



United States Department of the Interior

BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT

PACIFIC OCS REGION
770 Paseo Camarillo, 2nd Floor
Camarillo, CA 93010-6064

June 13, 2013

Mr. Brian Segee
Environmental Defense Center
906 Garden Street
Santa Barbara, CA 93101

Re: FOIA Request #BSEE-2013-00107

Dear Mr. Segee:

This is in response to your Freedom of Information Act (FOIA) request dated March 4, 2013, and received in our office on April 2, 2013. In your request, you are requesting the following information:

- 1) All records held regarding the historic, current, or proposed use of hydraulic fracturing, "frac and pack", acid fracturing, proppant fracturing, matrix acid treatments, or enhanced oil recovery techniques from offshore oil and gas drilling platforms in the Pacific Region
- 2) All records held regarding Applications for Permission to Modify that include proposals for well workover operations utilizing hydraulic fracturing, "frac and pack", acid fracturing, proppant fracturing, matrix acid treatments, or enhanced oil recovery techniques from offshore oil and gas drilling platforms in the Pacific Region

By letter dated May 20, 2013, we provided you with 248 pages of documents that we had determined to be releasable.

In reviewing the remaining documents, we are releasing in full disclosure, 211 pages of documents. We have determined that portions of 106 pages of the materials are exempt from release under Exemption 5 of the FOIA (5 U.S.C. 552 (b)(5)), which concerns inter-agency or intra-agency communications containing predecisional expressions of opinions or recommendations.

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 5 p.m. 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."

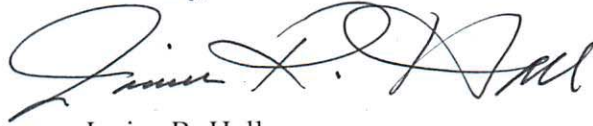
Also, the Office of Government Information Services (OGIS) was created as part of the 2007 OPEN Government Act amendments to the FOIA to offer mediation services to resolve disputes between FOIA requesters and Federal agencies as a nonexclusive alternative to litigation. Using OGIS services does not 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, Maryland, 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 me at (805) 389-7621, or send me an email at janice.hall@bsee.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Janice R. Hall", with a stylized, cursive script.

Janice R. Hall
FOIA Officer

Enclosure

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) E-8	2. SIDETRACK NO. (CURRENT) 02	3. BYPASS NO. (CURRENT)	4. OPERATOR NAME and ADDRESS (Submitting office) Venoco Inc. 6287 Carpinteria Ave. Ste 100 Carpinteria, CA 93013
5. API WELL NO. (12 digits) 04-311-20674-02	6. START DATE (Proposed) 1-29-10	7. ESTIMATED DURATION (DAYS) 3	
8. ☒ 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	RECEIVED FEB 22 2010 California District	
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 ☐ Artificial 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 Sideltrack/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):
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): <u>SCSSV</u> ☒ <u>SSCSV</u> ☐ N/A	22. SV Depth BML (ft): <u>100' + 100'</u>
23. Rig BOP (Rams) Size: Working Pressure Test Pressure (Inches) (psi) (psi) Low/High: _____		24. Rig BOP (Annular) Working Pressure Test Pressure (psi) (psi) Low/High: _____

25. Coiled Tubing BOP: Working Pressure BOP Test Pressure (psi) (psi) 15000 Low/High: 250/5000	26. Snubbing Unit BOP: Working Pressure Test Pressure (psi) (psi) Low/High: _____	27. Wireline Lubricator: Working Pressure Test Pressure (psi) (psi) Low/High: _____
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28. CONTACT NAME: Dana Billings	29. CONTACT TELEPHONE NO.: 805-745-2139	30. CONTACT E-MAIL ADDRESS: dbillings@venocoinc.com
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31. AUTHORIZING OFFICIAL (Type or print name) GARY D. LOWE	32. TITLE OPERATIONS MANAGER
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33. AUTHORIZING SIGNATURE Gary D. Lowe	34. DATE 1/26/09
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THIS SPACE FOR MMS USE ONLY		
APPROVED BY: ORIG. SGD. BY: Dan Knowlson	TITLE: District Manager	DATE: JAN 28 2010

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H ₂ S 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 250.197. 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/4,446' 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 1/22/10 MLO

SOCKEYE FIELD

WELL E-8RD

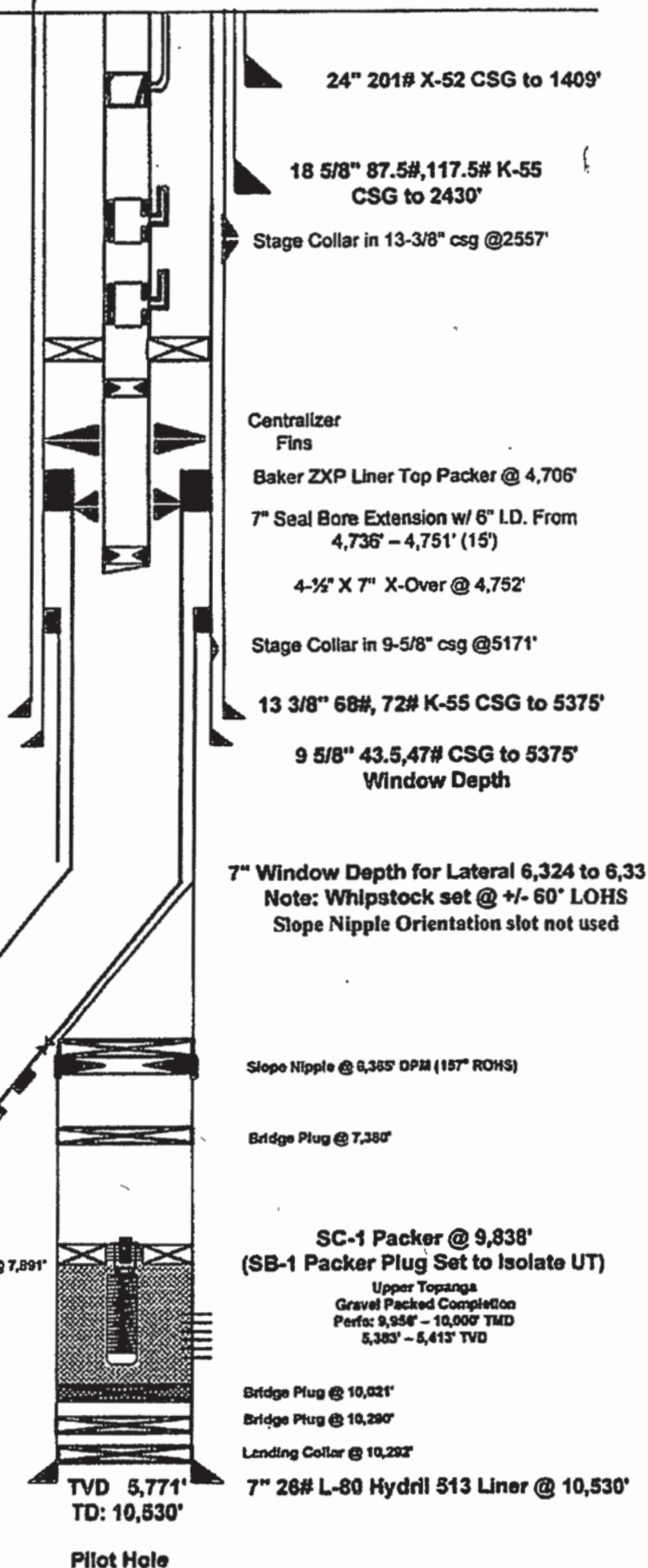
Single Producer M2 Lateral POST FRAC COMPLETION

Completion Date: 6/24/06
Recompletion: 8/14/06, 10/04/06,
12/20/09, 1/15/10

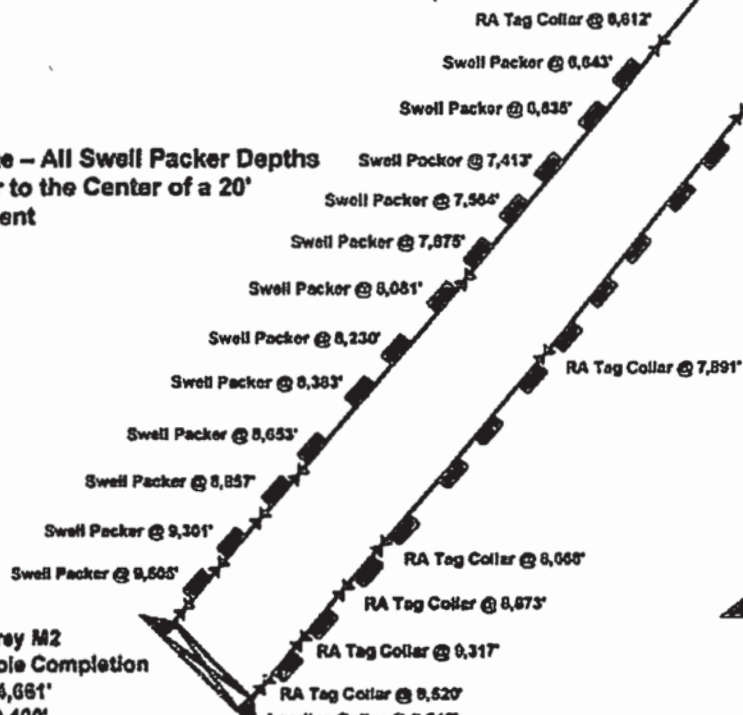
Perforation Detail

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	59.16
	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	1014.48
	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	3020.38
	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**



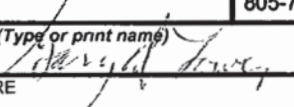
Monterey M2
Lateral Open Hole Completion
TVD 4,661'
TD: 10,400'

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 11/30/2011

Application for Permit to Modify (APM)

