SUBSEQUENT REPORT	DEEPEN		PERM ABANDONMT		TEMPORARY ABANDONMENT				

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach

Please see the attached information for details o

CANCELLED

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MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

Post-it® Fax Note 7671 | Date 7/30/01 | # of pages ▶ 1

To SABRINA MILLER	From KELLY SIDDON
Co./Dept. NUEVO ENERGY	Co. MMS CAMD
Phone # (661) 395-5198	Phone # (805) 389-7715
Fax # (661) 395-5297	Fax # (805) 389-7781

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name) Sabrina J. Miller	29. TITLE as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE Sabrina J. Miller	31. DATE 010726

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 7/30/01

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NUEVO ENERGY COMPANY
Santa Clara Field, Offshore California
OCS-P-0216
Platform Gilda
Well # S-44

COMPLETION PROCEDURE

PROCEDURE SUMMARY:

A) Changeover to seawater, clean casing, and changeover to 13.3 PPG $CaBr_2$ brine.

B) TCP 60 ft of perforations in LP-N with 500 psi underbalance.

C) Run 80 ft of 2-3/8" wire wrapped stainless screen, set, and frac-pack LP-N sand.

D) TCP 60 ft of perforations in LP-M with 500 psi underbalance.

E) Run 80 ft of 2-3/8" wire-wrapped stainless screen, stack on top of first screen, and frac-pack LP-M.

F) Put on production as ESP pumping and gravel packed LP-M, LP-N oil producer.

Tubular Capacities

	Size	Interval	Wt	ID	Drift	Bbl/ft	Hole Vol (bbl)
Cond. Csg	20"	0 - 715'	106.5#	19.000"	18.812"	0.3506	---
Inter. Csg	13-3/8"	0 - 3,998'	68.0	12.415"	12.259"	0.1497	---
Prod. Csg	7"	0 –10,600'	26.0	6.276"	6.151"	0.0382	392*
Prod. Liner	5"	10,262'-11,917'	15.0	4.408"	4.283"	0.0188	29*
							421* bbl

* Actual well volume based upon well records: 5" FC @ 11,823' & Liner Top @ 10,262'

PROCEDURE:

1) Rig up electric line logging unit and run CBT-USIT log inside 5", 15#, P-110 Liner from float collar at 11,823' to liner top at 10,262'. Evaluate logs and cement squeeze as required.

2) RIH with 4-¼" bit on 3-½" (10,023') and 2-3/8" (1,800') PH-6 workstring to float collar at 11,823'. Circulate out seawater and continue to circulate with filtered sea water and gel sweeps as required, until returns run clear. **Clean fill to PBTD.**

3) Rig up acid pump skid and pump a 4 bbl freshwater spacer (to prevent contamination of $CaBr_2$) and then 1,000 gal. 15% HCL tubing pickle acid mixture to within 2 joints of the packer (calculate

capacity of 3-½" and 2-3/8" PH-6 work string). Reverse out at maximum rate to well clean tank. Send to production system at a slow enough rate to allow dilution to minimize handling problems at Mandalay. POOH with bit.

4) Begin cleaning active and reserve pits with caustic wash as required as soon as seawater returns are clean.

5) RIH with 4-¼" bit, 5" all-weight casing scraper, 5" Brush Tool, 1,800' 2-3/8" PH-6 tubing, 7" all-weight casing scraper, 7" Brush Tool, 5,000' 3-½" PH-6 tubing, 7" Brush Tool, and 5, 3-½" PH-6 tubing. Scrape 7" casing to 10,262' liner top and 5" liner to 11,823' PBTD. Pump cleaning pills and seawater sweeps while recipricating and rotating scrapers in the hole. Continue pumping filtered seawater until returns run clear. POOH with scrapers.

4) Fill active pit, reserve pit, and one steam cleaned Baker tank with 13.3 PPG $CaBr_2$ water. Displace seawater from tubing and casing. Rig up DE filter press and filter entire system to 20 NTU or less. Consult with duty engineer if turbidity appears to be from dissolved material (i.e., rust). POOH with scrapers.

5) RIH w/ 5" sump packer on work string and set at 11,705' MD. Coorelate packer on depth using R/A sub in workstring by logging with GR-CCL. Coorelate GR-CCL with CBL-USIT log.

6) Pick up and run in hole with Halliburton tubing conveyed perforating assembly with 3-3/8" guns loaded to perforate 60' of the LP-N Sand (11,635' MD – 11,695' MD). Charges to be 12 SPF, 12 gm, RDX, big hole entry (0.62" dia., 6.08" penetration).

- TCP assembly is to be as follows:

  Quantum Snap-Latch Asembly
  2-3/8" 8rd Pin x 2-7/8" 10rd ACME Crossover
  1' 3-3/8" Blank Spacer
  60' 3-3/8" TCP Gun loaded 12 SPF guns
  2.8' 3-3/8" Blank Spacer
  Time Delay Firing Head
  1 joint 2-3/8" 4.7 ppf, 8rd Tubing
  Fill Disc Assembly
  2 joints 2-3/8" 4.7 ppf, 8rd Tubing
  5" Champ III packer
  Big John hydraulic jars
  2-3/8" 8rd x 2-3/8" PH-6 Crossover
  2-3/8" PH-6 tubing above 5" Liner Top and 3-½" PH-6 tubing to surface

  Caution: On all TCP runs, use pipe dope sparingly.

- Do not run wireline correlation log, but instead tag sump packer with bottom of TCP assembly and pick up to desired depth based on pipe tally (to avoid running wireline in deviated hole).

- Measure drag by picking up string. Set Champ III packer by picking up, turning right 1/4 turn at the tool to un-jay, and setting down 20,000# +- at the tool.

- Pick up on workstring to open by-pass and fill workstring with 78 Bbls of filtered seawater. Lower workstring to set 20,000 lbs weight on packer. Pressure annulus to 500 psi and hold.

7) Make up Halliburton surface flow equipment to flow well either to test trap or straight to production system. Pressure test Halliburton surface flow equipment to 7,000 psi.

8) Prior to perforating, notify production and hold rig floor safety meeting. Pressure workstring to 6,200 psi and hold for one minute, bleed off pressure to 2,600 psi in order to apply 500 psi underbalance at the top perforation. Guns should detonate 12 minutes after pressure activation.

9) When guns fire, record SI pressure, open well and flow at reduced rate for 30 minutes in order to clean up perf debris. Monitor well with bubble bucket.

10) Adjust density of $CaBr_2$ completion as necessary to establish 200 psi overbalance.

11) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, salt or calcium carbonate pill will be considered.

12) Pick up and RIH slowly with the following Quantum 2-3/8" Gravel Pack Assembly and running tools as follows (see attached drawing):

- Quantum Packer Service Tool with high rate cross over and 190' 1-½" FJ Wash Pipe.
- 5" x 2.688" Quantum Packer (11.5-15ppf) AFLAS
- 5" x 2.688" Extended Circulating Housing w/ Closure Sleeve
- 2-3/8" SuperMax Pin x 3-½" 8rd Box Crossover
- 117' 2-3/8" 4.7 ppf, N-80, SuperMax Blank Pipe
- 80' 2-3/8" 4.7 ppf, N-80, SuperMax 12 gauge 316SS/140 Wire Production Screen
- 2-3/8" 8rd Pin x 2-3/8" Super Max Box Crossover
- 5" x 2.688" Snap Latch Locator
- 2.688" Viton Seal Unit
- 2.688" Guide Shoe

Note: Minimize the use of pipe dope on screen assembly's threads.
Note: On all GP Assembly runs, rabbit all equipment run above Service Tool.
Note: Minimize the use of pipe dope on work string.

13) Before stinging into sump packer, establish a pick up and slack off weight reference.

14) Snap into and out of sump packer to confirm gravel pack assembly is on depth. Snap back into sump packer and set down desired weight as directed by serviceman.

Note: Space out workstring to a safe working height on floor prior to snapping into sump packer.

15) Rig up the frac-pack surface pumping equipment and test surface lines to 8,000 psi (In order to achieve the best control of pump rates and pressures while setting the Quantum packer, it is advised that the DS cement pump skid on the platform be used during this operation.)

16) Establish circulation down workstring. Circulate 5 to 10 Bbls to clean ball seat in setting tool. Drop 1" brass packer setting ball, the ball may need to be pumped to the ball seat. With ball on seat, hydraulically set Quantum packer at direction of serviceman.

17) Hold setting pressure 2,200 psi for 10 minutes. Bleed tubing pressure down to 500 psi and hold.

18) Pressure test annulus to minimum 1,500 psi for 5 minutes. Bleed off. Test the Quantum packer by picking up and setting down weight. Locate neutral weight on packer.

19) Pressure down tubing to 3,400 psi and hold 2 minutes, this will release the service tool. Bleed off.

20) While holding 500 psi on the annulus, slowly pick up crossover tool until pressure indication is noted. This is the reverse position. Mark tubing at surface.

Note: If crossover tool is not released from the packer , rotate 15 turns to the right to actuate back-up release.

21) Continue to pressure up to 5,000 psi in order to shearout ball seat.

22) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Pick up 1.5' and the service tool will be in the **Circulating Position**. Mark the string at the surface for this position.

DATAFRAC PUMPING (Step Rate Test followed by Calibration Test):

- **Fill 500 Bbl ECI Tank with 4% KCL (or equal product)**
- **Frac-pack pumpers to supply enough headsets for driller, toolman, and two Nuevo/Torch representatives.**

23) Shift tool to reverse position. Circulate 3318 gals (79 Bbls) YF130LGD **(XLK 30# gel)** (Workstring capcity + 1 Bbl.) the following Mini-frac fluids to the gravel pack packer in the reverse position. **Expect the same shut-in tubing pressure as that seen directly after perforating.**

24) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Inject the Data-frac as per design to be finalized after the analysis of open-hole logs. Once the Data-frac has been performed, a fracture treatment will be optimized as the data directs. *While injecting fluids for Data-frac, maintain casing pressure (to be confirmed with Nuevo/Torch representative), preferably at 1000 psi or more. Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on 5" lap).*

NOTE: Burst rating of 5", 15#, L-80 liner is 117400 psi.

Data-frac Fluid requirements: Base fluid 4% KCL stored in ECI Tanks on Drill Deck

2016 gals	48 Bbls	WF 130 (Linear 30# gel) Step Rate Test fluid
3654 gals	87 Bbls	YF130LGD **(XLK 30# gel)** Calibration Test fluid (X-linked)
1344 gals	32 Bbls	YF130LGD **(XLK 30# gel)** Step-Down Test fluid
3318 gals	79 Bbls	YF130LGD **(XLK 30# gel)** Flush (Workstring capcity + 1 Bbl.)

Note: The volumes of fluids may be altered slightly if this would benefit operation of tools and/or pumping, or for a significantly different perforated interval. An additional volume of fluid should be accounted for tank dead volume and 20% excess for contingency requirements.

Step Rate Test (2 minutes per stage with linear gel) :

1 BPM	2 Bbls
2 BPM	4 Bbls
3 BPM	6 Bbls
4 BPM	8 Bbls
6 BPM	12 Bbls
8 BPM	16 Bbls
Total:	48 Bbls

Calibration Test - 119 Bbls YF120LG at 8 BPM
displace with YF130LGD **(XLK 30# gel)** down to tools and Shut down and monitor pressure fall off. Do not alter the pressure on the casing or work string.

Step-Down Test (2 minutes per stage with crosslinked gel) :

6 BPM	12 Bbls
4 BPM	8 Bbls
3 BPM	6 Bbls
2 BPM	4 Bbls
1 BPM	2 Bbls
Total:	32 Bbls

Notes:

1. Add another Calibration test or step rate test as necessary.

2. The above schedule is only recommended volumes and can be altered as necessary to suit the formation response.

FRAC-PACK PUMPING:

The following is the Pumping Schedule to achieve a propped fracture half-length (X_f) of 69.5 ft with an average conductivity (K_fw) of 6067 md.ft.

Job Description						
Stage Name	**Pump Rate** (bbl/min)	**Fluid Name**	**Stage Fluid Volume** (bbl)	**Gel Conc.** (lb/mgal)	**Prop. Type and Mesh**	**Prop. Conc.** (PPA)
PAD	12.0	YF130LGD	50	30.0		0.0
1.0 PPA	12.0	YF130LGD	38	30.0	20/40 Econop	1.0
3.0 PPA	12.0	YF130LGD	17	30.0	20/40 Econop	3.0
4.0 PPA	12.0	YF130LGD	24	30.0	20/40 Econop	4.0
5.0 PPA	12.0	YF130LGD	30	30.0	20/40 Econop	5.0
6.0 PPA	12.0	YF130LGD	30	30.0	20/40 Econop	6.0
7.0 PPA	12.0	YF130LGD	30	30.0	20/40 Econop	7.0
8.0 PPA	12.0	YF130LGD	35	30.0	20/40 Econop	8.0
9.0 PPA	12.0	YF130LGD	48	30.0	20/40 Econop	9.0
10.0 PPA	12.0	YF130LGD	47	30.0	20/40 Econop	10.0
flush	12.0	WF130	164	20.0		0.0

Fluid Totals		
348 BBL	of	YF130LGD
164 BBL	of	13.3 PPG $CaBr_2$

Proppant Totals		
80000 lb	of	20/40 EconoProp

Notes:

1. Maintain casing pressure (to be confirmed with Nuevo/Torch representative), preferably at 1000 psi or more during pumping of the stimpack. ***Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on5", 15#, L-80 liner lap).***

2. Sand silo to be loaded with enough excess Proppant (+- 5,000 lbs. excess) so that total Proppant amount designed can be pumped at design rates.

3. Rate will be ramped down during flush if tip screen out pressure response is not obtained. Actual rates will be determined after the data-frac.

4. Pressure limits while reversing must be discussed before pumping starts. Use the following as a reference to hydrostatic pressure that may be encountered.

10.0 ppa slurry has a density of 12.67 PPG
8.0 ppa slurry has a density of 12.06 PPG
6.0 ppa slurry has a density of 11.35 PPG

5. **MINIMIZE TIME after shut down to start reverse circulation - no more than 10 minutes. Do NOT over-displace.**
6. **Frac job must be circulated down to 1 Bbl past packer, shut down and sting into service tool.**

25) Bleed off workstring and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with $CaBr_2$ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of $CaBr_2$ water.

26) When screen is packed, pull uphole until end of washpipe is above Quantum packer. Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize.

27) Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

Note: If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer (pill material to be decided in discussion with Nuevo engineer).

28) POOH with workstring and LD Quantum crossover tool and washpipe.

29) Pick up and run in hole with Halliburton tubing conveyed perforating assembly with 3-3/8" guns loaded to perforate 60' of the LP-M Sand (11,410' MD – 11,470' MD). Charges to be 12 SPF, 12 gm, RDX, big hole entry (0.62" dia., 6.08" penetration). Packer Plug and Running tool will be made up on bottom of Halliburton TCP assembly. Plug is to be run *without seals*, and with surge (equalizer) chamber.

- TCP assembly is to be as follows:

Quantum Snap-Latch Asembly
2-3/8" 8rd Pin x 2-7/8" 10rd ACME Crossover
1' 3-3/8" Blank Spacer
60' 3-3/8" TCP Gun loaded 12 SPF guns
2.8' 3-3/8" Blank Spacer
Time Delay Firing Head
1 joint 2-3/8" 4.7 ppf, 8rd Tubing
Fill Disc Assembly
2 joints 2-3/8" 4.7 ppf, 8rd Tubing
5" Champ III packer
Big John hydraulic jars
2-3/8" 8rd x 2-3/8" PH-6 Crossover
2-3/8" PH-6 tubing above 5" Liner Top and 3-½" PH-6 tubing to surfac

Caution: On all TCP runs, use pipe dope sparingly.

- Find profile in Quantum packer by setting down; snap in with Packer Plug (plug is to protect lower Quantum Packer Bore from perf debris). Pull straight up and shear out to get off with setting tool. Pick up to appropriate depth, getting guns on depth by correlating from Quantum Plug with pipe tally.

- Measure drag by picking up string. Set Champ III packer by picking up, turning right 1/4 turn at the tool to un-jay, and setting down 20,000# +- at the tool.

- Pick up on workstring to open by-pass and fill workstring with 78 Bbls of filtered seawater. Lower workstring to set 20,000 lbs weight on packer. Pressure annulus to 500 psi and hold.

30) Make up Halliburton surface flow equipment to flow well either to test trap or straight to production system. Pressure test Halliburton surface flow equipment to 7,000 psi.

31) Prior to perforating, notify production and hold rig floor safety meeting. Pressure workstring to 6,200 psi and hold for one minute, bleed off pressure to 2,600 psi in order to apply 500 psi underbalance at the top perforation. Guns should detonate 12 minutes after pressure activation.

32) When guns fire, record SI pressure, open well and flow at reduced rate for 30 minutes in order to clean up perf debris. Monitor well with bubble bucket.

33) Adjust density of $CaBr_2$ completion as necessary to establish 200 psi overbalance.

34) POOH with TCP assembly. Monitor trip tank. If fluid loss pill becomes necessary an HEC, salt or calcium carbonate pill will be considered.

35) RIH with casing scraper and Packer Plug retrieving tool on workstring. Circulate perf debris off Packer Plug retrieving neck *and all the way out to surface*. Set down Packer Plug fishing neck; wait for any pressure to equalize from below. After fluid returns are clear of debris, pull plug with straight pickup and POOH.

36) Pick up and RIH slowly with the following Quantum 2-3/8" Gravel Pack Assembly and running tools as follows (see attached drawing):

- Quantum Packer Service Tool with high rate cross over and 133' 1-½" FJ Wash Pipe.
- 5" x 2.688" Quantum Packer (11.5-15ppf) AFLAS
- 5" x 2.688" Extended Circulating Housing w/ Closure Sleeve
- 2-3/8" SuperMax Pin x 3-½" 8rd Box Crossover
- 60' 2-3/8" 4.7 ppf, N-80, SuperMax Blank Pipe
- 80' 2-3/8" 4.7 ppf, N-80, SuperMax 12 gauge 316SS/140 Wire Production Screen
- 2-3/8" 8rd Pin x 2-3/8" Super Max Box Crossover
- 5" x 2.688" Snap Latch Locator
- 2.688" Viton Seal Unit
- 2.688" Guide Shoe

Note: Minimize the use of pipe dope on screen assembly's threads.

Note: On all GP Assembly runs, rabbit all equipment run above Service Tool.
Note: Minimize the use of pipe dope on work string.

37) Before stinging into sump packer, establish a pick up and slack off weight reference.

38) Snap into and out of lower 5" Quantum Packer to confirm gravel pack assembly is on depth. Snap back into packer and set down desired weight as directed by Schlumberger serviceman.

39) Rig up pump skid and test surface lines to 8,000 psi (In order to achieve the best control of pump rates and pressures while setting the Quantum packer, it is advised that the DS cement pump skid on the platform be used during this operation.)

40) Establish circulation down workstring. Circulate 5 to 10 Bbls to clean ball seat in setting tool. Drop 1" brass packer setting ball, the ball may need to be pumped to the ball seat. With ball on seat, hydraulically set Quantum packer at direction of serviceman.

41) Hold setting pressure 2,200 psi for 10 minutes. Bleed tubing pressure down to 500 psi and hold.

42) Pressure test annulus to minimum 1,500 psi for 5 minutes. Bleed off. Test the Quantum packer by picking up and setting down weight. Locate neutral weight on packer.

43) Pressure down tubing to 3,400 psi and hold 2 minutes, this will release the service tool. Bleed off.

44) While holding 500 psi on the annulus, slowly pick up crossover tool until pressure indication is noted. This is the reverse position. Mark tubing at surface.

Note: If crossover tool is not released from the packer , rotate 15 turns to the right to actuate back-up release.

45) Continue to pressure up to 5,000 psi in order to shearout ball seat.

46) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Pick up 1.5' and the service tool will be in the **Circulating Position**. Mark the string at the surface for this position.

DATAFRAC PUMPING (Step Rate Test followed by Calibration Test):

- **Fill 500 Bbl ECI Tank with 4% KCL (or equal product)**
- **Frac-pack pumpers to supply enough headsets for driller, toolman, and two Nuevo/Torch representatives.**

47) Shift tool to reverse position. Circulate 3276 gals (78 Bbls) YF130LGD **(XLK 30# gel)** (Workstring capcity + 1 Bbl.) the following Mini-frac fluids to the gravel pack packer in the reverse position. **Expect the same shut-in tubing pressure as that seen directly after perforating.**

48) Lower service tool and place desired weight on packer. The service tool position will in the **Squeeze Position**. Inject the Data-frac as per design to be finalized after the analysis of open-hole logs. Once the Data-frac has been performed, a fracture treatment will be optimized as the data directs.

While injecting fluids for Data-frac, maintain casing pressure (to be confirmed with Nuevo/Torch representative), preferably at 1000 psi or more. Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on 5" lap).

NOTE: Burst rating of 5", 15#, L-80 liner is 117400 psi.

Data-frac Fluid requirements: Base fluid 4% KCL stored in ECI Tanks on Drill Deck

2016 gals	48 Bbls	WF 130 (Linear 30# gel) Step Rate Test fluid
3654 gals	87 Bbls	YF130LGD **(XLK 30# gel)** Calibration Test fluid (X-linked)
1344 gals	32 Bbls	YF130LGD **(XLK 30# gel)** Step-Down Test fluid
3276 gals	78 Bbls	YF130LGD **(XLK 30# gel)** Flush (Workstring capcity + 1 Bbl.)

Note: The volumes of fluids may be altered slightly if this would benefit operation of tools and/or pumping, or for a significantly different perforated interval. An additional volume of fluid should be accounted for tank dead volume and 20% excess for contingency requirements.

Step Rate Test (2 minutes per stage with linear gel) :

1 BPM	2 Bbls
2 BPM	4 Bbls
3 BPM	6 Bbls
4 BPM	8 Bbls
6 BPM	12 Bbls
8 BPM	16 Bbls
Total:	48 Bbls

Calibration Test - 119 Bbls YF120LG at 8 BPM
displace with YF130LGD **(XLK 30# gel)** down to tools and Shut down and monitor pressure fall off. Do not alter the pressure on the casing or work string.

Step-Down Test (2 minutes per stage with crosslinked gel) :

6 BPM	12 Bbls
4 BPM	8 Bbls
3 BPM	6 Bbls
2 BPM	4 Bbls
1 BPM	2 Bbls
Total:	32 Bbls

Notes:

1. **Add another Calibration test or step rate test as necessary.**

2. **The above schedule is only recommended volumes and can be altered as necessary to suit the formation response.**

FRAC-PACK PUMPING:

The following is the Pumping Schedule to achieve a propped fracture half-length (X_f) of 69.5 ft with an average conductivity (K_fw) of 6067 md.ft.

Job Description						
Stage Name	**Pump Rate** (bbl/min)	**Fluid Name**	**Stage Fluid Volume** (bbl)	**Gel Conc.** (lb/mgal)	**Prop. Type and Mesh**	**Prop. Conc.** (PPA)
PAD	12.0	YF130LGD	50	30.0		0.0
1.0 PPA	12.0	YF130LGD	38	30.0	20/40 Econop	1.0
3.0 PPA	12.0	YF130LGD	17	30.0	20/40 Econop	3.0
4.0 PPA	12.0	YF130LGD	24	30.0	20/40 Econop	4.0
5.0 PPA	12.0	YF130LGD	30	30.0	20/40 Econop	5.0
6.0 PPA	12.0	YF130LGD	30	30.0	20/40 Econop	6.0
7.0 PPA	12.0	YF130LGD	30	30.0	20/40 Econop	7.0
8.0 PPA	12.0	YF130LGD	35	30.0	20/40 Econop	8.0
9.0 PPA	12.0	YF130LGD	48	30.0	20/40 Econop	9.0
10.0 PPA	12.0	YF130LGD	47	30.0	20/40 Econop	10.0
flush	12.0	WF130	164	20.0		0.0

Fluid Totals		
348 BBL	of	YF130LGD
164 BBL	of	13.3 PPG $CaBr_2$

Proppant Totals		
80000 lb	of	20/40 EconoProp

Notes:

1. **Maintain casing pressure (to be confirmed with Nuevo/Torch representative), preferably at 1000 psi or more during pumping of the stimpack.** ***Casing pressure should be limited to 300 psi below Drilling's lap test pressures (verify Drilling's lap test pressures on5", 15#, L-80 liner lap).***

2. **Sand silo to be loaded with enough excess Proppant (+- 5,000 lbs. excess) so that total Proppant amount designed can be pumped at design rates.**

3. **Rate will be ramped down during flush if tip screen out pressure response is not obtained. Actual rates will be determined after the data-frac.**

4. **Pressure limits while reversing must be discussed before pumping starts. Use the following as a reference to hydrostatic pressure that may be encountered.**

10.0 ppa slurry has a density of 12.67 PPG
8.0 ppa slurry has a density of 12.06 PPG
6.0 ppa slurry has a density of 11.35 PPG

7. **MINIMIZE TIME after shut down to start reverse circulation - no more than 10 minutes. Do NOT over-displace.**
8. **Frac job must be circulated down to 1 Bbl past packer, shut down and sting into service tool.**

49) Bleed off workstring and adjust annulus pressure to 500 psi. Shift to the reverse position to reverse out excess slurry with the rig pumps, with $CaBr_2$ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of $CaBr_2$ water.

50) When screen is packed, pull uphole until end of washpipe is above Quantum packer. Fluid loss may occur after the crossover tool has been removed from the packer bore. Close the annular BOP and allow the well to stabilize.

51) Monitor the well for fluid loss. Open the annular BOP. Pull out of hole with the crossover tool and washpipe.

Note: If fluid loss still exceeds an acceptable rate, spot a pill of at least 1 screen volume in the casing above the gravel pack packer (pill material to be decided in discussion with Nuevo engineer).

52) POOH and laydown workstring and LD Quantum crossover tool and washpipe.

53) RIH with electrical submergible pump (ESP) assembly on 2-7/8" 6.5 ppf 8rd L-80 Tubing to 10,000' (262' above 5" Liner Top).

Note: In order for the ESP pump to operate, a 2.313" I.D. Profile Nipple will be run inside the 2-7/8" tail pipe 2 joints above bottom at 10,900' MD. A Blanking Plug will be set in this profile prior to starting pump.

54) The production assembly is as follows:
- 400 series ESP Pump Assembly (exact design to be supplied) with ¼" capillary tubing run from surface to the pump suction
- 2 joints 2-7/8", 6.5 ppf, 8rd, L-80 Tubing
- 4-1/2" x 2-7/8" external sensing Pruett chamber
- 1 joint 2-7/8" tubing
- Halliburton "XO" sliding sleeve (Open position)
- ± 9300' 2-7/8", 6.5 ppf, 8rd, L-80 Tubing to Halliburton "RH" Packer w/ Wellstar SCS safety system
- 2-7/8" tubing to ~500' MD
- 2-7/8" tubing to wellhead. All tubing will be 2-7/8", 6.5#, EUE, N-80. (NOTE: This 2-7/8" is good for 145,000# tension when new - ensure string weight after drag added is less than this

rating.) Banded to tubing will be one #2 ESP cable, ¼" chemical injection line (ESP pump suction to surface), 1/8" capillary tubing (Pruett chamber to surface), and SCSSV control line (packer to surface).

Note: Do not set packer.

55) Land tubing in hanger. Pressure test tubing hanger. Set BPV. Hookup SCSSV hydraulic line.

56) ND BOPE. NU and test tree.

57) Rig up to pump seawater down tubing thru the open "XO" sliding sleeve while taking returns through casing valve. Keep SCSSV open by applying control line pressure.

58) Open casing Valve and circulate 13.3 PPG $CaBr_2$ water out of well with seawater utilizing a 25 Bbl gelled seawater Push Pill by pumping through 2-7/8" tubing. Apply back pressure at surface to offset the hydrostatic pressure loss of filling hole with seawater (±2,000 psi) when well if full of seawater.

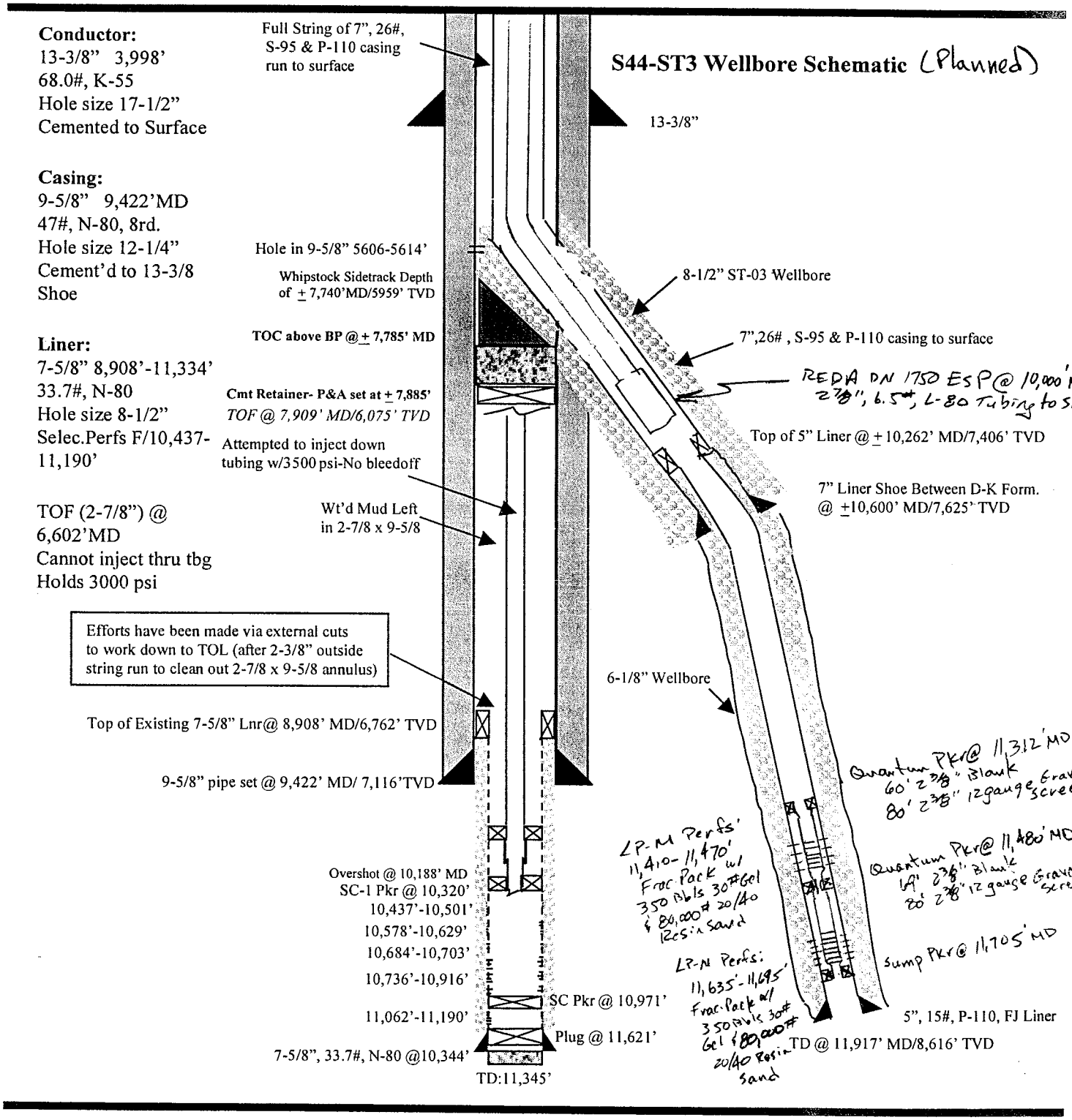
Note:

- **Clean and filter recovered $CaBr_2$ brine with DE filter unit prior to storing for future use.**
- **Store all of the recovered 13.3 PPG $CaBr_2$ water in surface ECI Tanks and Mud Pits.**
- **Keep all recovered $CaBr_2$ water heavier than 11.2 PPG in separate tanks or MPT's.**

59) Make up Sliding Sleeve Shifting Tool on slickline, RIH and close "XO" Sliding Sleeve located 3 joints above ESP. POOH and rig down Slickline Unit.

60) Begin pumping well per engineering direction, with low initial drawdown. Set packer within 48 hours. Keep well on platform hot sheet until well load fluids are recovered and well settles into a stabilized producing condition. Fax copies of the hot sheet to Nuevo engineer as required.

Operator:	Torch Operating Company	**Spud Date:**	2001
Field:	Santa Clara Field	**KB:**	107'
Well:	S44-ST03	**County:**	
Location:	OCS-P 0216		
API#:	04-311-20610-03/S01	**Geological Marker: Lwr Repetto**	



TRANSMISSION VERIFICATION REPOF

TIME : 07/30/2001 03:56

DATE,TIME	07/30 03:55
FAX NO./NAME	816613955297
DURATION	00:00:32
PAGE(S)	01
RESULT	OK
MODE	STANDARD ECM

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL ____ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20590-00/S01	S-44	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	1800 30th St., Suite 200
Santa Clara	891012369A	01546	Bakersfield, CA 93301

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
APPROVAL X	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		COM/POW
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT X		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see the attached information for details.

RECEIVED

APR 10 2001

MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Sabrina J. Miller	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
Sabrina J. Miller	010406

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 4/10/01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

NUEVO ENERGY COMPANY
SANTA CLARA FIELD - PLATFORM GILDA
S-44 ST DRILLING PROGRAM – REVISION 3
REDRILL OF S-44

April 6, 2001

Operations completed:

1) Tested above hole in 9 5/8" casing at 5606' – 5614' to 1,000 psi and confirm pipe integrity. Set packer @ 5645'. Tested casing breech to 11.1# EMW LOT.
2) Set a cement retainer at 7885'. Attempted to squeeze below a 500 linear foot cement plug. Pressured to 2500 psi – unsuccessful in injecting below retainer.

Operations proposed:

1) A 9 5/8" cement retainer was set @ 7885' MD and tested with 25k # down weight. As per verbal discussion between Brent Martin and Rishi Tyagi @ 2400 hrs 04/06/01, the 50' linear plug will be increased two-fold (100' length) and dropped on top of retainer to isolate old S-44ST02 wellbore.
2) Since the objective LOT valve of 11.8 ppg MWE was not realized in the test, the casing breech will be squeeze cemented and retested.
3) The sidetrack depth will move up to a slightly higher depth of +/- 7740' MD.
4) After drilling to a measured depth of +/- 10400' MD (above the LP-K), a 7" liner will be run instead of 7 5/8" liner from +/- 5300' – 10,400' MD. The slightly smaller size will facilitate easier passage of the liner through the squeeze-cemented breech.
5) A 6 1/8" hole or smaller will be drilled to a total depth of +/- 12,000' MD (below the LP-N formation). The EWL unit will be rigged up and logs run.
6) If hydrocarbons are present in commercial quantities, a 5" liner will be installed and cemented.