1 WELL NAME (CURRENT) E-8		2 SIDETRACK NO (CURRENT) 02		3 BYPASS NO (CURRENT) 00		4 OPERATOR NAME and ADDRESS (Submitting office) Venoco, Inc 6267 Carpinteria Ave., Ste 100 Carpinteria, CA 93013	
5 API WELL NO (12 digits) 04-311-20674-02		6 START DATE (Proposed) 11-27-2009		7 ESTIMATED DURATION (DAYS) 60 days			
8 ☐ Revision		9 If revision, please list changes		RECEIVED NOV 23 2009			
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			
MINERALS MANAGEMENT SERVICE CALIFORNIA 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 ☐ Artificial 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 ☒ SSCSV ☐ N/A			22 SV Depth BML (ft) +100		
23 Rig BOP (Rams) Size (inches) 13 5/8 Working Pressure (psi) 5000 Test Pressure (psi) 250/2500 Low/High _____				24 Rig BOP (Annular) Working Pressure (psi) 5000 Test Pressure (psi) 250/2500 Low/High _____			
25 Coiled Tubing BOP: Working Pressure (psi) _____ BOP Test Pressure (psi) _____ Low/High _____		26 Snubbing Unit BOP: Working Pressure (psi) _____ Test Pressure (psi) _____ Low/High _____		27 Wireline Lubricator: Working Pressure (psi) _____ Test Pressure (psi) _____ Low/High _____			
28 CONTACT NAME Dana Billings		29 CONTACT TELEPHONE NO 805-745-2139			30 CONTACT E-MAIL ADDRESS dbillings@venocoinc.com		
31 AUTHORIZING OFFICIAL (Type or print name) Gary Lower				32 TITLE Operations Manager			
33 AUTHORIZING SIGNATURE 				34 DATE 11-19-2009			
THIS SPACE FOR MMS USE ONLY							
APPROVED BY ORIG. SGD. BY: Dan Knowlson		TITLE District Manager			DATE NOV 23 2009		

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H ₂ S 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 250.197. 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 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 1/2" 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 (cmt'd 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.

Proposed Liner

4 1/2" 11.6# or 13.5# L-80 GEOCON (butress 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

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 1/2" 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 initial 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.

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 1/2" 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 1/2" 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 1/2" drill pipe and HWdp and run in scraper on 3 1/2" / 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.

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 1/2" 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.

19. Rig up casing crew and run the 4 1/2", 11.6# (or heavier wall if indicated) L-80, GEOCON (buttruss 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 1/2" 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 1/2" Oil Swell Packer #2

XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #3

1 XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #4

XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #5

XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #6

XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #7

1 XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #8

XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #9

XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #10

1 XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" Oil Swell Packer #11

XXX' (XX Joints) of 4 1/2", 11.6#, L-80 Casing

4 1/2" 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.

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 1/2" workstring tubing. Run in hole with 4 1/2" 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 1/2" 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

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 1/2" 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 1/2" 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 1/2" GLM
 - XX joints of 3 1/2" EUE 8rd Tubing
 - 3 1/2" GLM
 - XX joints of 3 1/2" EUE 8rd Tubing
 - 3 1/2" 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 TRSSSV, 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: At no time will hanger hold down pin be removed. 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 TRSSSV and install FMC BPV into tubing hanger. Nipple down BOPE and nipple up FMC 3 1/2" 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.

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: 8/24/06
Recompletion 8/14/06, 10/04/06

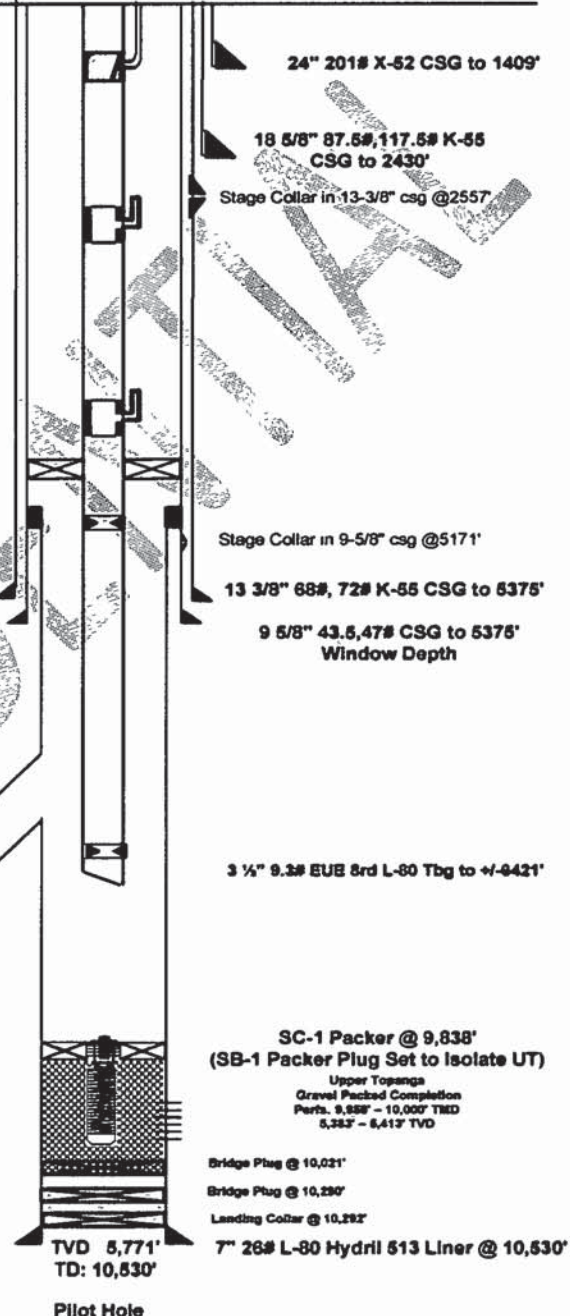
Description as run 8/14/06	ID	LENGTH	DEPTH
KB		50.38	0.00
FMC tbg hanger w / Pup 3 55"		0.80	50.38
3 1/2" pin x pin 9 2# L-80 8rd EUE pup jt	2.992	3.55	51.18
3 1/2" 9 3# L-80 8rd EUE pup jt	2.992	10.16	54.73
3 1/2" 9 3# L-80 8rd EUE pup jt	2.992	10.08	64.89
31 jts 3 1/2" 9 3# L-80 8rd EUE tbg	2.812	967.84	74.97
3 1/2" 9 3# L-80 8rd EUE pup jt	2.992	8.09	1042.81
BAKER 3 1/2" " TE-6" 8SSV	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 MANIREL - 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 MANIREL - CRO-1.0R 11/16" 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	5.28	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" BKN 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" BKN Profile Nipple	2.992	1.28	5406.60
3 1/2" 9 3# L-80 8rd EUE pup jt	2.992	10.15	5407.06
Wireline re-entry guide 5 125" OD		0.80	5417.21
Tail			5418.01

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)

Monterey M2
Lateral Open Hole Completion

TVD 4,661'
TD: 10,400'
Lateral Open Hole



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 11/17/09 DHB

**SOCKEYE FIELD
WELL E-8ST1 and ST2**

Completion Date 6/24/06
Recompletion 8/14/06, 10/04/06

**Single Producer M2 Lateral
Upper Topanga PROPOSED ABANDONMENT**

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)

Monterey M2
Lateral Open Hole Completion

TVD 4,661'
TD: 10,400'

Lateral Open Hole

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'

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 Depth

Set Permanent bridge
plug at +/- 9300' to
permanently abandon
the Upper Topanga
Gravel Pack
Completion currently
named the E-8 ST1
well

SC-1 Packer @ 9,838'
(SB-1 Packer Plug Set to Isolate UT)

Upper Topanga
Gravel Packed Completion
Perfs: 9,958' - 10,000' TMD
8,383' - 8,413' TVD

Bridge Plug @ 10,021'

Bridge Plug @ 10,230'

Landing Collar @ 10,292'

7" 26# L-80 Hydril 513 Liner @ 10,530'

TVD 5,771'
TD: 10,530'

Pilot Hole

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

Drawing Revision 11/11/09 DAKN

Completion Date: 6/24/08
Recompletion: 8/14/08, 10/04/08

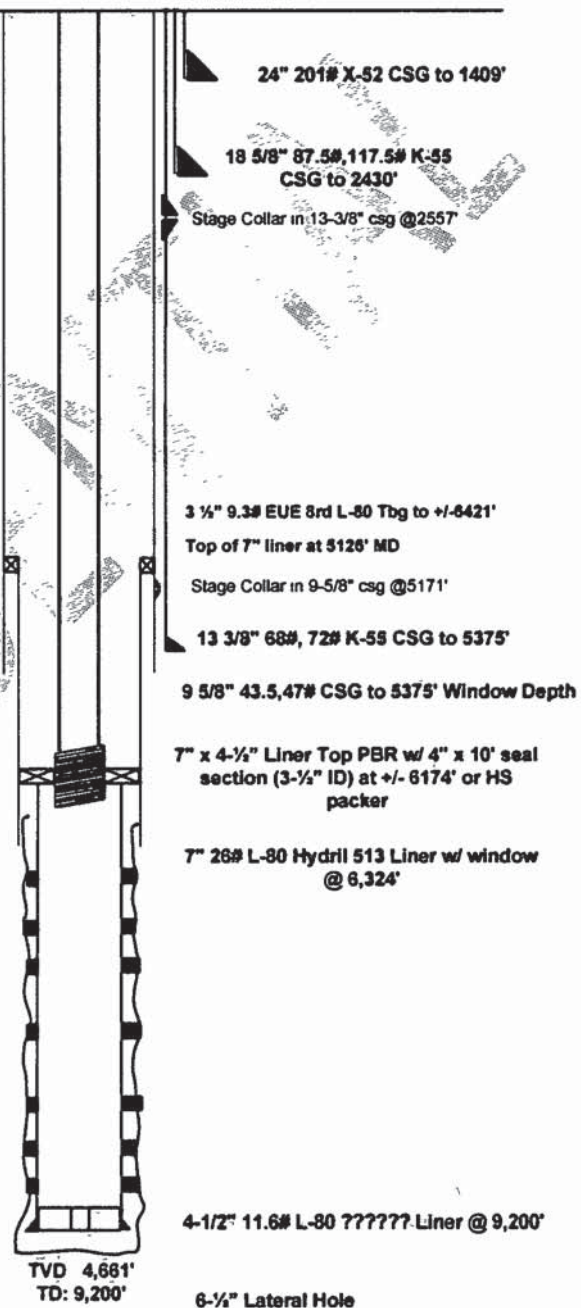
PROPOSED FRAC DESIGN

Description as run 8/14/06	ID	LENGTH	DEPTH
KB			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)