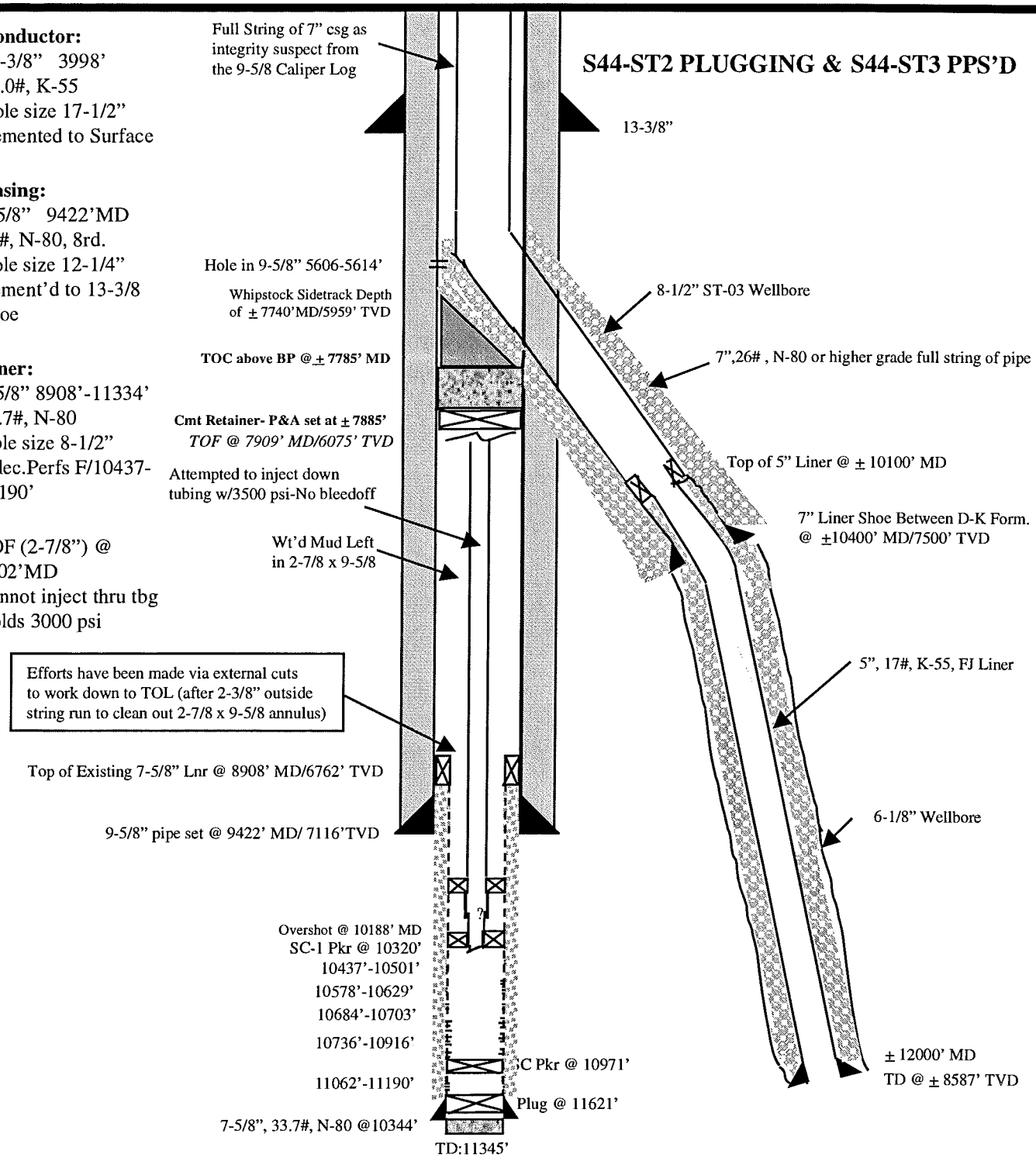
Operator:	Torch Operating Company	**Spud Date:**	2001
Field:	Santa Clara Field	**KB:**	107'
Well:	S44-ST03	**County:**	Kern
Location:	OCS-P 0216		
API#:	04-311-20610-03/S01	**Geological Marker: Lwr Repetto**	

Conductor:
13-3/8" 3998'
68.0#, K-55
Hole size 17-1/2"
Cemented to Surface

Casing:
9-5/8" 9422'MD
47#, N-80, 8rd.
Hole size 12-1/4"
Cement'd to 13-3/8 Shoe

Liner:
7-5/8" 8908'-11334'
33.7#, N-80
Hole size 8-1/2"
Selec.Perfs F/10437-11190'

TOF (2-7/8") @ 6602'MD
Cannot inject thru tbg
Holds 3000 psi



MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20590-00/S01	S-44	NUEVO ENERGY 1800 30th St., Suite 200 Bakersfield, CA 93301

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE	FRACTURE	PLUG BACK	WORKOVER	
APPROVAL X	ALTER CASING	INITIAL COMPLETION	PULL CASING	OTHER	
	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		COM/POW
SUBSEQUENT REPORT	CHANGE ZONE	PERFORATE	SIDETRACT X		
	DEEPEN	PERM ABANDONMT	TEMPORARY ABANDONMENT X		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see the attached information for details.

RECEIVED
APR - 6 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Sabrina J. Miller	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
Sabrina J. Miller	010406

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 4/6/01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

TRANSMISSION VERIFICATION REPORT

TIME : 04/08/2001 18:23

DATE,TIME	04/08 18:22
FAX NO./NAME	86613955297
DURATION	00:00:36
PAGE(S)	01
RESULT	OK
MODE	STANDARD ECM

NUEVO ENERGY COMPANY

FAX COVER SHEET

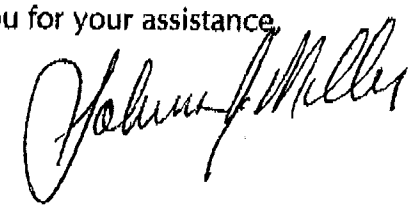
Date:	April 6, 2001	**Time:**	2:42 PM
To:	**Kelly Saddiqui**	**Phone:**	(805) 389-7775
Company:	MMS	**Fax:**	(805) 389-7784
From:	Sabrina J. Miller	**Phone:**	(661) 395-5489
Department:	ES&RC – Regulatory	**Fax:**	(661) 395-5297

Number of pages including cover sheet: 4

Message:
Nuevo Energy is requesting your approval for the attached revised Sundry Notice on Platform Gilda #S-44 redrill. These changes are as discussed between Brent Martin and Rishi Tyagi last night. Hard copies are being Federal Expressed to you for Monday a.m. delivery.

PLEASE FAX THE APPROVED COPY DIRECTLY TO ME FOR EXPEDIENT PROCESSING.

Thank you for your assistance,



RECEIVED
APR - 6 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

NUEVO ENERGY COMPANY
SANTA CLARA FIELD - PLATFORM GILDA
S-44 ST DRILLING PROGRAM – REVISION 3
REDRILL OF S-44

April 6, 2001

Operations completed:

1) Tested above hole in 9 5/8" casing at 5606' – 5614' to 1,000 psi and confirm pipe integrity. Set packer @ 5645'. Tested casing breech to 11.1# EMW LOT.
2) Set a cement retainer at 7885'. Attempted to squeeze below a 500 linear foot cement plug. Pressured to 2500 psi – unsuccessful in injecting below retainer.

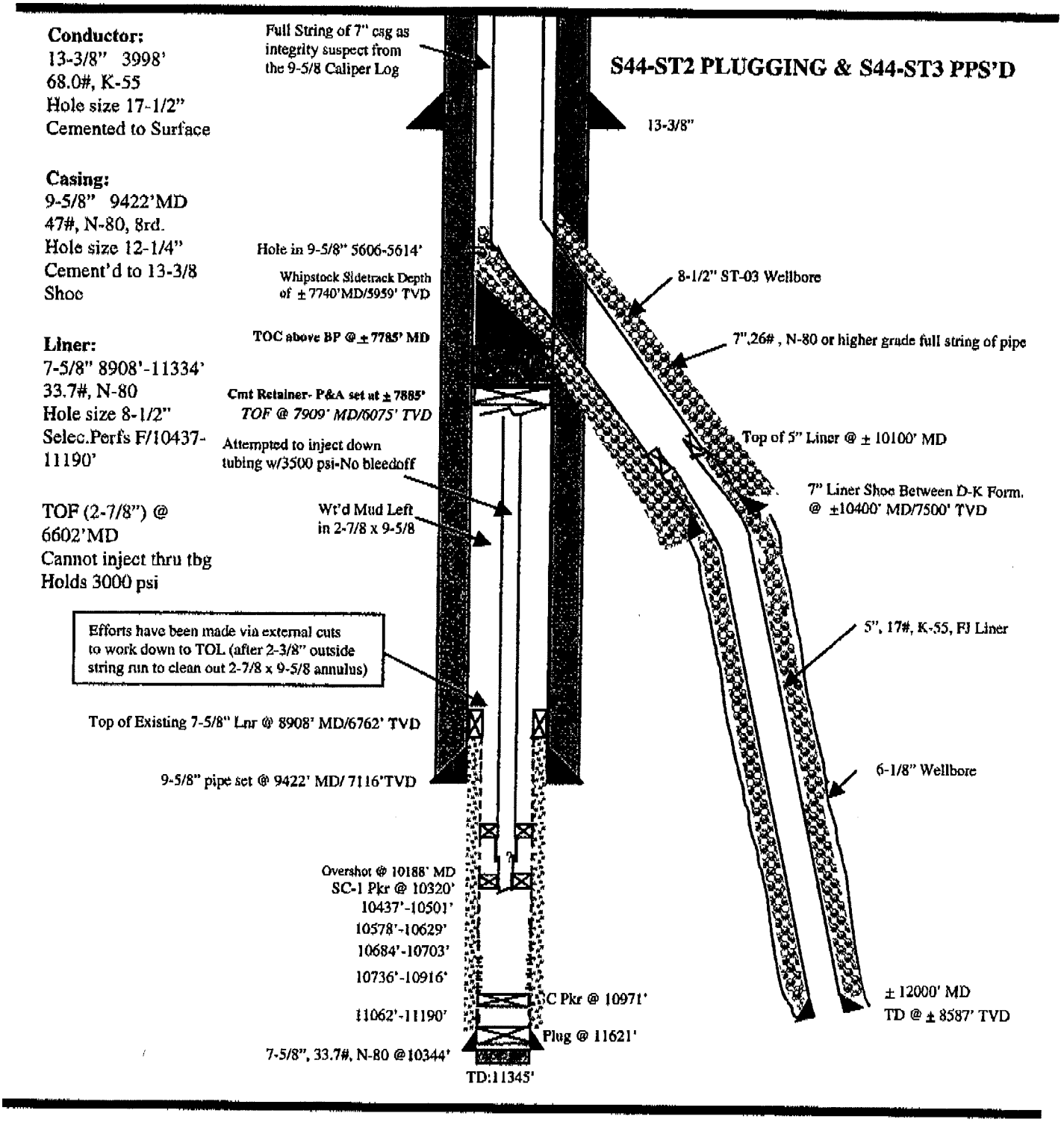
Operations proposed:

1) A 9 5/8" cement retainer was set @ 7885' MD and tested with 25k # down weight. As per verbal discussion between Brent Martin and Rishi Tyagi @ 2400 hrs 04/06/01, the 50' linear plug will be increased two-fold (100' length) and dropped on top of retainer to isolate old S-44ST02 wellbore.
2) Since the objective LOT valve of 11.8 ppg MWE was not realized in the test, the casing breech will be squeeze cemented and retested.
3) The sidetrack depth will move up to a slightly higher depth of +/- 7740' MD.
4) After drilling to a measured depth of +/- 10400' MD (above the LP-K), a 7" liner will be run instead of 7 5/8" liner from +/- 5300' – 10,400' MD. The slightly smaller size will facilitate easier passage of the liner through the squeeze-cemented breech.
5) A 6 1/8" hole or smaller will be drilled to a total depth of +/- 12,000' MD (below the LP-N formation). The EWL unit will be rigged up and logs run.
6) If hydrocarbons are present in commercial quantities, a 5" liner will be installed and cemented.

Operator: Torch Operating Company
Field: Santa Clara Field
Well: S44-ST03
Location: OCS-P 0216
API#: 04-311-20610-03/S01

Spud Date: 2001
KB: 107'
County: Kern

Geological Marker: Lwr Repetto



MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20590-00/S01	S-44	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	1800 30th St., Suite 200
Santa Clara	891012369A	01546	Bakersfield, CA 93301

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT X		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

1) Test above hole in 9-5/8" casing at 5606-5614 feet to confirm pipe integrity. Set packer below 5620'. Test casing breech to 11.8 # EMW LOT

2) Set a cement retainer at ± 7900'. Attempt to squeeze below a 500 linear feet cement plug. Lay a fifty foot cement plug above the retainer.

3) If the LOT value as per step 1 above is below 11.8 # EMW, then squeeze with cement, drill out, and re-test.

4) Sidetrack at approximately 7800' MD using either a whipstock or a section mill with a cement plug to kick off.

5) Drill to a measured depth of ± 10,400' which is below the LPD formation but above the LPK formation. Set 7-5/8" liner from ± 5300' to 10,400'

6) Drill either a 6-1/2" or 6-3/4" hole to total depth of + 12000 feet (Below the LP-N formation). RU electric wireline unit and run logs.

7) If hydrocarbons are present in commercial quantities, run and cement a 5-1/2" liner. After logs are evaluated, completion procedure to follow.

RECEIVED
MAR 30 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Sabrina J. Miller	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
Brent Martin for Sabrina Miller.	010327

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/30/01

Post-it® Fax Note 7671 | Date 3-30-01 | # of pages ▶ 2

To	Brent MARTIN	From	KELLY SIDDOWAY
Co./Dept.	NUEVO ENERGY	Co.	MMS CAM DIST
Phone #	(661) 395-5201	Phone #	(805) 389-7796
Fax #	(661) 395-5297	Fax #	(805) 389-7784

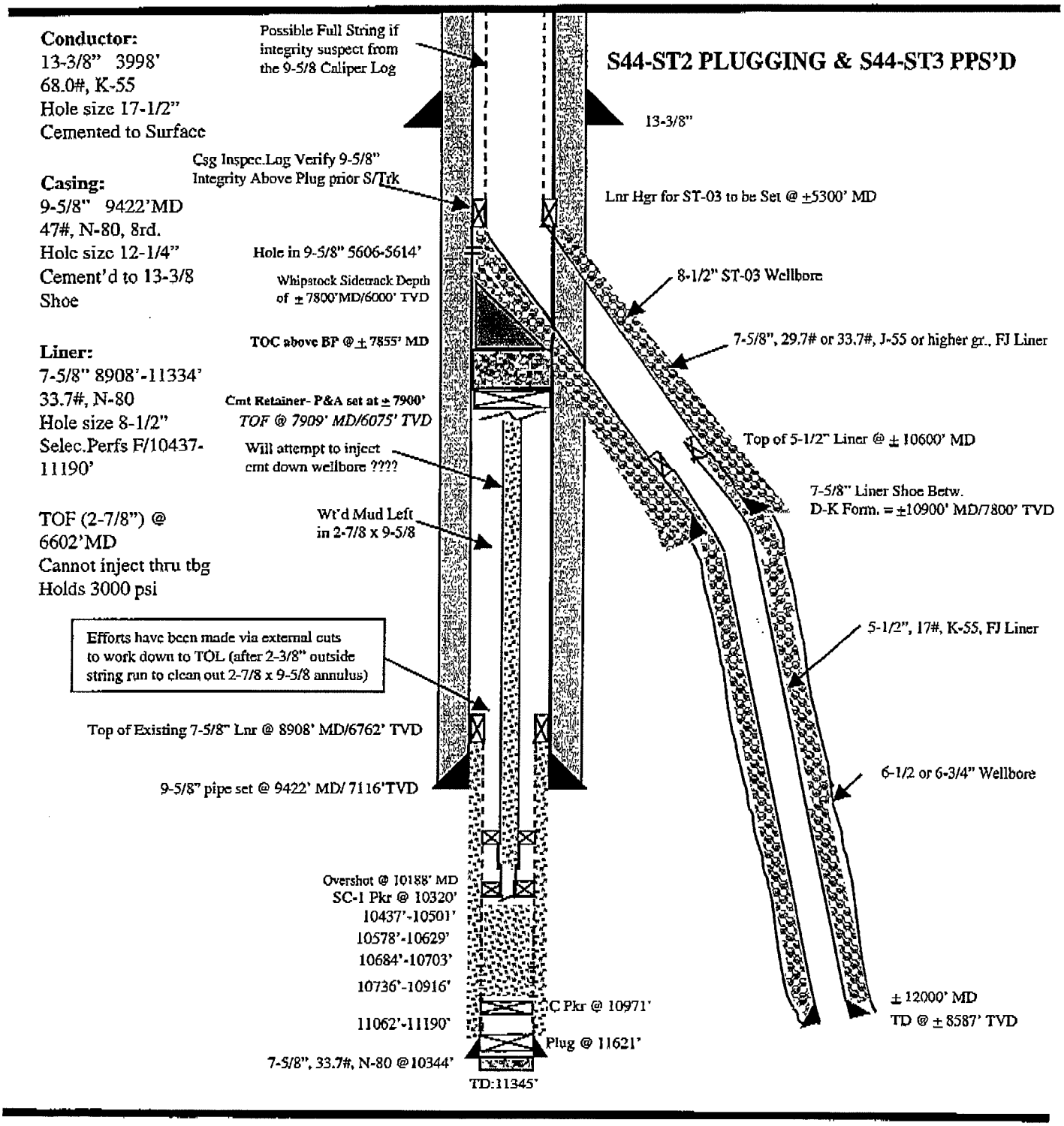
...The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this ...operations. MMS uses the information to evaluate and approve or ...proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) ...r sponsor, and a person is not required to respond to, a collection of ...ig burden for this form is estimated to average 1.25 hours per repsonse, ...mpleting and reviewing the form. Direct comments regarding the burden ...icer, Mail Stop 4230, Minerals Management Service, 1849 C Street,

...ous editions of Form MMS-124, which may not be used)

Operator: Torch Operating Company
Field: Santa Clara Field
Well: S44-ST03
Location: OCS-P 0216
API#: 04-311-20610-03/S01

Spud Date: 2001
KB: 107'
County: Kern

Geological Marker: Lwr Repetto





NUEVO ENERGY COMPANY

1800 30th St. #200
Bakersfield, CA 93301

FAX COVER SHEET

Date:	March 30, 2001	**Time:**	4:38 PM
To:	**Khaleeq Siddiqui**	**Phone:**	
Company:	**MMS**	**Fax:**	(805) 389-7784
From:	Andra Dowhower, Drilling Technician	**Phone:**	(661) 395-5251
Department:	California Drilling Department	**Fax:**	(661) 395-5297

Number of pages including cover sheet: 3

Message:

You should receive a Sundry Notice for Santa Clara Field, P/F Gilda S-44.

If you have any questions, please contact Brent Martin at (661) 395-5201. He can also be paged at (661) 862-2343.

TRANSMISSION VERIFICATION REPORT

TIME : 03/30/2001 05:11

DATE,TIME	03/30 05:10
FAX NO./NAME	86613955297
DURATION	00:00:59
PAGE(S)	02
RESULT	OK
MODE	STANDARD ECM

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL ___ CORRECTION X	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-20610-03/S01	S-44	NUEVO ENERGY
8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER	201 S. Broadway
Santa Clara	891012369A	01546	Orcutt, CA 93455

WELL AT TOTAL DEPTH

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST APPROVAL X	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	COM/POW
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

RECEIVED
MAR 8 2001
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

CONFIDENTIAL

Please see the attached information for details.

NOTE: Revisions to original procedure are in **"Bold"** for ease in locating.

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent H. Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Suzanne Foley	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	010307

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE District Supervisor

DATE 3/8/01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

NUEVO ENERGY COMPANY
SANTA CLARA FIELD - PLATFORM GILDA
S-44 ST DRILLING PROGRAM – REVISION 1
REDRILL OF S-44

March 7, 2001

Proposed TD: 8587' TVD / 11895' MD

Surface Location: Slot No. 81
X = 1041775 Y = 747981 Cal Lambert Zone VI
7825' FEL 3501' FSL

Subsurface Location: 6109' North and 4023' East of surface location at 8587' TVD
X = 1045986 Y = 753968 3614' FEL & 6352' FNL

Elevation: 205' WD, 107' Above MLLW

KB Elevation: 312'

OBJECTIVES – S-44 RE-DRILL:

Markers	VSS	TVD	MD	Est. Press. (psi)
LP-D	7050'	7157'	9730'	2200-2500
LP-K	7696'	7803'	10872	4500-5000
LP-L	7909'	8016'	11150'	4500-5000
LP-M	8032'	8139'	11311'	4500-5000
LP-N	8264'	8371'	11613'	4500-5000
TD	8480'	8587'	11895'	4500-5350

Existing Csg/Liner/Tbg				Measured Depth
20"	94#	K-55		0 – 726'
16"	75#	X-52		0 – 1583'
13 3/8"	68#	K-55	Buttress	0 – 3998'
9 5/8"	47#	N-80	8RD	0 – 9422'
7 5/8"	33.7#	N-80	Hydril SFJ	8908' – 11344'
2 7/8"	6.5#	N-80	EUE Tbg	Set F/52' elev (tbg hgr) to 10104' MD

Existing Production Packer

Halliburton 7 5/8" RH Packer set @ 10104' MD

NUEVO ENERGY COMPANY
SANTA CLARA FIELD - PLATFORM GILDA
S-44 ST DRILLING PROGRAM – REVISION 1
REDRILL OF S-44

March 7, 2001

Tubular Dimensional Data
9-5/8", 47#, N-80, 8RD –8.681"ID, 8.525" Drift
7-5/8",33.7#, N-80, Hydril SFJ- 6.765"ID, 6.64" Drift
2-7/8", 6.5#, N-80, EUE - 2.441" ID, 2.347" Drift

Previous Shoe, TOL, and Casing Tests
9-5/8" shoe @ 9422' MD/7115' TVD – Original LOT = 18.2 ppg
7-5/8" liner lap @ 8909' MD/6762' TVD – Original lap test = 2500 psi w/14.7# CaBr
Last Recorded 9-5/8" casing test = 1200 psig w/14.0 CaBr packer fluid (2/6/88)

Tailpipe Assembly below the Existing Production Packer
75.85' of 2 7/8" tailpipe includes "x" nipple located at 10140' MD
5 ½" OD Baker cut lip guide overshot with a straight pull release
O/S slides over tubing stub left in the wellbore (above the "RH" packer set @ 10,188') with the top of the cut at 10202' MD WL measurements

Perforations (all depths MD)

Perforations	Perforations
10437-10501'	10736-10916'
10578-10629'	11062-11190'
10684-10703'	

- The 2-7/8" tubing string may have holes @ 5409', 6696', 7003', 7479', 7885', and 8025' (all MD). The largest tool that was successfully lowered through the tubing string was a 1.85" OD gauge ring. Larger sizes wouldn't pass.

- Completion Fluid left in the wellbore is 8.5 ppg filtered seawater (completion report dated 01-30-95 – UNOCAL).

Equipment in Wellbore from previous Completions
Prev. Prod. Packer: 7-5/8" Halliburton Packer set @ 10188' MD

Assembly associated with Previous Prod. Packer: As per diagram, the tubing left in the hole above the old packer is a 23' piece of cut off tubing, and a four (4) foot 2-7/8" pup joint. It appears from the well schematics, that the "RH" packer @ 10188' MD is attached to the above equipment. The equipment below the packer, but above the gravel pack assembly is a 2' pup joint, one full joint of tubing, an "XN" nipple, a 10' pup joint, and shear sub with tubing guide below.

NUEVO ENERGY COMPANY
SANTA CLARA FIELD - PLATFORM GILDA
S-44 ST DRILLING PROGRAM – REVISION 1
REDRILL OF S-44

March 7, 2001

Objective to P & A old wellbore

- Attempt to set a bridge plug @ $\leq$ 150' of the top perforation with at least 50' of cement on top

PROCEDURE TO SECURE/DECOMMISSION & SIDETRACT S-44 WELLBORE

1. Skid Torch Rig No. 10 and TESCO electric top drive over slot #81, Well #S-44. Transfer 13.7 ppg "LSND" mud from workboat to rig. Check tubing and casing pressures.
2. *Ensure SSSV is in the open position. RU EWL unit with lubricator. Test lubricator to expected MASP of 4370 psi. Make a 1.85" OD gauge ring run to a depth of + 10080' MD. PU a 1-9/16" through tubing gun and RIH to attempt to perforate above the "RH" packer @ 10104'. If perforating operation is successful, circulate kill mud around until the well is dead. Proceed to Step #4. If perforating guns cannot be lowered to the desired depth, proceed to step #3.
3. RD EWL unit. RU and test same to 2500 psi. Pump through the top of the Christmas tree and tubing. A return line is to be rigged up below the tubing hanger to the mud tanks. Pump down the tubing and check for returns on the tubing/casing annulus. Observe to see if mud returns verify a hole in the tubing. Once mud returns are realized, RU the pump with a "Tee" to tie in to both the side outlet below the tubing hanger and to the top of the Christmas tree. Pump 13.7 ppg kill mud down the tubing and the tubing/casing annulus until wellbore conditions are stable. Do not exceed ***3000*** psi pressure on the tubing/casing annulus. Monitor tubing conditions to ensure the well is static.
4. Close the SSSV. Install a BPV in the tubing hanger and ND tree. NU a 13-5/8", Class IV, 5M BOP. Retrieve BPV. Pressure SSSV to open position. Test pipe and blind rams to 250/5000 psi and the annular preventer to 250/3500 psi in accordance with Field Rules and MMS regulations.
5. Screw landing joint into the tubing hanger. Pull a tensile force over string weight to release "RH" packer set at 10104' MD. Pull string out of the wellbore. Circulate and condition the mud to balance at 13.7 ppg. POH. LD all production equipment.
6. Install a wear bushing in the tubing head.
7. RIH with a 9-5/8", 47# scraper to the top of the 7-5/8" liner @ 8909' MD. Circulate out. POH and LD scraper.
8. RU EWL. Run a Multi-finger 9-5/8"casing caliper profile tool and log the 9-5/8" casing from the 7-5/8" TOL @ 8909' MD back to the casing hanger at the surface. POH. RD EWL.
9. MU a 9-5/8" retrievable packer and RIH and set same as close to the top of the 7-5/8" liner top as possible. Test the 9-5/8" casing to 2100 psi to confirm casing integrity.

NUEVO ENERGY COMPANY
SANTA CLARA FIELD - PLATFORM GILDA
S-44 ST DRILLING PROGRAM – REVISION 1
REDRILL OF S-44

March 7, 2001

10. PU a 7-5/8" casing scraper and RIH to the top of the cut on the 2-7/8" tubing @ 10202' MD WLM or 10184' MD (tubing measurements). Circulate out. POH and LD scraper.

11. PU a 7-5/8 cement retainer. RIH. Set same close to the top of the fish at 10,184' MD (tubing measurements) as possible. Set down 15k# weight to verify retainer is set. PU & RU pumping unit. Run a short injection test to verify pump in rate and injection pressure prior to mixing cement. Mix and spot a minimum 60 cubic feet cement plug. Circulate the cement down the work string, until the leading edge of the plug is close to the tool. Close the tool and attempt to pump all of the cement slurry including a volume behind the perforations. Unstring from the retainer after reversing out any excess cement. Mix and pump enough volume of slurry to place 50 linear feet of cement above the retainer. Spot and drop above the cement retainer. POH. LD setting tool.

Note: MMS to be given 24 hrs advance notice of the plugging job in Step 11 to allow for ample opportunity to witness if desired.

12. MU and RIH with whipstock BHA with one trip window milling system. Orient and set whipstock. Shear off and cut window from ~8800' to ~8840' MD. Circulate bottoms up. POH.

13. MU and RIH with 8-1/2" bit and steerable directional assembly. Directionally drill from KOP of 8800' MD/6687' TVD to 8850' MD/6720' TVD as per directional program. (NOTE: Do not drill more than 50' of new open hole without conducting LOT). Conduct formation integrity test (FIT). Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. Record the mud weight used and leakoff test pressure on both the TOC drilling report and the IADC report. Directionally drill to ±10,872' MD/7803' TVD as per attached directional plan.

14. POOH. PU an 8-1/2" hole opener and RIH. Open hole from 8800' to 10,872'MD. Circulate bottoms up. POH.

15. MU a packed hole conventional rotary assembly with the MWD to monitor inclination/azimuth. Run the packed hole assembly to bottom and drill the 8-1/2" hole to proposed TD at 11,895' MD/8587' TVD.

16. Circulate and condition mud. Make a wiper trip to the 9-5/8" casing window. Circulate and condition mud. POH for logs.

17. RU EWL unit. Log the 8-1/2" wellbore as per attached logging program using the tubing conveyed method. RD EWL unit.

18. Retrieve the wear bushing from the tubing head.

NUEVO ENERGY COMPANY
SANTA CLARA FIELD - PLATFORM GILDA
S-44 ST DRILLING PROGRAM – REVISION 1
REDRILL OF S-44

March 7, 2001

19. Rig up and run 7", 26#/ft, S-95, Hydril 521 liner. The liner hanger will be equipped with a tie-back extension.

20. TIH with liner to TD. Obtain pickup and slackoff weights while running last stand.

21. Rig up cementing equipment and install cementing head. Circulate until calculated bottoms-up is above liner top. Increase pump rate to normal speed. Circulate minimum of drillpipe and liner volume. Reciprocate liner continuously while circulating.

22. Test lines to maximum anticipated pressure. Drop ball, set hydraulic liner hanger. Release from same. Sting back into liner. Pump spacer ahead of slurry. Mix and pump the following slurry (volume based on theoretical + 25% excess in open hole).

    668 cf Class "G" + 2.0% D-20 Gel (extender) + 0.40% D65 (dispersant) + 0.35% D167 (f.loss) + 0.2% D13 (retarder) + 0.2% D46 (de-foam)

Weight	15.0 ppg
Yield	1.31 cf/sx
Water required	6.06 gal/sx

    Note: Adjust additives based on final log temperature.
    Note: Final volume to be based on caliper log.
    Note: Fluid Loss, Thickening Time, & Compressive Strengths to be determined from actual lab tests with dry samples

23. Liner should be rotated (if possible) while pumping and displacing the cement. After the cement is pumped, release dart and displace drillpipe and liner with mud. Bump plug with 500 psi over final circulating pressure.

24. POOH 10 stands and reverse out. POOH. LD liner setting tools.

25. RIH with 8-1/2" bit and drill cement to the TOL @ ± 8500' MD/6481' TVD. Circulate until cuttings clear shaker. Close the annular preventer and test the TOL to * value. POOH. LD DC's.

    *In accordance with MMS regulations, test the 7-5/8" liner lap to a minimum of 500 psi above the formation fracture pressure at the window of the 9-5/8" casing [ie.-example: the anticipated fracture gradient at the window at 6686' TVD would be 14.8 ppg. If the seat at the window proves this to be true, then the TOL would be tested to (((0.052)x(14.8)x(6686) + 500) – (0.052)x(13.7)x(6686)) = 885 psig].

26. PU 4-3/4" DC's and 6-1/8" bit. RIH to TOL. Clean out 7" liner to the top of the float collar at ± 11815' MD.

27. Displace the drilling fluid in the production liner/casing with a CaBr completion fluid. POOH.

28. Begin completion operations.

Operator:	Torch Operating Company	**Spud Date:**	2001
Field:	Santa Clara Field	**KB:**	107'
Well:	S44-ST03	**County:**	Kern
Location:	OCS-P 0216		
API#:	04-311-20610-03/S01	**Geological Marker:**	**Lwr Repetto**

Conductor:
13-3/8" 3998'
68.0#, K-55
Hole size 17-1/2"
Cemented to Surface

Casing:
9-5/8" 9422'MD
47#, N-80, 8rd.
Hole size 12-1/4"
Cement'd to 13-3/8 Shoe

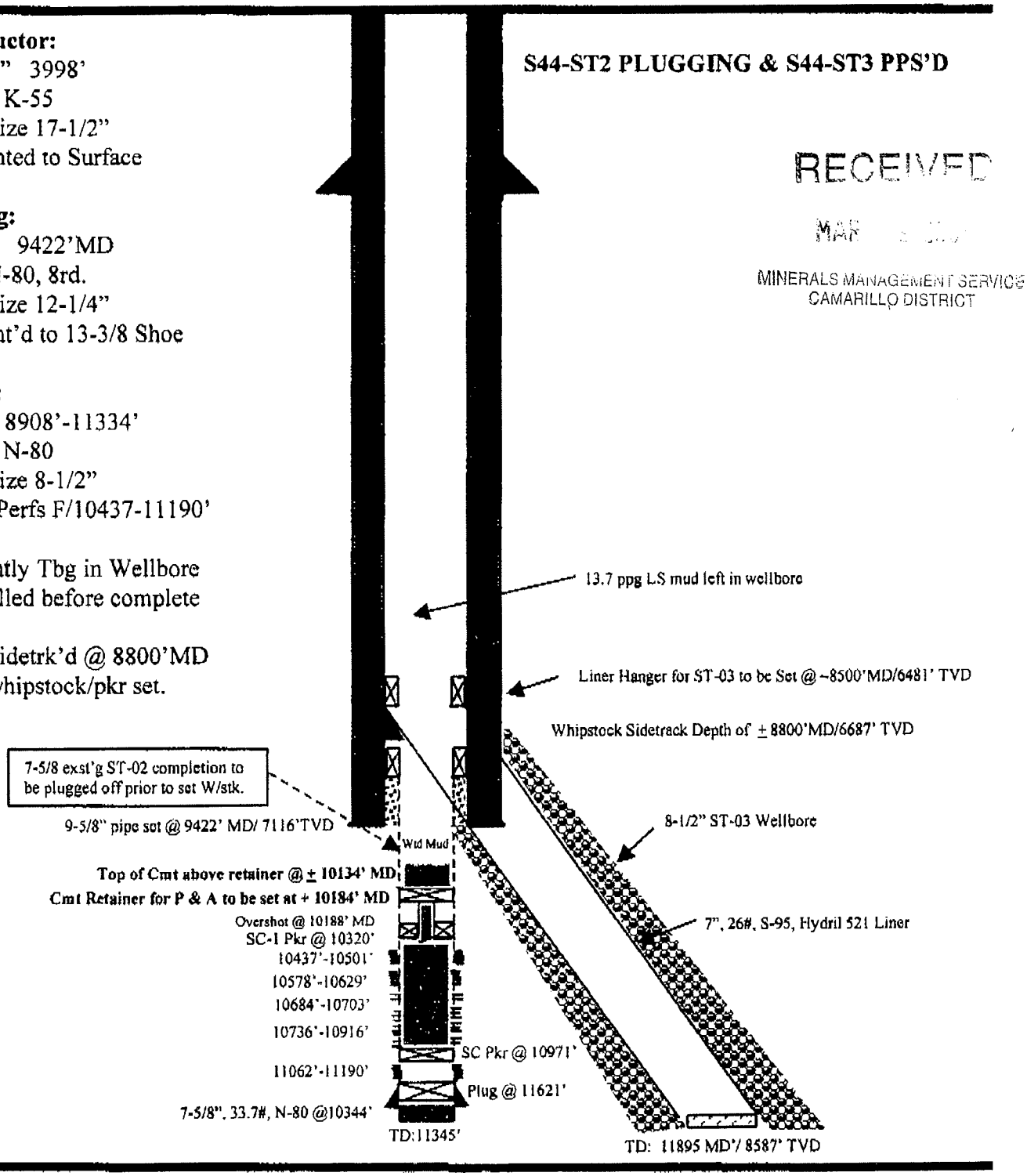
Liner:
7-5/8" 8908'-11334'
33.7#, N-80
Hole size 8-1/2"
Selec.Perfs F/10437-11190'

Currently Tbg in Wellbore
-be pulled before complete

Well sidetrk'd @ 8800'MD
with whipstock/pkr set.

S44-ST2 PLUGGING & S44-ST3 PPS'D

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MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT



SJS 1/18/01

,NERALS MANAGEMENT SERVICE
,UNDRY NOTICES AND REPORTS ON WELL

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	04-311-~~20590-00~~ 20610-03 /S01 (SJS)	S-44	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

COPY TO REGION

4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
P-0216	6B	4861	6B

32. TYPE OF SUBMITTAL	33. PROPOSED OR COMPLETED WELLWORK				34. WELL STATUS/ TYPE CODE
REQUEST	ACIDIZE ___	FRACTURE ___	PLUG BACK ___	WORKOVER ___	
	ALTER CASING ___	INITIAL COMPLETION ___	PULL CASING ___	OTHER ___	
APPROVAL X	ARTIFICIAL LIFT ___	MULTICOMPLETION ___	RECOMPLETION ___		COM/POW
	CHANGE ZONE ___	PERFORATE ___	SIDETRACT X		
SUBSEQUENT REPORT ___	DEEPEN ___	PERM ABANDONMT ___	TEMPORARY ABANDONMENT ___		

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

35. SURVEY BASE	18. WATER DEPTH (Surveyed)	19. ELEVATION AT KB (Surveyed)	20. RIG NAME	21. RIG TYPE
NAD 27 X NAD 83 ___	205'	107'	Torch 10	PS

36. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)

Please see the attached information for details.