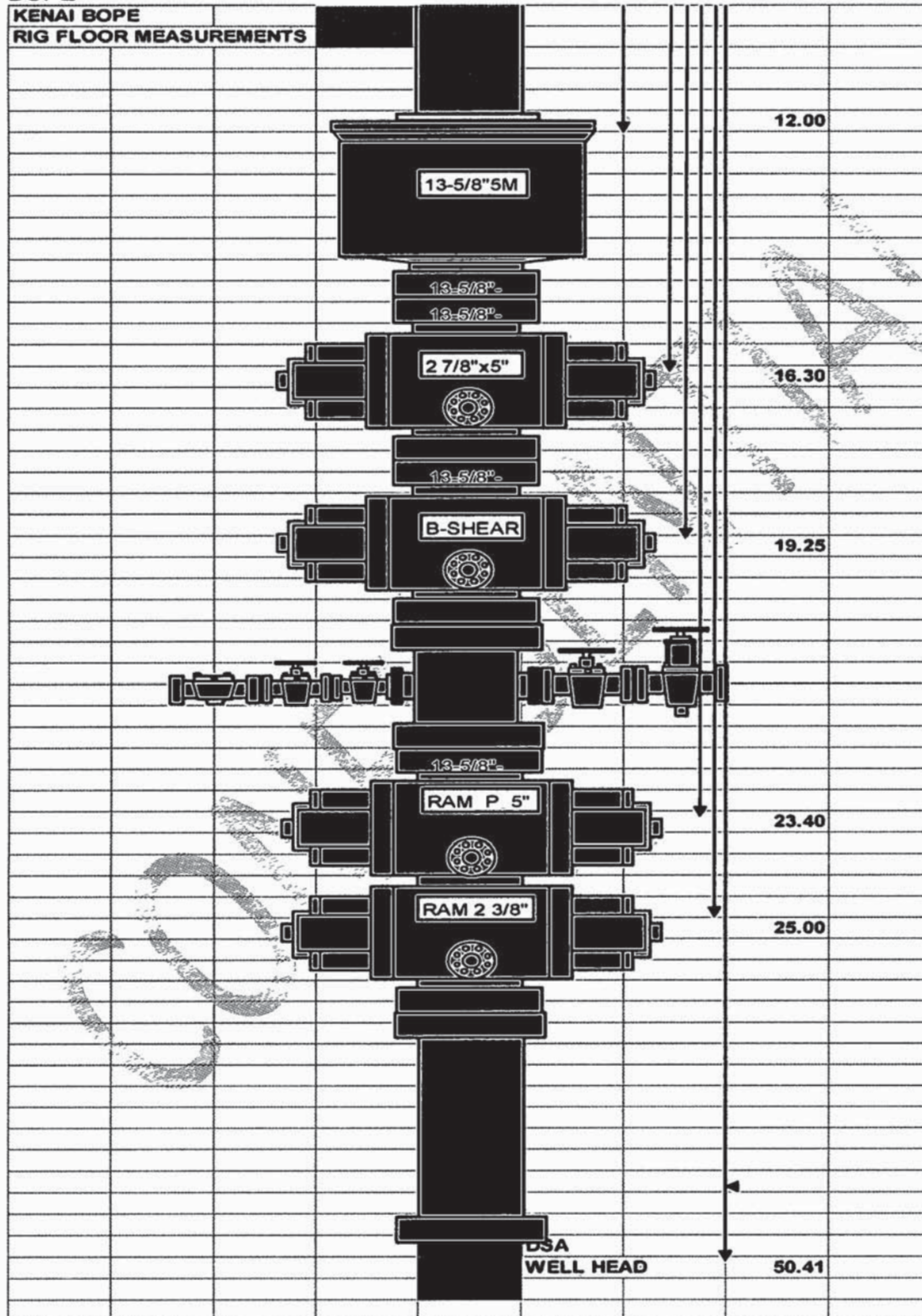
Completion Liner 4 1/2" 11.6# L80 Liner

- 12 Tam Swell Packers
- Perforate via coil tubing jetting between swell packers.



BOPE

KENAI BOPE
RIG FLOOR MEASUREMENTS



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.

Copy to Vault

COPY #1

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) E-8	2 SIDETRACK NO (CURRENT) 02	3 BYPASS NO (CURRENT)	4 OPERATOR NAME and ADDRESS (Submitting office) Venoco Inc 6267 Carpinteria Ave Ste100 Carpinteria CA 93013
5 API WELL NO (12 digits) 04-311-20674-02	6 START DATE (Proposed) 12-26-09	7 ESTIMATED DURATION (DAYS) 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	
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 ☐ Artificial 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) Program for coil tubing supported fracture stimulation attached			
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, 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)	Test Pressure (psi)
	Low/High		Low/High
25 Coiled Tubing BOP:		26 Snubbing Unit BOP:	
Working Pressure (psi)	BOP Test Pressure (psi)	Working Pressure (psi)	Test Pressure (psi)
15000	250/5000		
	Low/High		Low/High
28 CONTACT NAME Dana Billings		29 CONTACT TELEPHONE NO 805-745-2139	
31 AUTHORIZING OFFICIAL (Type or print name) Ed O' Donnell		32 TITLE Senior Vice President	
33 AUTHORIZING SIGNATURE		34 DATE December 22, 2009	

RECEIVED

MAR 15 2010

MINERALS MANAGEMENT SERVICE
OFFICE OF FIELD OPERATIONS

THIS SPACE FOR MMS USE ONLY

APPROVED BY:

TITLE

DATE

OPIC SGD BY: Dan Knowlson

District Manager

DEC 23 2009

Releasable to public
Name: SRH Date: 5/9/13

Application for Permit to Modify (APM) Information Sheet

35) Question Information		
Questions	Response	Remarks
a) Is H ₂ S 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 250.197. 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

6 STAGES

① Frac sand / Flex sand
then Flex sand - go to
next zone - then vac

② NU / Test BOP

③ pull Frac string

④ RIT 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 1/2" Cameron 5000 PSI WP

Lease: OCS-P-0209

Drawing Revision 12/22/09 DHB

SOCKEYE FIELD

WELL E-8RD

Completion Date 6/24/06

Recompletion 8/14/06, 10/04/06

PROPOSED FRAC DESIGN

Completion Liner 4 1/2" 12.6# L80 Liner

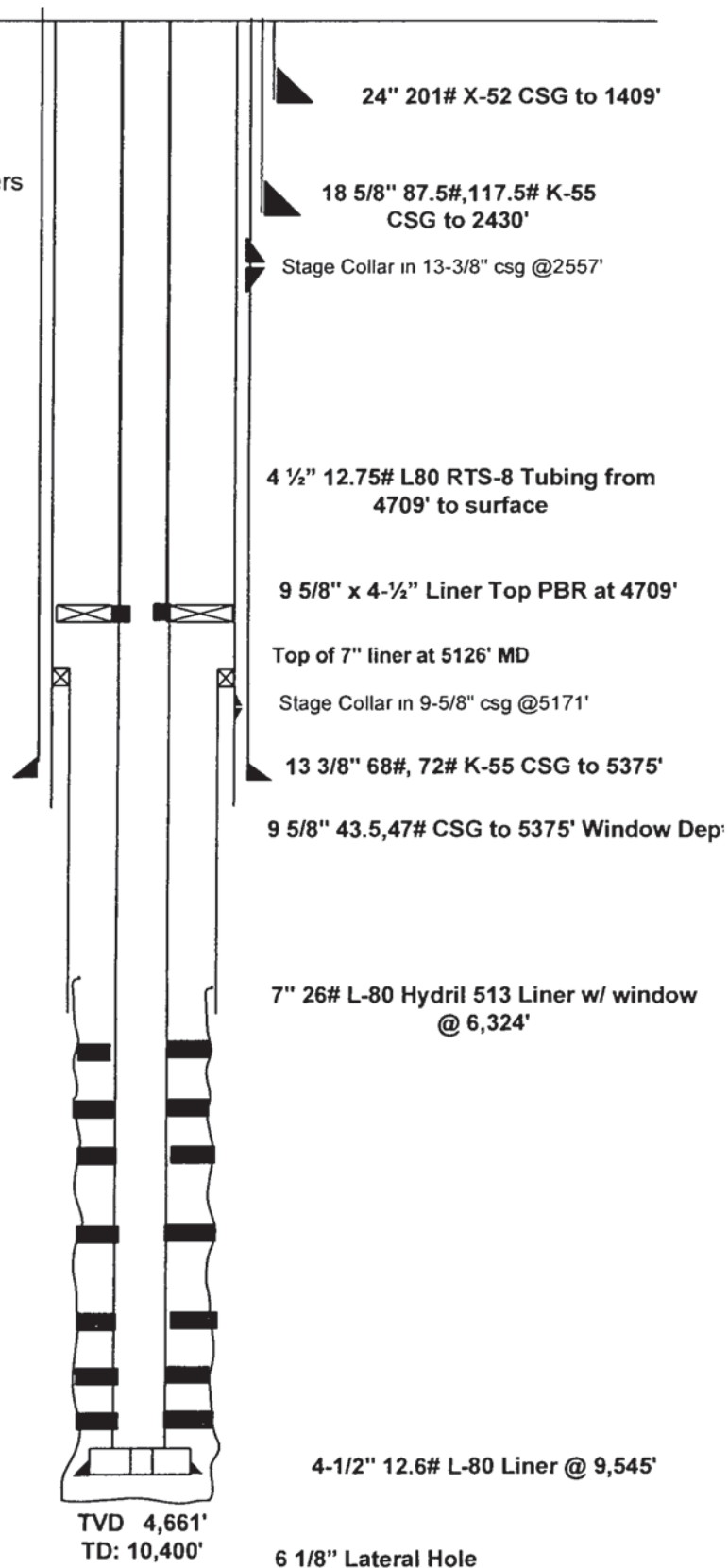
- 12 Tam Swell Packers
- Perforate via coil tubing jetting between swell packers

#		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)



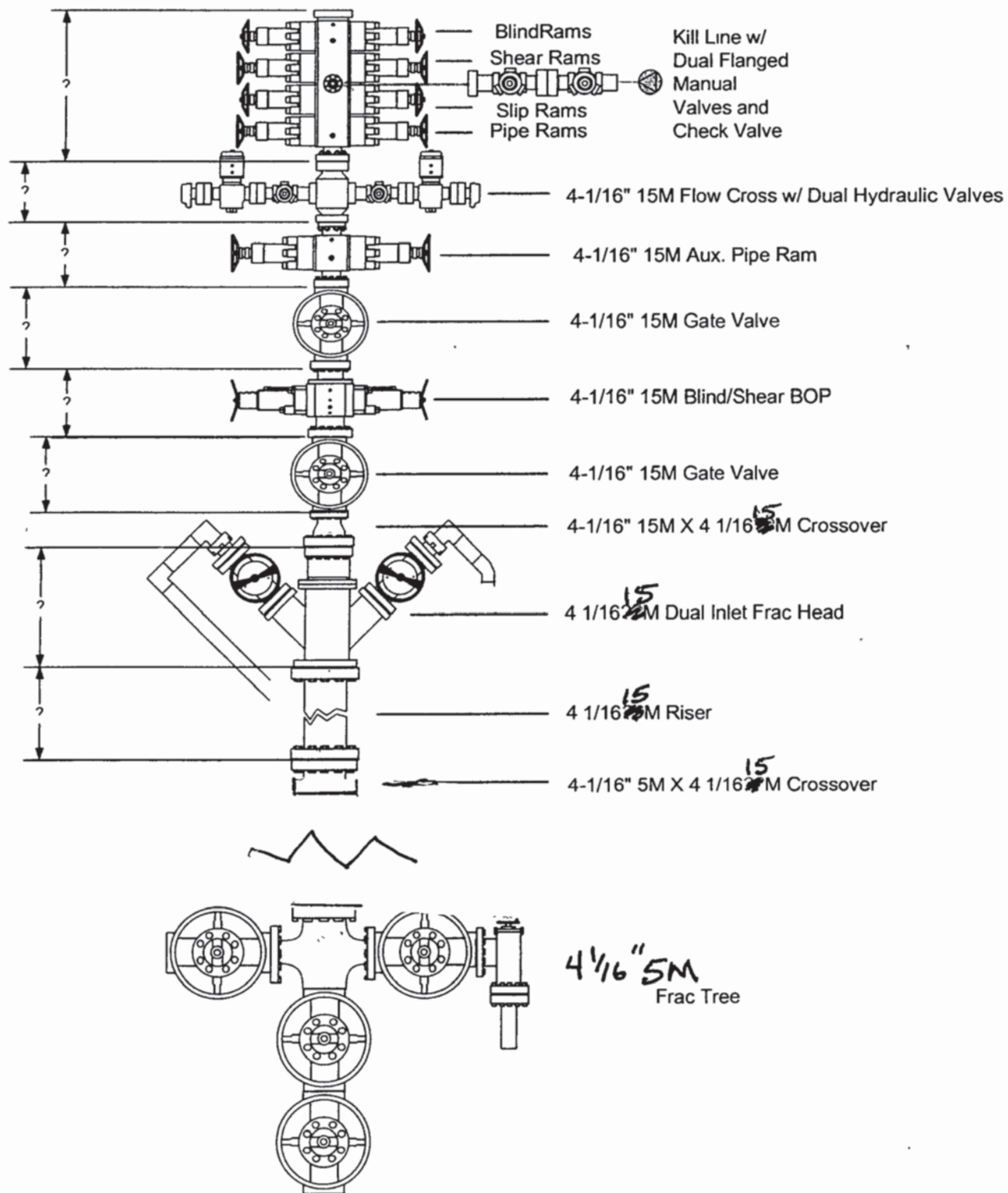


Proposed CT/Frac 4-1/16" Stack Configuration

Items in BLUE Provided by Lafayette CT Ops

Client: Venoco
Well:
Date: 12/04/09
Drawn by: Charles A. Liles

Note: Not to Scale



January 09, 2010

Don Schmohr
Sr. Completions Engineer

Treatment Summary

E-8ST2

E-8ST2 Stage 1 Frac Consisted of 2 injections, an over flush and the main job treatment.

The treatment began with a 16.7 bbl seawater injection. The surface treating pressure was 1773 psi at 11.3 bpm. Closure occurred at 459 psi surface, 2552 psi bottom hole giving a closure grad of 0.54 psi/ft and a fluid efficiency of 72.2%. Next, a second seawater injection containing 54.1 bbl was pumped. The surface treating pressure was 2827 psi at 17.8 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 916 psi and a fracture gradient 0.64 psi/ft. Total friction consisted of 1020 psi perforation friction and 52 psi near-wellbore friction. During the first attempt at the main frac job, the proppant rate from the silo was not enough to keep up with pumping rate. The decision to over flush the well with seawater was made by the company man.

The second attempt at the main frac job had better results with the total treatment being pumped to completion. The treatment contained 649 slurry barrels, 587 fluid barrels, and 55,982 lbs of 20/40 White. The final treating pressure was 2886 psi at 18.8 bpm. The final ISIP was 858 psi with a gradient of 0.63 psi/ft. Approximately 54,150 lbs of proppant were placed in the formation with 1,832 lbs remaining in the casing to act as a plug. When the plug was tested, it was unable to hold pressure.

E-8ST2 Stage 2 Frac Consisted of an injection and the main job treatment.

The treatment began with a 64 bbl seawater injection. The surface treating pressure was 3,849 psi at 11.7 bpm. Closure occurred at 547 psi surface, 2,640 psi bottom hole giving a closure grad of 0.56 psi/ft and a fluid efficiency of 41.5%. A step-down test was performed at the end of the injection, giving an ISIP of 942 psi and a fracture gradient 0.65 psi/ft. Total friction consisted of 2237 psi perforation friction and 280 psi near-wellbore friction.

The main frac job screened out 71 bbls into the final displacement. The treatment contained 525 slurry barrels, 461 fluid barrels, and 57,210 lbs of 20/40 White. The final treating pressure was 5,893 psi at 15 bpm. Approximately 37,393 lbs of proppant were placed in the formation with 19,817 lbs remaining in the casing.

E-8ST2 Stage 3 Frac Consisted of an injection followed by the main job treatment.

The treatment began with a 127.8 bbl seawater injection. The surface treating pressure was 3146 psi at 10.8 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1164 psi and a fracture gradient 0.70 psi/ft. Total friction consisted of 982 psi perforation friction and 635 psi near-wellbore friction. Closure occurred at 467 psi surface, 2516 psi bottom hole giving a closure grad of 0.55 psi/ft and a fluid efficiency of 45.1%.

The total treatment was pumped to completion. The treatment contained 585 slurry barrels, 525 fluid barrels, and 53,084 lbs of 20/40 White. The final treating pressure was 3638 psi at 17.7 bpm. The final ISIP was 1800 psi with a gradient of 0.84 psi/ft. Approximately 50,181 lbs of proppant were placed in the formation with 2,903 lbs remaining in the casing to act as a plug. When the plug was tested, it held approximately 2000 psi. The plug was deemed good by the company man.



Proposal: 52085016D
Job: 1001544406

Post Treatment Report

**Venoco, Inc.
E-8ST2 Stage 1 - 6
Platform Gail
Santa Barbara County
API 04-311-20674**



POWERVISION™

E-8ST2 Stage 4 Consisted of 3 cuttings at different depths and 3 different attempts at injections.

The treatment began with cutting a set of holes at 7500'. After the cutting, a seawater injection was performed. During the injection, high treating pressure was encountered and a frac job could not be performed. The maximum surface treating pressure was 5671 at 10.6 bpm. The company man, therefore, decided to cut a second set of holes at 7495'. Once the holes had been cut, a seawater injection was again performed. Once again, due to high treating pressure, a frac job could not be performed. The maximum surface treating pressure was 4457 at 3.8 bpm. The company man decided to cut another set of holes at 7650'. However, due to high treating pressure during the cutting, the process was stopped. The coiled tubing cutting tool was brought out of the hole for inspection. Some trash was found in the tool. Once the tool was cleaned, holes were cut at 7650'. Once again, a seawater injection was performed but again high treating pressure prevented a frac job from being attempted. The max surface treating pressure was 4244 at 2.5 bpm. At this point, the company man abandoned the planned stage 4 frac.

The frac treatment could not be started due to high treating pressure encountered during the injections. The treatment contained 95 slurry barrels, 95 fluid barrels, and 0 lbs of 20/40 White. No stepdown data was taken.

E-8ST2 Stage 5 Frac Consisted of an injection followed by a treatment, then followed by a second injection and treatment.

The First Injection consisted of 27.2 bbls of seawater. The surface treating pressure was 3,606 psi at 11.5 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1,222 psi and a fracture gradient 0.714 psi/ft, the Perf friction 621 psi, and a Near-wellbore friction of 1,417 psi. Closure was determined at a Surface pressure of 507 psi Bottom Hold 2,536, that is a 0.56 Gradient.

The main treatment was screened out 25 bbls into displacement. The treatment contained 508 slurry barrels, 484 fluid barrels, and 21,216 lbs of 20/40 White. Approximately 7,999 lbs of proppant were placed in the formation. A second set of perforations were cut 330 measure feet above the original set of perforations.

The Second Injection consisted of 110.6 bbls of seawater. The surface treating pressure was 3,707 psi at 11 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1,073 psi and a fracture gradient 0.68 psi/ft, the Perf friction 1,641 psi, and a Near-wellbore friction of 649 psi. Closure was determined at a Surface pressure of 471 psi Bottom Hold 2,476, that is a 0.55 Gradient.

The main treatment was screened out 52.7 bbls into 5 ppg Hold Stage, the screenout came so quickly that no flush was possible. The treatment contained 499 slurry barrels, 461 fluid barrels, and 34,364 lbs of 20/40 White. Approximately 17,162 lbs of proppant were placed in the formation.