CONFIDENTIAL

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JAN 10 2001

MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent H. Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name)	29. TITLE
Suzanne Foley	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	31. DATE
	001121

THIS SPACE FOR MMS USE ONLY

APPROVED BY _____ TITLE for / District Supervisor

DATE 1/18/01

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

FORM MMS-124 (September 1999) *(Replaces all previous editions of Form MMS-124, which may not be used)*

MINERALS MANAGEMENT SERVICE
WELL SUMMARY REPORT

Submit original plus two copies with one copy marked "Public Information"

OMB No. 1010-0046
Expiration Date: September 30, 2002

1. 1ST COMP. / RECOMPLETION / ABANDONMENT / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE)
	04-311-20610-03/S01	S-44 ST 3	Nuevo Energy 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

District Supervisor

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X=104,5983.85 Y=253,999.62	P-0216	6B	4861	6B

WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed)	38. LEASE NUMBER	39. AREA NAME	40. BLOCK NUMBER	41. OPD NUMBER
X=104,5726 Y=753,696	P-0216	6B	4861	6B

34. WELL STATUS/TYPE CODE	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED	43. DATE OF FIRST PRODUCTION	23. SPUD DATE
COM/POW	11/22/2001		3/10/2001

44. DATE SIDETRACKED	45. DATE TD REACHED	24 TOTAL DEPTH (Surveyed)
	5/8/01	MD 11,925' TVD 8520'

PERFORATED INTERVAL(S) THIS COMPLETION

46. TOP (MD)	47. BOTTOM (MD)	48. TOP (TVD)	49. BOTTOM (TVD)
11,255'	11,295'		
11,410'	11,470'		
11,635'	11,695'		

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NOV - 8 2002
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CAMARILLO DISTRICT

50. RESERVOIR NAME	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION
Lower Repetto	Lower Repetto

CASING RECORD

52. HOLE SIZE	53. CASING SIZE	54. CASING WEIGHT	55. GRADE	56. SETTING DEPTH (MD)	57. CEMENT TYPE	58. QUANTITY OF CEMENT FT3
30"	20"	94#	K-55	726'		
16"	13 3/8"	68#	K-55	3998'		
	9 5/8"	47#	N80	9422'		
	7'	26#	S-95 & P-110	10,600'	Class G W/add.	1242 Ft^3

TUBING RECORD

59. HOLE SIZE	60. TUBING SIZE	61. TUBING WEIGHT	62. GRADE	63. SETTING DEPTH (MD)	64 PACKER SETTING DEPTH (MD)
	2 7/8"	6.5#	N80	10,151'	10,115'
					11,300'
					11,480'
					11,727'

FORM MMS -125 (September 1999 (Replaces all previous editions of Form MMS-125, which will not be used)

Releasable to public
Name: SRH Date: 5/13/13

WELL SUMMARY REPORT (continued)

LINER/SCREEN RECORD

65. HOLE SIZE	66. LINER SIZE	67. LINER WT.	68. GRADE	69. TOP (MD)	70. BOTTOM (MD)	71. CEMENT TYPE	72. CEMENT QUANTITY (FT3)
	16"	75#	X-52	368'	1583'		
	7 5/8"	33#	N-80	8909'	11,344'		
	5"	15#	P-110	10,262'	11,917'	Class G W/add.	357 F^{t3}

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL			
73. TOP (MD)	74. BOTTOM (MD)	75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
11,635'	11,695'	Frac Sand	83000 LBS
11,410'	11,470'	Frac Sand	45,000 LBS
11,255'	11,295'	Frac Sand	31370 LBS

77. LIST OF ELECTRIC AND OTHER LOGS RUN, DIRECTIONAL SURVEYS, VELOCITY SURVEYS, AND CORE ANALYSIS

78. SUMMARY OF POROUS ZONES: Show all zones containing hydrocarbons; all cored intervals; and attach all drill steam and well potential tests.

79. FORMATION	TOP 80. MD	TOP 81. TVD	BOTTOM 82. MD	BOTTOM 83. TVD	84. DESCRIPTION, CONTENTS, ETC.
Lower Repetto	10,262'		11,345' TD		

85. GEOLOGIC MARKERS	TOP 86. MD	TOP 87. TVD	85. GEOLOGIC MARKERS	TOP 86. MD	TOP 87. TVD
LP-K	10,262'				
LP-M	10,737'				
LP-N	11,212'				

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent Martin	(661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
Richard F. Garcia	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
Richard F. Garcia By W.V.	11-5-02

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334) Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1.25 hours per repsonse, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

COMPLETION SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

Date	Description of Work
9/22/01	MIRU. RU pump & pits to mix CaCl water. Mix CaCl & stack material. Install new load line on crane. Mix CaCl (total 500 sacks).
9/23/01	Cont to mix CaCl. RU pump lines to change well over. CaCl wt=11.1 PPG. Change well over to CaCl (410 Bbls total). Install BP valve. Remove wellhead. Install and flange up riser.
9/24/01	NU Class IV 13 5/8" 5000# BOPE. Function test BOP (OK). Pickup, test jt & plug. Land jt in the tubing hanger and fill connection between rise and X-0. Flange using Bx-160. Ring leaking bad. Found clamp to be wrong size for 13 5/8" equip. Fill stack to test BOP (test no good, leaks). Found door on double gate leaking. Break door apart and grease seal. Retighten BOP equipment at tour change.
9/25/01	Start BOPE test. Test annular F/ 250L T/2100H. Test with 2 3/8" and 2 7/8" tubing. Test 2 3/8" & 2 7/8" pipe rams and blind rams. Safety valve F/ 250L T/ 3000H. All tested to MMS specs using water and remote stations (OK). Pump 50 Bbls down tubing @ 200PSI latch on to the tubing hanger and release packer. Pull hanger to surface and press down. Hang sheaves and hook up spoolers. Pull BPV and LD tubing hangers. Pull tubing to SSSV and pump open valve, bleed overbalance pressure to pit (10 Bbls). Well bled off. Pull and LD SSSV & RDH packer. Change out chemical and cable spools. POOH W/ESP. Found no bands on stds 26 through 30 and cable would not come out of well without assistance. Pulled 160 total jts at 6AM. Estimate loss of 40 bands at 6 AM tour change.
9/26/01	Continue to pull W/ESP. LD 3 pumps (good). Electric cable had holes. The motor was burnt/ground out. The AGH is good. The shaft is loose in the top protector. The gas separator intake screen is 80% plugged. Had 10 bands and 64 saddles missing. RD sheaves. Broke down packer & SSSV. Installed stripping rubber and PU rev circ tool. RIH W/rev circulating tool to 5000'. RU to rev circulating @ 5000'. RIH W/rev circ tool to 7000'. Rev circ @ 7000'. RIH to 9000'. Rev circ @ 9000'. RIH to 10,262'. PU 17 jts of 2 7/8" tubing. Rev circ at 10262', worked junk sub. POOH W/rev circ tool.
9/27/01	Continue to POOH & service rev circ tool. Recovered 5 bands and 2 saddles. PU hydrostatic surge tool and RIH. Worked surge tool on top of liner. POOH, no recovery. PU 4" rev circ tool. PU 30 jts of 2 3/8" tubing. RIH to 10,250'. Install PGSR in circ head. Rev circ while RIH from 10,250' to 11,030' (tubing measurement). Top of packer @ 11,126'. POOH W/rev circ tool. (will SLM when running in hole).
9/28/01	Continue to POOH W/rev circ tool. LD tool. No recovery. PU 4" surge tool and RIH

Date	Description of Work
	small amount of gravel pack sand coming from tubing. Continue to RIH W/surge tool. Tried to rotate (no good). POOH & LD.
9/30/01	Work shoe @ 11,102'. No torque. Could not break through. LD power swivel. POOH W/rev circ tool. Recovered 23 bands and 17 saddles. RIH W/rev circ tool to 11,102'. Work shoe @ 11,102'. No torque, could not break through. POOH W/rev circ tool. Recovered 1 piece of bands and 1 saddle. LD rev circ tool. PU spear and RIH.
10/1/01	Continue to RIH W/spear to 11,102'. Worked spear on junk @ 11,102'. POOH W/spear 2-3 K drag in liner. No Recovery. PU rev circ tool and RIH to 10,250'. Work tool across top of liner. RIH to 11,102'. Work tool on junk form 11,102' to 11,110'. RD swivel and POOH.
10/2/01	Continue to POOH W/rev circ tool. No recovery. Install test plug and change pipe ram arrangement. Test all rams and valves F/250L T/3000H PSI. Annular preventer to F/250L T/2500H PSI. RD test equipment. Pull test plug. Install PGSR. RIH W/spear to 11,110'. Worked Spear. Set 15 - 20K down. Took 10- 15K over-pull to free. Try bumper sub to knock down hole. 24K over-pull to free. POOH W/spear.
10/3/01	Continue to POOH. LD spear. No recovery but shows possible entry in to top of shear out sub. Measure and PU 4" saw tooth shoe W/one jt of washpipe. Trip in well to 11,110'. PU power swivel and install reverse circ rubber. Work over and rotate shoe on bands from 11,110' to 11,116'. Shoe torque's up and sticks requiring 20K pull over tubing weight to pull free. RD power swivel and pull PGSR rubber. POOH. Found wire catchers up inside shoe gone and score marks on inside and outside of shoe. MU new shoe on washpipe and run in well @ EOT.
10/4/01	Continue to trip in well W/washpipe and wire catcher shoe. Circ over fish/junk without rotating at 11,116'. Took 8K to fall over top of sub. Reverse circ well at 3 BPM @ 1800 PSI. Well continues to Flow back up tubing (over balance condition). Well quit flowing back after circ. POOH W/washpipe and wire catcher shoe, found wires damaged but intact indicating that shoe had gone over shear sub. There was no band recovery. LD wash pipe and shoe. MU shear sub overshot and RIH. Tagged @ 11,106'. Try to pressure test casing, would not test. Well flowed out tbg. Had oil returns, circ oil out (5 Bbls) to tank. Pump pill down tbg. Prepare to pull out of well. POOH W/shear sub overshot. Found nothing unusual on tool. MU fishing tools at EOT.
10/5/01	Well started flowing out of tubing. Circ 11.2 # CaCl to control flow, getting oil returns. Well started to flow again. Hook up pump and circ well dead. Continue to RIH circulating as needed to control well. Circ well, build up fluid weight to 11.2#. Well is static. Latch onto seal assembly @ 11,110' and work fish loose. POOH (80 stands). Finish POOH and LD seal assembly. MU fishing tools to clean off top of packer and RIH @ EOT.

Date	Description of Work
10/6/01	RU pump and reverse circ at top of packer @ 11,116' to remove any debris or bands left on top of packer. POOH 700' and well started flowing out of tbg. Pump on well and kill. Continue to POOH. Break down fishing tool and found top of snap latch in fishing tool. Run 15 stds 2 3/8" kill-string. Change out power tongs. Cleanup work area. Open well, pull kill-string and MU seal assembly minus snap latch. RIH to top of packer and stab in seal assembly. Top of seal @11,115'. Test csg side to 500 PSI (OK). Fill coiled tubing unit with filtered 11.3# CaCl water and run in well @ 5000' @ EOT.
10/7/01	Coiled tubing stopped @ 11,117'. Work tbg unit. Could not make any progress. POOH W/coiled tbg and rig out unit. Rig equipment to pull tubing. Pull and release seal assembly. Run kill string. Secure well. Set in power swivel unit. PU 1 5/8" drill rod W/clean out assembly. Continue in well. Tag top of packer @ 11,116'. LD 10 jts of tbg and pick up power swivel. Start milling (pumping down csg.). Mill plugging off pump down tbg. Continue milling. Clean out metal fill F/11,116' T/11,118'. Run to 11,123'. Mill down to 11,237'. Pump down and clean out to 11,230 @ EOT.
10/8/01	Continue to clean out inside of screen F/11,230' T/11,423', Pumping down tbg and up csg when well started to take fluid. Pull to 11,369', drill rod stuck in bailer screen. Start to pull pipe to 120,000# while trying to circ and rotate. Try to pump down csg. Well pressures up to 1500 PSI and will not take any fluid. Try to pump down tbg. Tbg pressure up to 2500 PSI and will not take fluids. Try to make blind back off and 2 7/8" tbg backed off 5 to 10 jts below table. Screw back into tbg and re-torque pipe. Attempt another back off, could not get torque down hole. Well started to flow up csg. Shut in csg and flow to pit. Well continued to flow. Start to monitor well @ 500 PSI. (21:00 hrs). Continue to monitor well. Build up to 850 PSI and stabilize. Continue to monitor well csg.
10/9/01	RU wireline to shoot off 2 3/8" tbg. Run in well to 10,720'. Bleed off csg to shoot. Make chemical cut @ 10,720'. POOH and RD wireline unit. RU equip to kill well. Tie into production facilities to circ oil out of csg. Circ oil through production facility to kill well. Well produced 100+Bbls of oil today while circ, but lost 200 + Bbls of CaCl while being shut in and killing well. Build 11.4# CaCl while circulating and killing well. Circ well with 11.3# CaCl. Well is dead. POOH W/tbg. POOH & LD cut off jt. Remove PGSR stripping rubber. PU fishing tools, bump sub, jars, drill collars, etc. RIH W/fishing tool assy spidering in well all tbg. Secure well and rig.
10/10/01	RIH to 9500'. Test all rams and valves F/250 T/3000 PSI. Annular preventer F/250 T/2000 PSI. Bleed well down to 400 PSI on annular. Pulled tbg hanger & broke circ. RIH W/overshot to 10,720'. Tighten each connection. Work over fish and jar on fish (no movement). Spot and rig up wireline unit. RIH W/5/8" freepoint tool. Secure well and rig.
10/11/01	RIH to 9500'. Work 5/8" freepoint to drill rod at 10,722'. Free @ 11,148' and stuck @ 11,223' (wireline measurement). All readings are stetch, unable to get and torque

Date	Description of Work
	readings. POOH W/wireline and RD. RU & circ well at 1.4 BPM, 11.4 PPG in 11.2 PPG returns (returns has small amount of gas & oil). Work pipe and jar on fish (no movement).
10/12/01	Circ well at 1.4 BPM (11.4 PPG in and out). RIH W/11/16" chemical cutter. Worked cutter inside 1 5/8" drill rod. Correlate & fired cutter @11,174' (tbg measurement). Cutter and slip left in hole. RD Wireline. Work pipe and jar on fish.
10/13/01	Continue attempting to release overshot from fish @ 10,722'. Pressure up to 3000 PSI. No injection.
10/14/01	Circ well. RU wireline. RIH W 11/16" chemical cutter. Correlate wireline and fired cutter at 11,171'. Did not go through pipe. POOH W/ wireline cutter. Work and jar on fish but unable to break pipe into. RIH W/collar locator, locator did not show any indication of a cut at 11,174' or 11,171'. POOH W/locator.
10/15/01	Continue to POOH W/cutter and change out. RIH W/11/16" cutter. Correlate and shoot cutter @ 11,166'. POOH W/cutter. Work pipe, jar on fish. MU string shot and RIH. Collar locator stopped working. POOH. RIH W/cutter and correlate. Work torque in tbg. Fire string shot @ 11,156' (300 grain). POOH W/string shot. Jar on fish while making up string shot #2. RIH W/string shot #2 and correlate. Work torque in tbg, fire string shot @ 11,156' (400 grain). Pipe not parted. POOH W/wireline.
10/16/01	Continue to POOH W/wireline. Work pipe and jar on fish. RIH W/string shot. Collar locator stopped working. POOH and fix collar locator. RIH W/string shot. Work torque in tbg for back off. Pull fish up hole 7'. POOH W/wireline. Pumped 60 Bbls of fluid in tbg. Pull tbg up hole 2'. Jar on fish, circ bottoms up. Jar on fish while making up string shot. No movement. Set tbg in neutral and put right hand torque in tbg. Fire string shot @ 11,141'. Tail at 11,147'. POOH W/wireline. No movement.
10/17/01	RIH W/string shot to 11,056'. Torque tbg W/7 turns of left hand torque and shoot string. Tbg came free. POOH W/wireline. LD wireline lubricator and RD wireline equip. POOH W/2 7/8" tbg and LD fishing tools. LD 10 jts of 1 5/8" drill rod. Found bottom shot joint. Flared out and split above tool jt. Prepare BOP test equip. Land test plug and fill riser W/water and 3000 PSI high-pressure W/both 2 3/8" and 2 7/8" tbg. Test hydril F/250L T/2100H pressure using MMS specifications. LD test plug and install PGSR. MU 1 5/8" overshot and fishing tool assy. RIH.
10/18/01	W/overshot and mill control. Work over top of fish at 11,056'. Jar on fish, work up hole 6'. Fish came loose. POOH W/fish and LD fishing tools. Found bottom of fish swollen and W/vertical cracks. PU seal assy and trip in well.
10/19/01	Cont to trip in well W/seal assy for wireline work. W/seal assy hung above packer @ 11,114'. Hook up pump and reverse circ well W/100 Bbls of fluid. Stab in seal assy

Date	Description of Work
	and test to 500 PSI (OK). RU wireline unit to run and cut off packer. Run wireline W/chemical cutter to 11,116'. Would not go any deeper. POOH and add extra weight. RIH and determine that chemical cutter would go through seal. Stab into packer and try to run cutter. Would not go past 11,116'. POOH and RD wireline equip. Prepare to pull tbg (it was determined that fill was in liner). POOH W/seal assy and PU 2 jts of 1" CS Hydril tbg to clean out string. Trip in well W/clean out string.
10/20/01	Cont to RIH to top of packer @ 11,116' and rig up pump to reverse circ. Clean out what appears to be gravel pack sand F/11,116' T/11,110' to shut in well. Stab 1" Hydril tbg back into top of packer @ 11,116' and run to 11,156'. No signs of fill. Reverse bottoms up with no signs of fill. PU Baker seal assy for wireline work and trip in well. Stab into packer @ 11,116' and test assy to 500 PSI (OK). RU wireline. Secure well & rig.
10/21/01	RIH W/chemical cutter to 11,131'. Could not go deeper. Need to make cut @ 11,146' & log past seal assy to confirm depth. RIH to 11,131' and stuck wireline assy. Fire 1 11/16" chemical cutter and free up stuck tools. POOH W/cutter and MU 1 5/8" sinker bar assy. RIH W/sinker bars to 11,156'(OK). POOH. MU 1 9/16" chemical cutter and run in well to 11,151' and make chemical cut. POOH and LD cutter. MU collar locator on bottom of sinker bars and RIH to confirm chemical cut @ 11,151' (OK). POOH and RD wireline equip. Work seal assy trying to stab back into top of packer could only get in 2'. POOH W/seal assy and LD. Found score marks 1' up and bottom of shoe slightly bent in. PU two 9/16" taper mill to dress top of packer.
10/22/01	RIH W/2 9/16" taper mill. Tag top of fish @ 11,051'. Chase fish to 11,100' and rotate to 11,116'. Clean out top of packer down to 11,121' W/taper mill. MU 2.641" spear and RIH to 11,119'. Work spear down to 11,121'. POOH W/spear. No recovery. MU 2.718" spear and RIH.
10/23/01	RIH W/2.718" spear. Work spear down inside top of packer @ 11,116' and latch onto fish. Work up hole dragging F/10,000 T/20,000 Lbs over-pull. Fish hanging up every few feet when jars went off and lost fish. Could not get back into fish and stay latched in. POOH and found spear to be in good condition. MU 1.091" nominal size spear to fish inside 2 3/8" cut off tbg below packer. RIH and latch onto 2 3/8" tbg. Work fish up hole 10' and stopped, jar on fish, able to work up and down 10'. Continue to jar fish, spear keeps coming out of fish. POOH.
10/24/01	Cont to POOH W/spear. Grapple missing from spear. Test BOPE, all rams, and valves to F/250 T/3000 PSI and annular F/250 T/2000 PSI. RIH W/packer retrieving tool. Worked retrieving tool into packer @ 11,116'. POOH W/packer. LD packer and retrieving tool. Packer parted below perf ext. leaving seal bore and lower ext. New top of fish at 11,125'.
10/25/01	Installed circ head. MU 2.718" grapple on spear and RIH to 11,125'. Latch onto fish and jar on fish. Spear came loose from fish. POOH W/grapple missing from spear.

Date	Description of Work
	LD fish tool. PU 4" X 3.250" X 4' wavy bottom mill shoe. RIH to 11,125'. PU power swivel and install rubber in PGSR. Mill over seal bore.
10/26/01	Cont to mill over fish. Mill total of 16". Circ bottoms up. POOH W/mill shoe. MU 2 7/8" host spear and RIH. Stabbed fish @ 11,125'. Jar on fish. Spear come loose from fish. POOH W/spear. Grapple missing. PU 4.188" concave mill and 3 junk baskets.
10/27/01	Cont RIH W/four 3/16" concave mill and three junk baskets. PU power swivel and mill on fish form 11,125' to 11.141'. Milled one hour not making any hole. Pump 20 Bbls Hi-Vis sweeps every 3'. Pump sweep at 11,141'. Clear top of liner. Pull to top of liner @ 10,260'. Circ Hi-Vis sweep around @ 10,260'. POOH W/mill.
10/28/01	Continue to POOH W/mill and junk baskets. Mill worn and one of the four shanks was cracked. Junk baskets full of cuttings. Emptied junk baskets and changed mill. RIH W/mill. PU power swivel W/1' of fill. Mill 2 3/8" tbg from 11,141' to 11,152'. Pump Hi-Vis sweep around at top of liner. POOH and LD mill. Clean junk baskets. PU 6 jts of 4" X 3.25" wash pipe W/wavy bottom mill shoe and three junk baskets.
10/29/01	RIH W/wash pipe down to 11,150'. Work junk baskets. When pump shut down, could not pick up. Restart pump and able to move pipe. Pump two Hi-Vis sweeps around & down tbg. Could PU W/no problems. Started reverse circ and worked over fish W/gravel pack sand and metal returns. Washed F/11,152' T/11,199'. POOH W/55 jts of 2 7/8" tbg. Tbg twisted off at bottom . PU 5 - $\frac{3}{4}$" overshot W/3 - 3/32" grapple. RIH and latch fish @ 1,720'. Jar on fish W/30,000 K and pulling up to 110 - 120K. String weight 60K. Jar fish up hole 2'.
10/30/01	Cont to jar fish and pull fish free. POOH and LD 1 jt tbg. Clean and LD junk basket. RIH W/wash pipe. PU power swivel. Washed over fish F/11,199' T/11,292' tubing measurement. Circ bottoms up. When tag bottom pressure would increase, PU and pressure would go down (possible packer). Pull up to top of liner (to test BOPE).
10/31/01	Remove PSGR stripping head and MU BOPE test assy. Test upper and lower pipe rams using 2 7/8" and 2 3/8" tbg F/250L T/3000H. Test Hydril F/250L T/2100H using water as per MMS reg's. All tested OK. RIH W/wash pipe to 11,287' and circ down to 11,292'. Circ well clean and had small amounts of sand returns. POOH and well started to flow back out of tbg. POOH W/Wash pipe and stand in derrick. MU overshot W/2 3'8" grapple, drill collars, BS jars, accell. Trip in well W/fishing assy.
11/1/01	Latch onto top of fish @ 11,152' and jar on snap latch assy @ 11,295'. Latch would not come loose. Well started to flow out csg. Attempt to back snap latch out of packer by turning tbg to right. Work torque down to snap latch but could not free up fish. Finally released overshot @ 11,152'. Well continues to flow intermittently out of csg. RU pump to kill well. Circ 450 Bbls of 11.4# CaCl down tbg to control well flow. POOH W/fishing tool assy and PU wash pipe running in well W/wash pipe to

Date	Description of Work
	check for fill around fish @ EOT.
11/2/01	Cont to trip well and tag top of fill @ 11,212'. Clean out frac sand F/11,212' T/11,260'. Broke and repaired swivel jt. Cont to clean out sand by reverse circ bottoms every connection. Clean out to 11,202'. Bring fluid weight up to 11.5# while circ well clean. Pull wash pipe to top of liner @ 10,262' and cont to weight up CaCl to 11.5#. Run wash pipe back in well and tag fill @ 11,277'. Circ well clean. Mix 25 Bbls Xanvis pill mixed W/25# sapp and 25# caustic soda and displace to bottom. POOH W/wash pipe.
11/3/01	Continue to POOH W/washpipe. MU 2 3/8" overshot on fishing tool assy and RIH. Engage top of fish @ 11,152' and start to jar on fish. Work bottom of fish @ 11,295' up hole to 11,157'. Stop, possible polished bore recepticle hung up on split top of 1 5/8" drill rod. Jar on fish trying to work over top of 1 5/8" drill rod stuck inside 2 3/8" wire wrap screen. 2 7/8" tbg parted @ 2263'. POOH and PU overshot to catch 2 7/8" collar. RIH and engage top of fish @ 2263' and release bottom overshot @ 11,002'. POOH W/all fishing tools
11/4/01	Measure and caliper reverse back off tools. PU reversing tools and LD. Replace 7 jts bent 2 3/8" tbg. Start to trip in well and well started to flow out of tbg. Pump CaCl down tbg to control flow. Continue to RIH W/reverse back off tool and engage fish @ 11,002'. Start to reverse out tbg. Reversed out tbg and start to POOH. Found top of bumper sub had unscrewed (left had threads on bumper sub). Redress reverse sub and well started to flow. Pump 11.4# CaCl down tbg. Stage in well while pumping down tbg and re-torque all tbg as being RIH to screw into top of bumper sub.
11/5/01	Continue to trip in well and circ in 11.5# CaCl water as needed. Run reverse tool to 10,990' and build and circ the well volume to 11.5# CaCl. There was 50 Bbls and oil returns while changing over. Engage top of bumper sub and using reverse tool screw into bumper sub. Make many attempts to unscrew fish W/reversing tool. Appears that polish bore assy is spinning on connection of 1 5/8" drill rod and will not back off. Order out wireline to shoot off fish. RU wireline and run in well W/sinker bars and collar locator.
11/6/01	Continue to RIH W/sinker bars and collar locator. Wireline tools stopped @ top of fish @ 11,002'. Could not work past top of fish and stuck wireline tools. Work wireline tools free. POOH and rig out wire line tools. Attempt back off W/reverse tool and achieved success. POOH and found that we had retrieved gravel pack screen, seal assy and two drill rods. LD fish. New top of drill rod @ 11,210'. Five jts of drill rod left in well. MU and run 4 jts wash pipe W/wavy bottom shoe, jars and drill collars. RIH and tag fill @ 11,205'. RU, pump and reverse circ out sand.
11/7/01	Continue to reverse out sand to top of packer @ 11.295'. Sand is entrapped in oil that is being circ as well as coming freely W/CaCl water. Well never completely cleaned up when decision was made to pull to liner top and make MMS regs BOPE

Date	Description of Work
	test. Strip off PGSR circ head. PU tbg hanger and blank plug. Land in tbg hanger. Fill BOPE stack with water. Test BOP stack F/250L T/3000H PSI using 2 7/8" and 2 3/8" tbg. Test Hydril F/250L T/2000H PSI. All tests (OK). Pull and LD tbg hanger and strip on PSGR. Circ to kill well. Well wants to flow up tbg. RIH & tag top of sand @ 11,200'. RU pump lines to reverse clean out sand F/11,200' T/11,245'.
11/8/01	Continue to clean out sand F/11'245' T/11,295' and mix 25 Bbls of high Vis pill consisting of 25# of Xanvis, 5 gal of safe Vis and mixed W/25 Bbls of CaCl. Displace 25 Bbls pill down tbg W/60 Bbls of CaCl. Pull tbg up to 11,100' and squeeze 6 Bbls of Xanvis pill into perforations F/11,255' T/11,295' @ a rate of .87 Bbls per min and 2000 PSI. Let bleed into formation F/2000 PSI T/300 PSI in 20 min. Bleed off remaining 300 PSI. Returned ½ Bbl from formation. POOH W/wash pipe and stand back in derrick. MU new bottom hole assy W/1-3/4" grapple, jars, bumper sub, accelerator and 4 drill collars. Trip in well W/1-3/4" grapple and engage fish @ 11,220'. Jar on fish. No movement at EOT.
11/9/01	Continue to jar on 1-5/8" drill rod pulling up to 110,000# on tbg. Decision made to release overshot and pull tbg. POOH W/over shot, LD fishing tools. PU reversing tools and over shot with grapple. RIH and engage top of fish @ 11,220'. Reverse out fish. POOH and retrieve 1 jt of drill rod 32' long. New top of fish @ 11,252'. Redress reversing tool.
11/10/01	MU mule shoe. RIH and tag down tbg measurement @ 11,257'. PU power swivel. Circ over fish and clean out to 11,298'. Circ clean and recover frac sand. Raised mud wt. Wash over drill rod to 11,341' tbg measurement. Recover frac sand. This is bottom of packer ext. Circ clean. Finish raising wt to 12 PPG. Mix 25 Bbls polymer pill. Spot over fish. POOH T/11,120'. Squeeze away 20 Bbls @ 2000 PSI. When stop pumping pressure drops to 1800 PSI. Bled to 0 in 3 hours. Takes 8 Bbls to fill hole. Pull 10 stds and RIH to top of fish. Work over fish and tag fill @ 11,329' tbg measurement (12' fill). RU power swivel and clean out T/11,341'. Reverse circ hole clean.
11/11/01	Reverse hole clean. Spot 20 Bbls polymer pill on bottom. POOH to top of liner. LD power swivel. POOH & LD W/2 3/8" wash jt. MU over shot 1 ¼" grapple W/4 1/8" cut lip shoe on reversing tool. RIH. Note: 2 7/8" tbg was made up W/1500 PSI. Should have been made up at 2000 PSI. 2000 PSI is what tbg was made up on previous trips.
11/12/01	RIH and work over the top of the fish @ 11,260' tbg measurement. RIH T/11,341' tbg measurement. No fill. RU power swivel. Circ spot 20 Bbl polymer pill on bottom. POOH and RD power swivel. LD one jt of 2 3/8" cut off wash down jt. PU reversing tool and RIH to 11,260'. RU power swivel and work over fish. Had to turn right and work to latch onto fish. Pull 20 stds. POOH but did not have fish. Break down fishing tool. Check grapple. Had small piece of metal stuck in mill control. Clean up over shot.

Date	Description of Work
11/13/01	Dress over shot. PU & RIH reversing tool T/11,260'. RU power swivel & work over fish. Turn and work mill control on to fish. POOH and recovered 2 jts drill rod 58.85'. LD fish and reversing tool. MU 2.50 junk concave mill. RIH and tag @ 11,318.85'. This is 5' high by the fish we pulled. RU power swivel. Mill to 11,321' and start to TQ & hang up. Circ up some frac, sand and fine metal. Circ and mix Hi-Vis polymer sweep. Try to mill lost hole @ 11,318'. By numbers we should be in packer ext.
11/14/01	LD power swivel. POOH W/2 ½" mill. Measure tbg out of well. Remove PGSR and found mill rounded off on top and bottom. RU equip for BOPE test. Run in test plug and could not get to seat and test. After repeated attempts found old tbg hanger "O" ring in hanger seat. Retrieve W/test plug. Test BOPE to MMS specs. MU 4 1/8" concave mill and RIH.
11/15/01	With 2 1/8" mill tag top of fish @ 11,302'. PU power swivel and mill down 3" in 30 minutes. Reverse well clean. Small amounts of metal returns. Mix up 20 Bbls high Vis Polymer pill and displace down tbg to 11,000'. Pull up out of pill. POOH W/4 1/8" concave mill and found wear pattern on mill. Consistent W/top of 1 ¾" drill rod. MU 4 1/8" mill on 2 drill collars W/jars and RIH. Tag top of drill rod @ 11,302'. PU power swivel. Mill on drill rod F/11,302' T/11,304'. When mill started to torque up. Took 2 hours to mill 2'. Acted like mill is on top of packer. PU and reverse well clean. Lots of metal returns. LD power swivel and start to POOH W/mill.
11/16/01	POOH W/4 1/8" mill and found mill was milling on drill rod above packer @ 11,304'. Break out safety joint from reversing assy and send to yard for possible back off extension (not re-usable). MU wash pipe. RIH and tag top of packer @ 11,304'. Rotate lightly on top of packer and reverse circ. Did not make any hole and returns were clean. Trip out of well W/wash pipe. Handle BHA assy and PU 2 3/8" pipe W/mule shoe. Trip in well W/mule shoe joint @ EOT.
11/17/01	Continue to RIH W/mule shoe joint and tag top of drill rod @ 11,304'. PU power swivel and prepare to reverse circ drill down from 11,304' to 11,307' and mule shoe quit going. Could not make any more hole. Change out PGSR circulating rubber. LD power swivel and prepare to POOH. POOH W/mule shoe joint and found 2 pieces of broken drill rod and end of mule shoe worn down. Measure and PU new joint of 2 3/8" tbg W/bottom of joint cut and made into wavy bottom mill W/tungsten carbide applied to bottom. Trip into well W/new wash over joint. PU power swivel and RU to reverse circ. Tag top of fish @ 11,306'. Drill down to 11,308'. Could not make any more hole and pump pressure increased to 1200 PSI. LD power swivel and prepare to POOH. POOH W/wash over joint.
11/18/01	POOH W/wash over joint and found end coned in on bottom. Decision made to run wireline impression block. Order out wireline unit. RU wireline unit and MU 4.250" impression block. RIH to 11,275' wireline measurement and set down to make impression. POOH and found IB had not taken a picture. MU 3 1/8" impression block

Date	Description of Work
	and RIH and set down @ 11,290'. POOH W/IB and found very slight impression along edge. Could not identify anything positive. MU 2 ¼" impression block and RIH and set down @ 11,292'. POOH and found slight imprint along edge. Could not identify anything positive. MU 2.5" stabilized mill and RIH and PU power swivel.
11/19/01	Tag top of fish @ 11,307' and mill down to 11,309'. Mill stopped. Getting small amount of metal returns. Pump pressured up to 2000 PSI. LD power swivel and POOH W/2.50" stabilized mill. Found indications on mill and stabilizer that we were inside packer milling on drill rod. Also found inside second jt of 2 3/8" tbg from bottom, 2 pieces of drill rod, one piece 11" long and the other piece 12" long. The pieces were milled in half. PU 2 3/8" jt of tbg W/mule shoe cut on bottom and RIH drifting 2 3/8" tbg. Nothing else was found in tbg. PU power swivel and start reverse circulation, engage top of fish @ 11,309' and drill down W/2 3/8" mule shoe to 11,323'. Stopped and could not make any more progress. Mix high Vis pill. Displace 10 Bbls high Vis pill to bottom W/60 Bbls fluid. LD power swivel and prepare to POOH. POOH W/mule shoe jt.
11/20/01	Continue to POOH W/wash over jt. Found jt to be 1.55" shorter than when ran. Decision was made to pick up and run reversing tool W/1 5/8" grapple. Pull on fish up to 100,000# and set grapple. Make many attempts to reverse out drill rod @ various weights. Grapple deeps slipping off. Could not get drill rod to back off. POOH and LD 2 3/8" tbg and fishing tool assy. RIH W/drill collars and wash pipe that was standing in derrick and pull and LD.
11/21/01	Break down fishing tools. MU packer assy and RIH W/production string. Land hanger and RU wire line. Make gauge run to 10,130'. RIH W/XX-plug. Attempt to set plug @ 10,116'. Set 7" packer @ 10,114' W/2500 PSI & test backside W/1000 PSI (OK). Bleed off SSV & install back pressure valve.
11/22/01	ND BOPE. Install production tree. Test bonnet to 3000 PSI. Clean well bay. Secure BOPE equip on the drill deck. RDMO.

RE-DRILL SUMMARY
PLATFORM "GILDA" OCS P-0216
WELL: S-44

REPORT DATE : 3/11/01 MD : 0 TVD : _____ DAYS : 0 MW : 12.0 VISC : 47

DAILY DETAILS : START OPERATIONS ON REDRILL OF S-44 AT 6:00 AM 3/10/01. HELD SAFETY MEETING. INSTALL BACK PRESS VALVE. NIPPLE DOWN PRODUCTION TREE. PUT PLUGS IN TBG HANGER, INSTALL RISER, NIPPLE UP BOPS, INSTALL DIVERTER. CHANGE OUT 2 7/8" RAMS TO 5" RAMS, FUNTION TEST BOPS. HELD SAFETY MEETING. FILL STACK, FIX FLOW LINE VALVES AND FLOW LINE LEAKS. RIG UP DOWELL TO TEST BOPS. TEST BOPS, 250 LOW 5000 HIGH.