E-8ST2 Stage 6 Frac Consisted of Two injections no main treatment.

The First Injection consisted of 84.7 bbls of seawater. The surface treating pressure was 4,825 psi at 6.8 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1690 psi and a fracture gradient 0.82 psi/ft, the Perf friction 475 psi, and a Near-wellbore friction of 1,380 psi. No Closure was determined. No main treatment was performed.

After Cutting a second set of Perforations one measured foot below the original set, a second Injection test was performed.

The Second Injection consisted of 43.7 bbls of seawater. The surface treating pressure was 3667 psi at 6.4bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1,982 psi and a fracture gradient 0.89 psi/ft, the Perf friction 290 psi, and a Near-wellbore friction of 982 psi. No Closure was determined.

Based on these poor results a modified treatment was designed and attempted. Once the treatment was started a treating pressure of 4,380 psi at 7.9 bpm was reached with only seawater on the formation. Based on this the treatment was canceled.



BJ Services appreciates the opportunity to perform pumping services for you in cost-effective manner that focuses on safety and quality.

Please Contact the Bakersfield Engineering Department if you have any questions.

Sincerely,

Depesh Patel
Area Engineer
Bakersfield District
Baker Hughes Incorporated

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. ☒ COMPLETION ☐ ABANDONMENT ☐ CORRECTION		2. MMS OPERATOR NO. 02309		3. OPERATOR NAME and ADDRESS (Submitting office) Venoco, Inc 6267 Carpinteria Ave Carpinteria, CA 93013	
4. WELL NAME (CURRENT) E-8		5. SIDETRACK NO. (CURRENT) 2		6. BYPASS NO. (CURRENT)	
7. API WELL NO (CURRENT SIDETRACK / BYPASS) (12 DIGITS) 04-311-2067402		8. PRODUCING INTERVAL CODE S01			
WELL AT TOTAL DEPTH					
9. LEASE NO. P-0209	10. AREA NAME 6B	11. BLOCK NO. 4761	12. LATITUDE ☒ NAD 27 (GOM & Pacific) ☐ NAD 83 (Alaska)	13. LONGITUDE ☒ NAD 27 (GOM & Pacific) ☐ NAD 83 (Alaska)	
WELL STATUS INFORMATION					
14. Well Status COM	15. Type Code GLO	16. Well Status Date January 18, 2010		17. MD <u>1400</u> TVD <u>4661</u> Total Depth <u>Yes</u>	
WELL AT PRODUCING ZONE					
18. LEASE NO. P-0209	19. AREA NAME 6B	20. BLOCK NO. 4761	21. LATITUDE ☒ NAD 27 (GOM & Pacific) ☐ NAD 83 (Alaska)	22. LONGITUDE ☒ NAD 27 (GOM & Pacific) ☐ NAD 83 (Alaska)	
23. COMPLETION DATE: January 18, 2010		24. DATE OF FIRST PRODUCTION: January 18, 2010		25. ISOLATED DATE:	
PERFORATED INTERVAL(S) THIS COMPLETION					
26. TOP (MD): 6610		27. BOTTOM (MD): 10400		28. TOP (TVD): 4459	
				29. BOTTOM (TVD): 4661	
30. RESERVOIR NAME(S). Monterey		31. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION Monterey			
HYDROCARBON BEARING INTERVALS					
32. INTERVAL NAME: M2		33. TOP (MD) 5776	34. BOTTOM (MD) 10400	35. TYPE OF HYDROCARBON Oil	
SIGNIFICANT MARKERS Penetrated (account for all markers identified on APD)					
36. INTERVAL NAME: M2		37. TOP (MD) 5776	38. REASON IF MARKER NOT PENETRATED No Change		
SUBSEA COMPLETION					
39. SUBSEA COMPLETION? Yes/No	40. IF YES: PROTECTION PROVIDED? Yes/No		41. BUOY INSTALLED? Yes/No		42. TREE HEIGHT ABOVE ML(R): RECEIVED

E-8 ST2 Walker

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: Dana Billings	CONTACT TELEPHONE NO.: 805-745-2139		CONTACT E-MAIL ADDRESS: 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 kookey 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 1/2" 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 Retrievmatic 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 1/2" 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 1/2" 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 1/2" 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 1/2" 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 1/2" 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 1/2" 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 tall at 4735' – inside 4 1/2" 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' D 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 2/23/10 MLO

SOCKEYE FIELD**WELL E-8 ST2****Single Producer M2 Lateral
POST FRAC COMPLETION**

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' (heel)

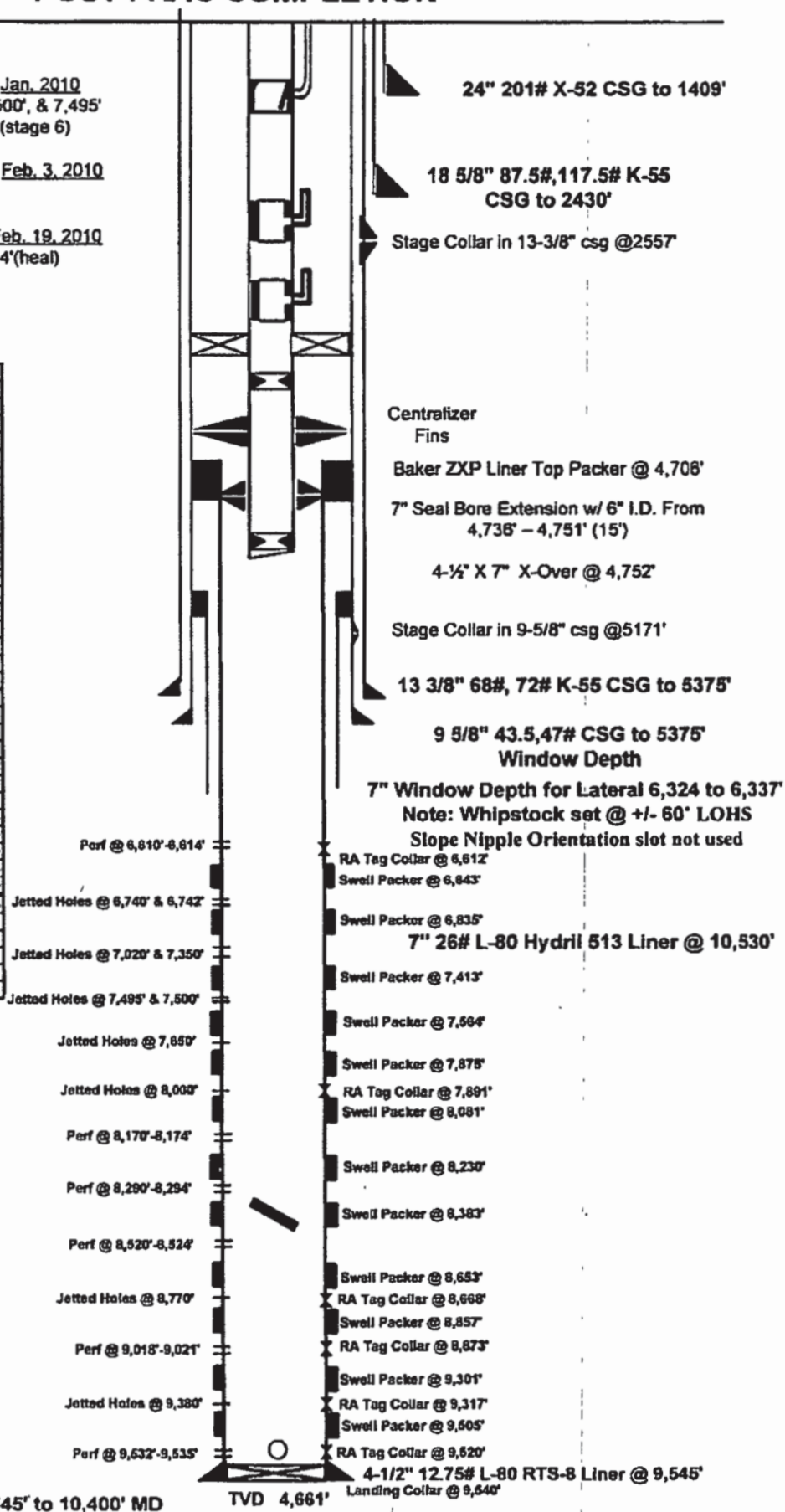
TUBING DETAIL			
Joints	Description	LENGTH	DEPTH
	KB	50.60	0.00
	FMC Tbg. Hanger 3-1/2" EUE Box X 3-1/2" EUE Box	0.75	50.60
	3 1/2" 9.3# L80 EUE BRD PIN X PIN	3.68	51.35
	3 1/2" 9.3# L80 EUE BRD Pup	4.12	55.03
	3 1/2" 9.3# L80 EUE BRD Pup	6.14	59.15
	3 1/2" 9.3# L80 EUE BRD Pup	10.12	69.29
30	3 1/2" 9.3# L80 EUE BRD	932.73	75.41
	3 1/2" 9.3# L80 EUE BRD Pup	6.32	1008.14
	3 1/2" TRSSSV	5.45	1014.46
	3 1/2" 9.3# L80 EUE BRD Pup	4.07	1019.91
64	3 1/2" 9.3# L80 EUE BRD	1996.38	1023.98
	3 1/2" 9.3# L80 EUE BRD Pup	4.05	3020.36
	3 1/2" GLM	7.11	3024.41
	3 1/2" 9.3# L80 EUE BRD Pup	4.07	3031.52
	3 1/2" 9.3# L80 EUE BRD Pup	10.12	3035.59
43	3 1/2" 9.3# L80 EUE BRD	1342.35	3045.71
	3 1/2" 9.3# L80 EUE BRD Pup	4.11	4388.08
	3 1/2" GLM	7.02	4392.17
	3 1/2" 9.3# L80 EUE BRD Pup	4.09	4399.19
4	3 1/2" 9.3# L80 EUE BRD	123.64	4403.28
	3 1/2" 9.3# L80 EUE BRD Pup	6.28	4526.92
	BAKER 9 5/8" HS Packer	6.59	4533.20
	3 1/2" 9.3# L80 EUE BRD Pup	4.11	4539.79
1	3 1/2" 9.3# L80 EUE BRD	31.33	4543.90
	2.813" BX Nipple	1.17	4575.23
4	31" of 3 1/2" 9.3# L80 EUE BRD	125.10	4576.40
	3 1/2" 9.3# L80 EUE BRD Pup w/ 7.869" OD NoGo Pins	2.08	4701.50
1	3 1/2" 9.3# L80 EUE BRD	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



Proposal: 52085016D

Job: 1001544406

Post Treatment Report

Venoco, Inc.
E-8ST2 Stage 1 - 6
Platform Gail
Santa Barbara County
API 04-311-20674



POWER VISION™



January 09, 2010

Don Schmohr
Sr. Completions Engineer

Treatment Summary

E-8ST2

E-8ST2 Stage 1 Frac Consisted of 2 injections, an over flush and the main job treatment.