REPORT DATE : 3/12/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 33

DAILY DETAILS : TEST BOPS/DIVERTER. RIG DOWN TESTERS, MAKE UP LANDING JOINT. BLEED DOWN CASING PRESS F/ 250 T/ 30 PSI. SHUT HYDRILL WITH 500 PSI, BACK OUT TIE DOWN PINS. WORK TBG HANGER SSSV& PACKER UP HOLE 25'. MONITOR WELL, NO CHANGE. CIRC WELL ON CHOKE WITH 100 PSI BACK PRESS 2 BBLS A MIN OVER RUN PRODUCTION SLOW DOWN TO A BBL PER MIN UNTIL SALTWATER COMING BACK. MONITOR WELL. CIRC WELL ON CHOKE DISPLACE WITH 9.5 MUD. MONITOR WELL. PULL TBG HANGER TO RIG FLOOR.

REPORT DATE : 3/13/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 52

DAILY DETAILS : PULLING TBG HANGER TO RIG FLOOR. TBG PARTED. RIG INSPECTION LOST 40000 IN WT CONTINUE TO PULL TO RIG FLOOR, LAY DOWN TBG HANGER, TRIP OUT TO SSSV, LAY DOWN, TRIP OUT WITH TBG, RECOVERED 108 JOINTS 3400'. WAIT ON FISHING TOOLS, CLEAN UP RIG, MIX MUD. MAKE UP OVERSHOT SPIDER IN HOLE LAY DOWN BAD TBG, PICK UP TBG, TAG TOP OF FISH 3485'. WORK OVER FISH, ENGAGE, WORK FISH UP AND DOWN TO 150000. WAIT ON WIRELINE UNIT. UNLOAD TOOLS, RIG UP WIRELINE. MAKE UP TOOLS, RUN IN WITH SINKER BARS TO SEE HOW FAR WE CAN GO.

REPORT DATE : 3/14/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.6 VISC : 54

DAILY DETAILS : RIH WITH 1 5/8" SINKER BARS (27' LONG), BARS STOPPED AT 5404'. POOH AND REMOVED 15' OF SINKER BARS. RIH WITH 12' OF 1 5/8" SINKER BARS. BARS STOPPED AT 5393'. POOH. L/D 1 5/8" AND P/U 22' OF 1" SINKER BARS. RIH AND BARS STOPPED AT 5372'. POOH. L/D SINKER BARS. RIH WITH 100 GRAIN STRING SHOT TO 5356'. PULLED UP TO 5324'. UNABLE TO PUT LEFT HAND TORQUE IN TUBING. PUT 10 TURNS IN AND GOT 1/2 TURN BACK. FIRED STRING SHOT TO JAR SCALE OFF OF TUBING. POOH. RIH WITH 1 7/8" CHEMICAL CUTTER. WORKED DOWN TO 4900'. PULLED UP TO 4876'. FIRED CHEMICAL CUTTER. POOH WITH WIRELINE. CHEMICAL CUTTER DID NOT CUT TUBING. P/U PUMP, LAY DOWN CIRCULATING HEAD AND CIRCULATED THROUGH OVERSHOT. WORKED PIPE IN AN ATTEMPT TO BREAK TUBING AT CUT. NO GOOD. TRIED TO RELEASE OVERSHOT FROM FISH. UNABLE TO GET TORQUE TO OVERSHOT. R/U WIRELINE. RIH WITH 1.58" JET CUT TOOL TO 7516'. POOH. RIH WITH FREE POINT TOOL TO 3560'. TOOL STOP WORKING. POOH. CHECKING OUT FREE POINT.

REPORT DATE : 3/15/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 46

DAILY DETAILS : RIH WITH FREE POINT. TOOK 15 SETTING. PARTIALLY STUCK FROM 7484' TO 6650'. FREE AT 6600'. TORQUE READING SHOWED PIPE ROTATING. POOH WITH FREE POINT. RIH WITH 1.58" JET CUTTING TOOL. CUT TUBING AT 4908' (WIRELINE MEASUREMENT). POOH. WORKED TUBING APART AT JET CUT. R/D WIRELINE. POOH WITH FISH. RELEASED OVERSHOT. RECOVERED AND LAID DOWN 45 JTS OF 2 7/8" TUBING (1413.36'). NEW TOP OF FISH AT 4897' (D. P. MEASUREMENT). BROKE OUT AND LAID DOWN KELLY, KELLY SPINNER, UPPER KELLY VALVE, KELLY BUSHING AND SWIVEL. P/U FISHING TOOL R/U AND PICKED UP 5" D.P. WORKED ON 5" PIPE SPINNER. CONTINUE PICKING UP 5" DRILL PIPE.

REPORT DATE : 3/16/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 46

DAILY DETAILS : CONTINUE PICKING UP 5" DRILL PIPE. MADE UP 3 1/2" SWIVEL/CIRCULATING HEAD ON 3 1/2" DRILL PIPE AND LAID DOWN. MILL OVER AND ENGAGED TOP OF FISH AT 4897'. P/U CIRCULATING HEAD AND CIRCULATED BOTTOM UP. JARRED ON FISH. SECURED WELL FOR ELECTRICIAN TO CHANGE BREAKER IN SCR HOUSE. R/U WIRELINE AND RAN 1.875" GAGE. STOPPED AT 7400". POOH. RIH WITH 1.58" JET CUTTER AND CUT TUBING AT 6611'. POOH JARRED FISH LOOSE. RIGGED WIRELINE DOWN. SECURED WELL. RIGGING UP TOP DRIVE.

REPORT DATE : 3/17/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 47

DAILY DETAILS : RIGGING UP TOP DRIVE AND ASSOCIATED EQUIPMENT.

REPORT DATE : 3/18/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 45

DAILY DETAILS : CONTINUE RIGGING UP TOP DRIVE. CIRCULATED BOTTOM UP. POOH WITH FISH. DID NOT HAVE FISH. OVERSHOT PARTED AT EXTENSION. M/U OVERSHOT WITH 2 7/8" GRAPPLE. RIH WITH OVERSHOT AND LATCHED ONTO FISH AT 4897'. JARRED ON FISH. PULLED TUBING LOOSE. HAD 23,000# OVER PULL OF TOTAL FISH WEIGHT. OVER PULL DECREASED AS PIPE WAS PULLED. PULLED UP TO 8900'. (T.O.L. AT 8909'). CIRCULATED BOTTOM UP AT 8900'. CONTINUE POOH WITH FISH. RELEASED OVER SHOTS AND L/D FISHING TOOLS. CHANGED ELEVATORS AND BAILS. POOH, LAYING DOWN 2 7/8" TUBING.

REPORT DATE : 3/19/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 45

DAILY DETAILS : CHANGED OUT TUBING TONGS. CONTINUE L/D 2 7/8" TUBING. RECOVERED 54 JTS, 1705' OF FISH. NEW TOP OF FISH AT 6602'. CUT OFF JOINT CALIPERED 2.875". M/U 7 1/4" GUIDE WITH 2 7/8" GRAPPLE. RIH TO 4899'. P/U 5" DRILL PIPE. WORKED OVER FISH AT 6602'. 5K DRAG F/ 6592' T/ 6602'. JARRED ON FISH 1/2 HOUR, 40,000# OVER PULL. OVER SHOT SLIPPING OFF FISH. POOH TO CHANGE GRAPPLE. CHANGED OUT 2 7/8" GRAPPLE AND ADDED 2' EXTENSION TO OVERSHOT. RIH WITH 7 1/4" GUIDE ON OVERSHOT WITH 2 7/8" GRAPPLE. REPLACED BROKEN AIR LINE ON DRAWWORKS. CONTINUE RIH WITH OVERSHOT. WORKED OVER FISH AT 6602'. 5K DRAG F/ 6592' TO 6602'. JARRED ON FISH WITH 80,000# OVER PULL. OVERSHOT STARTED SLIPPING OFF FISH. POOH TO CHANGE GRAPPLE.

REPORT DATE : 3/20/01 MD : 0 TVD : _____ DAYS : ____ MW : 9.5 VISC : 47

DAILY DETAILS : CONTINUE POOH WITH OVERSHOT. CHANGED GRAPPLE AND ADDED EXTENSION TO REACH TUBING COLLAR. RIH TO 3148'. SECURED WELL. ELECTRICIAN CHANGED CIRCUIT BREAKER TO TOP DRIVE. CONTINUE RIH TO 6602'. 5K DRAG F/ 6592' T/ 6602'. BROKE CIRC ABOVE TOP OF FISH AT 6602'. WHEN SLID OVER FISH, PUMP PRESSURE INCREASED TO 3000 PSI. SHUT PUMP OFF AND PRESSURE STAYED AT 3000 PSI. BLED OFF. WORKED OVER AND LATCHED TUBING COLLAR. JARRED ON FISH. SET JARS OFF 100K OVER FISHING STRING WEIGHT. PULLED 100K AGAINST FISH. RIGGED UP WIRELINE. RIH WITH 1 7/8" SINKER BARS. TOOLS SAT DOWN AT 6543'. WORKED WIRELINE WITH 90,000 STRING WEIGHT. UNABLE TO PASS 6543'. PULLED UP TO 200,000 STRING WEIGHT. TOOL STOPS AT 6500'. UNABLE TO WORK THROUGH. POOH WITH WIRELINE.

REPORT DATE : 3/21/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : RIGGED DOWN WIRELINE EQUIPMENT. CIRCULATED HOLE CLEAN AT 6600'. LOTS OF SAND RETURN. POOH WITH OVERSHOT AND L/D FISHING TOOLS. P/U 8 1/2" BIT. RIH TO 6600'. NO DRAG. RABBIT DRILL PIPE. CIRCULATED BTM UP. INCREASED MUD WT TO 10.2 PPG. POOH WITH BIT. RIGGED UP AND PICKED UP 2 3/8" FLUSH JT TUBING.

REPORT DATE : 3/22/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 46

DAILY DETAILS : RIH WITH 2 3/8" FLUSH JT TUBING ON 5" DRILL PIPE. TORCH SAFETY DEPARTMENT HAD DRUG CHECK. CONTINUE RIH TO 6602' (TOP OF FISH). WORKED 2 3/8" TUBING PASS 2 7/8" TUBING. CLEANED SAND OUT FROM 6602' TO 6861'. CIRCULATED HOLE CLEAN. LOTS OF SAND. CLEANED OUT SAND FROM 6861' TO 8706'.

REPORT DATE : 3/23/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.5 VISC : 42

DAILY DETAILS : CONTINUE CLEANING OUT SAND FROM 8706' TO 8909' (TOP OF LINER). CIRCULATED HI-VIS SWEEP AROUND AT 8909'. WORKED 2 3/8" CS HYD TUBING INTO ANNULUS OF 7 5/8" CSG X 2 7/8" TBG. POOH TO 6830'. WAIT ON FILL. RIH TO 8909'. NO FILL. MIXED AND PUMPED HI-VIS AROUND. POOH TO 2 3/8", CLEAN OUT STRING. TUBING WAS BENT. POOH LAYING DOWN CLEAN OUT STRING. 10 JTS WERE BENT. R/U AND P/U 7" GUIDE SHOE WITH 2 7/8" EXTERNAL CUTTER ASSEMBLY AND 15 JTS OF 5 3/4" X 5" WASHPIPE (466.01'). RUNNING IN HOLE WITH WASHPIPE. NEXT B.O.P.E. TEST BEFORE 3/25/01.

REPORT DATE : 3/24/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 52

DAILY DETAILS : CONTINUE RIH WITH 2 7/8" EXTERNAL TUBING CUTTERS ON 5 3/4" WASHPIPE TO 6602'. WORKED CUTTER OVER FISH AND CUT TUBING AT 7036'. POOH TO TOP OF WASHPIPE. RIGGED UP 2 7/8" HANDLING TOOLS AND LAID DOWN 426' OF 2 7/8" FISH. NEW TOP OF FISH AT 7036'. POOH WITH WASHPIPE. RIGGED UP AND TEST BOPE. TEST ALL RAMS AND VALVES TO 250/5000 PSI AND ANNULAR PREVENTER TO 250/3500 PSI. WORKED ON REMOTE FOR LOWER PIPE RAM. WORKING ON HCR VALVE AT 0600.

REPORT DATE : 3/25/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 51

DAILY DETAILS : CONTINUE WORKING ON HCR VALVE. CHANGED VALVE STEM AND SEAT. TEST HCR VALVE TO 250/5000 PSI, GOOD. INSTALL WEAR BUSHING IN WELLHEAD. P/U 30 JTS OF 5" DRILL PIPE AND STOOD BACK IN DERRICK. P/U 5 3/4" WASHPIPE WITH 2 7/8" EXTERNAL CUTTER AND RIH TO 7036'. WORKED CUTTER OVER FISH TO 7478'. MADE FOUR ATTEMPS TO CUT FISH. POOH WITH WASHPIPE AND CUTTER.

REPORT DATE : 3/26/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 49

DAILY DETAILS : CONTINUE POOH WITH WASHPIPE. NO FISH. STOOD WASH PIPE BACK IN DERRICK. ADJUST BRAKES. CHANGED JARS. M/U OVERSHOT WITH 2 7/8" GRAPPLE. RIH. S.L.M. 10' DIFFERENCE. ADJUSTED DEPTH. NEW TOP OF FISH AT 7026'. BROKE CIRC TOP OF FISH. WORKED OVER TOP OF FISH. JARRED FISH LOOSE. POOH WITH FISH. PULLING WET. LAID DOWN FISH. RECOVERED 442.26'. NEW TOP OF FISH AT 7468'. RIH WITH 466' OF 5 3/4" WASHPIPE.

REPORT DATE : 3/27/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 51

DAILY DETAILS : CONTINUE RIH WITH WASHPIPE TO 7468'. WORKED WASHPIPE OVER FISH TO 7909'. CUT FISH AT 7909'. WORKED FISH LOOSE WITH CUTTERS. POOH WITH FISH. RIGGED UP 2 7/8" HANDLING TOOL AND LAID DOWN 441.09' OF FISH. NEW TOP OF FISH AT 7909'. SMALL AMOUNT OF GAS TRAPPED IN SAND WHILE BREAKING OUT TUBING. POOH WITH WASHPIPE AND LAID DOWN CUTTER. M/U SAWTOOTH ON WASHPIPE. P/U 7 MORE JTS OF WASHPIPE, TOTAL 665'. P/U 15 JTS OF 5" D.P. AND STOOD IN DERRICK. RIH WITH WASHPIPE WITH SAWTOOTH TO 7909'. CIRC AT 7909'. WASHED OVER FISH TO 8500'. LOT OF SAND RETURNS.

REPORT DATE : 3/28/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.3 VISC : 49

DAILY DETAILS : WASH OVER TBG 8563'. CIRC & COND MUD. TRIP OUT LAY DOWN JARS. DRESS OVERSHOT, MAKE UP FISHING TOOLS. SLIP & CUT DRLG LINE. TRIP IN TO 7909', TOP OF FISH. WORK OVER FISH TO 8469' ATTEMPT TO CUT, FAILED. TRIP OUT LAY DOWN TOOLS. BREAK DOWN TOOLS. MAKE UP OVERSHOT BUMPER SUB. TRIP IN.

REPORT DATE : 3/29/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.3 VISC : 49

DAILY DETAILS : TRIP IN WITH FISHING TOOLS. JAR ON FISH. TRIP OUT, NO FISH. DRESS OVERSHOT, TRIP IN. JAR ON FISH, TRY BACK OFF, NEG. TRIP OUT, RECOVERED 5' OF FISH. LAY DOWN FISHING TOOLS. MAKE UP 9 5/8" SCRAPER & BIT, TRIP IN, SERVICE & RE-TORQUING ALL CONN.

REPORT DATE : 3/30/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.3 VISC : 47

DAILY DETAILS : TRIP IN, SERVICE ALL CONN WITH SCRAPER. TAG FISH, CIRC BOTTOMS UP. TRIP OUT. TEST CASING, PUMPED 28 BBLS, 650 PSI SHUT DOWN PRESS, FELL FROM 650 TO 300 IN 10 MINS. TRIP OUT. MAKE UP MILL, TRIP IN. AT 5606' HIT TIGHT SPOT. MILL GOT THROUGH. JARED 90000 OVER STRING WT TO GET MILL BACK OUT. TRIP OUT TO INSPECT TOOLS. ALL TOOLS OK. BREAK DOWN ALL TOOLS. WAIT ON WIRELINE. WORK ON RIG.

REPORT DATE : 3/31/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.1 VISC : 48

DAILY DETAILS : CLEAN UP RIG. WAIT ON WIRELINE. RIG UP WIRELINE. RUN IN WITH 9 5/8" CALIPER TOOL TO 7800'. LOG OUT, BAD RUN, RE-RUN LOG. FOUND BAD SPOT FROM 5602' TO 5612'. RIG DOWN WIRELINE. WAIT ON WASHPIPE, RERUN WIRELINE LOG FROM 4875' TO 3890'. RIG DOWN WIRELINE. UNLOAD CREW BOAT. MAKE UP WASHPIPE BUMPER SUB & JARS. SERVICE RIG. TRIP IN WITH 8 1/8 WASHPIPE. GAGE RUN. TAG BAD SPOT. ATTEMPT TO WORK WASHPIPE THROUGH WITH 25000 DOWN NEG. TRIP OUT WITH PIPE. MAKE UP PACKER AND BUMPER SUB. TRIP IN.

REPORT DATE : 4/1/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : TRIP IN WITH PACKER TO 5645' SLOW ,FILL EVERY FIVE STANDS. PRESS UP ON PACKER SLOW TO 2250 PSI, DO LEAK OFF TEST, 1/4 BBL MIN 300 PSI BROKE BACK TO 250, SHUT DOWN, PUMP PRESS FELL TO 210, STABILIZE THERE, LEAK OFF WOULD BE 11.1+ UNSET PACKER LET RELAX 30 MINS. SERVICE RIG. TRIP OUT FOR CASING TEST, LAY DOWN PACKER. MAKE UP NEW PACKER, TRIP IN TO 5550', SET PACKER. DAYLIGHT SAVING TIME. TEST CASING TO 1000 PSI. TRIP OUT WITH PACKER, LAY DOWN. MAKE UP 8 3/8 SWEDGE BUMBER SUB JARS & 7" DC.

REPORT DATE : 4/2/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 45

DAILY DETAILS : TRIP IN WITH 8 3/8 SWEDGE. SERVICE RIG. TRIP IN TO 5600'. WORK SWEDGE IN & OUT OF BAD SPOT, 5 TO 10000 DRAG. TRIP OUT, LAY DOWN 8 3/8 SWEDGE, PICK UP 8 1/2 SWEDGE. TRIP IN WITH 8 1/2 SWEDGE. WORK SWEDGE 25K DOWN, 35K UP, RUN DC DOWN PASS 5600'. CIRC & COND MUD. TRIP OUT. LAY DOWN TOOLS. SERVICE RIG. MAKE UP 8 1/8 WASH PIPE, TRIP IN.

REPORT DATE : 4/3/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : TRY WORKING 8 1/8 WASH PIPE DOWN NEG 40K UP 25K DOWN. TRIP OUT. MAKE UP SHORT SHOE, TRIP IN. SLIP & CUT DRILL LINE. TRIP IN. WORK THRU TIGHT SPOT 35K UP 25K DOWN. TRIP IN TO 7890'. CIRC, SERVICE RIG. TRIP OUT 30K OVER AT 5600', LAY DOWN WASH PIPE. CLEAN ON RIG, SERVICE RIG. MAKE MILL ASSEMBLY. TRIP IN.

REPORT DATE : 4/4/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : MILLING AT 5600'. TRIP IN TO 7900'. SERVICE RIG. TRIP OUT, LAY DOWN MILLS. MAKE UP WASH PIPE, TRIP IN. ATTEMPT TO WORK THRU BAD SPOT, 15' INTO IT 38K PUSHING DOWN, 50K COMING UP. TRIP OUT, LAY DOWN MILLS. SERVICE RIG. MAKE UP MILLS, TRIP IN TO 5600'. MILL.

REPORT DATE : 4/5/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : MILL BAD SPOT. EQUIPMENT FAILURE, TOP DRIVE DOWN. CON'T TO MILL BAD SPOT FROM 5600' TO 5630'. TRIP OUT, LAY DOWN MILLS. SERVICE RIG. MAKE UP BHA. TRIP IN TO 5600', WORK THRU BAD SPOT 10K DOWN TRIP TO BOTTOM.

REPORT DATE : 4/6/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 47

DAILY DETAILS : REVERSE CIRC BOTTOMS UP 40 SKS, LOST 14 BBLS. CIRC BOTTOMS UP LONG WAY. TRIP OUT SLOW THRU BAD SPOT AT 5600'. 15K DRAG. TRIP OUT. LAY DOWN WASH PIPE AND TOOLS. SERVICE RIG. MAKE UP CEMENT RETAINER. TRIP IN TO 7885'. SET RETAINER AT 7885'. STING OUT & BACK IN. SET DOWN 25K . RIG UP DOWELL. HELD SAFETY MEETING. PRESS TEST LINES TO 3000 PSI. START INJECTION RATE. PUMPED 1 1/2 BBLS 2500 PSI. BLEED BACK 1 1/2 BBLS. NOTE: CONVERSATION WITH BRENT MARTIN & RISHI TYAGI OF MMS, AGREE TO LAY AT LEAST A 100' CEMENT PLUG ABOVE RETAINER. START CEMENT JOB. PUMP 10 WATER, 13 BBS CEMENT, 5 WATER, 125 MUD SLACK OFF 3'. REMOVE CEMENT LINES. PULL 3 STANDS. TRY TO REVERSE CIRC. NEG. PUMPED AWAY 20 BBLS. MAKE UP TOP DRIVE. PUMP DOWN DRILL STRING. NEG. 3500 PSI. TRIP OUT WITH PLUG. DRILL PIPE LAST 9 STANDS. CEMENTED UP.

REPORT DATE : 4/7/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.2 VISC : 54

DAILY DETAILS : LAY DOWN RETAINER, CLEAN FLOOR. PICK UP 23 JOINTS, TRIP IN 10 STANDS, CIRC, TRIP IN, TAG CEMENT AT 7855'. CIRC. LAY DOWN 2 JOINTS, RIG UP DOWELL, HELD SAFETY MEETING, PRESS TEST TO 2000 PSI, PUMP 10 BBLS OF WATER, 13 CEMENT DISPLACE WITH 3 WATER & 129 BBLS OF MUD. PULL 3 STANDS, REVERSE CIRC 2000 STROKES. TRIP OUT OF HOLE. MAKE UP PACKER, TRIP IN TO 5398'. SET PACKER, OPEN & CLOSE OPEN BYPASS. RIG UP DOWELL. HELD SAFETY MEETING. TEST LINES TO 3000 PSI, PUMP 10 WATER, 10 CEMENT, DISPLACE WITH 10 WATER,75 MUD. SHUT DOWN, CLOSE BYPASS, PACKER WAS UNSET, TRY TO RE-SET, NEG. SHUT RAMS, CONTINUE ON WITHOUT PACKER, DISPLACE WITH TOTAL OF 102 WITH DOWELL 5 BBLS DOWN CASING WITH RIG PUMP, HOLD PRESS 30 MINS, BLEED DOWN PRESS. PULL 5 STANDS.

REPORT DATE : 4/8/01 MD : 0 TVD : _____ DAYS : ____ MW : 10.1 VISC : 58

DAILY DETAILS : CIRC BOTTOMS UP. TRIP OUT, LAY DOWN TOOLS. LAY DOWN BAD DRILL PIPE, WASH PIPE & TBG. MAKE UP BIT, TRIP IN, TAG CEMENT AT 5437'. DRLG CEMENT FROM 5437' TO 5625'. CIRC & COND. TRIP IN, TAG CEMENT AT 7720'. DRLG CEMENT FROM 7720' TO 7785'. CIRC & COND MUD. TRIP OUT FOR BOP TEST.

REPORT DATE : 4/9/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.1 VISC : 40

DAILY DETAILS : PULL WEAR BUSHING, INSTALL TEST PLUG, RIG UP DOWELL. DO LEAK OFF TEST, PRESS TEST TO 370 PSI, LEAKED OFF TO 325 PSI IN 10 MINS. TEST BOPS/DIVERTER 250 LOW, 5000 HIGH, RIG DOWN DOWELL, PULL TEST PLUG, INSTALL WEAR BUSHING. PICK UP 10 JOINTS OF TBG, TRIP IN TO 1400'. EQUIPMENT FAILURE, SHIFTING RING ON THE OVER RUNNING CLUTCH CAME APART LETTING THE ELECTRIC BRAKE KICK OUT. CONTINUE TO TRIP IN TO 5614'. CIRC & COND MUD. RIG UP DOWELL. HELD SAFETY MEETING. MIX & PUMP 100 SKS OF CEMENT ACROSS BAD CASING FROM 5614' TO 5324'. RIG DOWN DOWELL, PULL 7 STANDS, SQUEEZE 16 BBLS DOWN CASING, 1 BBL A MIN 700 PSI, SHUT DOWN WITH 1500 PSI, 5 BBLS IN CASING, SHUT IN. WAIT ON CEMENT.

REPORT DATE : 4/10/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.1 VISC : 47

DAILY DETAILS : WAIT ON CEMENT. RELEASE PRESS 875 PSI, CIRC & COND MUD. TRIP OUT, LAY DOWN TBG. MAKE UP BIT, RUN IN HWDP, PICK UP 2000' OF 5" PIPE. SLIP & CUT DRILL LINE. TRIP IN, TAG STRINGERS AT 5220', CLEAN OUT CEMENT STRINGERS TO 5500', DRILL CEMENT FROM 5500' TO 5650', RUN IN TO 5920'. CIRC BOTTOMS UP. TRIP OUT TO PICK UP MILLS.

REPORT DATE : 4/11/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.2 VISC : 48

DAILY DETAILS : CONTINUE POOH. PICKED UP TAPERED MILL AND TWO WATERMELON MILLS. RIH. TEST CASING WITH 10.2 PPG AND 466 PSI. EMW 11.8 PPG. CONTINUE RIH TO 5600'. REAM BAD SPOT FROM 5606' TO 5614'. CHECK DRAG. 10K DOWN AND 15K UP. RETEST CASING WITH 10.2 PPG AND 470 PSI. EMW 11.8 PPG. POOH WITH MILLS. PICKED UP BHA FOR FEELER RUN. RIH. WORKED THROUGH TIGHT SPOT F/ 5606' TO 5675'. 15K DOWN 20K UP. RIH TO 7779'. 6' OF FILL. POOH ABOVE BAD SPOT AT 06:00.

REPORT DATE : 4/12/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.1 VISC : 52

DAILY DETAILS : PULLED UP TO 4665'. BROKE CIRC. REMOVED DRAWWORK GUARDS. DREYCO BALANCED DRAWWORK DRUM. INSTALLED GUARD. SLIPPED 150' OF DRILL LINE. LOWERED BLOCK TO FLOOR. UNSTRINGING BLOCK.

REPORT DATE : 4/13/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.1 VISC : 50

DAILY DETAILS : CONTINUE UNSTRINGING OLD BLOCK. STRUNG UP NEW BLOCK. PICKED UP BLOCK AND PINNED TO SWIVEL. UNPINNED TOP DRIVE. HUNG OFF BLOCK AND REMOVED EXCESS DRILL LINE FROM DRUM. BROKE CIRCULATION. PUMPED DRY JOB. POOH. L/D WASHPIPE. RIH WITH 8 1/2" BIT AND MECHANICAL COLLAR LOCATOR TO 7779'. WORKED COLLAR LOCATOR. DID NOT SEE CASING COLLAR. CLEANED OUT FILL FROM 7779' TO 7785'. CIRCULATED HOLE CLEAN AT 7785'. PULLED UP TO 5600'.

REPORT DATE : 4/14/01 MD : 7,785 TVD : _____ DAYS : ____ MW : 10.2 VISC : 48

DAILY DETAILS : CONTINUE POOH TO 5600'. PRESSURE TEST CASING AT 5600'. 10.1 PPG AND 585 PSI. EMW 12.6 PPG. GOOD. POOH. L/D COLLAR LOCATOR AND BIT. SERVICE RIG. WAIT ON WIRELINE UNIT. R/U WIRE LINE UNIT. RAN COLLAR LOCATOR. TOP OF CEMENT AT 7792' W/L MEASUREMENT. 7' DIFFERENCE BETWEEN W/L AND D.P. MEASUREMENT. FIRST COLLAR IS 30' ABOVE TOP OF CEMENT. POOH AND R/D WIRELINE UNIT. PULLED WEAR BUSHING. P/U WHIPSTOCK AND MWD. RIH TO 5600'. BROKE CIRCULATION. WORKED WHIPSTOCK THROUGH TIGHT SPOT AT 5606' TO 5614'. RIH TO 7700'. ORIENT WHIPSTOCK TO 54°. RIGHT OF HIGH SIDE OF HOLE.

REPORT DATE : 4/15/01 MD : 7,796 TVD : _____ DAYS : ____ MW : 10.1 VISC : 50

DAILY DETAILS : SET WHIPSTOCK SLIPS. PULLED 10K AGAINST. SHEARED OFF WHIPSTOCK. MILL STARTER MILL FROM 7765' TO 7768'. CIRCULATED BOTTOM UP. POOH. L/D MONEL AND STARTER MILL. SERVICE RIG. SET WEAR BUSHING IN WELLHEAD. M/U WINDOW MILL AND RIH TO 7765'. MILL FROM 7765' TO 7781' WITH WINDOW MILL. CIRCULATING AND CONDITION MUD FOR L.O.T.

REPORT DATE : 4/16/01 MD : 7,796 TVD : _____ DAYS : ____ MW : 11.0 VISC : 47

DAILY DETAILS : CONTINUE CIRCULATING HOLE. PERFORM F.I.T. WITH 10.2 PPG MUD AND 560 PSI. EMW 12.0 PPG AT 5999' TVD. POOH TO 5600'. DUMP AND CLEAN MUD TANKS. SENT TANK BOTTOMS TO PRODUCTION FACILITY. POOH L/D MILLS. SERVICE RIG. P/U MUD MOTOR, MWD AND JARS. RIH TO 2650'. WHILE DRIFTING 5" D.P., DRIFT FELL IN HOLE. DRAIN BOP STACK DOWN TO WELLHEAD. NO DRIFT. RIH TO 5000' TO ALLOW MORE STRETCH WHILE PULLING UP. CHANGED OVER MUD AT 5000'. POOH SLOW FROM 5000' TO 1500' WITH DRIFT RIDING ON STABILIZER ABOVE MUD MOTOR. OCCASIONALLY HANGING UP ON CASING COLLAR. FROM 1500' TO 1410' DRAG INCREASED. UP REAMED WITH 2 - 15,000 # DRAG WITH PUMP ON IDLE. RIH AT 06:00.

REPORT DATE : 4/17/01 MD : 7,796 TVD : _____ DAYS : ____ MW : 11.0 VISC : 46

DAILY DETAILS : CONTINUE RIH 7765'. WORKED THRU TIGHT SPOT AT 5606'. UNABLE TO PASS 7765'. CIRCULATED BOTTOM UP. CHANGED MUD SYSTEM OVER TO GELITE SP-101. POOH WITH 75K TO 100K DRAG FROM 7762' TO 5636'. CONNECTED TOP DRIVE AND UP REAMED FROM 5636' TO 5606' WITH HIGH ROTARY TORQUE. NO DRAG FROM 5606' TO SURFACE. STOPPED STAB ABOVE MUD MOTOR AT WEAR BUSHING. COULD NOT SEE DRIFT. POOH, NO DRIFT. L/D DIRECTIONAL BHA. P/U BIT. RIH WITH 8.5" BIT TO 7796'. TAGGED DRIFT AT 5606', SET 20K DOWN TO GET DRIFT GOING DOWN HOLE. CHASED DRIFT TO BOTTOM. CIRCULATING BOTTOM UP AT 7796'.

REPORT DATE : 4/18/01 MD : 7,796 TVD : _____ DAYS : ____ MW : 11.0 VISC : 44

DAILY DETAILS : CONTINUE CIRCULATING BOTTOM UP. PULLED UP 1 STAND AND HUNG BLOCK. SLIP AND CUT DRILL LINE. POOH, L/D BIT. P/U REV CIRCULATING TOOL. RIH. DRIFTED PIPE WITH 5" D.P. DRIFT. LAID ONE JOINT DOWN. CIRCULATED DOWN FROM 7775' TO 7796'. DROPPED BALL. WORKED FISHING TOOL FROM 7796' TO 7800'. POOH. L/D FISHING TOOL. NO FISH. P/U DIRECTIONAL BHA AND RIH TO 7763'. ORIENT MUD MOTOR. WORKED THRU WHIPSTOCK. CLEANED OUT TO 7796'.

REPORT DATE : 4/19/01 MD : 8,672 TVD : _____ DAYS : ____ MW : 11.1 VISC : 55

DAILY DETAILS : DIRECTIONAL DRILLED 8.5" HOLE FROM 7796' TO 8197'. CIRCULATED FOR WIPER TRIP. WIPED HOLE TO 7750'. 20-30K DRAG. HAD TO P/U TOP DRIVE FROM 7850' TO 7820'. BROKE CIRC. NO DRAG WHILE CIRC. WENT THRU WHIPSTOCK GOOD. DIRECTIONAL DRILL FROM 8197' TO 8672'. REAMING EACH STAND.

REPORT DATE : 4/20/01 MD : 9,332 TVD : _____ DAYS : ____ MW : 11.2 VISC : 49

DAILY DETAILS : CIRC FOR WIPER TRIP. WIPER TRIP FROM 8671' TO 7820', REAM TIGHT SPOT FROM 8020' TO 7950'. SERVICE RIG. TRIP IN CLEAN TO BOTTOM FROM 8576' TO 8671', NO FILL. DIRECTIONAL DRLG FROM 8671' TO 8800'. DRLG ROTATE FROM 8800' TO 8860'. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP FROM 8860' TO 7800', CLEAN 90' TO BOTTOM, NO FILL 30K OFF BOTTOM. DRILL ROTATE FROM 8860' TO 9332'. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP 9332' TO 8680'.

REPORT DATE : 4/21/01 MD : 10,090 TVD : _____ DAYS : ____ MW : 11.2 VISC : 50

DAILY DETAILS : DRILL ROTATE FROM 9332' TO 9710'. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP FROM 9710' TO 7800', BACK REAM F/9616' TO 9052', TRIP IN, REAM F/9426' TO 9616', NO FILL ON BOTTOM. DRILL ROTATE FROM 9710' TO 9995'. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP F/9995' TO 9530'. DRILL ROTATE F/9995' TO 10090'.

REPORT DATE : 4/22/01 MD : 10,445 TVD : _____ DAYS : ____ MW : 11.2 VISC : 52

DAILY DETAILS : DRILL ROTATE F/10090' TO 10279'. CIRCULATE FOR SHORT TRIP. WIPER TRIP/SHORT TRIP INTO CASING. REPAIR TOP DRIVE HOSE PROTECTOR, HYD HOSE & ELEC LINES & SERVICE TOP DRIVE & RIG AJUST BRAKES . TRIP IN CIRC DOWN F/9779' TO 9869', TRIP IN TO 10279', NO FILL. DRILL ROTATE SLIDE F/10279' TO 10445'.

REPORT DATE : 4/23/01 MD : 10,636 TVD : _____ DAYS : ____ MW : 11.3 VISC : 48

DAILY DETAILS : DRILL ROTATE SLIDE F/10445' TO 10467'. CIRCULATE FOR WIPER TRIP' WIPER TRIP/SHORT TRIP 5 STANDS. CLEAN TO BOTTOM 90' NO FILL. DRILL ROTATE SLIDE F/10467' TO 10636'. CIRCULATE BOTTOMS UP. TRIP OUT FOR BIT & TEST BOP. NOTE: RECEIVED VERBAL APPROVAL FROM RALPH VASQUEZ OF THE MMS TO JIM MARTIN FOR A 24 HOUR EXTENSION OF THE BOPE TEST.

REPORT DATE : 4/24/01 MD : 10,636 TVD : _____ DAYS : ____ MW : 11.6 VISC : 45

DAILY DETAILS : TRIP OUT OF HOLE SWABBING, TRIP BACK TO BOTTOM. CIRC & COND MUD WT UP TO 11.3. TRIP OUT TO SHOE, MONITOR WELL, TRIP BACK TO BOTTOM. CIRC & CONT MUD WT UP TO 11.6. TRIP OUT SLOW. LAY DOWN BHA TOOLS. PULL WEAR BUSHING. INSTALL TEST PLUG. TEST BOPS. RECEIVED VERBAL APPROVAL FROM MMS DISTRICT SUPERVISOR RISHI TYAGI TO BRENT MARTIN TO EXTEND THE BOP TEST DEADLINE 24 HOURS.