The treatment began with a 16.7 bbl seawater injection. The surface treating pressure was 1773 psi at 11.3 bpm. Closure occurred at 459 psi surface, 2552 psi bottom hole giving a closure grad of 0.54 psi/ft and a fluid efficiency of 72.2%. Next, a second seawater injection containing 54.1 bbl was pumped. The surface treating pressure was 2827 psi at 17.8 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 916 psi and a fracture gradient 0.64 psi/ft. Total friction consisted of 1020 psi perforation friction and 52 psi near-wellbore friction. During the first attempt at the main frac job, the proppant rate from the silo was not enough to keep up with pumping rate. The decision to over flush the well with seawater was made by the company man.

The second attempt at the main frac job had better results with the total treatment being pumped to completion. The treatment contained 649 slurry barrels, 587 fluid barrels, and 55,982 lbs of 20/40 White. The final treating pressure was 2886 psi at 18.8 bpm. The final ISIP was 858 psi with a gradient of 0.63 psi/ft. Approximately 54,150 lbs of proppant were placed in the formation with 1,832 lbs remaining in the casing to act as a plug. When the plug was tested, it was unable to hold pressure.

E-8ST2 Stage 2 Frac Consisted of an injection and the main job treatment.

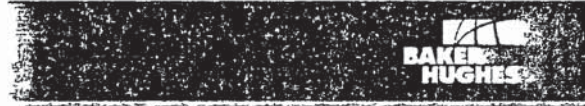
The treatment began with a 64 bbl seawater injection. The surface treating pressure was 3,849 psi at 11.7 bpm. Closure occurred at 547 psi surface, 2,640 psi bottom hole giving a closure grad of 0.56 psi/ft and a fluid efficiency of 41.5%. A step-down test was performed at the end of the injection, giving an ISIP of 942 psi and a fracture gradient 0.65 psi/ft. Total friction consisted of 2237 psi perforation friction and 280 psi near-wellbore friction.

The main frac job screened out 71 bbls into the final displacement. The treatment contained 525 slurry barrels, 461 fluid barrels, and 57,210 lbs of 20/40 White. The final treating pressure was 5,893 psi at 15 bpm. Approximately 37,393 lbs of proppant were placed in the formation with 19,817 lbs remaining in the casing.

E-8ST2 Stage 3 Frac Consisted of an injection followed by the main job treatment.

The treatment began with a 127.8 bbl seawater injection. The surface treating pressure was 3146 psi at 10.8 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1164 psi and a fracture gradient 0.70 psi/ft. Total friction consisted of 982 psi perforation friction and 635 psi near-wellbore friction. Closure occurred at 467 psi surface, 2516 psi bottom hole giving a closure grad of 0.55 psi/ft and a fluid efficiency of 45.1%.

The total treatment was pumped to completion. The treatment contained 585 slurry barrels, 525 fluid barrels, and 53,084 lbs of 20/40 White. The final treating pressure was 3638 psi at 17.7 bpm. The final ISIP was 1800 psi with a gradient of 0.84 psi/ft. Approximately 50,181 lbs of proppant were placed in the formation with 2,903 lbs remaining in the casing to act as a plug. When the plug was tested, it held approximately 2000 psi. The plug was deemed good by the company man.



E-8ST2 Stage 4 Consisted of 3 cuttings at different depths and 3 different attempts at injections.

The treatment began with cutting a set of holes at 7500'. After the cutting, a seawater injection was performed. During the injection, high treating pressure was encountered and a frac job could not be performed. The maximum surface treating pressure was 5671 at 10.6 bpm. The company man, therefore, decided to cut a second set of holes at 7495'. Once the holes had been cut, a seawater injection was again performed. Once again, due to high treating pressure, a frac job could not be performed. The maximum surface treating pressure was 4457 at 3.8 bpm. The company man decided to cut another set of holes at 7650'. However, due to high treating pressure during the cutting, the process was stopped. The coiled tubing cutting tool was brought out of the hole for inspection. Some trash was found in the tool. Once the tool was cleaned, holes were cut at 7650'. Once again, a seawater injection was performed but again high treating pressure prevented a frac job from being attempted. The max surface treating pressure was 4244 at 2.5 bpm. At this point, the company man abandoned the planned stage 4 frac.

The frac treatment could not be started due to high treating pressure encountered during the injections. The treatment contained 95 slurry barrels, 95 fluid barrels, and 0 lbs of 20/40 White. No stepdown data was taken.

E-8ST2 Stage 5 Frac Consisted of an injection followed by a treatment, then followed by a second injection and treatment.

The First Injection consisted of 27.2 bbls of seawater. The surface treating pressure was 3,606 psi at 11.5 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1,222 psi and a fracture gradient 0.714 psi/ft, the Perf friction 621 psi, and a Near-wellbore friction of 1,417 psi. Closure was determined at a Surface pressure of 507 psi Bottom Hold 2,536, that is a 0.56 Gradient.

The main treatment was screened out 25 bbls into displacement. The treatment contained 508 slurry barrels, 484 fluid barrels, and 21,216 lbs of 20/40 White. Approximately 7,999 lbs of proppant were placed in the formation. A second set of perforations were cut 330 measure feet above the original set of perforations.

The Second Injection consisted of 110.6 bbls of seawater. The surface treating pressure was 3,707 psi at 11 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1,073 psi and a fracture gradient 0.68 psi/ft, the Perf friction 1,641 psi, and a Near-wellbore friction of 649 psi. Closure was determined at a Surface pressure of 471 psi Bottom Hold 2,476, that is a 0.55 Gradient.

The main treatment was screened out 52.7 bbls into 5 ppg Hold Stage, the screenout came so quickly that no flush was possible. The treatment contained 499 slurry barrels, 461 fluid barrels, and 34,364 lbs of 20/40 White. Approximately 17,162 lbs of proppant were placed in the formation.

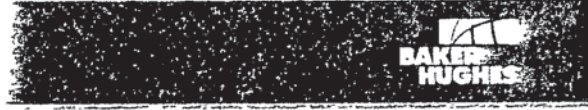
E-8ST2 Stage 6 Frac Consisted of Two injections no main treatment

The First Injection consisted of 84.7 bbls of seawater. The surface treating pressure was 4,825 psi at 6.8 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1690 psi and a fracture gradient 0.82 psi/ft, the Perf friction 475 psi, and a Near-wellbore friction of 1,380 psi. No Closure was determined. No main treatment was performed.

After Cutting a second set of Perforations one measured foot below the original set, a second Injection test was performed.

The Second Injection consisted of 43.7 bbls of seawater. The surface treating pressure was 3667 psi at 6.4 bpm. A step-down test was performed at the end of the injection, giving an ISIP of 1,982 psi and a fracture gradient 0.89 psi/ft, the Perf friction 290 psi, and a Near-wellbore friction of 982 psi. No Closure was determined.

Based on these poor results a modified treatment was designed and attempted. Once the treatment was started a treating pressure of 4,380 psi at 7.9 bpm was reached with only seawater on the formation. Based on this the treatment was canceled.



BJ Services appreciates the opportunity to perform pumping services for you in cost-effective manner that focuses on safety and quality.

Please Contact the Bakersfield Engineering Department if you have any questions.

Sincerely,

Depesh Patel
Area Engineer
Bakersfield District
Baker Hughes Incorporated

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)

CO. 1 TO REGION

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 501	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			
19 PROPOSED OR COMPLETED WORK (Describe in Section 22) ☐ INITIAL COMPLETION ☐ PERMANENT PLUGGING ☒ ACIDIZE WITH COIL TUBING ☐ MULTI-COMPLETION ☐ TEMPORARY ABANDONMENT ☒ ARTIFICIAL LIFT (INITIAL) ☐ RECOMPLETION ☐ PLUG BACK TO SIDETRACK / BYPASS ☒ WORKOVER ☒ MODIFY PERFORATIONS ☐ CHANGE IN APPROVED PROCEDURE ☐ CHANGE ZONE ☐ OTHER _____ ☐ 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 Brent H. Martin		24. CONTACT TELEPHONE NO (661) 395-5201	25 CONTACT E-MAIL ADDRESS martinb@nuevoenergy.com			
26 AUTHORIZING OFFICIAL (Type or Print Name) Richard F. Garcia		27. TITLE as Agent for Nuevo Energy Company				
28 AUTHORIZING SIGNATURE 		29 DATE 2/20/03				

THIS SPACE FOR MMS USE ONLY		
APPROVED BY 	TITLE District Supervisor	DATE 2/20/03

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 1 1/4 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	± 215 k#'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 perf. 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. If 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 $\pm 11,335'$ 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 $\pm 11362'$ 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 $\pm 11377'$ 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 $\pm 11312'$ 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 $\pm 11,150'$. 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 $\pm 11150'$ 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 $\pm 10,000'$ MD and the ESP mudline packer @ $\pm 510'$ 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 SCSSSV 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 SCSSSV 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.