REPORT DATE : 4/25/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.6 VISC : 45

DAILY DETAILS : TESTED ALL RAMS AND VALVES TO 250/5000 PSI. ANNULAR PREVENTER TO 250/3500 PSI. PULLED TEST PLUG AND INSTALLED WEAR BUSHING. SERVICE RIG AND TOP DRIVE. L/D EXCESS DRILL COLLARS. P/U HOLE OPENER WITH 3' NOSE AND RIH TO 7781'. REAMED MUD MOTOR RUN FROM 7781' TO 9526'. (1745').

REPORT DATE : 4/26/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.7 VISC : 46

DAILY DETAILS : WASH/REAM MOTOR RUN F/ 9526' T O 10636'. CIRCULATE & COND FOR CASING. WIPER TRIP/SHORT TRIP TO CASING 7800'. SERVICE RIG & TOP DRIVE, OIL LEAK ON TOP DRIVE, FIXED THE LEAK, WIPE DOWN DRK, DID GET SOME DROPS IN THE WATER. TRIP TO BOTTOM. CIRCULATE FOR CASING. TRIP OUT TO RUN CASING. SOFT BREAK 30 STANDS OF PIPE, LAY DOWN HWDP & REAMER. PULL WEAR BUSHING, HELD SAFETY MEETING. RIG UP CASING CREW, MOVE SLIDE BACK ON TOP DRIVE.

REPORT DATE : 4/27/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.7 VISC : 46

DAILY DETAILS : HELD SAFETY MEETING. RUN 237 JOINTS OF 26#, 7", CASING 78 JOINTS OF S-95 HYD 521, 52 JOINTS OF P-110 HYD 521, 107JOINTS P-110 LTC. MAKE UP FLUTED HANGER, LAND AT 52' KB. SHOE AT 10600'. RIG UP DOWELL, CIRC CASING. HELD SAFETY MEETING. PUMP 20 BBLS OF CHEMICAL WASH & 20 BBLS OF MUDPUSHXT AT 12.5 PPG, SHUT DOWN, DROP BOTTOM PLUG. CEMENT 7" CASING WITH LEAD 650 SXS OF CLASS G -POZ-4%D20-.4D13-.2%D46-.2%D65 AND TAIL 250 SXS 0F CLASS G -.10GPSD80-.15GPSD81-.05GPSD47 DISPLACE WITH 20 BBLS OF WATER CHANGE OVER TO RIG PUMPS DISPLACE 382 BBLS BUMP PLUG WITH 500# OVER SHUT WELL IN. WAIT ON CEMENT.

REPORT DATE : 4/28/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.7 VISC : 46

DAILY DETAILS : WAIT ON CEMENT. RELEASE PRESS ON CASING, BRK OUT LANDING JOINTS, PULL DIVERTER, NIPPLE DOWN AT RISER & WELLHEAD, INSTALL PACK OFF, NIPPLE UP & INSTALL DIVERTER, INSTALL 3 1/2" RAMS IN BOP, RIG UP 3 1/2" TOOLS. MAKE UP PACKER, RUN IN AND SET, START TESTING BOPS 250 LOW, 5000 HIGH, PACKER STARTED LEAKING, CHANGE OUT PACKERS, CONTINUE TO TEST BOPS. SLIP & CUT DRILL LINE. LAY DOWN 5" DRLG PIPE.

REPORT DATE : 4/29/01 MD : 10,636 TVD : 7,556 DAYS : ____ MW : 11.7 VISC : 52

DAILY DETAILS : LAY DOWN 5" DRLG PIPE. MAKE UP BIT, PICK UP BHA & 3 1/2" DRLG PIPE TO 10513', TAG FLOAT. DRILL CEMENT/FLOAT EQUIP. CIRCULATE FOR CASING TEST & TEST 2500 PSI. DRILL CEMENT/FLOAT EQUIP. CLEAN OUT RAT HOLE TO 10636'.

REPORT DATE : 4/30/01 MD : 10,925 TVD : 7,769 DAYS : ____ MW : 12.1 VISC : 52

DAILY DETAILS : DRILL CEMENT/FLOAT EQUIP. CLEAN OUT TO 10636'. CIRCULATE & COND, RAISE MUD WT TO 12#. CONDUCT FORMATION INTEGRITY TEST LEAK OFF IS AT 15.8 PPG. TRIP OUT FOR BHA SLM. PICK UP BHA & TOOLS ANADRILL SET TOOLS TEST MOTOR. TRIP IN CLEAN TO BOTTOM NO FILL SURVEY. DRILL SLIDE ROTATE FROM 10636' TO 10925'.

REPORT DATE : 5/1/01 MD : 11,550 TVD : _____ DAYS : ____ MW : 12.3 VISC : 55

DAILY DETAILS : CIRCULATE FOR WIPER TRIP. CIRC, MAKE WIPER TRIP/SHORT TRIP FROM 10956' TO 10600'. SERVICE RIG. WORK ON TOP DRIVE OILER PUMP, OUT #1 PUMP LINERS LEAKING FIX 6BY8 PUMP. TRIP IN. DRILL ROTATE FROM 10925' TO 11180'. SERVICE RIG. DRILL ROTATE FROM 11180' TO 11434'. CIRC FOR WIPER TRIP. WIPER TRIP/SHORT TRIP FROM 11434' TO 10600'. DRILL ROTATE FROM 11434' TO 11550'.

REPORT DATE : 5/2/01 MD : 11,720 TVD : _____ DAYS : ____ MW : 12.3 VISC : 52

DAILY DETAILS : DRILL ROTATE F/ 11550' TO 11720'. CIRC FOR WIPER TRIP. WIPER TRIP/SHORT TRIP 5 STANDS. DRILL ROTATE F/ 11720' T 11782'. CIRCULATE FOR TRIP,. PUMP DRY JOB. TRIP FOR BIT. LD BHA & TOOLS, LOST ONE CONE WAIT ON MAGNET.

REPORT DATE : 5/3/01 MD : 11,782 TVD : _____ DAYS : ____ MW : 12.7 VISC : 51

DAILY DETAILS : WAIT ON TOOLS, SERVICE RIG AND TOP DRIVE. MAKE UP FISHING TOOLS. TRIP IN WITH JUNK BASKET AND RUNNING ON BACKUP GENERATOR POWER, 2 1/2 HOURS. CIRC BOTTOMS UP, WORK JUNK BASKET. TRIP OUT. CLEAN OUT BASKET, GOT PART OF A CONE. PU BHA & TOOLS. TRIP IN TO 10600'. CIRC & COND. WASH/REAM F/ 10600' TO 11185'.

REPORT DATE : 5/4/01 MD : 11,925 TVD : _____ DAYS : ____ MW : 12.9 VISC : 45

DAILY DETAILS : WASH/REAM F/ 11185' TO 11782'. DRILL ROTATE F/ 11782' TO 11925' TD. CIRCULATE FOR WIPER TRIP. WIPER TRIP/SHORT TRIP TO CASING SHOE 10600', TIGHT F/ 11750' TO 11650'. SERVICE RIG & TOP DRIVE, CHECK SWIVEL & TOP DRIVE FOR BENT SUB XO, SUB COULD BE BENT. TRIP IN ON FILL. CIRCULATE FOR LOGS, WT UP FROM 12.7 TO 12.9. TRIP OUT FOR LOGS. RIG UP LOGGERS. EQUIPMENT FAILURE, WAIT ON DIFF SENSER HEAD FOR LOGGING UNIT.

REPORT DATE : 5/5/01 MD : 11,925 TVD : _____ DAYS : ____ MW : 13.3 VISC : 45

DAILY DETAILS : EQUIPMENT FAILURE, WAIT ON NEW WT SENSER HEAD FOR LOGGING UNIT, NEW SENSER DID NOT WORK, WAIT ON PARTS. EQUIPMENT FAILURE, WAIT ON SCHLUMBERGER, TRIP IN CLEAN TO BOTTOM 65' NO FILL EQUIPMENT FAILURE, CIRC & COND MUD 1100 UNITS OF GAS WT UP TO 13.2. EQUIPMENT FAILURE, TRIP OUT TO LOG. EQUIPMENT FAILURE, RIG UP LOGGERS. LOGGING WITH AIT-PEX-CMR-ACTSTOOLS GOT TO 11745' LOG OUT LAY DOWN TOOLS MAKE UP LOGGING TOOLS, FMS-DSI-GR-ACTS- RUN IN.

REPORT DATE : 5/6/01 MD : 11,925 TVD : _____ DAYS : ____ MW : 13.3 VISC : 49

DAILY DETAILS : RUN IN WITH LOGGING TOOLS FMS-DSI-GR-ACTS- TO 11925', LOG STUCK LOGS AT 10650'. HOLE CONDITIONS, STUCK LOGS, WAIT ON FISHING TOOLS. HOLE CONDITIONS, MAKE UP FISHING TOOLS TO STRIP OVER WIRELINE. HOLE CONDITIONS, STRIP OVER WIRE LINE.

REPORT DATE : 5/7/01 MD : 11,925 TVD : _____ DAYS : ____ MW : 13.2 VISC : 48

DAILY DETAILS : HOLE CONDITIONS, STRIP OVER WIRE LINE, CIRC AT SHOE & AT FISH, LOGGING TOOLS FREE AT THIS TIME. HOLE CONDITIONS, PULL TOOLS INTO OVERSHOT, CUT LINE, PULL LINE OUT OF ROPE SOCKET, SPOOL UP LINE. HOLE CONDITIONS, TRIP IN TWO STANDS, TAG BOTTOM, TRIP OUT TO SHOE. HOLE CONDITIONS, CIRC & COND MUD, RIG DOWN LOGGERS, CHANGE OUT BAILS ON TOP DRIVE. HOLE CONDITIONS, TRIP OUT WITH TOOLS. HOLE CONDITIONS, LAY DOWN LOGGING TOOLS & FISHING TOOLS, LOAD OUT SAME. PU BHA & TOOLS,TRIP IN BHA. SLIP & CUT DRILL LINE. TRIP IN, TAG BOTTOM NO FILL. CIRCULATE & COND MUD FOR LINER. PUMP PILL DROP RABBIT TRIP OUT FOR LINER.

REPORT DATE : 5/8/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 48

DAILY DETAILS : TRIP OUT FOR LINER. CHANGE OVER TO COMPLETION AFE.

REPORT DATE : 5/8/01 MD : 11,925 TVD : 8,520 DAYS : 0 MW : _____ VISC : _____

DAILY DETAILS : RIG UP CASING CREW. PICK UP 35 JOINTS OF 5", 15#, P110, HYD 511 LINER. MAKE UP BAKER LINER HANGER, RUNNING ON BACK UP POWER. TRIP IN WITH 5" LINER TO 10550' FILLING PIPE. CIRCULATE BOTTOMS UP. TRIP IN WITH LINER, TAG BOTTOM, PICK UP 8'. CIRCULATE & ROTATE LINER. DROP BALL. SET LINER. USED DOWELL TO SHEAR BALL SEAT 4200#. LINER TOP AT 10262'. SHOE AT 11917'. LAP 337. TEST LINES TO 4200#. PUMP 20 BBLS CHEMICAL, 20 BBLS MUDPUSH 14.5 MIX AND PUMP 300 SKS CLASS G CEMENT WITH .35%D65 -. 35%D167 -.10GPSD81 -.2%D46. DISPLACE WITH 105 BBLS OF MUD. BUMP PLUG 1400 PSI. TEST PACKER 1200 PSI, PULL 5 STANDS, REV CIRC 16 BBLS BACK TO SURFACE. TRIP OUT.

REPORT DATE : 5/9/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 43

DAILY DETAILS : CONTINUE POOH. L/D LINER RUNNING TOOL. P/U 6.125" BIT AND 7" CASING SCRAPER. RIH TO 1000'. CHANGED OUT SUB ON TOP DRIVE. RIH TO 9762'. CHANGED OVER FROM SHORE POWER TO BACK-UP GENERATOR POWER. CLEANED OUT CEMENT FROM 9762' TO 10,262'. (TOP OF LINER). CHANGED BACK TO SHORE POWER. CIRCULATED SWEEP AROUND. PERFORMED LAP TEST WITH 1550 PSI WITH 13.2 PPG MUD. 520 PSI ABOVE L.O.T. POOH. L/D BIT AND CASING SCRAPER. P/U LAP TEST TOOLS. RIH

REPORT DATE : 5/10/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 45

DAILY DETAILS : CONTINUE RIH WITH LAP TEST TOOLS. R/U AND PUMPED 72 BBLS OF SEAWATER DOWN DRILL PIPE. SET PACKER AT 10,200' AND PERFORMED NEGATIVE LAP TEST WITH 1808 PSI UNDERBALANCE. (SWITCH FROM SHORE POWER TO BACK POWER AT 13:00.) UNSET PACKER AND REVERSED CIRCULATED SEAWATER OUT. (SWITCH TO SHORE POWER AT 17:30.). POOH WITH LAP TEST TOOLS. L/D SAME. SERVICE RIG. P/U HANDLING TOOLS, BIT, 5" CASING SCRAPER, 12 EA 3.25" D.C., 1317' OF 2 7/8" D.P. RIH.

REPORT DATE : 5/11/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 45

DAILY DETAILS : RIH WITH 4 1/4" BIT TO 10262', TOP OF LINER. CLEAN OUT CEMENT FROM 10262' TO 10285'. RIH, TAGGED CEMENT AT 11685'. C/O CEMENT FROM 11685' TO 11822'. (LANDING COLLAR). PUMPED HI-VIS SWEEP. CHANGED HOLE OVER TO SEAWATER WITH BIOCIDE. POOH LAYING DOWN 3 1/2" DP, 2 7/8" DP, 3 1/2" HWDP, 4 3/4" DC. NIPPLE DOWN B.O.P.E.

REPORT DATE : 5/12/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 45

DAILY DETAILS : INSTALL 13 5/8" X 2 9/16" ADAPTER FLANGE. SECURED WELL. RELEASED RIG AT 08:00 5/11/01. FINAL REPORT.

REPORT DATE : 7/28/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 13.2 VISC : 45

DAILY DETAILS : MOVE RIG TO S-44.

REPORT DATE : 7/29/01 MD : 11,925 TVD : 8,520 DAYS : _____ MW : 8.6 VISC : 29

DAILY DETAILS : MOVE RIG TO S-44. RIGGING UP. NIPPLE DOWN WELLHEAD CAP. INSTALL NEW WELLHEAD. NIPPLE UP BOPS, ACC & FUNCTION TEST.

REPORT DATE : 7/30/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.6 VISC : 29

DAILY DETAILS : UNLOAD BOAT LOGGING TOOLS. RU/RD SERVICE TOOLS SCHLUMBERGER. WORK ON SCHLUMBERGER UNIT. WAIT ON PARTS. LOGGING, CEMENT BOND LOG LOGGING TOOLS GOT TO 11470', WOULD NOT GO TO BOTTOM. TD IS 11822', RIG DOWN LOGGERS. INSTALL PITCHER NIPPLE, CHANGE OUT RAMS TO 3 1/2" & 2 3/8".

REPORT DATE : 7/31/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.6 VISC : 29

DAILY DETAILS : CHANGE OUT RAMS. FIX MUD SEAL ON RAM DOOR. INSTALL 2" VALVES ON WELL HEAD. INSTALL FLOW LINE. WAIT ON PERMIT. WORK ON RIG. OFF LOAD BOAT. MAKE UP TEST PLUG & 3-1/2" TBG. GOT PERMIT AT 1700 HRS. WAIT ON BOP TESTERS. TEST BOPS/DIVERTER. 250 LOW, 5000 HIGH. BAG 3500 PSI. BAG WILL NOT TEST. LAY DOWN TEST TOOLS. WORK ON BAG.

REPORT DATE : 8/1/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : TEST TOP DRIVE 250 / 5000 PSI. REMOVED BELL NIPPLE. UNSCREW CAP ON ANNULAR PREVENTER AND REMOVED OLD RUBBER. CLEANED AND INSPECTED. INSTALLED NEW RUBBER AND CAP. FUNCTION TEST. TEST ANNULAR PREVENTER 250 / 3500 PSI. GOOD. TEST SAFETY VALVE AND IBOP 250 / 5000 PSI. GOOD. R/D TEST EQUIPMENT. INSTALLED BELL NIPPLE AND FLOWLINE CENSOR. P/U 4-1/4" BIT, 5" CASING SCRAPER AND 52 JOINTS OF 2-3/8", 5.95#, P110 PH6 TUBING. P/U 3-1/2", 12.95#, PH6 TUBING.

REPORT DATE : 8/2/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : CONTINUE PICKING UP 3-1/2" TUBING. POOH WITH 3-1/2" TUBING TO 2-3/8" TUBING AND PICKED UP 9 JOINTS. WORKED ON FOOT THROTTLE. RIH WITH 3-1/2' TUBING. CONTINUE PICKING UP 3-1/2" TUBING (ALL TUBING WAS RABBITED). DID NOT TAG ANYTHING AT 11,470'. TAGGED AT 11,810'. CLEANED OUT FROM 11,810' TO 11,813'. UNABLE TO WORK PASS 11,813'. CIRCULATED HOLE CLEAN. PUMPED THREE 20 BBLS HI-VIS SWEEPS. POOH TO 10,226', TOP OF LINER AT 10,262'. WAIT ON FILL. RIH.

REPORT DATE : 8/3/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : TAGGED AT 11,813'. NO FILL. POOH. S.L.M. 5' DIFFERENCE. NO CORRECTION. R/U WIRELINE AND RAN CBT-USIT FROM 11,813' TO 10262'. R/D WIRELINE. RIH WITH 5" CASING SCRAPER. P/U 7" CASING SCRAPER ON 3 1/2" TUBING. RIH, WORKING EACH STAND TO 11,813'. CIRCULATED HI-VIS SWEEPS.

REPORT DATE : 8/4/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : CIRCULATE DRIL KLEEN. CLEANING HOLE WITH RETURNS GOING TO PRODUCTION. DUMP AND CLEAN MUD TANKS. CIRCULATED CAUSTIC SWEEP THROUGH CHOKE, KILL LINES AND FLOW LINE. RIGGED UP FILTER PRESS UNIT.

REPORT DATE : 8/5/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : TRANSFERED CABR2 FROM POLY TANK TO ACTIVE TANKS. CHECKED MUD, 13.1 PPG. WAIT ON CACL2 TO INCREASE MUD WT. CLEANED POLY TANKS WHILE WAITING. INCREASED CABR2 IN ACTIVE TANK TO 13.5 PPG. FILTERED 13.5 PPG CABR2 AND STORED IN POLY TANKS. R/U DOWELL TO TREE. R/U MANIFOLD. STARTED MIXING MUD PUSH. POLYMER LEAKED INTO ACTIVE SYSTEM. CLEANED ACTIVE TANKS.

REPORT DATE : 8/6/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 8.4 VISC : 29

DAILY DETAILS : WORKED ON SUCTION VALVE IN PILL TANK. UNABLE TO MIX. HELD SAFETY MEETING. OPENED SUBSURFACE SAFETY VALVE. 80 PSI ON CASING. 0 PSI ON TUBING. BLED OFF. TEST SURFACE LINES TO 4000 PSI. CIRCULATED CABR2 OUT OF S-65 AT INITIAL RATE .2 BPM WITH 1300 PSI. FINAL RATE .85 BPM WITH 1100 PSI. RECOVERED 445 BBLS, 400 BBLS OF 12.8 TO 13.3 PPG, 45 BBLS OF 11.2 TO 12.8 PPG. SECURED WELL. SITP 550 PSI. SICP 20 PSI. WEIGHT UP CABR2 TO 13.4 PPG AND FILTERING TO ECI TANK.

REPORT DATE : 8/7/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.5 VISC : 29

DAILY DETAILS : RIGGED UP DOWELL TO PICKLE TUBING IN S-44. CHECKED DOWELL PUMP. DISCHARGE AND SUCTION VALVE. HELD SAFETY MEETING. PRESSURE TEST SURFACE LINES TO 3000 PSI. PUMPED 1000 GAL OF 15% HCL. AND REVERSED OUT. DISPLACED SEAWATER WITH 13.4 PPG CABR2. CIRCULATED ONE HOLE VOLUME. FILTERED TO 6 NTU. POOH WITH 3 1/2" TUBING. L/D 7" CASING SCRAPER. CLEANED DECK AND RIG FLOOR WHILE WAITING ON SUMP PACKER.

REPORT DATE : 8/8/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : WAITING ON SUMP PACKER AND EQUIPMENT. POOH WITH 2 3/8" TUBING. CHANGED OUT VALVES IN MUD TANKS. R/U SCHLUMBERGER WIRELINE UNIT AND CHECK TOOL. RIH WITH 4" RING GAUGE TO 10,162', TOP OF LINE AT 10,262'. WHEN OPERATOR STOP AND PICKED UP TO GET UP WEIGHT, THE WIRELINE SKID UNIT SLID APP 20'. STOPPING WHEN UNIT RUN INTO RIG FLOOR DOGHOUSE. (WIRELINE UNIT WAS NOT SECURED TO PIPE RACK). REPOSITIONED AND CHAINED WIRELINE UNIT. ATTEMPT TO PULL UP TO GET LINE TENSION, TOOL WAS STUCK. WAITING ON FISHING TOOLS. P/U FISHING TOOL. R/U TO STRIP OVER WIRELINE. STIPPING OVER WIRELINE TO RECOVER GAUGE RING.

REPORT DATE : 8/9/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : CONTINUE STRIPPING OVER WIRELINE. TAGGED TOP OF FISH AT 10,276'. TOP OF LINER AT 10,262'. WORKED OVERSHOT OVER FISH AT 10,276'. PULLED FISH UP ABOVE LINER TOP. MAX OVERPULL 8K. INSTALLED "T" BAR CLAMP. PULLED WIRELINE OUT OF ROPE SOCKET. POOH WITH WIRELINE. BAD SPOT AT +/- 4000'. WOULD NOT GO THROUGH SHEAVE. CUT BURRS AND WORKED THROUGH. RE-HUNG SHEAVE. CONTINUE PULLING WIRELINE. R/D WIRELINE. CHANGED BAILS ON TOP DRIVE. POOH WITH FISH.

REPORT DATE : 8/10/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : CONTINUE POOH WITH FISH. APP 250' OF E-LINE ON TOP. LINE HAD PARTED, NOT PULLED OUT OF ROPE SOCKET. L/D FISH AND FISHING TOOLS. CHECKED GUAGE ON RING. FOUND TO BE 4.285". LINER DRIFT 4.283". RIH WITH 5" CASING SCRAPER. DID NOT TAG ANYTHING IN LINER. R/U TO REVERSE CIRCULATE. REVERSE CIRCULATE. CLEAN FILTER PRESS AND CHANGED PRESSURE GAUGE. REVERSE CIRCULATE HOLE CLEAN. POOH.

REPORT DATE : 8/11/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : CONTINUE POOH WITH CASING SCRAPER. HELD SAFETY MEETING. R/U SCHLUMBERGER WIRELINE. RIH WITH 4.25" GAUGE RING TO 11,900'. P/U SUMP PACKER. RIH ON W/L. CORRELATED. PACKER STUCK AT 11,727'. SET PACKER AT 11,727'. POOH AND R/D WIRELINE. RIH OPEN ENDED.. WORKED ON FOOT THROTTLE. CONTINUE RIH. TAGGED SUMP PACKER AT 11,722' TUBING MEASUREMENT. (11,727' W/L). R/U TO REVERSE CIRCULATE AND MIXING SWEEPS.

REPORT DATE : 8/12/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : MIXED SWEEPS. PUMP 10 BBLS OF HEC SWEEP, 40 BBL OF SATURATED SALT SLURRY, 10 BBLS OF HEC SWEEP, 25 BBLS SOLVENT SWEEP, PUMPED AROUND WITH CABR2 FILTERING FLUID. POOH. INSTALL TEST PLUG AND R/U SURFACE LINES. TEST BOP HAD PROBLEMS WITH CHART. NEW CHARTS ENROUTE TO RETEST.

REPORT DATE : 8/13/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : RECEIVED CHARTS AND RETEST BOPE. R/D TEST LINES AND PULLED TEST PLUG. P/U PERFORATING GUNS AND RIH RABBIT TUBING. WORKED ON FOOT THROTTLE. CONTINUE RIH WITH GUNS TO 11,722' (MEASURED DEPTH). LATCHED INTO SUMP PACKER AT 11,722' (MEASURED DEPTH). SPACED OUT. INSTALLED SAFETY VALVE. BROKE CIRCULATION. DROPPED BALL. PRESSURED UP AND FIRED GUNS WITH 2000 PSI. PERFORATED 12 SPF, 12 GM,RDX, .062 DIA. BOTTOM PERF AT 11,695' W/L DEPTH. TOP PERF AT 11,635' W/L DEPTH. MONITOR WELL, OK. POOH WITH GUNS. L/D SAME. RIH WITH 5", 15#, CASING SCRAPER.

REPORT DATE : 8/14/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : CONTINUE RIH WITH 5" CASING SCRAPER. WORKED SCRAPER FROM 11,722' TO 11,629', MEASURED DEPTH. REVERSE CIRCULATED HOLE CLEAN. WORK ON FOOT THROTTLE. POOH WITH SCRAPER. L/D SAME. PICKED UP AND RIH WITH SUPERMAX 12 GAUGE 316 SS/140 WIRE PRODUCTION SCREEN.

REPORT DATE : 8/15/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.4 VISC : 30

DAILY DETAILS : TRIP IN WITH SCREEN LINER, TAG SUMP PACKER AT 11727'. SPACE OUT TOOLS, CHANGE OUT BALES ON TOP DRIVE, RIG UP SCHLUMBERGER. HELD SAFETY MEETING. TEST 2" LINES TO 5000 PSI, DROP BALL, SET PACKER, TEST 3" LINES TO 10000 PSI. DADA FRAC FILL TBG WITH LINEAR GEL 80BBLS 5PPM 3000PSI LINE TOOLS UP TO SQUEEZE 2PPM 3000PSI STEP UP 2PPM TO 12PPM AT 5400PSI TOTAL OF 65BBLS. SHUT DOWN ISIP 2655PSI PUMPED 100BBLS 10PPM 6600PIS X-LINLCED GEL DISPLACED WITH LINEAR GEL STEPDOWN ANALYSIS INDICATED NO WELLBORE RESTRICTION CLOSER PRESS 1750PSI - 0.65PSI/FT-21%EFF SHUTDOWN 2665PSI. PUMP FRAC 10-11 PPM 5000-6700PSI PLACED 83000 LBS OF SAND WITH 27% PAD VOLUME DISPLACED WITH LINEAR GEL NET PRESS INCREASE 400-600 PSI SHUTDOWN PRESS 3200PSI. PUT TOOLS IN REV POSITION, REV CIRC, LOST ABOUT 145BBLS OF FLUID. MONITOR WELL, RIG DOWN SCHLUMBERGER, LOSING ABOUT 8 TO 10 BBLS/HR. MIX AND PUMP PILL 20 BBLS. MONITOR WELL. FLITER FLUID, MIX SALT PILL, LOST ABOUT 247 BBLS.

REPORT DATE : 8/16/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : MONITOR WELL, FILTER FLUID, PUMP SALT PILL. MONITOR WELL. MIX BAG BROMIDE, NO FLUID LOST, WORK WITH PRODUCTION, SHUT WELL IN, REPLACE SOME LINES ON PRODUCTION DECK. TRIP OUT FOR GUNS. RU/RD SERVICE TOOLS, WASH PIPE. MAKE UP GUNS. TRIP IN WITH GUNS & RABBIT PIPE. SET PACKER PLUG AT 11478' AND TEST SPACE OUT GUNS. DROP BALL, CIRC DOWN, FIRE GUNS FROM 11470' TO 11410'.

REPORT DATE : 8/17/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : CIRCULATE DOWN BALL FIRE GUNS MONITOR WELL. REV CIRC, START TRIP OUT WELL TUBING. REV CIRC ONE TBG VOL. TRIP OUT FOR SCRAPER AND PACKER PLUG OVERSHOT. LAY DOWN GUNS, MAKE UP SCRAPER & OVERSHOT. TRIP IN TO TOP OF PACKER. CIRCULATE FILTER FLUID, LATCH PACKER PLUG, REV CIRC. PULL PACKER PLUG, MONITOR WELL. TRIP OUT FOR LINER.

REPORT DATE : 8/18/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TRIP OUT, DID NOT HAVE PACKER PLUG. REDRESS OVERSHOT, TRIP IN. CIRC & WASH DOWN TO PLUG, LATCH ONTO PLUG, PULL OUT & IN PACKER A FEW TIMES. TRIP OUT WITH PACKER PLUG. LAY DOWN SERVICE TOOLS. PICK UP SCREEN LINER, START PICKING UP WASH PIPE AND SEALS. WRONG INTERNAL SEALS. LAY DOWN SCREEN LINER, TRIP IN HOLE TO 11470', WAIT ON SEALS.

REPORT DATE : 8/19/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : WAIT ON SEALS, TRIP IN TO 11470'. WORK ON RIG FILTER FLUID. TRIP OUT FOR SCREEN LINER. PICK UP LINER PACKER & WASH PIPE. TRIP IN WITH LINER.

REPORT DATE : 8/20/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TRIP IN 11478'. ATTEMPT TO STING INTO PACKER, TRY TO PRESS UP ON BACKSIDE, NEG. GETTING ALOT OF OVERPULL, PACKER COULD BE SETTING. RELEASE FROM LINER. TRIP OUT. MAKE UP RETRIEVING TOOL, TRIP IN. LATCH ONTO LINER, START OUT TIGHT 20' OFF BOTTOM, WORK THRU 60K OVER, TRIP OUT. LAY DOWN TOOLS & LINER, MULE SHOE SHOWS SIGNS OF SETTING DOWN. THE PACKER SHOWS SIGNS OF JUNK LONGSIDE PACKER & CASING, ONE LOCK NUT MISSING ON RETRIEVING TOOL. MAKE UP SEAL ASSY, TRIP IN TO SEE IF WE CAN GET STUNG IN.

REPORT DATE : 8/21/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TRIP IN WITH SEAL ASSY. TAG PACKER, ROTATE STRING, STING INTO PACKER 7' TO 9' IN TAKING WT. WORK SEALS INTO PACKER SETTING DOWN 30 TO 40K, LATCH INTO PACKER AND OUT. TRIP OUT FOR LINER. MAKE UP SCREEN LINER AND WASH PIPE, WELL TAKING FLUID. TRIP IN, STABBED INTO PACKER. STOPPED FLUID LOSS - LOST IN LAST 8 HRS, 296 BBLS. CHANGE OUT BAILS RIG UP SCHLUMBERGER. SAFETY MEETING, WAIT ON SCHLUMBERGER ENGINEER, PRESS TEST 2" LINES TO 5000 PSI 3" LINES TO 10000 PSI, DROP BALL, SET PACKER, RELEASE TOOLS, TEST BACKSIDE. PREJOB MEETING PUMP DATA FRAC.

REPORT DATE : 8/22/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : DATA FRAC 10 BBL AMIN AV PSI 4939. FRAC #2 AV PRESS 5400 PSI SCREENED OUT 45000 LBS IN PERFS. REV CIRC 265 BBLS, LOST 181 BBLS. RIG DOWN SCHLUMBERGER. PUMP 18 BBLS OF SALT PILL & HEC, SPOT ON BOTTOM. PULL 11 STANDS. MONITOR WELL. CHANGE BAILS ON TOP DRIVE. TRIP OUT FOR GUNS. LAY DOWN TOOLS. PICK UP PACKER PLUG & GUNS. TRIP IN TO 11306'. SET PACKER PLUG, SPACE OUT GUNS, DROP BALL, CIRC DOWN, FIRE GUNS. MONITOR WELL PULL 5 STANDS REV CIRC WELL UP TUBING. TRIP OUT FOR SCRAPER AND OVERSHOT.

REPORT DATE : 8/23/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TRIP OUT FOR SCRAPER AND OVERSHOT. TRIP IN WITH SCARPER 11300'. CLEAN MUD TANKS FILTER FLUID. CIRC FILTER FLUID, WASH DOWN LATCH ONTO PACKER PLUG. PULL PACKER PLUG OUT. MONITOR WELL. TRIP OUT FOR SCREEN LINER. MAKE UP SCREEN LINER WASH PIPE & PACKER. TRIP IN WITH LINER.

REPORT DATE : 8/24/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : TAG TOP OF LINER, STING IN & OUT. LATCH INTO PACKER. RIG UP SCHLUMBERGER. HELD PREJOB MEETING. DROP BALL, TEST 2" LINES TO 5000 PSI, 3"LINES TO 9000 PSI. SET PACKER, REV OUT BALL. PUMP DATA FRAC, 100 BBLS AT 4239 PSI AT 64 BPM. FRACTURE PERFORATIONS 11255' - 11295' WITH 616 BBLS OF SLURRY & 49,000 LBS SAND. AVG TREATING PRESSURE 3211 PSI AT 7.8 BPM. SCREEN OUT WITH 7#/GAL SLURRY ON PERFS. 30,000 LBS OF 20/40 ECONO PROP INTO PERFS. REV OUT 130 BBLS, NO LOSS OF FLUID. RIG DOWN SCHLUMBERGER. CHANGE OUT BAILS, PUMP 18 BBLS SALT & HEC PILL, SPOT PILL ON BOTTOM. PULL 10 STANDS, MONITOR WELL. TRIP OUT FOR SEAL ASSY. LAY DOWN TOOLS, MAKE UP TOOLS. TRIP IN WITH SEALS, SET SEALS.

REPORT DATE : 8/25/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : SET SEAL ASSY. LAY DOWN WORK STRING. RIG UP TO RUN PRODUCTION PRUETT-HYDRO TEST-CERTEX. MAKE UP 400 SERIES ESP PUMP CHEMICAL LINE ESP LINE PRUETT CHAMBER SLIDING SLEEVE AND HYDRO TEST.

REPORT DATE : 8/26/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : RUN PRODUCTION STRING. SPLICE ESP CABLE. RUN PRODUCTING STRING.

REPORT DATE : 8/27/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : RUN PRODUCTION STRING. MAKE UP PACKER AND SSSV. MAKE SPLICE ON ESP-PRUETT LINE -CHEMICAL LINE. MAKE UP CONTROL LINE. RUN IN HOLE. MAKE UP TBG HANGER. SPLICE PLUG ON ESP LINE. MAKE UP ALL LINES & TEST LAND TBG HANGER. NU/ND BOP/DIVERTER. NIPPLE UP TREE AND TEST.

REPORT DATE : 8/28/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : INSTALL PRODUCTION TREE & TEST. PUMP DOWN PUSH PILL DISPLACE WELL WITH SEAWATER 47 BBLS. TBG PRESS UP TO 2600 PSI, CASING PRESS FELL TO ZERO. ATTEMPT TO KEEP SSSV OPEN, COULD NOT. 7000 PSI ON CONTROL LINE, VENT VALVE DOES NOT APPEAR TO BE OPEN. PACKER IS SET, CAN NOT PUMP DOWN BACK SIDE. INSTALL BACK PRESS VALVE. NIPPLE DOWN TREE. NIPPLE UP BOPS. CHANGE OUT RAMS.

REPORT DATE : 8/29/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : CHANGE OUT RAMS, RIG UP TO TEST BOPS. TEST BOPS, 5000 HIGH, 250 LOW. MAKE TBG UP TO HANGER. CLOSE HYDRIL, PULL PACKER FREE, 35000# OVER PULL 450 PSI CASING PRESSURE. CIRCULATE DOWN TBG 1900 PSI TO OPEN SSSV, CIRC OUT 48 BBLS SALT WATER WITH CABR 5300 STKS TWO BBLS AMIN LONG WAY. SHUT DOWN PUMPS, NO PRESS, OPEN HYDRIL, MONITOR WELL. PULL TBG HANGER TO FLOOR, UNHOOK ESP CONTROL LINE & CHEMICAL LINE, APPEARS TO BE PLUGGED OFF, LAY DOWN TBG HANGER. PULL OUT OF HOLE, CONTROL LINE SMASHED AT SSSV, LAY DOWN VENT VALVE, SSSV & PACKER. SEND INTO TOWN TO BE REDRESSED. MONITOR WELL. WAIT ON TOOLS.

REPORT DATE : 8/30/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : MONITOR WELL. WAIT ON TOOLS. SPACED OUT TUBING. MADE UP PACKER & SCSSV. MADE SPLICE ON ESP-PRUITT LINE -CHEMICAL LINE. MADE UP CONTROL LINE. RUN IN HOLE. MADE UP TBG HANGER SPLICE PLUG ON ESP LINE. MADE UP ALL LINES AND TEST. LANDED TBG HANGER. N/D BOPE AND RISER. N/U PRODUCTION TREE.

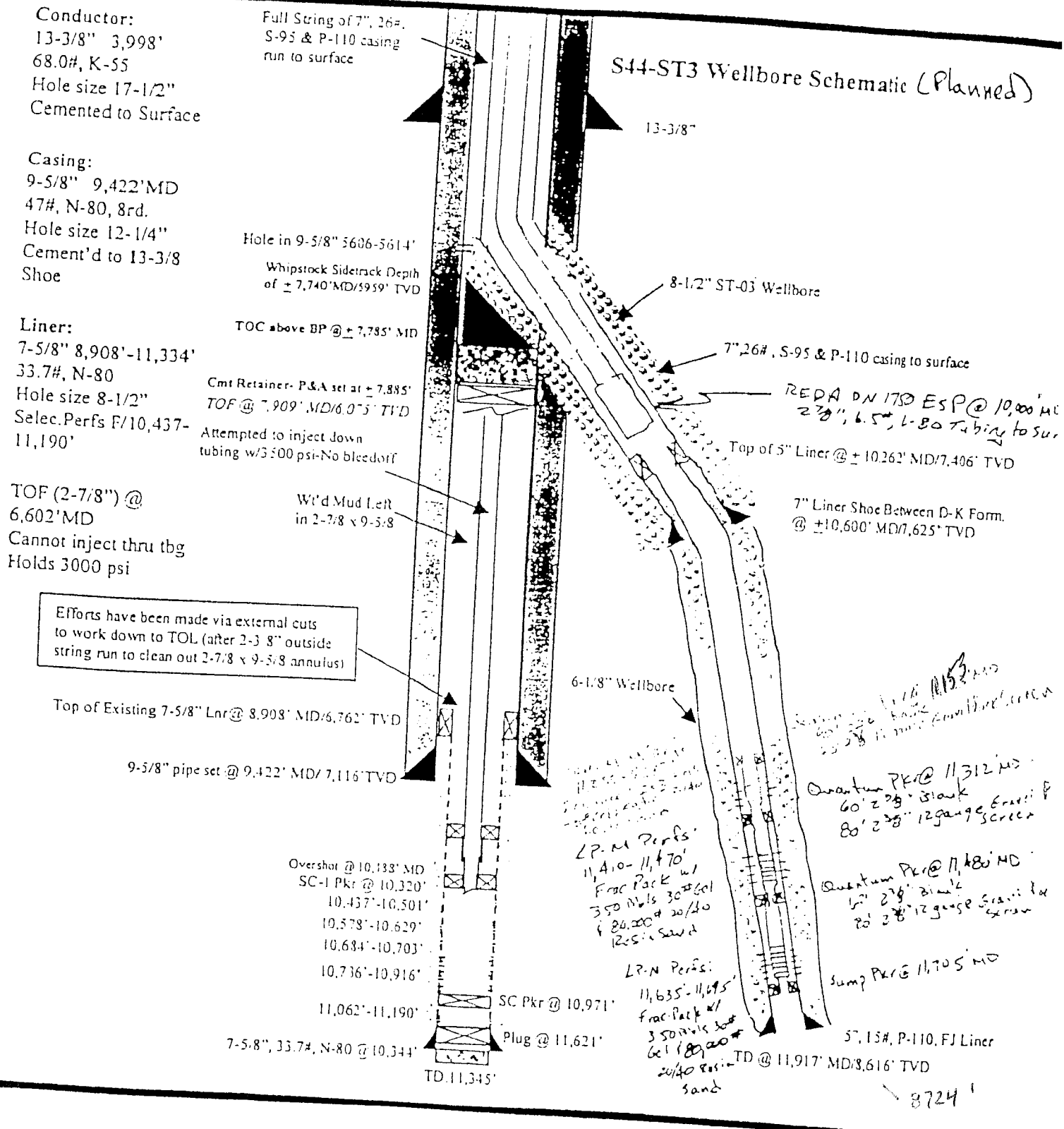
REPORT DATE : 8/31/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : CONTINUE TO NIPPLE UP TREE AND TEST. PUMP PUSH PILL AND CHANGED WELL OVER TO SEAWATER AT 1 1/2 BPM. R/U TRS WIRELINE. RIH AND CLOSED SLIDING SLEEVE AT 9726'. PULLED TOOL. RIH AND SET "X" PLUG AT 530'. PULLED RUNNING TOOL. PRESSURED UP AND SET "RDH" PACKER. RIH AND RETRIEVED "X" PLUG. R/D WIRELINE. TEST ANNULAR TO 500 PSI. TURNED WELL OVER TO PRODUCTION AT 17:00 HRS 8/30/01. PREPARED RIG FOR DEMOBILIZATION. BROKE DOWN BOPE STACK. RIGGING DOWN TOP DRIVE.

REPORT DATE : 9/1/01 MD : 11,925 TVD : 8,520 DAYS : ____ MW : 13.2 VISC : 30

DAILY DETAILS : RD SERVICE TOOLS & DOWELL UNIT TOP DRIVE. FINAL REPORT.

Operator:	Torch Operating Company	Spud Date:	2001
Field:	Santa Clara Field	KB:	107'
Well:	S44-ST03	County:	
Location:	OCS-P 0216		
API#:	04-311-20610-03/S01	Geological Marker: Lwr Repetto	



Gilda S-44

Current Schematic

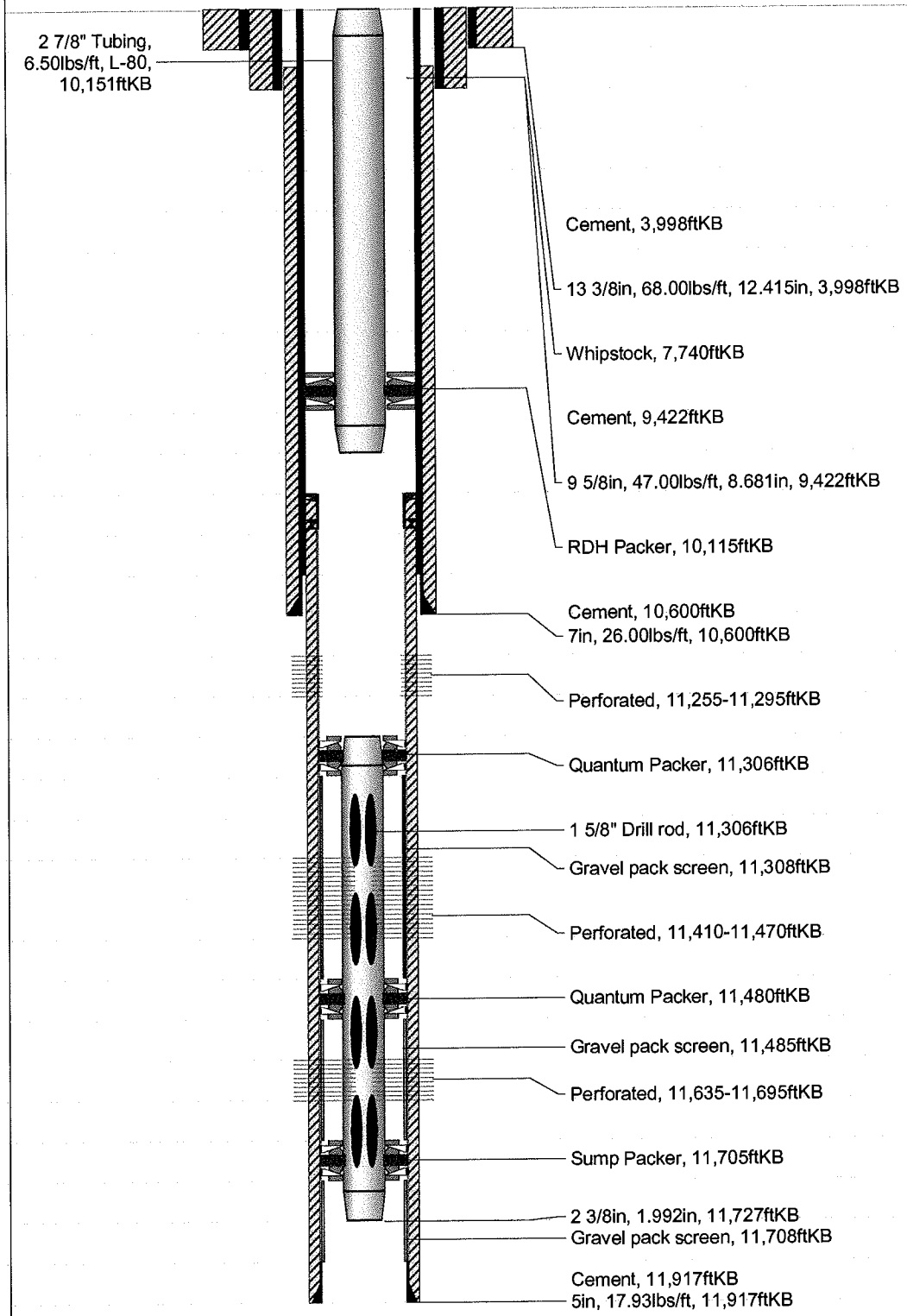
API	Field Name	Operator	State	Lease
0431120610	Santa Clara	Nuevo Energy	California	OCS P-0216

Comment

Total Depth (ftKB)

ReDrill ST 03: 9/23/2002

ftKB (MD)	Schematic - Actual	Geology
0		
3998		
7740		
7785		
7885		
7888		
8908		
8910		
9422		
10115		
10117		
10151		
10262		
10263		
10598		
10600		
11255		
11295		
11306		
11308		
11334		
11410		
11415		
11470		
11480		
11485		
11635		
11695		
11705		
11708		
11727		
11915		
11917		



MINERALS MANAGEMENT SERVICE
APPLICATION FOR PERMIT TO DRILL (APD)

Submit original plus three copies with one copy marked "Public Information"

OMB No. 1010-0044
Expiration Date: September 20, 2002

1 ORIGINAL X / CORRECTION	2. API WELL NUMBER/PRODUCING INTERVAL CODE	3. WELL NO.	11. OPERATOR NAME AND ADDRESS (Submitting Office)
	20610 03 04-311-~~20590-00~~/S01	S-44	NUEVO ENERGY 201 S. Broadway Orcutt, CA 93455

8. FIELD NAME	9. UNIT NUMBER	10. MMS OPERATOR NUMBER
Santa Clara	891012369A	01546

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Estimated)	4. LEASE NUMBER	5. AREA NAME	6. BLOCK NUMBER	7. OPD NUMBER
X = 1045986 Y = 753968 3614' FEL & 6352' FNL	P-0216	6B	4861	6B

WELL AT SURFACE

12. WELL LOCATION AT SURFACE (Surveyed)	13. LEASE NUMBER	14. AREA NAME	15. BLOCK NO.	16. OPD NUMBER
X=1041775 Y=747981 7825' FEL 3501' FSL	P-0216	6B	4861	6B

18. WATER DEPTH (Estimated) (Surveyed)	19. ELEVATION AT KB (Estimated) (Surveyed)	20. RIG NAME	21. RIG TYPE
205'	107'	TORCH 10	PS

22. TYPE OF WELL:	23. SPUD DATE (Proposed)	24. TOTAL DEPTH (Proposed)
EXPLORATORY ___ DEVELOPMENT X	010106 -VOID- Approved via sundry (attached) (535)	MD 11895' TVD 8587'

25. ATTACHMENTS

(Attach complete well prognosis and attachments required under 30 CFR 250.414(b) through (g) or 30 CFR 250.1617(c) and (d), as appropriate)

See attached supporting documentation for project details

CONFIDENTIAL
RECEIVED
NOV 27 2000
MINERALS MANAGEMENT SERVICE
CAMARILLO DISTRICT

26. CONTACT NAME	27. TELEPHONE NUMBER
Brent H. Martin	(661) 395-5201
28. AUTHORIZING OFFICIAL (Type Name)	**29. TITLE**
Suzanne Foley	as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE	**31. DATE**
	001121

THIS SPACE FOR MMS USE ONLY

APPROVED: ☒ With attached conditions ☐ Without conditions

by _____ Title District Supervisor

API Well No. assigned to this well: _____ Date _____

PAPERWORK REDUCTION ACT STATEMENT: The Paperwork Reduction Act of 1995 (44 U.S.C.3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Response to this request is mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.118. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Publick reporting burden of this form is estimated to average 3 1/2 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, NW, Washington, DC 20240.

FORM MMS-123 (September 1999) (Replaces all previous editions of Form MMS-123 which will not be used)

OCS-P0216
PLATFORM GILDA
WELL S-44 Redrill
LOCATION OF WELL

AT SURFACE:	7825' FEL AND 3501' FSL
Lambert Cal 6 Coordinates	X = 1041775 Y = 747981
KICKOFF POINT:	6687' TVD / 8800' MD 4877' FEL AND 8277' FNL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1044723 Y = 752043
TARGET NO. 1: LP "L" ZONE	8016' TVD / 11150' MD 3711' FEL & 6821' FNL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1045889 Y = 753499
TARGET NO. 2: LP "M" ZONE	8139' TVD / 11311' MD 6720' FNL & 3690' FEL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1045910 Y = 753600
TARGET NO. 3: LP "N" ZONE	8371' TVD / 11613' MD 6529' FNL & 3651' FEL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1045949 Y = 753791
BOTTOM HOLE LOCATION:	8587' TVD / 11895' MD 6352' FNL & 3614' FEL of OCS-P0216
Lambert Cal 6 Coordinates	X = 1045986 Y = 753968

TORCH OPERATING COMPANY
SANTA CLARA FIELD
PLATFORM GILDA

S-44 ST DRILLING PROGRAM
REDRILL OF S-44

November 12, 2000

Proposed TD: 8587' TVD / 11895' MD

Surface Location: Slot No. 81
X = 1041775 Y = 747981 Cal Lambert Zone VI
7825' FEL 3501' FSL

Subsurface Location: 6109' North and 4023' East of surface location at 8587' TVD
X = 1045986 Y = 753968 3614' FEL & 6352' FNL

Elevation: 205' WD, 107' Above MLLW

KB Elevation: 312'

OBJECTIVES – S-44 RE-DRILL:

Markers	VSS	TVD	MD	Est. Press. (psi)
LP-D	7050'	7157'	9730'	2200-2500
LP-K	7696'	7803'	10872	4500-5000
LP-L	7909'	8016'	11150'	4500-5000
LP-M	8032'	8139'	11311'	4500-5000
LP-N	8264'	8371'	11613'	4500-5000
TD	8480'	8587'	11895'	4500-5350

Existing Csg/Liner/Tbg				Measured Depth
20"	94#	K-55		0 – 726'
16"	75#	X-52		0 – 1583'
13 3/8"	68#	K-55	Buttress	0 – 3998'
9 5/8"	47#	N-80	8RD	0 – 9422'
7 5/8"	33.7#	N-80	Hydril SFJ	8908' – 11344'
2 7/8"	6.5#	N-80	EUE Tbg	Set F/52' elev (tbg hgr) to 10104' MD

Existing Production Packer

Halliburton 7 5/8" RH Packer set @ 10104' MD

Tubular Dimensional Data
9-5/8", 47#, N-80, 8RD –8.681" ID, 8.525" Drift
7-5/8",33.7#, N-80, Hydril SFJ- 6.765" ID, 6.64" Drift
2-7/8", 6.5#, N-80, EUE - 2.441" ID, 2.347" Drift

Previous Shoe, TOL, and Casing Tests
9-5/8" shoe @ 9422' MD/7115' TVD – Original LOT = 18.2 ppg
7-5/8" liner lap @ 8909' MD/6762' TVD – Original lap test = 2500 psi w/14.7# CaBr
Last Recorded 9-5/8" casing test = 1200 psig w/14.0 CaBr packer fluid (2/6/88)

Tailpipe Assembly below the Existing Production Packer
75.85' of 2 7/8" tailpipe includes "x" nipple located at 10140' MD
5 ½" OD Baker cut lip guide overshot with a straight pull release
O/S slides over tubing stub left in the wellbore (above the "RH" packer set @ 10,188') with the top of the cut at 10202' MD WL measurements

Perforations (all depths MD)

Perforations	Perforations
10437-10501'	10736-10916'
10578-10629'	11062-11190'
10684-10703'	

- The 2-7/8" tubing string may have holes @ 5409', 6696', 7003', 7479', 7885', and 8025' (all MD). The largest tool that was successfully lowered through the tubing string was a 1.85" OD gauge ring. Larger sizes wouldn't pass.

- Completion Fluid left in the wellbore is 8.5 ppg filtered seawater (completion report dated 01-30-95 – UNOCAL).

Equipment in Wellbore from previous Completions
Prev. Prod. Packer: 7-5/8" Halliburton Packer set @ 10188' MD

Assembly associated with Previous Prod. Packer: As per diagram, the tubing left in the hole above the old packer is a 23' piece of cut off tubing, and a four (4) foot 2-7/8" pup joint. It appears from the well schematics, that the "RH" packer @ 10188' MD is attached to the above equipment. The equipment below the packer, but above the gravel pack assembly is a 2' pup joint, one full joint of tubing, an "XN" nipple, a 10' pup joint, and shear sub with tubing guide below.

Objective to P & A old wellbore
- Attempt to set a bridge plug @ ≤ 150' of the top perforation with at least 50' of cement on top

PROCEDURE TO SECURE/DECOMMISSION & SIDETRACK S-44 WELLBORE

1. Skid Torch Rig No. 10 and TESCO electric top drive over slot #81, Well #S-44. Transfer 13.7 ppg "LSND" mud from workboat to rig. Check tubing and casing pressures.
2. *Ensure SSSV is in the open position. RU EWL unit with lubricator. Test lubricator to expected MASP of 4370 psi. Make a 1.85" OD gauge ring run to a depth of + 10080' MD. PU a 1-9/16" through tubing gun and RIH to attempt to perforate above the "RH" packer @ 10104'. If perforating operation is successful, circulate kill mud around until the well is dead. Proceed to Step #4. If perforating guns cannot be lowered to the desired depth, proceed to step #3.
3. RD EWL unit. RU lines and test same to 2500 psi. Pump through the top of the Christmas tree and tubing. A return line is to be rigged up below the tubing hanger to the mud tanks. Pump down the tubing and check for returns on the tubing/casing annulus. Observe to see if mud returns verify a hole in the tubing. Once mud returns are realized, RU the pump with a "Tee" to tie in to both the side outlet below the tubing hanger and to the top of the Christmas tree. Pump 13.7 ppg kill mud down the tubing and the tubing/casing annulus until wellbore conditions are stable. Do not exceed 2100 psi pressure on the tubing/casing annulus. Monitor tubing conditions to ensure the well is static.
4. Close the SSSV. Install a BPV in the tubing hanger and ND tree. NU a 13-5/8", Class IV, 5M BOP. Retrieve BPV. Pressure SSSV to open position. Test pipe and blind rams to 250/5000 psi and the annular preventer to 250/3500 psi in accordance with Field Rules and MMS regulations.
5. Screw landing joint into the tubing hanger. Pull a tensile force over string weight to release "RH" packer set at 10104' MD. Pull string out of the wellbore. Circulate and condition the mud to balance at 13.7 ppg. POH. LD all production equipment.
6. Install a wear bushing in the tubing head.
7. RIH with a 9-5/8", 47# scraper to the top of the 7-5/8" liner @ 8909' MD. Circulate out. POH and LD scraper.
8. RU EWL. Run a Multi-finger 9-5/8"casing caliper profile tool and log the 9-5/8" casing from the 7-5/8" TOL @ 8909' MD back to the casing hanger at the surface. POH. RD EWL.
9. MU a 9-5/8" retrievable packer and RIH and set same as close to the top of the 7-5/8" liner top as possible. Test the 9-5/8" casing to 2100 psi to confirm casing integrity.
10. RIH with a fishing string to latch 2-7/8" cut tubing. Attempt to engage the cut at 10,202' WLM/10,184' tbg measurement with overshot. If TOF is successfully latched with overshot, initially try straight pull to release fish. If this does not release the assembly,

10. RIH with a fishing string to latch 2-7/8" cut tubing. Attempt to engage the cut at 10,202' WLM/10,184' tbg measurement with overshot. If TOF is successfully latched with overshot, initially try straight pull to release fish. If this does not release the assembly, jar on the fish in an effort to unseat the packer at 10188', or to part the shear sub @ 10287' MD.

11. POH. If fish could not be successfully retrieved, the TOC engineer will contact the MMS representative to determine alternate procedure to plug and secure the existing well for sidetrack. If the shear sub parts @ 10827' MD, a bridge plug will be set immediately above the TOF (i.e. - 150' from the top perf @ 10437' to 10287' MD). If the assembly is successfully retrieved, the well will be cleaned out to the SC-1 packer @ 10320' MD.

12. PU a 7-5/8" casing scraper and RIH to either TOF or SC-1 packer as per above. Circulate out. POH and LD scraper.

13. PU 7-5/8 bridge plug. RIH. Set same close to the top perforation as possible (as per Step 11 above). After releasing from the bridge plug, set down 15k# weight. Verify set. PU & RU pumping unit. Mix and spot a 100' length balanced cement plug (25 sx) above the bridge plug. POH. LD setting tool.

Note: MMS to be given 24 hrs advance notice of the BP tag for ample opportunity to witness if desired.

14. MU and RIH with whipstock BHA with one trip window milling system. Orient and set whipstock. Shear off and cut window from ~8800' to ~8840' MD. Circulate bottoms up. POH.

15. MU and RIH with 8-1/2" bit and steerable directional assembly. Directionally drill from KOP of 8800' MD/6687' TVD to 8850' MD/6720' TVD as per directional program. (NOTE: Do not drill more than 50' of new open hole without conducting LOT). Conduct formation integrity test (FIT). Plot pressure verses cumulative volume of mud pumped. Continue pumping until the pressure no longer increases linearly with the mud volume pumped. Calculate the equivalent mud weight at the shoe. Record the mud weight used and leakoff test pressure on both the TOC drilling report and the IADC report. Directionally drill to ±10,872' MD/7803' TVD as per attached directional plan.

16. POOH. PU an 8-1/2" hole opener and RIH. Open hole from 8800' to 10,872'MD. Circulate bottoms up. POH.

17. MU a packed hole conventional rotary assembly with the MWD to monitor inclination/azimuth. Run the packed hole assembly to bottom and drill the 8-1/2" hole to proposed TD at 11895' MD/8587' TVD.

18. Circulate and condition mud. Make a wiper trip to the 9-5/8" casing window. Circulate and condition mud. POH for logs.

19. RU EWL unit. Log the 8-1/2" wellbore as per attached logging program using the tubing conveyed method. RD EWL unit.

20. Retrieve the wear bushing from the tubing head.

21. Rig up and run 7", 26#/ft, S-95, Hydril 521 liner. The liner hanger will be equipped with a tie-back extension.

22. TIH with liner to TD. Obtain pickup and slackoff weights while running last stand.

23. Rig up cementing equipment and install cementing head. Circulate until calculated bottoms-up is above liner top. Increase pump rate to normal speed. Circulate minimum of drillpipe and liner volume. Reciprocate liner continuously while circulating.

24. Test lines to maximum anticipated pressure. Drop ball, set hydraulic liner hanger. Release from same. Sting back into liner. Pump spacer ahead of slurry. Mix and pump the following slurry (volume based on theoretical + 25% excess in open hole).

    668 cf Class "G" + 2.0% D-20 Gel (extender) + 0.40% D65 (dispersant) + 0.35% D167 (f.loss) + 0.2% D13 (retarder) + 0.2% D46 (de-foam)

Weight	15.0 ppg
Yield	1.31 cf/sx
Water required	6.06 gal/sx

    Note: Adjust additives based on final log temperature.
    Note: Final volume to be based on caliper log.
    Note: Fluid Loss, Thickening Time, & Compressive Strengths to be determined from actual lab tests with dry samples

25. Liner should be rotated (if possible) while pumping and displacing the cement. After the cement is pumped, release dart and displace drillpipe and liner with mud. Bump plug with 500 psi over final circulating pressure.

26. POOH 10 stands and reverse out. POOH. LD liner setting tools.

27. RIH with 8-1/2" bit and drill cement to the TOL @ ± 8500' MD/6481' TVD. Circulate until cuttings clear shaker. Close the annular preventer and test the TOL to * value. POOH. LD DC's.

    *In accordance with MMS regulations, test the ~~7-5/8"~~ 7" (535) liner lap to a minimum of 500 psi above the formation fracture pressure at the window of the 9-5/8" casing (ie.-example: the anticipated fracture gradient at the window at 6686' TVD would be 14.8 ppg. If the seat at the window proves this to be true,

then the TOL would be tested to (((0.052)x(14.8)x(6686) + 500) – (0.052)x(13.7)x(6686)) = 885 psig).

28. PU 4-3/4" DC's and 6-1/8" bit. RIH to TOL. Clean out 7" liner to the top of the float collar at ± 11815' MD.

29. Displace the drilling fluid in the production liner/casing with a CaBr completion fluid. POOH.

30. Begin completion operations.

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S-44 REDRILL
CASING DESIGN

Size	Interval		TVD	WT	Description		Min. Cplg. Strength	Pipe Body Strength	TDF Cplg	TDF Pipe	Collapse Pressure at Bottom	Collapse Resistence Tension	CDF	Burst Pressure	Min. Int. Yield	BDF
	Top	Btm		lb/ft	Grade	Conn	Klbs	Klbs			Psi	Psi		Psi	Psi	
9-5/8"	0	8800	6687	47.0	N-80	LTC	Not Applicable – Cemented in Place				3895	4760	1.22	6211	6870	1.32
7"	8500	11895	8587	26	S-95	Hydril 521	591	877	6.7	9.94	6117	7800	1.28	4370	8600	1.96

Producing Case

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S-44 REDRILL
CASING DESIGN

9-5/8" Intermediate Casing String – Drilling through Whipstock Window Case

Effective Csg Window Depth is 8800' MD/ 6687' TVD (Existing String)

Casing: 9-5/8", 47#/ft, N-80, LT&C

Collapse

Collapse Rating 4760 psi

Assume pipe is evacuated with only 0.115 psi/ft gradient gas inside.

This string of 9-5/8" casing was set with 11.2 ppg MW in 1985.

P_C = 6687'(11.2)(.052) = 3895 psi

S_{FC} = 4760/3895 = 1.22

Burst

Burst rating 6870 psi

Max Anticipated MW to drill out – 13.7 ppg

MASP= 2090 psi (frac.press. -9-5/8" window w/ 1/3rd evacuation @TD – 6687' TVD)

1st calculate MASP to break down shoe with 1/3rd of wellbore evacuated with gas, assuming 0.115 psi/ft gas gradient and 2/3rd full of mud.

Upper one third of wellbore gas-filled = 8587*0.333=2860 ft

Fracture Pressure at 6687' TVD = 5146 psi

MASP = 5146-(2860)(0.115)-(0.052*13.7*(6687-2860)) = 2090 psi

1/3 of BHP at 8587' TVD = 5358*0.333 = 1785 psi

Therefore the greater value of 2090 psi is utilized

S_{FB} = 6870/2090 = 3.29

Tension Rating

Not applicable. Existing pipe already cemented in place.

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S-44 REDRILL
CASING DESIGN

9-5/8" Intermediate Casing String – Producing Case

Effective TOL Setting Depth is 8500' MD/ 6481' TVD (7" production)

Casing: 9-5/8", 47#/ft, N-80, LT&C

Collapse

Collapse Rating 4760 psi

Assume pipe is evacuated with only 0.115 psi/ft gas gradient inside.

Conditions are the same as assumed for the drilling case as this is an existing string set and cemented in 1985.

S_{FC} = 1.22

Burst

Burst rating 6870 psi

Production packer setting depth = 8200' TVD

MASP = BHP at total depth less the gas gradient (tubing leak at surface)

MASP = (.052)(12.0)(8587) – (0.115)(8587)

MASP = 4370 psi

$S_{FB\ TOP}$ = 6870/4370 psi = 1.57

Burst Pressure at Bottom = (MASP + Hydrostatic Comp. Fluid) – Pore pressure backup.

Burst Pressure at Bottom = (4370+((.052*14.0*8200)-(0.52)(12.0)(8200)))

Burst Pressure at Bottom = 5223 psi

$S_{FB\ BTM}$ = 6870/5223 PSI = 1.32

Tension Factor

Not applicable. Existing pipe already cemented in place.

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S-44 REDRILL
CASING DESIGN

7", 26.0#/ft, S-95, Hydril 521 Liner with Tieback Receptacle

Effective Setting Depth is 11895' MD/ 8587' TVD

Top of Liner to be at ±8500' MD / 6481' TVD

Estimated Top of Cement is 8500' MD

Collapse

Maximum Mud weight for the 7" casing interval is 13.7 ppg

P_C = (8587)(13.7 ppg)(.052) = 6117 psi

S_{FC} = 7800 psi / 6117 psi = 1.28

Burst

Anticipated WHP = (.052)(12.0)(8587)-(0.115)(8587) = 4370 psi

S_{FB} = 8600 psi / 4370 psi = 1.96

Tensile

Buoy Weight = (26.0)(8587-6481)(1-0.7906) = 11,466#

7", 26#, S-95, Hydril 521 Joint = 591,000#

Body = 877,000#

Design Factor with Buoyancy

S_{FJT} = 591,000# /((26)(11895-8500)-11466) = 7.69

S_{FB} = 877,000# /((26)(11895-8500)-11466) = 11.42

Design Factor Ignoring Buoyancy

S_{FJT} = 591,000# /(3395 ft x 26#'s/ft) = 6.70

S_{FB} = 877,000# /(3395 ft x 26#/ft) = 9.94

Maximum Overpull w/ Safety Factor – Ignoring Buoyancy

Jt = 591,000# /2 - 88,270# = 207,230#

OCS-P0216
PLATFORM GILDA
WELL S-44 Re-drill
CEMENT SLURRY DESIGN

ABANDONMENT PLUG (100' Length inside 7-5/8" Liner)

FLUID SPECIFICATIONS

Plug No.	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
1	25	/	1.15	=	22 sacks Class G Cement + 0.2 gal/sx D-80 (dispersant) + 0.1 gal/sx D-81 (retarder)

Cement Properties

	Plug No. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Plug Geometry

	Plug Top		Plug Bottom	
1	10220 ft	to	10320 ft	with 6.765 inch ID Casing

Note: Actual Volumes and Additive Concentrations are subject to refinement pending results of laboratory tests and wellbore temperatures realized

OCS-P0216
PLATFORM GILDA
WELL S-44 Re-drill
CEMENT SLURRY DESIGN

7-5/8" LINER

FLUID SPECIFICATIONS

Weighted Spacer — **20.0 bbls UltraFlush II @ 11 ppg**

Fluid	Volume Cu-Ft		Volume Factor		Amount and Type of Cement
Lead Slurry	668	/	1.31	=	510 sacks Class G Cement + 2.0% D-20 Gel (extender) + 0.40% D-65 (dispersant) + 0.35% D-167 (f.loss) + 0.2% D-13 (retarder) + 0.2% D-46 (de-foam)

***Displacement** — **248 bbls MUD @ 13.7 ppg**

***Assumes liner run on 4-1/2, 16.6# DP with TOL to be @ 8500') to be verified with the cementing and liner service representatives on the wellsite**

Cement Properties

	Slurry No. 1
Slurry Weight (ppg)	15.0
Slurry Yield (cf/sack)	1.31
Amount of Mix Water (gps)	6.06

Note: Actual Volumes and Additive Concentrations are subject to refinement pending results of laboratory tests and electric wireline logging results

OCS-P0216
PLATFORM GILDA
WELL S-44 Re-drill
PROPOSED LOGGING PROGRAM

Electric Logs

Interval (MD)	
9500' - 11895'	AIT/GR/NEUTRON/DENSITY/CMR
9500' - 11895'	DIPOLE SONIC

Mud Logs

Interval (MD)	
8800' - 11895'	Lithology, Rate of Penetration, Weight on Bit, Cuttings, Gas, Chromatograph, Hydrocarbon Shows

In addition to the logs, a rig floor drilling recorder will be used to record hook load, rate of penetration and pump pressure. Mud pit volume and flow rate recorders will also be located on the rig floor.

FORMATION	MD (FT)	TVD (FT)	SUBSEA (FT)
LP "L"	11150	8016	-7909
LP "M"	11311	8139	-8032
LP "N"	11613	8371	-8264

OCS-P0216
PLATFORM GILDA
WELL S-44 Re-drill
BOP PROGRAM

9 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi / 5000 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi
7 5/8"	13 5/8"	5000 psi	One blind and two pipes test to 250 psi /5000 psi
	13 5/8"	5000 psi	Annular test to 250 psi / 3500 psi

BOP's and related surface equipment, such as choke manifold, all lines inside BOP, Kelly valves, ect., will be tested on the initial activation, which will be after the tree is removed and the BOPE is NU and @ 14 day intervals between future tests.

Shaw, Shannon

From: Martin, Brent [Martinb@teai.ms-exchange.net]
Sent: Thursday, January 18, 2001 10:11 AM
To: 'shannon.shaw@mms.gov'
Cc: Miller, Sabrina; Martin, Brent
Subject: H2S Contingency Plan and Surface Mud Storage Volumes for Gilda S -44-ST03

Shannon:

With respect to the subject above and as discussed yesterday, comments below:

1) H2S Contingency Plan - No hydrogen sulfide has ever been encountered in the Upper Repetto formation at any point in time. During the drilling of the lower Repetto, no hydrogen sulfide concentrations have ever been detected. Only in recent production operations have occasional traces of hydrogen sulfide been detected. This is a result of the degeneration of microbes in the source water since injection has been initiated. As our selected sidetrack point is a considerable distance below the known oil/water contact point, we do not anticipate encountering even trace amounts of hydrogen sulfide. As per the mud program attached in the MMS Sundry application, the alkalinity of the drilling fluid will be maintained at all times above neutral at a PH between 8.5-9.0 value. Hydrogen sulfide gas can be identified by the
reduction of pH of the mud (ie. since the H2S is an acid gas, the pH of the mud is quickly reduced by
neutralization of OH-). Regular timed alkalinity checks of the mud properties will be conducted by the mud engineer at the site to monitor for possible hydrogen sulfide presence. In addition, a Garrett gas train will be kept at the location and used on a regular basis to monitor for the presence of hydrogen sulfide gas.

Shannon, I also had John Barker (safety representative for the drill crew-TRS) drop off a copy of the "Contingency Plan for Hydrogen Sulfide & Sulfur Dioxide" at your office. For the entire duration of our planned Gilda sidetrack and drill projects this year, we will be complying with this plan. Additional air packs will be provided for the extra personnel on board the platform during the activity period to comply with the plan. An orientation, including an initial H2S training program, will be provided for all personnel arriving at platform Gilda.

2) Surface Mud Tank Storage Volumes for Gilda S-44-ST03 - I propose 500 barrels active tank volume and 400 barrels of reserve tank volume during the S44 ST03 de-commissioning and drilling operations. The maximum total downhole cased hole volume during the de-commissioning/P & A phase is calculated at 715 barrels. The maximum total cased and open hole downhole volume during the sidetrack and 8-1/2" drilling phase calculates at 861 barrels. The proposed surface volume capacity exceeds the downhole volume for either phase which will be adequate. Efforts will be made to keep the tanks as close to a "topped off" status as practical at all times.

Shannon, I appreciate your help in getting the sundry approved. Please contact me if you have any additional questions.

Brent H. Martin
Drilling Engineer - Nuevo Energy Company
Office (661)-395-5201

OCS-P0216
PLATFORM GILDA
WELL S-44 Re-drill
WELL CONTROL PROCEDURE

The following well control procedure will be followed:

A. Taking a kick while drilling.

1. Position tool joint above the rotary table.
2. Shut down the pump and verify well flow.
3. Open choke line.
4. Close in upper pipe rams.
5. Close the choke line.
6. Read the shut in casing and drill pipe pressure.
7. Follow the normal kill procedures.