Current

COMPLETION GUIDE



HALLIBURTON ENERGY SERVICES COMPLETION PRODUCTS

PREPARED FOR: John Herin COMPANY: Nuevo Energy DATE: 20-Nov-01 NEW: W/O: Temp

FIELD NAME Santa Clara WELL NAME: Gilda S-44 WELL No.: 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	8.35	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 3rd 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 BY Jerry Brown

OFFICE: Oxnard CA

TELEPHONE:

805-487-9636

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 ☐ 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) 2/26/03	9. PRODUCING INTERVAL CODE 501	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		
19 PROPOSED OR COMPLETED WORK (Describe in Section 22) ☐ INITIAL COMPLETION ☐ PERMANENT PLUGGING ☒ ACIDIZE WITH COIL TUBING ☐ MULTI-COMPLETION ☐ TEMPORARY ABANDONMENT ☒ ARTIFICIAL LIFT (INITIAL) ☐ RECOMPLETION ☐ PLUG BACK TO SIDETRACK / BYPASS ☒ WORKOVER ☒ MODIFY PERFORATIONS ☒ CHANGE IN APPROVED PROCEDURE ☐ CHANGE ZONE ☐ OTHER _____ ☐ 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) 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 Brent H. Martin		24 CONTACT TELEPHONE NO. (661) 395-5201		25 CONTACT E-MAIL ADDRESS martinb@nuevoenergy.com	
26 AUTHORIZING OFFICIAL (Type or Print Name) Richard F. Garcia		27 TITLE as Agent for Nuevo Energy Company			
28 AUTHORIZING SIGNATURE <i>Richard F. Garcia</i> 3y W.V.		29. DATE 2/26/03			

THIS SPACE FOR MMS USE ONLY

APPROVED BY <i>[Signature]</i>	TITLE District Supervisor	DATE 2/26/03
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PROCEDURES:

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7. Check to confirm well is static. Pull tubing hanger and unseat packer.
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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.

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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
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 - d. Close bypass.
 - e. Displace cement slurry to the open perforations.
 - f. Squeeze cement through the perforations.
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 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 $\pm 11362'$ 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 $\pm 11377'$ 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 $\pm 11312'$ 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 $\pm 11,150'$. 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 ppg, N-80 production string. Position the bottom of the ESP assembly at $\pm 10,000'$ MD and the ESP mudline packer @ $\pm 510'$ 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 ppg, 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:

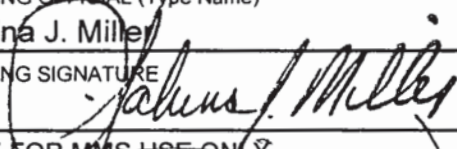
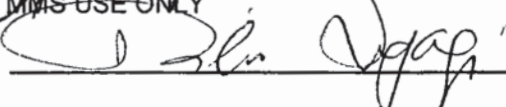
- a) REDA serviceman will test electric cable at intervals during run.
 - b) **An MMS variance will be required 24 hours in advance prior to soldering the cable splice.** Utilize explosion proof ventilation fan to clear well vapors. Fill out hot work permit. Continuously monitor work area with hand held 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 SCSSSV 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 SCSSSV 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.

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

Releasable to public
Name: SRH Date: 5/13/13
Submit original plus three copies with one copy marked "Public Information" OMB No. 1010-0045
Expiration Date: September 30, 2002

1 ORIGINAL CORRECTION <u>X</u>		2 API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-20610-03/S01		3. WELL NO S-44		11 OPERATOR NAME AND ADDRESS (Submitting Office) NUEVO ENERGY 1800 30th St., Suite 200 Bakersfield, CA 93301																										
8 FIELD NAME Santa Clara		9 UNIT NUMBER 891012369A		10 MMS OPERATOR NUMBER 01546																												
WELL AT TOTAL DEPTH						COPY TO REGION																										
4 LEASE NUMBER P-0216		5 AREA NAME 6B		6 BLOCK NUMBER 4861		7 OPD NUMBER 6B																										
32 TYPE OF SUBMITTAL REQUEST APPROVAL <u>X</u> SUBSEQUENT REPORT		33 PROPOSED OR COMPLETED WELLWORK <table style="width:100%; border: none;"> <tr> <td>ACIDIZE</td><td>FRACTURE</td><td>PLUG BACK</td><td>WORKOVER</td></tr> <tr> <td>ALTER CASING</td><td>INITIAL COMPLETION <u>X</u></td><td>PULL CASING</td><td>OTHER</td></tr> <tr> <td>ARTIFICIAL LIFT</td><td>MULTICOMPLETION</td><td>RECOMPLETION</td><td></td></tr> <tr> <td>CHANGE ZONE</td><td>PERFORATE</td><td>SIDETRACK <u>X</u></td><td></td></tr> <tr> <td>DEEPEN</td><td>PERM ABANDONMT</td><td>TEMPORARY</td><td></td></tr> <tr> <td></td><td></td><td>ABANDONMENT</td><td></td></tr> </table>					ACIDIZE	FRACTURE	PLUG BACK	WORKOVER	ALTER CASING	INITIAL COMPLETION <u>X</u>	PULL CASING	OTHER	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		CHANGE ZONE	PERFORATE	SIDETRACK <u>X</u>		DEEPEN	PERM ABANDONMT	TEMPORARY				ABANDONMENT		34 WELL STATUS/ TYPE CODE COM/POW	
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DEEPEN	PERM ABANDONMT	TEMPORARY																														
		ABANDONMENT																														
WELL AT SURFACE																																
12 WELL LOCATION AT SURFACE (Surveyed) X=1041775 Y=747981 7825' FEL 3501' FSL				13 LEASE NUMBER P-0216		14 AREA NAME 6B																										
15 BLOCK NO 4861		16. OPD NUMBER 6B		18 WATER DEPTH (Surveyed) 205'		19 ELEVATION AT KB (Surveyed) 107'																										
35 SURVEY BASE NAD 27 <u>X</u> NAD 83		20. RIG NAME Torch 10		21 RIG TYPE PS																												
36 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach Please see the attached information for details o CANCELLED RECEIVED JUL 30 Post-it® Fax Note 7671 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Date: <u>7/30/13</u></td> <td># of pages: <u>1</u></td> </tr> <tr> <td>To: <u>SABRINA MILLER</u></td> <td>From: <u>KEVIN J. DODD</u></td> </tr> <tr> <td>Co /Dept: <u>NUEVO ENERGY</u></td> <td>Co: <u>MMS CAD</u></td> </tr> <tr> <td>Phone # <u>(661) 395-5181</u></td> <td>Phone # <u>(805) 387-7711</u></td> </tr> <tr> <td>Fax # <u>(661) 395-5297</u></td> <td>Fax # <u>(805) 387-7701</u></td> </tr> </table>								Date: <u>7/30/13</u>	# of pages: <u>1</u>	To: <u>SABRINA MILLER</u>	From: <u>KEVIN J. DODD</u>	Co /Dept: <u>NUEVO ENERGY</u>	Co: <u>MMS CAD</u>	Phone # <u>(661) 395-5181</u>	Phone # <u>(805) 387-7711</u>	Fax # <u>(661) 395-5297</u>	Fax # <u>(805) 387-7701</u>															
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26 CONTACT NAME Brent Martin				27 TELEPHONE NUMBER (661) 395-5201																												
28. AUTHORIZING OFFICIAL (Type Name) Sabrina J. Miller				29 TITLE as Agent for Nuevo Energy																												
30 AUTHORIZING SIGNATURE 				31. DATE 010726																												
THIS SPACE FOR MMS USE ONLY																																
APPROVED BY 				TITLE District Supervisor DATE <u>7/30/13</u>																												
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 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.																																

7/26/01

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 CaBr₂ 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.

<u>Tubular Capacities</u>							
	<u>Size</u>	<u>Interval</u>	<u>Wt</u>	<u>ID</u>	<u>Drift</u>	<u>Bbl/ft</u>	<u>Hole Vol (bbl)</u>
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 4-1/4" bit on 3-1/2" (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 CaBr₂) and then 1,000 gal. 15% HCL tubing pickle acid mixture to within 2 joints of the packer (calculate

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capacity of 3-1/2" 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 4-1/4" 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' 3-1/2" PH-6 tubing, 7" Brush Tool, and 5, 3-1/2" PH-6 tubing. Scrape 7" casing to 10,262' liner top and 5" liner to 11,823' PBD. 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.
- 4) Fill active pit, reserve pit, and one steam cleaned Baker tank with 13.3 PPG CaBr₂ 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 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
 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 3-1/2" 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).

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- 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 CaBr₂ 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' 1-1/2" 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 3-1/2" 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.

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- 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 capacity + 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.

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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 capacity + 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	<u>16 Bbls</u>
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	<u>2 Bbls</u>
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.

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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 on 5", 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

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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 CaBr₂ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of CaBr₂ 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 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
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 3-1/2" PH-6 tubing to surface

Caution: On all TCP runs, use pipe dope sparingly.

7/26/01

- 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' 1-1/2" 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 3-1/2" 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 be 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 capacity + 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.**

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- 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 capacity + 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:

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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 on 5", 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.