B. Taking a kick while tripping in/out of the hole.

1. Position tool joint above the rotary table and set slips.
2. Install full open safety valve in the open position.
3. Close safety valve.
4. Open the choke line.
5. Close the upper pipe ram.
6. Close choke line, install the kelly or top drive, and open safety valve.
7. Read the shut in casing and drill pipe pressure.
8. If necessary, and the string is "pipe light" or near balance point, pump a sufficient amount of fluid down the drill pipe and/or kill line to bring the SICP to a lower value (in any instance do not exceed MASP)
9. Close the annular preventer.
10. Open the upper pipe rams, remove the kelly and safety valve.
11. Strip in the hole while monitoring the shut in casing pressure. If casing pressure rises and string is near the "balance" point again repeat steps 1-10).
12. Once on bottom follow the normal kill procedure.

SANTA CLARA FIELD OCS-P0216
PLATFORM GILDA
WELL S-44 REDRILL

ANTICIPATED PRESSURES and MINIMUM MUD REQUIREMENTS

Depth	Hole Size	Csg Size	Casing Depth (MD)	Casing Depth (TVD)	Expected Frac Gradient	Expected Pressure Gradient	Maximum Mud Weight	Maximum Anticipated Surface Pressure	Criteria	Barite 100 lb sacks	XCD Polymer 25 lb sacks	H2s Scavenger 50 lb sacks
Feet	Inches	Inches	Feet	Feet	psi/ft	psi/ft	ppg	psi		Minimum Mud Materials Required on Board		
* 0-8800	12.25	9.625	8800	6686	0.77	0.530	11.6	2090	1	500	80	0
8500-11895'	8.5	7" Liner	11895	8587	0.84	0.624	16.7	4370	2	500	80	0

Criteria 1 Maximum anticipated surface pressure is pressure required to breakdown casing shoe with hole 1/3 full of gas and 2/3 full of mud at next casing point, or 1/3 of BHP at next casing point, whichever is greater.

Criteria 2 BHP – Gas Gradient (.115 psi/ft).

* Existing casing with window cut.



TORCH OPERATING COMPANY
Platform Gilda
Santa Clara Field
S-44 Rd
OCS-P-0216

Prepared By: Ray Ravitz
West Coast Area Manager
West Coast Area

November 2000

MI DRILLING FLUIDS
1000 S. Hill Road Suite 220
Ventura, CA 93003

Torch Operating Co.
Santa Clara Unit
California

Platform Gilda
Well #S-44 RD
OCS P-0216

OUTLINE OF PROPOSED DRILLING FLUID PROGRAM

INTERVAL	MUD WT. (PPG)	VISC. SEC / QT	FLUID LOSS (cc 30 min)	MUD COMPONENTS
8842' - 8852'	13.7	60 - 80	N/C	Seawater Durogel Soda Ash
Mill Window in 9-5/8" Casing				
8852' – 11,895'	13.7 +	45-55	<6 cc	Seawater Gelite Soda Ash SP-101 Barite Soltex Tannathin XCD Glydrill MC Xtra Lube Dril-XT
Run 7" Liner				

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DISCUSSION BY INTERVAL

INTERVAL:	Milling	9-5/8" Casing	8800' – 8842'

FLUID TYPE: Seawater/ Durogel

COMPONENTS WITH TYPICAL USAGE LEVELS:

Durogel	22 ppb
Soda Ash	.5-1 ppb
Sawdust	as needed
Barite	as needed for weight

RECOMMENDED MUD SPECIFICATIONS:

Density	13.7+ ppg
Viscosity	60-80 sec/qt.
Yield Point	30+
Fluid Loss	no control
3 rpm reading	20+

POSSIBLE PROBLEMS / SOLUTIONS:

1. Hole Cleaning
   a) Run the highest low shear rate as possible.
   b) Mill as quickly as possible.

DISCUSSION:

Mix .5 ppb of Soda Ash into Seawater.Add 20 ppb of Durogel. Shear as much as possible. The more shear the more the viscosity yield. Add enough Barite for a mud weight of 13.7ppg.

Initiate Milling, add more Durogel if the 3 rpm reading is below 20 as measured on a six speed VG meter. Run elevated rheologies to help remove the metal cuttings from the annulus.

After milling the window, set a cement kick off plug.
Add Sodium Bicarbonate to polish off the plug.

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DISCUSSION BY INTERVAL

INTERVAL: 8842' – 11,895' Drill 8-1/2" Hole for 7" liner

FLUID TYPE: Seawater / SP-101 / Gelite

COMPONENTS WITH TYPICAL USAGE LEVELS:

Gelite (Saponite)	15-17 ppb
Soda Ash ($NaCO_3$)	4-5 ppb
SP-101	1.5-2.0 ppb
Soltex or Ashasol	6.0 ppb
Barite (Barium Sulfate)	as needed
Dril-XT	as needed
Tannathin	as needed
XCD	as needed
Xtra Lube	2% as needed
Glydril MC	2% by Volume
SafeCarb VF.F,M,C	As per Opti-Bridge

RECOMMENDED MUD SPECIFICATIONS:

Density	13.7 + ppg
Viscosity	45-55 sec/qt
YP	12-18
3 RPM	8 - 12
Fluid Loss	<6
pH	8.5 - 9.0
T.H. as Ca++	200 ppm or less
MBT	18-25
Chlorides	20,000 mg/l +
LG Solids	< 6%

POSSIBLE PROBLEMS:

1. Gas
    a) Circulate out a small intrusion
    b) Raise mud weight if necessary

2. Kick
    a) Maintain good drilling practices. Keep the hole full - don't swab on trips. Monitor mud weight.
    b) Shut-in well. Raise mud weight.

3. Differential Sticking
    a) Maintain the API Fluid Loss below 6 cc
    b) Maintain 6 ppb of Soltex or Asphasol Supreme in the system at all times
    c) Maintain 2% Glydril MC alt all times
    d) Spot Sized Calcium Carbonate (SafeCarb) across the low pressure zones.
    e) Add Tannathin as a plugging agent.
    f) Add 2% by volume of Xtra Lube before running casing.
    g) Keep the amount of native drilled solid to a minimum with proper solids Control equipment.

4. Tight hole
    a) Wipe the hole.
    b) Reduce the fluid loss below 6 cc
    c) Raise the mud weight
    d) Add 2% Xtra Lube
    e) Spot Bridging Material

5. Solids build up
    a) Run all applicable solids control equipment We recommend running Swaco's ALS Shakers
    b) Dilute as much as possible

6. Bit Balling
    a) Add ½ % of Dril-XT
    b) For Severe balling add 1 % Dril-XT

7. Stuck Pipe
    a) Spot Pipe Lax ENV

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Santa Clara Unit
California

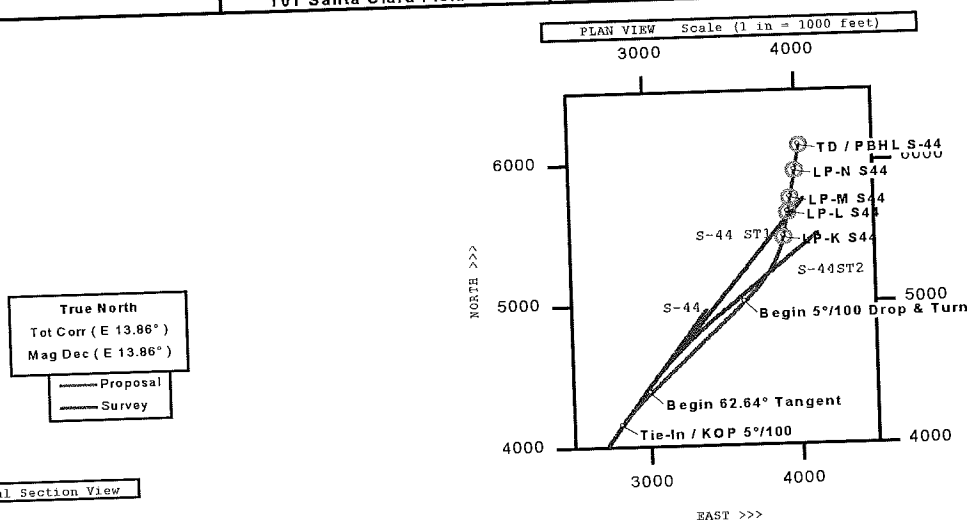
Platform Gilda
Well #S-44 RD
OCS P-0216

TORCH
GILDA S-44 RD PRESSURES

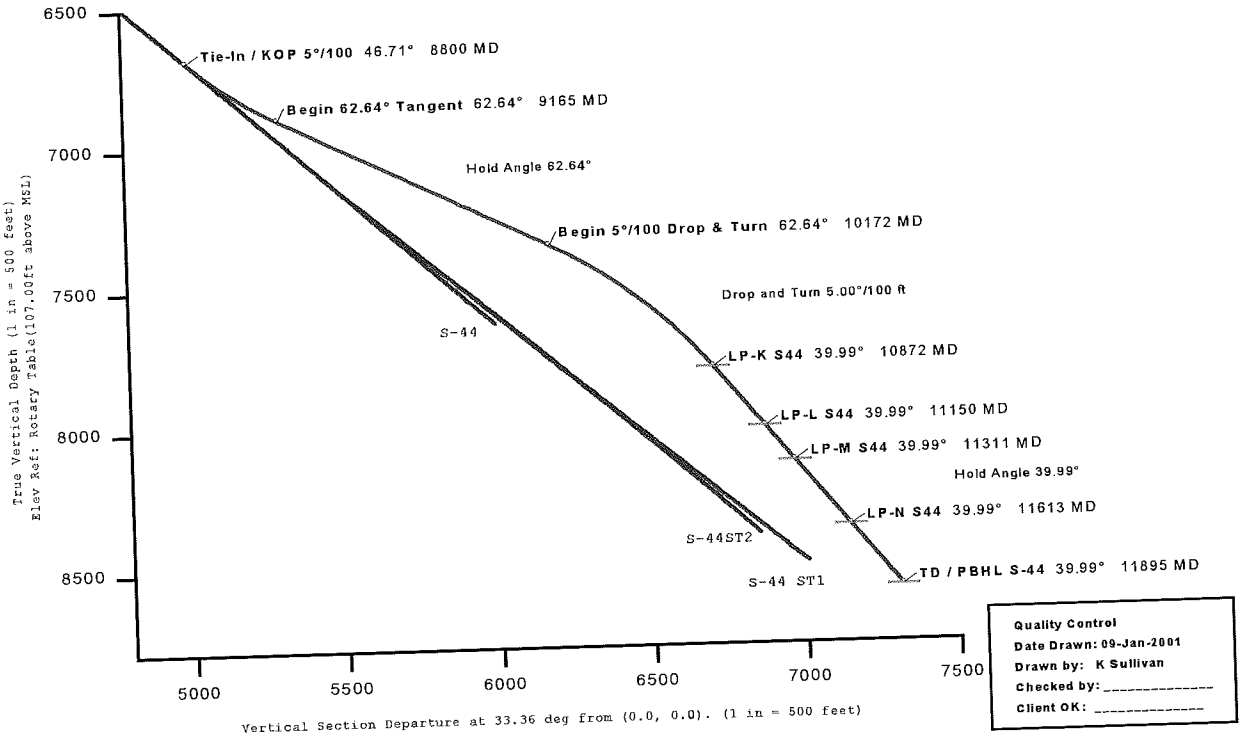
MARKER	MD	TVD	GRAD	FORM PSI	MUD WT.	OVER BALANCED AT TD
LP D	9570'	7157'	0.349	2500	6.71	2598'
LP K	10,666'	7803'	0.576	4500	11.1	1059
LP L	11,034'	8016	0.598	4800	11.5	911
LP M	11,261'	8139'	0.614	5000	11.8	798
LP N	11,564'	8371'	0.597	5000	11.5	964
TD	11895	8587'	0.624	5358	12	759

Torch Operating Company

WELL	FIELD	STRUCTURE
S-44	T01 Santa Clara Field	Platform Gilda



True North
Tot Corr (E 13.86°)
Mag Dec (E 13.86°)
Proposal
Survey



Quality Control
Date Drawn: 09-Jan-2001
Drawn by: K Sullivan
Checked by: _____
Client OK: _____

Schlumberger

Proposed Well Profile - Geodetic Report

Client:	Torch Operating Company	**Survey Computation Method:**	Minimum Curvature
Field:	T01 Santa Clara Field	**DLS Computation Method:**	Lubinski
Structure:	Platform Gilda	**Vertical Section Azimuth:**	33.360°
Well:	S-44	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Borehole:	S-44 ST2	**TVD Reference:**	Rotary Table
UWI/API#:			107.0 ft above MSL
Date:	October 27, 2000	**Magnetic Declination:**	14.018°
Grid Convergence:	-1.74109766°	**Total Field Strength:**	48207.422 nT
Scale Factor:	1.00006363	**Dip:**	58.814°
		Declination Date:	October 27, 2000
Location:	N 34 10 56.392, W 119 25 6.280	**Magnetic Declination Model:**	BGGM 1999
:	N 747983.300 ftUS, E 1041779.000 ftUS	**North Reference:**	True North
Coordinate System:	NAD27 California State Planes, Zone VI, US Feet	**Coordinate Reference To:**	Well Head

									Grid Coordinates		Geographic Coordinates	
Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Tie-In / KOP 5°/100	8800.00	46.71	33.98	6686.53	5014.39	4147.39	2819.36	0.00	752043.36	1044723.25	N 34 11 37.418	W 119 24 32.719
	8900.00	50.96	37.47	6752.35	5089.57	4208.43	2863.36	5.00	752103.04	1044769.09	N 34 11 38.022	W 119 24 32.195
	9000.00	55.31	40.56	6812.33	5169.14	4270.52	2913.75	5.00	752163.58	1044821.34	N 34 11 38.636	W 119 24 31.595
	9100.00	59.73	43.34	6866.03	5252.51	4333.20	2970.16	5.00	752224.52	1044879.64	N 34 11 39.256	W 119 24 30.923
Begin 62.64° Tangent	9165.40	62.64	45.03	6897.55	5308.78	4374.27	3010.10	5.00	752264.36	1044920.81	N 34 11 39.662	W 119 24 30.448
Begin 5°/100 Drop & Turn	10171.77	62.64	45.03	7359.98	6184.15	5006.00	3642.45	0.00	752876.62	1045572.10	N 34 11 45.911	W 119 24 22.919
	10200.00	61.57	43.99	7373.18	6208.62	5023.79	3659.94	5.00	752893.87	1045590.12	N 34 11 46.087	W 119 24 22.711
	10300.00	57.83	40.15	7423.65	6293.92	5087.81	3717.81	5.00	752956.11	1045649.92	N 34 11 46.720	W 119 24 22.022
	10400.00	54.21	35.99	7479.55	6376.51	5153.01	3768.97	5.00	753019.73	1045703.04	N 34 11 47.365	W 119 24 21.413
	10500.00	50.75	31.44	7540.47	6455.77	5218.90	3813.02	5.00	753084.25	1045749.07	N 34 11 48.017	W 119 24 20.888
	10600.00	47.48	26.43	7605.94	6531.09	5284.98	3849.64	5.00	753149.19	1045787.68	N 34 11 48.670	W 119 24 20.452
	10700.00	44.46	20.89	7675.46	6601.91	5350.74	3878.55	5.00	753214.05	1045818.58	N 34 11 49.321	W 119 24 20.108
	10800.00	41.73	14.75	7748.51	6667.69	5415.69	3899.52	5.00	753278.34	1045841.52	N 34 11 49.963	W 119 24 19.858
LP-K S44	10872.03	39.99	9.93	7803.00	6711.66	5461.68	3909.61	5.00	753324.00	1045853.00	N 34 11 50.418	W 119 24 19.738
LP-L S44	11150.03	39.99	9.93	8016.00	6875.57	5637.65	3940.41	0.00	753498.97	1045889.13	N 34 11 52.159	W 119 24 19.371
LP-M S44	11310.56	39.99	9.93	8139.00	6970.22	5739.27	3958.20	0.00	753600.00	1045910.01	N 34 11 53.164	W 119 24 19.159
LP-N S44	11613.36	39.99	9.93	8371.00	7148.76	5930.93	3991.74	0.00	753790.57	1045949.36	N 34 11 55.060	W 119 24 18.760
TD / PBHL S-44	11895.27	39.99	9.93	8587.00	7314.98	6109.38	4022.98	0.00	753968.00	1045986.01	N 34 11 56.825	W 119 24 18.388

Survey Program:

Measured Depth	Tool (Wolff & deWardt Error Model)
8800.00	
11895.27	

Schlumberger

ANTI-COLLISION SUMMARY REPORT

Client:	Torch Operating Company	*Slot:*	P-0216 S-44
Field:	T01 Santa Clara Field	*Well:*	S-44
Structure:	Platform Gilda	*Borehole:*	S-44 ST2
Subject Survey:	REV2 27Oct00	*Date:*	November 16, 2000
Analysis Method:	3D Least Distance	*Depth Interval:*	Every 100.00ft MD

Offset Survey	Separation(ft)		Subject Survey		Risk Radii(ft)			Alert	Status
	EOU	Ct-Ct	MD(ft)	TVD(ft)	Buffer	Minor	Major		
S-28	32.39	40.20	1000.00	999.99	16.00	15.00	12.00		FLOW
S-28RD	32.39	40.20	1000.00	999.99	16.00	15.00	12.00		FLOW
S-56	11.24	18.16	900.00	899.99	14.40	13.50	10.80		MINOR
	11.65	17.70	800.00	799.99	**12.80**	12.00	9.60	Enter Buffer	
	11.65	17.70	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	14.66	22.47	1000.00	999.99	16.00	**15.00**	12.00	Exit Minor	
	14.66	22.47	1000.00	999.99	**16.00**	15.00	12.00	Exit Buffer	
T010021p1r2	14.44	30.77	1900.00	1889.87	30.00	28.50	21.00		MAJOR
	26.13	40.14	1700.00	1698.53	**27.00**	25.50	19.00	Enter Buffer	
	18.71	33.79	1800.00	1795.54	28.50	**27.00**	20.00	Enter Minor	
	18.71	33.79	1800.00	1795.54	28.50	27.00	**20.00**	Enter Major	
	14.44	30.77	1900.00	1889.87	30.00	28.50	**21.00**	Exit Major	
	22.63	40.41	2000.00	1981.51	31.50	**30.00**	22.00	Exit Minor	
	22.63	40.41	2000.00	1981.51	**31.50**	30.00	22.00	Exit Buffer	
T01gs66p1r0	9.96	24.87	1800.00	1795.54	28.50	27.00	20.00		MAJOR
	23.08	36.12	1600.00	1599.68	**25.50**	24.00	18.00	Enter Buffer	
	23.08	36.12	1600.00	1599.68	25.50	**24.00**	18.00	Enter Minor	
	12.27	26.22	1700.00	1698.53	27.00	25.50	**19.00**	Enter Major	
	9.96	24.87	1800.00	1795.54	28.50	27.00	**20.00**	Exit Major	
	9.96	24.87	1800.00	1795.54	28.50	**27.00**	20.00	Exit Minor	
	9.96	24.87	1800.00	1795.54	**28.50**	27.00	20.00	Exit Buffer	
S-1	13.53	24.81	1400.00	1399.97	22.40	21.00	16.00		MAJOR
	15.23	23.89	1100.00	1099.98	**17.60**	16.50	13.00	Enter Buffer	
	15.23	23.89	1100.00	1099.98	17.60	**16.50**	13.00	Enter Minor	
	13.56	23.97	1300.00	1299.98	20.80	19.50	**15.00**	Enter Major	
	15.06	27.22	1500.00	1499.93	24.00	22.50	**17.00**	Exit Major	
	21.00	34.04	1600.00	1599.68	25.50	**24.00**	18.00	Exit Minor	
	21.00	34.04	1600.00	1599.68	**25.50**	24.00	18.00	Exit Buffer	
S-10	15.69	23.49	1000.00	999.99	16.00	15.00	12.00		BUFFER
	15.69	23.49	1000.00	999.99	**16.00**	15.00	12.00	Enter Buffer	
	17.54	26.22	1100.00	1099.98	**17.60**	16.50	13.00	Exit Buffer	
S-50	15.69	23.49	1000.00	999.99	16.00	15.00	12.00		BUFFER
	15.69	23.49	1000.00	999.99	**16.00**	15.00	12.00	Enter Buffer	

	17.54	26.22	1100.00	1099.98	**17.60**	16.50	13.00	Exit Buffer	
S-11	16.66	22.71	800.00	799.99	12.80	12.00	9.60		FLOW
S-54	16.66	22.71	800.00	799.99	12.80	12.00	9.60		FLOW
S-54ST	16.66	22.71	800.00	799.99	12.80	12.00	9.60		FLOW
S-12	9.94	18.62	1100.00	1099.98	17.60	16.50	13.00		MAJOR
	11.31	18.23	900.00	899.99	**14.40**	13.50	10.80	Enter Buffer	
	11.31	18.23	900.00	899.99	14.40	**13.50**	10.80	Enter Minor	
	10.41	18.21	1000.00	999.99	16.00	15.00	**12.00**	Enter Major	
	13.72	23.29	1200.00	1199.98	19.20	18.00	**14.00**	Exit Major	
	13.72	23.29	1200.00	1199.98	19.20	**18.00**	14.00	Exit Minor	
	13.72	23.29	1200.00	1199.98	**19.20**	18.00	14.00	Exit Buffer	
S-14	30.00	35.18	700.00	699.99	11.20	10.50	8.40		FLOW
S-14ST	30.00	35.18	700.00	699.99	11.20	10.50	8.40		FLOW
S-18	15.41	22.33	900.00	899.99	14.40	13.50	10.80		FLOW
S-20	30.03	37.82	1000.00	999.99	16.00	15.00	12.00		FLOW
S-21	65.02	74.57	1200.00	1199.98	19.20	18.00	14.00		FLOW
S-22OH	11.20	17.25	800.00	799.99	12.80	12.00	9.60		MINOR
	11.20	17.25	800.00	799.99	**12.80**	12.00	9.60	Enter Buffer	
	11.20	17.25	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	12.94	19.88	900.00	899.99	14.40	**13.50**	10.80	Exit Minor	
	12.94	19.88	900.00	899.99	**14.40**	13.50	10.80	Exit Buffer	
S-22ST1	11.20	17.25	800.00	799.99	12.80	12.00	9.60		MINOR
	11.20	17.25	800.00	799.99	**12.80**	12.00	9.60	Enter Buffer	
	11.20	17.25	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	12.94	19.88	900.00	899.99	14.40	**13.50**	10.80	Exit Minor	
	12.94	19.88	900.00	899.99	**14.40**	13.50	10.80	Exit Buffer	
S-22ST2	11.20	17.25	800.00	799.99	12.80	12.00	9.60		MINOR
	11.20	17.25	800.00	799.99	**12.80**	12.00	9.60	Enter Buffer	
	11.20	17.25	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	12.94	19.88	900.00	899.99	14.40	**13.50**	10.80	Exit Minor	
	12.94	19.88	900.00	899.99	**14.40**	13.50	10.80	Exit Buffer	
S-60	11.20	17.25	800.00	799.99	12.80	12.00	9.60		MINOR
	11.20	17.25	800.00	799.99	**12.80**	12.00	9.60	Enter Buffer	
	11.20	17.25	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	12.94	19.88	900.00	899.99	14.40	**13.50**	10.80	Exit Minor	
	12.94	19.88	900.00	899.99	**14.40**	13.50	10.80	Exit Buffer	
S-60ST	11.20	17.25	800.00	799.99	12.80	12.00	9.60		MINOR
	11.20	17.25	800.00	799.99	**12.80**	12.00	9.60	Enter Buffer	
	11.20	17.25	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	12.94	19.88	900.00	899.99	14.40	**13.50**	10.80	Exit Minor	
	12.94	19.88	900.00	899.99	**14.40**	13.50	10.80	Exit Buffer	

S-25	93.29	99.34	800.00	799.99	12.80	12.00	9.60		FLOW
S-26	28.30	47.79	2100.00	2069.63	33.00	31.30	23.00		MINOR
	28.30	47.79	2100.00	2069.63	**33.00**	31.30	23.00	Enter Buffer	
	28.30	47.79	2100.00	2069.63	33.00	**31.30**	23.00	Enter Minor	
	31.70	52.82	2200.00	2153.88	34.50	**32.60**	24.00	Exit Minor	
	31.70	52.82	2200.00	2153.88	**34.50**	32.60	24.00	Exit Buffer	
S-3OH	26.45	33.37	900.00	899.99	14.40	13.50	10.80		FLOW
S-3ST1	26.70	33.62	900.00	899.99	14.40	13.50	10.80		FLOW
S-3ST1	26.70	33.62	900.00	899.99	14.40	13.50	10.80		FLOW
S-3ST2	26.45	33.37	900.00	899.99	14.40	13.50	10.80		FLOW
S-3ST3	26.45	33.37	900.00	899.99	14.40	13.50	10.80		FLOW
S-33OH	84.39	90.44	800.00	799.99	12.80	12.00	9.60		FLOW
S-33RD	84.39	90.44	800.00	799.99	12.80	12.00	9.60		FLOW
S-33RDST1	84.39	90.44	800.00	799.99	12.80	12.00	9.60		FLOW
S-33RDST2	84.39	90.44	800.00	799.99	12.80	12.00	9.60		FLOW
S-33RDST3	84.39	90.44	800.00	799.99	12.80	12.00	9.60		FLOW
S-36	4.22	14.64	1300.00	1299.98	20.80	19.50	15.00		MAJOR
	8.63	13.81	700.00	699.99	**11.20**	10.50	8.40	Enter Buffer	
	8.63	13.81	700.00	699.99	11.20	**10.50**	8.40	Enter Minor	
	7.89	13.94	800.00	799.99	12.80	12.00	**9.60**	Enter Major	
	9.34	21.56	1500.00	1499.93	24.00	22.50	**17.00**	Exit Major	
	19.68	32.88	1600.00	1599.68	25.50	**24.00**	18.00	Exit Minor	
	19.68	32.88	1600.00	1599.68	**25.50**	24.00	18.00	Exit Buffer	
S-36ST	4.22	14.64	1300.00	1299.98	20.80	19.50	15.00		MAJOR
	8.63	13.81	700.00	699.99	**11.20**	10.50	8.40	Enter Buffer	
	8.63	13.81	700.00	699.99	11.20	**10.50**	8.40	Enter Minor	
	7.89	13.94	800.00	799.99	12.80	12.00	**9.60**	Enter Major	
	9.34	21.56	1500.00	1499.93	24.00	22.50	**17.00**	Exit Major	
	19.68	32.88	1600.00	1599.68	25.50	**24.00**	18.00	Exit Minor	
	19.68	32.88	1600.00	1599.68	**25.50**	24.00	18.00	Exit Buffer	
S-37OH	94.37	100.41	800.00	799.99	12.80	12.00	9.60		FLOW
S-37ST	94.37	100.41	800.00	799.99	12.80	12.00	9.60		FLOW
S-77	94.37	100.41	800.00	799.99	12.80	12.00	9.60		FLOW
S-77ST1	95.82	101.00	700.00	699.99	11.20	10.50	8.40		FLOW
S-77ST2	94.37	100.41	800.00	799.99	12.80	12.00	9.60		FLOW

S-77ST3	94.37	100.41	800.00	799.99	12.80	12.00	9.60		FLOW
S-39	81.42	87.46	800.00	799.99	12.80	12.00	9.60		FLOW
S-4	10.84	23.88	1600.00	1599.68	25.50	24.00	18.00		MAJOR
	14.91	22.70	1000.00	999.99	**16.00**	15.00	12.00	Enter Buffer	
	14.91	22.70	1000.00	999.99	16.00	**15.00**	12.00	Enter Minor	
	13.67	23.21	1200.00	1199.98	19.20	18.00	**14.00**	Enter Major	
	14.50	28.45	1700.00	1698.53	27.00	25.50	**19.00**	Exit Major	
	14.50	28.45	1700.00	1698.53	27.00	**25.50**	19.00	Exit Minor	
	14.50	28.45	1700.00	1698.53	**27.00**	25.50	19.00	Exit Buffer	
S-40OH	38.35	43.53	700.00	699.99	11.20	10.50	8.40		FLOW
S-40ST	38.35	43.53	700.00	699.99	11.20	10.50	8.40		FLOW
S-48	38.35	43.53	700.00	699.99	11.20	10.50	8.40		FLOW
S-48ST	38.35	43.53	700.00	699.99	11.20	10.50	8.40		FLOW
S-42	-7.07	0.72	1000.00	999.99	16.00	15.00	12.00		MAJOR
	1.57	2.38	200.00	200.00	**3.20**	3.00	2.40	Enter Buffer	
	1.57	2.38	200.00	200.00	3.20	**3.00**	2.40	Enter Minor	
	1.57	2.38	200.00	200.00	3.20	3.00	**2.40**	Enter Major	
	15.80	28.03	1500.00	1499.93	24.00	22.50	**17.00**	Exit Major	
	15.80	28.03	1500.00	1499.93	24.00	**22.50**	17.00	Exit Minor	
	15.80	28.03	1500.00	1499.93	**24.00**	22.50	17.00	Exit Buffer	
T010022p1r1	-7.07	0.72	1000.00	999.99	16.00	15.00	12.00		MAJOR
	1.57	2.38	200.00	200.00	**3.20**	3.00	2.40	Enter Buffer	
	1.57	2.38	200.00	200.00	3.20	**3.00**	2.40	Enter Minor	
	1.57	2.38	200.00	200.00	3.20	3.00	**2.40**	Enter Major	
	15.82	28.03	1500.00	1499.93	24.00	22.50	**17.00**	Exit Major	
	15.82	28.03	1500.00	1499.93	24.00	**22.50**	17.00	Exit Minor	
	15.82	28.03	1500.00	1499.93	**24.00**	22.50	17.00	Exit Buffer	
T01gs42rdp1r0	-7.07	0.72	1000.00	999.99	16.00	15.00	12.00		MAJOR
	1.57	2.38	200.00	200.00	**3.20**	3.00	2.40	Enter Buffer	
	1.57	2.38	200.00	200.00	3.20	**3.00**	2.40	Enter Minor	
	1.57	2.38	200.00	200.00	3.20	3.00	**2.40**	Enter Major	
	15.82	28.03	1500.00	1499.93	24.00	22.50	**17.00**	Exit Major	
	15.82	28.03	1500.00	1499.93	24.00	**22.50**	17.00	Exit Minor	
	15.82	28.03	1500.00	1499.93	**24.00**	22.50	17.00	Exit Buffer	
S-44	-275.31	0.00	8800.00	6686.53	133.50	118.40	90.00		MAJOR
	0.00	0.00	100.00	100.00	**1.60**	1.50	1.20	Enter Buffer	
	0.00	0.00	100.00	100.00	1.60	**1.50**	1.20	Enter Minor	
	0.00	0.00	100.00	100.00	1.60	1.50	**1.20**	Enter Major	
	75.87	412.28	10300.00	7423.65	156.00	137.90	**105.00**	Exit Major	
	116.65	455.22	10400.00	7479.55	157.50	**139.20**	106.00	Exit Minor	
	116.65	455.22	10400.00	7479.55	**157.50**	139.20	106.00	Exit Buffer	
S-44ST1	-6.78	1.01	1000.00	999.99	16.00	15.00	12.00		MAJOR
	0.09	0.09	100.00	100.00	**1.60**	1.50	1.20	Enter Buffer	
	0.09	0.09	100.00	100.00	1.60	**1.50**	1.20	Enter Minor	

	0.09	0.09	100.00	100.00	1.60	1.50	**1.20**	Enter Major	
	-6.78	1.01	1000.00	999.99	16.00	15.00	**12.00**	Exit Major	
	-6.78	1.01	1000.00	999.99	16.00	**15.00**	12.00	Exit Minor	
	-6.78	1.01	1000.00	999.99	**16.00**	15.00	12.00	Exit Buffer	
S-44ST2	-275.31	0.00	8800.00	6686.53	133.50	118.40	90.00		MAJOR
	0.00	0.00	100.00	100.00	**1.60**	1.50	1.20	Enter Buffer	
	0.00	0.00	100.00	100.00	1.60	**1.50**	1.20	Enter Minor	
	0.00	0.00	100.00	100.00	1.60	1.50	**1.20**	Enter Major	
	80.04	461.96	11600.00	8360.77	175.50	154.80	**118.00**	Exit Major	
	136.42	519.94	11700.00	8437.38	177.00	**156.10**	119.00	Exit Minor	
	136.42	519.94	11700.00	8437.38	**177.00**	156.10	119.00	Exit Buffer	
T010023p1r1	-375.94	3.27	11300.00	8130.91	171.00	150.90	115.00		MAJOR
	0.00	0.00	100.00	100.00	**1.60**	1.50	1.20	Enter Buffer	
	0.00	0.00	100.00	100.00	1.60	**1.50**	1.20	Enter Minor	
	0.00	0.00	100.00	100.00	1.60	1.50	**1.20**	Enter Major	
T01s44p1r0	-275.85	3.08	8900.00	6752.34	135.00	119.70	91.00		MAJOR
	0.00	0.00	100.00	100.00	**1.60**	1.50	1.20	Enter Buffer	
	0.00	0.00	100.00	100.00	1.60	**1.50**	1.20	Enter Minor	
	0.00	0.00	100.00	100.00	1.60	1.50	**1.20**	Enter Major	
S-46	4.73	14.27	1200.00	1199.98	19.20	18.00	14.00		MAJOR
	9.18	14.36	700.00	699.99	**11.20**	10.50	8.40	Enter Buffer	
	9.18	14.36	700.00	699.99	11.20	**10.50**	8.40	Enter Minor	
	8.29	14.34	800.00	799.99	12.80	12.00	**9.60**	Enter Major	
	14.95	27.99	1600.00	1599.68	25.50	24.00	**18.00**	Exit Major	
	14.95	27.99	1600.00	1599.68	25.50	**24.00**	18.00	Exit Minor	
	14.95	27.99	1600.00	1599.68	**25.50**	24.00	18.00	Exit Buffer	
S-49	82.35	93.63	1400.00	1399.97	22.40	21.00	16.00		FLOW
S-85OH	82.35	93.63	1400.00	1399.97	22.40	21.00	16.00		FLOW
S-85ST	82.35	93.63	1400.00	1399.97	22.40	21.00	16.00		FLOW
S-85ST1	82.35	93.63	1400.00	1399.97	22.40	21.00	16.00		FLOW
S-5	24.11	31.90	1000.00	999.99	16.00	15.00	12.00		FLOW
S-51ST	98.10	103.28	700.00	699.99	11.20	10.50	8.40		FLOW
S-52	0.20	10.61	1300.00	1299.98	20.80	19.50	15.00		MAJOR
	4.61	6.30	300.00	300.00	**4.80**	4.50	3.60	Enter Buffer	
	4.03	6.59	400.00	399.99	6.40	**6.00**	4.80	Enter Minor	
	4.03	6.59	400.00	399.99	6.40	6.00	**4.80**	Enter Major	
	14.37	30.82	1900.00	1889.87	30.00	28.50	**21.00**	Exit Major	
	23.63	41.54	2000.00	1981.51	31.50	**30.00**	22.00	Exit Minor	
	23.63	41.54	2000.00	1981.51	**31.50**	30.00	22.00	Exit Buffer	
S-62	0.20	10.61	1300.00	1299.98	20.80	19.50	15.00		MAJOR
	4.61	6.30	300.00	300.00	**4.80**	4.50	3.60	Enter Buffer	
	4.03	6.59	400.00	399.99	6.40	**6.00**	4.80	Enter Minor	
	4.03	6.59	400.00	399.99	6.40	6.00	**4.80**	Enter Major	

	14.37	30.82	1900.00	1889.87	30.00	28.50	**21.00**	Exit Major	
	23.63	41.54	2000.00	1981.51	31.50	**30.00**	22.00	Exit Minor	
	23.63	41.54	2000.00	1981.51	**31.50**	30.00	22.00	Exit Buffer	
S-53	4.38	8.69	600.00	599.99	9.60	9.00	7.20		MAJOR
	4.83	7.39	400.00	399.99	**6.40**	6.00	4.80	Enter Buffer	
	4.83	7.39	400.00	399.99	6.40	**6.00**	4.80	Enter Minor	
	4.73	8.16	500.00	499.99	8.00	7.50	**6.00**	Enter Major	
	5.16	11.21	800.00	799.99	12.80	12.00	**9.60**	Exit Major	
	11.82	18.77	900.00	899.99	14.40	**13.50**	10.80	Exit Minor	
	11.82	18.77	900.00	899.99	**14.40**	13.50	10.80	Exit Buffer	
S-55	74.34	80.39	800.00	799.99	12.80	12.00	9.60		FLOW
ST R0 9/15/99	74.34	80.39	800.00	799.99	12.80	12.00	9.60		FLOW
S-67	70.57	80.98	1300.00	1299.98	20.80	19.50	15.00		FLOW
S-83	70.57	80.98	1300.00	1299.98	20.80	19.50	15.00		FLOW
S-57	73.74	78.91	700.00	699.99	11.20	10.50	8.40		FLOW
T010041p1r0	73.74	78.91	700.00	699.99	11.20	10.50	8.40		FLOW
S-59	85.42	91.47	800.00	799.99	12.80	12.00	9.60		FLOW
S-59ST1	85.42	91.47	800.00	799.99	12.80	12.00	9.60		FLOW
S-61	79.55	79.55	0.00	0.00	0.00	0.00	0.00		FLOW
S-63	85.81	90.99	700.00	699.99	11.20	10.50	8.40		FLOW
S-64	25.44	33.25	1000.00	999.99	16.00	15.00	12.00		FLOW
S-65	68.14	78.55	1300.00	1299.98	20.80	19.50	15.00		FLOW
T010042p1r0	68.14	78.55	1300.00	1299.98	20.80	19.50	15.00		FLOW
S-7	9.25	17.91	1100.00	1099.98	17.60	16.50	13.00		MAJOR
	11.17	17.21	800.00	799.99	**12.80**	12.00	9.60	Enter Buffer	
	11.17	17.21	800.00	799.99	12.80	**12.00**	9.60	Enter Minor	
	10.59	17.51	900.00	899.99	14.40	13.50	**10.80**	Enter Major	
	11.23	21.66	1300.00	1299.98	20.80	19.50	**15.00**	Exit Major	
	16.78	28.12	1400.00	1399.97	22.40	**21.00**	16.00	Exit Minor	
	16.78	28.12	1400.00	1399.97	**22.40**	21.00	16.00	Exit Buffer	
T010015p1r2	81.79	92.20	1300.00	1299.98	20.80	19.50	15.00		FLOW
T01gs70p1r1	81.79	92.20	1300.00	1299.98	20.80	19.50	15.00		FLOW
S-71	86.48	92.58	800.00	799.99	12.80	12.00	9.60		FLOW
S-75	86.57	92.61	800.00	799.99	12.80	12.00	9.60		FLOW
S-13	75.80	84.46	1100.00	1099.98	17.60	16.50	13.00		FLOW

S-15	85.65	92.57	900.00	899.99	14.40	13.50	10.80		FLOW
S-16	26.94	32.99	800.00	799.99	12.80	12.00	9.60		FLOW
S-58	26.94	32.99	800.00	799.99	12.80	12.00	9.60		FLOW
S-17	86.56	92.60	800.00	799.99	12.80	12.00	9.60		FLOW
S-19	68.26	79.55	1400.00	1399.97	22.40	21.00	16.00		FLOW
S-2	11.77	23.06	1400.00	1399.97	22.40	21.00	16.00		MAJOR
	15.09	22.89	1000.00	999.99	**16.00**	15.00	12.00	Enter Buffer	
	13.74	22.40	1100.00	1099.98	17.60	**16.50**	13.00	Enter Minor	
	12.63	22.17	1200.00	1199.98	19.20	18.00	**14.00**	Enter Major	
	13.13	25.30	1500.00	1499.93	24.00	22.50	**17.00**	Exit Major	
	18.81	31.86	1600.00	1599.68	25.50	**24.00**	18.00	Exit Minor	
	18.81	31.86	1600.00	1599.68	**25.50**	24.00	18.00	Exit Buffer	
S-23	84.23	92.02	1000.00	999.99	16.00	15.00	12.00		FLOW
S-23ST	84.23	92.02	1000.00	999.99	16.00	15.00	12.00		FLOW
S-24	16.27	23.19	900.00	899.99	14.40	13.50	10.80		FLOW
REV 0	16.27	23.19	900.00	899.99	14.40	13.50	10.80		FLOW
S-27	91.99	98.03	800.00	799.99	12.80	12.00	9.60		FLOW
S-29	91.55	96.73	700.00	699.99	11.20	10.50	8.40		FLOW
S-30	25.82	33.62	1000.00	999.99	16.00	15.00	12.00		FLOW
S-45	82.89	90.68	1000.00	999.99	16.00	15.00	12.00		FLOW
S-31	84.56	91.48	900.00	899.99	14.40	13.50	10.80		FLOW
T010040p1r0	84.56	91.48	900.00	899.99	14.40	13.50	10.80		FLOW
S-32	15.02	24.56	1200.00	1199.98	19.20	18.00	14.00		MINOR
	15.58	24.25	1100.00	1099.98	**17.60**	16.50	13.00	Enter Buffer	
	15.58	24.25	1100.00	1099.98	17.60	**16.50**	13.00	Enter Minor	
	15.99	26.40	1300.00	1299.98	20.80	**19.50**	15.00	Exit Minor	
	22.05	33.33	1400.00	1399.97	**22.40**	21.00	16.00	Exit Buffer	
S-34	33.20	36.63	500.00	499.99	8.00	7.50	6.00		FLOW
S-35	85.44	92.37	900.00	899.99	14.40	13.50	10.80		FLOW
S-38	23.73	30.65	900.00	899.99	14.40	13.50	10.80		FLOW
S-41	95.60	101.64	800.00	799.99	12.80	12.00	9.60		FLOW
S-79OH	95.60	101.64	800.00	799.99	12.80	12.00	9.60		FLOW

S-79ST	95.60	101.64	800.00	799.99	12.80	12.00	9.60		FLOW
S-43	87.96	94.01	800.00	799.99	12.80	12.00	9.60		FLOW
S-6	15.94	21.99	800.00	799.99	12.80	12.00	9.60		FLOW
S-8	6.93	14.72	1000.00	999.99	16.00	15.00	12.00		MAJOR
	9.31	13.61	600.00	599.99	**9.60**	9.00	7.20	Enter Buffer	
	8.85	14.02	700.00	699.99	11.20	**10.50**	8.40	Enter Minor	
	8.10	14.15	800.00	799.99	12.80	12.00	**9.60**	Enter Major	
	11.70	21.26	1200.00	1199.98	19.20	18.00	**14.00**	Exit Major	
	11.70	21.26	1200.00	1199.98	19.20	**18.00**	14.00	Exit Minor	
	11.70	21.26	1200.00	1199.98	**19.20**	18.00	14.00	Exit Buffer	
S-87	92.63	97.80	700.00	699.99	11.20	10.50	8.40		FLOW
S-89	94.14	98.45	600.00	599.99	9.60	9.00	7.20		FLOW
S-9	5.24	13.92	1100.00	1099.98	17.60	16.50	13.00		MAJOR
	9.00	13.30	600.00	599.99	**9.60**	9.00	7.20	Enter Buffer	
	9.00	13.30	600.00	599.99	9.60	**9.00**	7.20	Enter Minor	
	8.20	14.25	800.00	799.99	12.80	12.00	**9.60**	Enter Major	
	5.24	13.92	1100.00	1099.98	17.60	16.50	**13.00**	Exit Major	
	15.14	24.75	1200.00	1199.98	19.20	**18.00**	14.00	Exit Minor	
	15.14	24.75	1200.00	1199.98	**19.20**	18.00	14.00	Exit Buffer	
S-91OH	77.23	87.64	1300.00	1299.98	20.80	19.50	15.00		FLOW
S-91ST	77.23	87.64	1300.00	1299.98	20.80	19.50	15.00		FLOW

Schlumberger

ANTI-COLLISION SUMMARY REPORT

Client:	Torch Operating Company	*Slot:*	P-0216 S-44
Field:	T01 Santa Clara Field	*Well:*	S-44
Structure:	Platform Gilda	*Borehole:*	S-44 ST2
Subject Survey:	REV2 27Oct00	*Date:*	January 09, 2001
Analysis Method:	3D Least Distance	*Depth Interval:*	Every 100.00ft MD

Offset Survey	Separation(ft)		Subject Survey		Risk Radii(ft)			Alert	Status
	EOU	Ct-Ct	MD(ft)	TVD(ft)	Buffer	Minor	Major		
S-28	3420.03	3693.96	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-28RD	3252.64	3541.06	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-56	5262.18	5493.23	8600.00	6549.58	130.50	115.80	88.00		FLOW
T010021p1r2	3038.74	3305.45	8600.00	6549.58	130.50	115.80	88.00		FLOW
T01gs66p1r0	2739.59	2990.63	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-1	4905.32	5062.03	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-10	4756.98	4982.78	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-50	4756.98	4982.78	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-11	5279.91	5513.43	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-54	5279.91	5513.43	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-54ST	5279.91	5513.43	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-12	3154.17	3368.10	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-14	4324.84	4573.13	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-14ST	4324.84	4573.13	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-18	4628.93	4878.86	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-20	2323.79	2538.43	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-21	5760.54	5934.79	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-22OH	5075.50	5315.60	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-22ST1	5075.50	5315.60	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-22ST2	5075.50	5315.60	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-60	4464.25	4752.53	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-60ST	4492.82	4784.51	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-25	6683.09	6851.08	8600.00	6549.58	130.50	115.80	88.00		FLOW

S-26	644.67	895.48	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-3OH	4796.55	5005.63	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-3ST1	4649.93	4834.70	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-3ST1	4649.93	4834.70	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-3ST2	4592.02	4805.77	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-3ST3	4591.59	4804.92	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-33OH	6780.87	6942.30	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-33RD	6780.87	6942.30	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-33RDST1	6780.87	6942.30	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-33RDST2	6780.87	6942.30	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-33RDST3	6780.87	6942.30	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-36	2807.41	3073.06	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-36ST	2695.85	2953.78	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-37OH	6926.47	7075.90	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-37ST	6926.87	7076.25	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-77	6926.87	7076.25	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-77ST1	6915.62	7065.22	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-77ST2	6926.87	7076.25	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-77ST3	6926.87	7076.25	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-39	5980.92	6153.65	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-4	3891.74	4061.49	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-40OH	866.46	1206.47	10200.00	7373.18	154.50	136.60	104.00		FLOW
S-40ST	866.65	1206.61	10200.00	7373.18	154.50	136.60	104.00		FLOW
S-48	865.61	1205.83	10200.00	7373.18	154.50	136.60	104.00		FLOW
S-48ST	852.53	1193.45	10200.00	7373.18	154.50	136.60	104.00		FLOW
S-42	1811.72	2087.37	8600.00	6549.58	130.50	115.80	88.00		FLOW
T010022p1r1	1812.26	2087.37	8600.00	6549.58	130.50	115.80	88.00		FLOW
T01gs42rdp1r0	1812.26	2087.37	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-44	-275.32	0.00	8800.00	6686.53	133.50	118.40	90.00		MAJOR
	-267.49	0.00	8600.00	6549.58	**130.50**	115.80	88.00	Enter Buffer	
	-267.49	0.00	8600.00	6549.58	130.50	**115.80**	88.00	Enter Minor	
	-267.49	0.00	8600.00	6549.58	130.50	115.80	**88.00**	Enter Major	
	75.87	412.28	10300.00	7423.65	156.00	137.90	**105.00**	Exit Major	

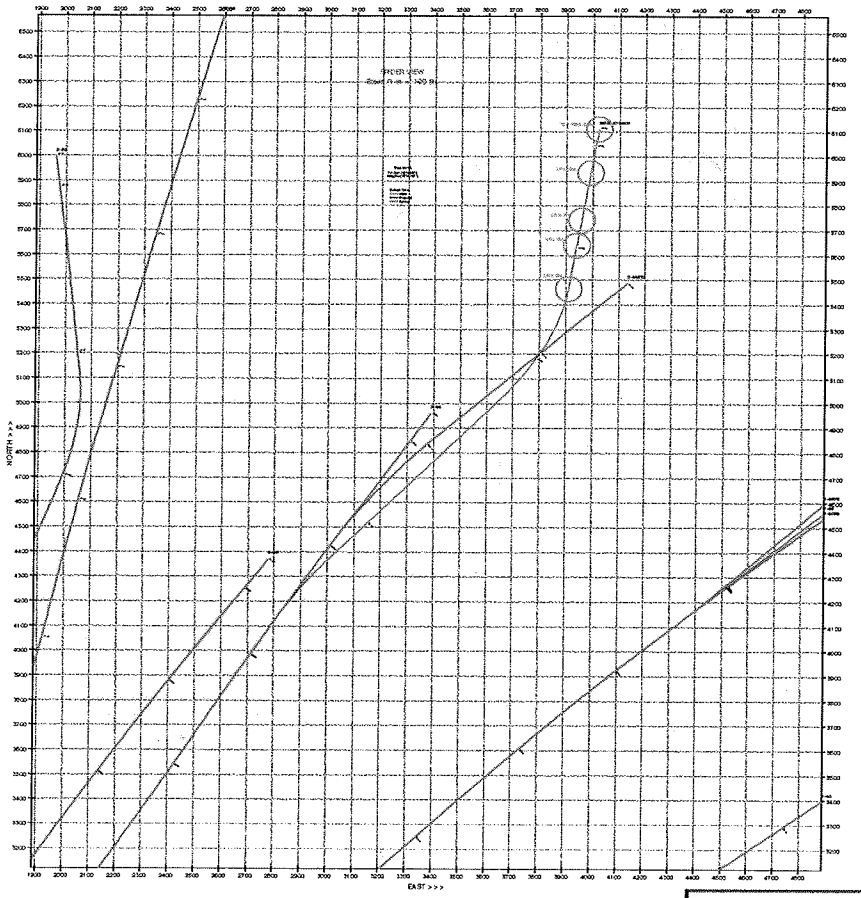
	116.65	455.22	10400.00	7479.55	157.50	**139.20**	106.00	Exit Minor	
	116.65	455.22	10400.00	7479.55	**157.50**	139.20	106.00	Exit Buffer	
S-44 ST1	-137.44	0.00	8800.00	6686.53	133.50	118.40	90.00		MAJOR
	-133.52	0.00	8600.00	6549.58	**130.50**	115.80	88.00	Enter Buffer	
	-133.52	0.00	8600.00	6549.58	130.50	**115.80**	88.00	Enter Minor	
	-133.52	0.00	8600.00	6549.58	130.50	115.80	**88.00**	Enter Major	
	80.87	241.19	9800.00	7189.15	148.50	131.40	**100.00**	Exit Major	
	126.94	291.94	10000.00	7281.05	151.50	**134.00**	102.00	Exit Minor	
	150.66	318.00	10100.00	7327.00	**153.00**	135.30	103.00	Exit Buffer	
	142.73	325.94	10900.00	7824.43	**165.00**	145.70	111.00	Enter Buffer	
	142.73	325.94	10900.00	7824.43	165.00	**145.70**	111.00	Enter Minor	
	94.95	281.33	11100.00	7977.67	168.00	148.30	**113.00**	Enter Major	
	68.99	264.91	11700.00	8437.38	177.00	156.10	**119.00**	Exit Major	
	122.09	319.61	11800.00	8514.00	178.50	**157.40**	120.00	Exit Minor	
	122.09	319.61	11800.00	8514.00	**178.50**	157.40	120.00	Exit Buffer	
S-44ST2	-275.32	0.00	8800.00	6686.53	133.50	118.40	90.00		MAJOR
	-267.49	0.00	8600.00	6549.58	**130.50**	115.80	88.00	Enter Buffer	
	-267.49	0.00	8600.00	6549.58	130.50	**115.80**	88.00	Enter Minor	
	-267.49	0.00	8600.00	6549.58	130.50	115.80	**88.00**	Enter Major	
	80.04	461.96	11600.00	8360.77	175.50	154.80	**118.00**	Exit Major	
	136.42	519.94	11700.00	8437.38	177.00	**156.10**	119.00	Exit Minor	
	136.42	519.94	11700.00	8437.38	**177.00**	156.10	119.00	Exit Buffer	
S-46	4815.82	4996.44	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-49	5165.11	5320.89	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-85OH	5552.31	5702.85	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-85ST	5552.31	5702.85	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-85ST1	5552.31	5702.85	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-5	5550.26	5726.79	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-52	591.68	858.63	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-62	761.64	1019.61	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-53	6884.48	7035.56	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-55	5350.71	5510.45	8600.00	6549.58	130.50	115.80	88.00		FLOW
ST R0 9/15/99	5350.76	5510.45	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-67	5478.34	5639.05	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-83	5478.34	5639.05	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-57	5097.08	5312.12	8600.00	6549.58	130.50	115.80	88.00		FLOW
T010041p1r0	5097.33	5312.12	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-59	6576.26	6743.26	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-59ST1	6576.26	6743.26	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-61	2266.78	2508.63	8600.00	6549.58	130.50	115.80	88.00		FLOW
S-63	6519.18	6701.69	8600.00	6549.58	130.50	115.80	88.00		FLOW

S-64	5269.54	5500.59	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-65	3386.60	3610.62	8600.00	6549.58	130.50	115.80	88.00	FLOW
T010042p1r0	3386.97	3610.62	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-7	4173.25	4343.74	8600.00	6549.58	130.50	115.80	88.00	FLOW
T010015p1r2	2124.49	2375.56	8600.00	6549.58	130.50	115.80	88.00	FLOW
T01gs70p1r1	2113.93	2364.49	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-71	6719.75	6877.57	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-75	6497.16	6671.07	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-13	4861.22	5044.67	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-15	5947.78	6140.20	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-16	6366.48	6535.02	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-58	6230.46	6414.11	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-17	6344.83	6534.00	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-19	4837.66	4999.80	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-2	4772.38	4957.27	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-23	6378.84	6555.98	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-23ST	6378.84	6555.98	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-24	4043.00	4302.98	8600.00	6549.58	130.50	115.80	88.00	FLOW
REV 0	4120.85	4354.48	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-27	6790.75	6942.54	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-29	6814.31	6971.61	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-30	3517.69	3710.89	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-45	4551.68	4766.57	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-31	5648.22	5856.32	8600.00	6549.58	130.50	115.80	88.00	FLOW
T010040p1r0	5648.36	5856.32	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-32	2618.34	2813.43	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-34	3819.12	4084.75	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-35	6711.01	6862.99	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-38	2727.01	2973.79	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-43	6367.14	6551.86	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-6	3396.28	3581.72	8600.00	6549.58	130.50	115.80	88.00	FLOW

S-8	3876.90	4078.70	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-87	5541.05	5700.58	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-89	6921.43	7072.26	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-9	4046.47	4277.19	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-91OH	5480.72	5641.38	8600.00	6549.58	130.50	115.80	88.00	FLOW
S-91ST	5480.72	5641.38	8600.00	6549.58	130.50	115.80	88.00	FLOW

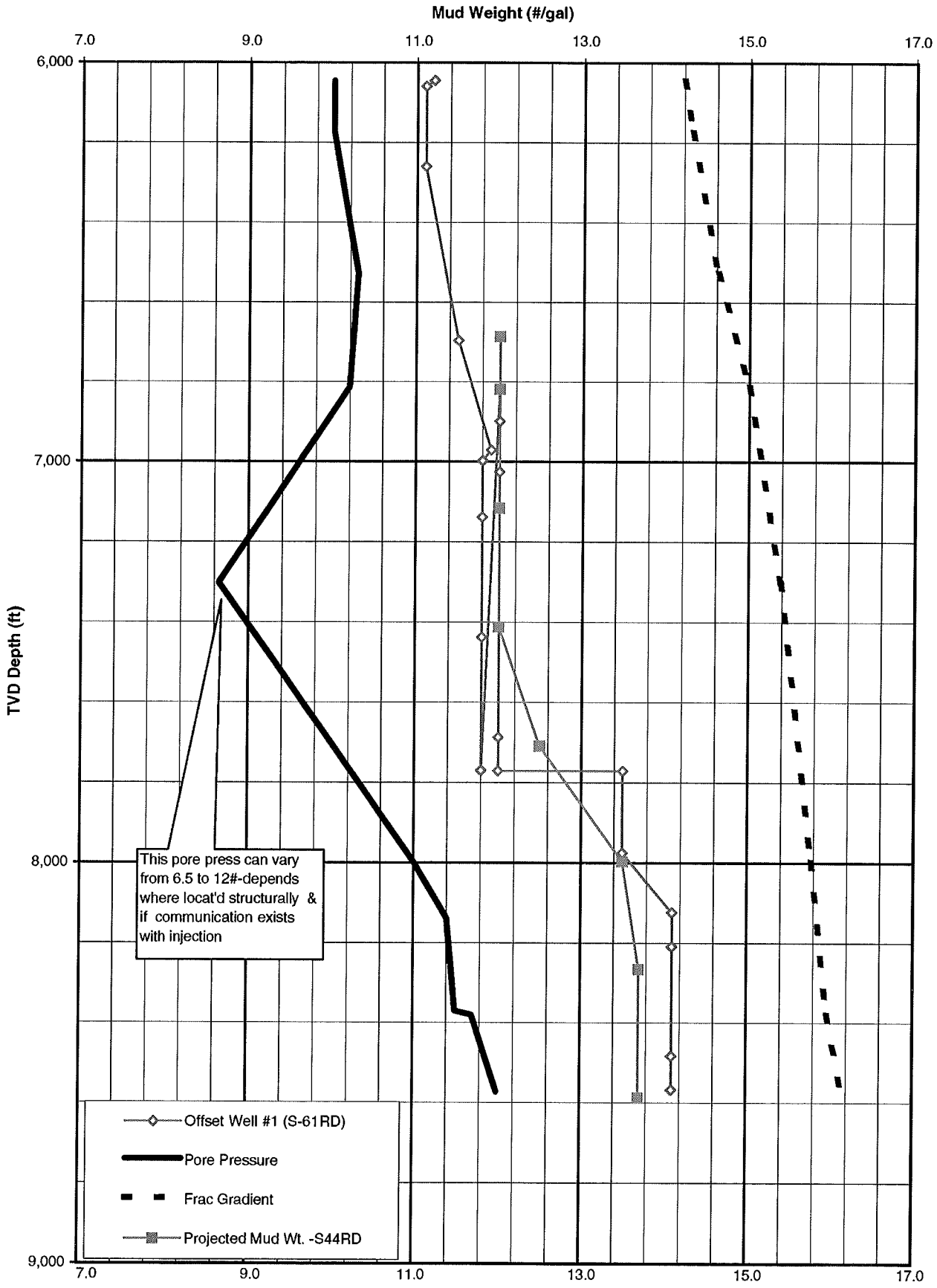
Torch Operating Company

Well: S-44 WB02	Field: T01 Santa Clara Field	Offshore Platform: Platform Gilda



SANTA CLARA FIELD (S44RD)

Mud Weight vs. TVD Depth

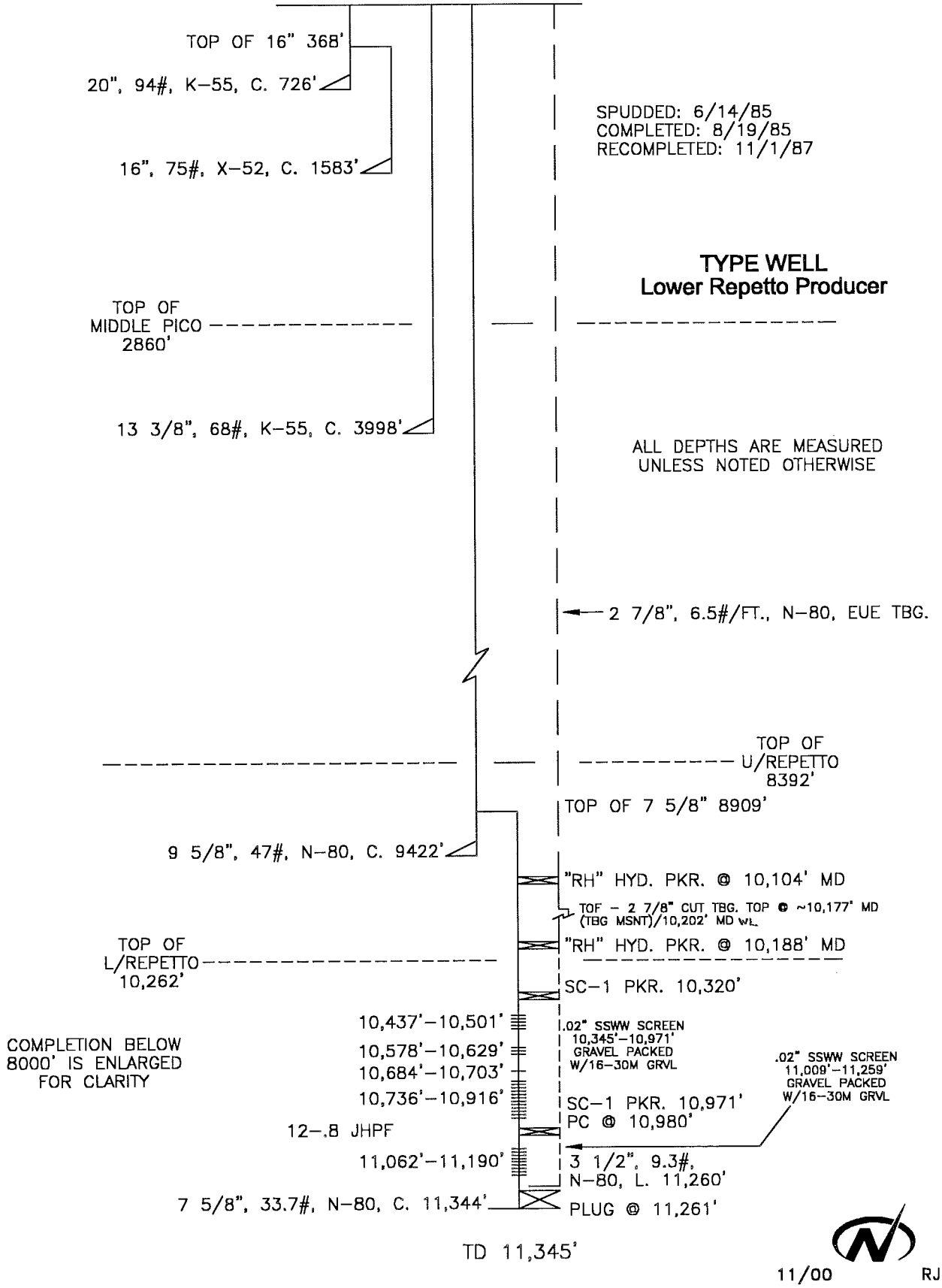


SANTA CLARA FIELD
Platform Gilda
Well #S-44

RT: 107'

Existing Wellbore

Slot #81



11/00 RJDIII

Operator:	Torch Operating Company	**Spud Date:**	2001
Field:	Santa Clara Field	**KB:**	107'
Well:	S44RD	**County:**	Kern
Location:	OCS-P 0216		
API#:		**Geological Marker: Lwr Repetto**	

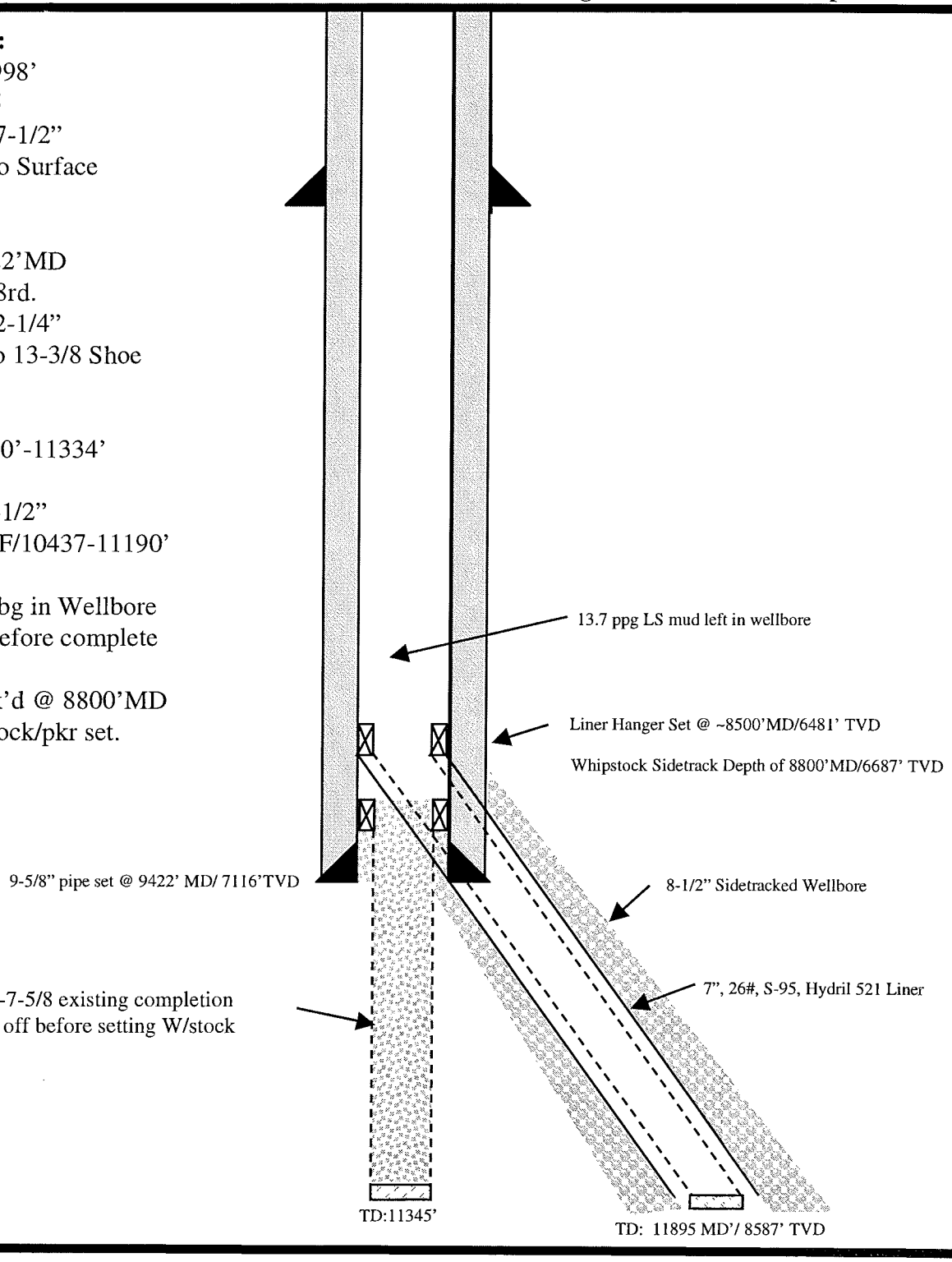
Conductor:
13-3/8" 3998'
68.0#, K-55
Hole size 17-1/2"
Cemented to Surface

Casing:
9-5/8" 9422'MD
47#, N-80, 8rd.
Hole size 12-1/4"
Cement'd to 13-3/8 Shoe

Liner:
7-5/8" 10320'-11334'
33.7#, N-80
Hole size 8-1/2"
Selec.Perfs F/10437-11190'

Currently Tbg in Wellbore
-be pulled before complete

Well sidetrk'd @ 8800'MD
with whipstock/pkr set.



CONDITIONS OF APPROVAL TO DRILL OCS WELL

Approval is further subject to the following specific conditions:

1. The date actual drilling is started shall be reported promptly to the District Supervisor.

2. A drilling progress report (two copies, no prescribed form) shall be submitted weekly showing the principal items of work done during the week, for development wells. Exploratory wells shall be reported by phone daily. The first development well on a platform shall require a daily phone report.

3. Adequate blowout prevention equipment is outlined in Subpart D of the Code of Federal Regulations (CFR), Title 30 starting with paragraph CFR 250.406.

4. Any change in the approved program must receive prior approval from this office.

5. Any unusual occurrence such as pollution, serious injury to personnel, loss of equipment overboard, damage caused by drifting of drilling vessel off location, well blowout, major equipment failure, etc., should be reported immediately to the District Supervisor by telephone.

6. The District Supervisor shall be notified in advance in the event of production tests.

7. Two copies of all logs, including the mud log to date, shall be furnished to this office immediately after logging.

8. Before a completion program is commenced or the hole is abandoned, the District Supervisor shall be allowed sufficient time to examine well records and give separate approval for this portion of the drilling program.

9. The Notice of Intent to Abandon a well shall be submitted on Form MMS-124 as outlined in Subpart G of the CFR starting with Title 30, paragraph CFR 250.700 notwithstanding any verbal approval to abandon that may have been given by this office. A Subsequent Report, Form MMS-124, must be submitted no later than 30 days after completion of the approved work.

10. The pertinent and applicable reports required under 30 CFR (250.100 through 250.400) of the Consolidated Offshore Operating Rules for Oil and Gas Operations will be properly and timely submitted. Electric logs and other logging surveys, core description and conventional analysis, stratigraphic determination, formation tests, log and history (Form MMS-125) Well Summary Report, shall be submitted in triplicate, plus a Public Information Copy to this office within 30 days after the completion, suspension or abandonment of the well.

(Conditions of Approval continued on back)

APPLICATION FOR PERMIT TO DRILL

CHECK LIST

OPERATOR Nuevo Energy
LEASE NO. P-0216
WELL NO. S-44 WB03
COPIES RECEIVED 3 P.I. 1
ENGRG. REVIEW BY SJ Shaw
DATE COMPLETED 1-16-01
GEOLOGIC/GEOPHYSICAL REVIEW COMPLETED BY Jim Galloway DATE
COPIES ON FILE WITH APD Yes
LEASE INSTRUMENT CHECKED No
DESIGNATION OF OPERATOR APPROVED Yes
SPECIAL LEASE STIPULATIONS NOTED N/A

POE/POD APPROVED DATE Not Available
SPECIAL CONDITIONS OF APPROVAL See Attached "Conditions of Approval to Drill OCS Well"

MOBIL DRILLING UNIT N/A TYPE N/A
ABS & COASTGUARD DOCUMENTS ON FILE N/A
FRONTIER AREA YES/(NO)
SEA FLOOR CONDITIONS EXAMINED, DOCUMENTED AND APPROVED N/A

RIG DESCRIPTION AND SPECIFICATIONS ON FILE? Yes
PLAT PROVIDED 000 FEET/ONE INCH Yes
SURFACE LOCATION CHECKED Yes
SUBSURFACE LOCATION CHECKED Yes
RKB TO WATER 107' WD 205' RKB TO ML 312'
TVD 8587' MD 11,895'

* KOP @ 8800' MD/6687' TVD in 9 5/8" csg. window

WELL DESIGN CRITERIA:

TAKEN FROM OFFSET WELL				CALCULATED	
CASING SIZE	20", 94#	16", 75#	13 3/8", 68#	9 5/8", 47#	7" liner, 26#
(MD) CASING DEPTH	726'	1583'	3998'	9422'	8500'-11895'
PORE PRESS.	~~EXISTING~~	~~EXISTING~~	~~EXISTING~~	~~EXISTING~~ 10.2 @ window	12 ppg
FRAC. PRESS.				14.8 @ window	16+ ppg
ANTICIPATED SURFACE PRESS.	N/A	N/A	N/A	4370 psi	4370 psi
MUD WEIGHT	N/A	N/A	N/A	12 ppg	14+ ppg

LOST CIRCULATION ZONES Already isolated behind existing casing(s).
SHALLOW HAZARDS FROM GEOLOGIC/GEOPHYSICAL REVIEW Already isolated behind existing casing(s).

BOPE

	ANNULAR	PIPE RAMS	(BLIND) SHEAR RAMS
NO. AND TYPE	1 - 13 5/8" - 5K	2 - 13 5/8" - 5K	1 - 13 5/8" - 5K

Nuevo Energy Company
201 S. Broadway
Orcutt, CA 93455

805-739-9111
Fax: 805-937-8709

July 20, 1998

Mr. Shannon Shaw
Minerals Management Service
770 Paseo Camarillo
Camarillo, CA 93010-6064

RE: Platform Gilda well #S-44 – Cancellation of Sundry Notice
Dated 5/15/98 and MMS Approved 5/17/98

The "Open MMS Approved Sundry Status" monthly letter sent to you on 6/17/98 confirmed the cancellation of the above referenced project. Prior to the cancellation of this project, logs were run (Caliper Tool). Attached are two copies of this log for your use.

You may contact me with comments or questions at (805) 934-8224.

Thank you,

Torch Operating Company, on behalf of
Nuevo Energy Company

Sabrina J. Miller
Regulatory Coordinator