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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 submersible 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 1/4" 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

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rating.) Banded to tubing will be one #2 ESP cable, 1/4" 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 is 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
Field: Santa Clara Field
Well: S44-ST03
Location: OCS-P 0216
API#: 04-311-20610-03/S01

Spud Date: 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)

Top of Existing 7-5/8" Lnr @ 8,908' MD/6,762' TVD

9-5/8" pipe set @ 9,422' MD/ 7,116' TVD

Overshot @ 10,188' MD
 SC-I Pkr @ 10,320'
 10,437'-10,501'
 10,578'-10,629'
 10,684'-10,703'
 10,736'-10,916'
 11,062'-11,190'

7-5/8", 33.7#, N-80 @ 10,344'

TD: 11,345'

Full String of 7", 26#,
 S-95 & P-110 casing
 run to surface

Hole in 9-5/8" 5606-5614'
 Whipstock Sidetrack Depth
 of $\pm 7,740'$ MD/5959' TVD

TOC above BP @ $\pm 7,785'$ MD

Cmt Retainer- P&A set at $\pm 7,885'$
 TOF @ 7,909' MD/6,075' TVD

Attempted to inject down
 tubing w/3500 psi-No bleedoff

Wt'd Mud Left
 in 2-7/8 x 9-5/8

S44-ST3 Wellbore Schematic (Planned)

13-3/8"

8-1/2" ST-03 Wellbore

7", 26#, S-95 & P-110 casing to surface

REDA DN 17SD ESP @ 10,000' MD
 2 3/8", 6.5", L-80 Tubing to Surface

Top of 5" Liner @ $\pm 10,262'$ MD/7,406' TVD

7" Liner Shoe Between D-K Form.
 @ $\pm 10,600'$ MD/7,625' TVD

6-1/8" Wellbore

Quantum Pkr @ 11,312' MD
 60' 2 3/8" Blank
 80' 2 3/8" 12 gauge gravel pack

Quantum Pkr @ 11,480' MD
 1 1/2" 2 3/8" blank
 20' 2 3/8" 12 gauge gravel pack

Sump Pkr @ 11,705' MD

LP-M Perfs:
 11,410'-11,470'
 Frac Pack w/
 350 lbs 30# Gel
 80,000# 20/40
 Resin Sand

LP-N Perfs:
 11,635'-11,695'
 Frac Pack w/
 350 lbs 30#
 Gel 80,000#
 20/40 Resin
 Sand

5", 15#, P-110, FJ Liner
 TD @ 11,917' MD/8,616' TVD

SC Pkr @ 10,971'

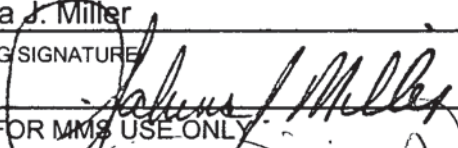
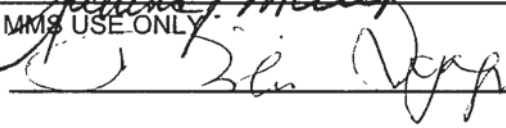
Plug @ 11,621'

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 <u>X</u>		2 API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-20610-03/S01 ✓		3 WELL NO S-44		11. OPERATOR NAME AND ADDRESS (Submitting Office) NUEVO ENERGY 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309																									
8. FIELD NAME Santa Clara		9 UNIT NUMBER 891012369A		10 MMS OPERATOR NUMBER 01546																											
WELL AT TOTAL DEPTH																															
4. LEASE NUMBER P-0216		5 AREA NAME 6B		6 BLOCK NUMBER 4861		7. OPD NUMBER 6B																									
32. TYPE OF SUBMITTAL REQUEST APPROVAL <u>X</u> SUBSEQUENT REPORT		33. PROPOSED OR COMPLETED WELLWORK <table style="width:100%; border: none;"> <tr> <td>ACIDIZE</td> <td>FRACTURE</td> <td>PULL BACK</td> <td>WORKOVER</td> </tr> <tr> <td>ALTER CASING</td> <td>INITIAL COMPLETION <u>X</u></td> <td>PULL CASING</td> <td>OTHER</td> </tr> <tr> <td>ARTIFICIAL LIFT</td> <td>MULTICOMPLETION</td> <td>RECOMPLETION</td> <td></td> </tr> <tr> <td>CHANGE ZONE</td> <td>PERFORATE</td> <td>SIDETRACT <u>X</u></td> <td></td> </tr> <tr> <td>DEEPEN</td> <td>PERM ABANDONMT</td> <td>TEMPORARY</td> <td></td> </tr> <tr> <td></td> <td></td> <td>ABANDONMENT</td> <td></td> </tr> </table>					ACIDIZE	FRACTURE	PULL BACK	WORKOVER	ALTER CASING	INITIAL COMPLETION <u>X</u>	PULL CASING	OTHER	ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION		CHANGE ZONE	PERFORATE	SIDETRACT <u>X</u>		DEEPEN	PERM ABANDONMT	TEMPORARY				ABANDONMENT		34. WELL STATUS/ TYPE CODE COM/POW
ACIDIZE	FRACTURE	PULL BACK	WORKOVER																												
ALTER CASING	INITIAL COMPLETION <u>X</u>	PULL CASING	OTHER																												
ARTIFICIAL LIFT	MULTICOMPLETION	RECOMPLETION																													
CHANGE ZONE	PERFORATE	SIDETRACT <u>X</u>																													
DEEPEN	PERM ABANDONMT	TEMPORARY																													
		ABANDONMENT																													
WELL AT SURFACE																															
12. WELL LOCATION AT SURFACE (Surveyed) X=1041775 Y=747981 ✓ 7825' FEL 3501' FSL ✓		13. LEASE NUMBER P-0216		14 AREA NAME 6B		15 BLOCK NO 4861																									
18 WATER DEPTH (Surveyed) 205'		19 ELEVATION AT KB (Surveyed) 107'		20 RIG NAME Torch 10		21 RIG TYPE 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.  AUG 2 2007 																															
26. CONTACT NAME Phil Tibbs MINERALS MANAGEMENT SERVICE CAMARILLO DISTRICT				27. TELEPHONE NUMBER (661) 395-5421																											
28 AUTHORIZING OFFICIAL (Type Name) Sabrina J. Miller				29. TITLE as Agent for Nuevo Energy																											
30. AUTHORIZING SIGNATURE 				31 DATE 010820																											
THIS SPACE FOR MMS USE ONLY																															
APPROVED BY 				TITLE District Supervisor																											
				DATE 8/22/07																											
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 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.																															

GILDA S-44 COMPLETION PROCEDURE

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8/2/01

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 CaBr₂ 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.

<u>Tubular Capacities</u>							
	<u>Size</u>	<u>Interval</u>	<u>Wt</u>	<u>ID</u>	<u>Drift</u>	<u>Bbl/ft</u>	<u>Hole Vol (bbl)</u>
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	<u>29*</u> 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.

GILDA S-44 COMPLETION PROCEDURE

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- 2) RIH with 4-1/4" bit on 3-1/2" (10,200') and 2-3/8" ($\pm 1,620'$) 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 PBTB.**
- 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 3-1/2" 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 4-1/4" bit, 5" all-weight casing scraper, 1,620' 2-3/8" PH-6 tubing, 7" all-weight casing scraper, 5,000' 3-1/2" PH-6 tubing, 7" all-weight casing scraper, and 5, 3-1/2" PH-6 tubing. Scrape 7" casing to 10,262' liner top and 5" liner to 11,823' PBTB. 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 inlet 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 PBTB 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

GILDA S-44 COMPLETION PROCEDURE

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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 3-1/2" 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' 1-1/4" 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.

GILDA S-44 COMPLETION PROCEDURE

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- 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 CaBr₂ completion brine. Plan to hold the same initial back pressure as that seen directly after perforating. Balance returns to minimize loss of CaBr₂ 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.

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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 3-1/2" 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 CaBr₂ 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.

GILDA S-44 COMPLETION PROCEDURE

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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' 1-1/4" 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 stringing 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 1-1/4" 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 1-1/4" Bakerlite setting ball.

43) Lower service tool and place desired weight on packer. The service tool position will be 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.

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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 be 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.

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- 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 3-1/2" 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' 1-1/4" 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.

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56) Before stringing 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 1-1/4" 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 1-1/4" Bakerlite setting ball.

64) Lower service tool and place desired weight on packer. The service tool position will be 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 be 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.

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- 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 submersible 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 1/4" 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, 1/4" 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.

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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 is 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 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:

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)

Top of Existing 7-5/8" Lnr @ 8,908' MD/6,762' TVD

9-5/8" pipe set @ 9,422' MD/7,116' TVD

Overshot @ 10,133' MD

SC-I Pkr @ 10,320'

10,437'-10,501'

10,578'-10,629'

10,684'-10,703'

10,736'-10,916'

11,062'-11,190'

SC Pkr @ 10,971'

Plug @ 11,621'

7-5/8", 33.7#, N-80 @ 10,344'

TD: 11,345'

Full String of 7", 26#
 S-95 & P-110 casing
 run to surface

Hole in 9-5/8" 5606-5614'

Whipstock Sidetrack Depth
 of $\pm 7,740'$ MD/5959' TVD

TOC above BP @ $\pm 7,785'$ MD

Cmt Retainer- P&A set at $\pm 7,885'$

TOF @ 7,909' MD/6,075' TVD

Attempted to inject down
 tubing w/3500 psi-No bleedoff

Wt'd Mud Left
 in 2-7/8 x 9-5/8

S44-ST3 Wellbore Schematic (Planned)

13-3/8"

8-1/2" ST-03 Wellbore

7", 26# S-95 & P-110 casing to surface

REDA ON 1750 ESP @ 10,000' MD
 2 3/8", 6.5", L-80 Tubing to Su

Top of 5" Liner @ $\pm 10,262'$ MD/7,406' TVD

7" Liner Shoe Between D-K Form.
 @ $\pm 10,600'$ MD/7,625' TVD

6-1/8" Wellbore

LP-M Perfs
 11,255'-11,275' 2 1/2" 12 gauge
 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

LP-M Perfs
 11,410'-11,470' 2 1/2" 12 gauge
 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

LP-N Perfs
 11,635'-11,695' 2 1/2" 12 gauge
 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

LP-N Perfs
 11,635'-11,695' 2 1/2" 12 gauge
 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

LP-N Perfs
 11,635'-11,695' 2 1/2" 12 gauge
 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

LP-N Perfs
 11,635'-11,695' 2 1/2" 12 gauge
 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

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 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
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 350 Nils 30/40
 125' x Sand

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 11,635'-11,695' 2 1/2" 12 gauge
 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
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LP-N Perfs
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 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

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 Frac Pack w/ 300 Nils 30/40
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 350 Nils 30/40
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 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
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 350 Nils 30/40
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 Frac Pack w/ 300 Nils 30/40
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 125' x Sand

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 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

LP-N Perfs
 11,635'-11,695' 2 1/2" 12 gauge
 Frac Pack w/ 300 Nils 30/40
 350 Nils 30/40
 125' x Sand

Quantum Per @ 11,153' MD
 60' 2 3/8" 12 gauge Frac Pack Screen
 60' 2 3/8" 12 gauge Frac Pack Screen
 Quantum Per @ 11,312' MD
 60' 2 3/8" 12 gauge Frac Pack Screen
 60' 2 3/8" 12 gauge Frac Pack Screen
 Quantum Per @ 11,480' MD
 60' 2 3/8" 12 gauge Frac Pack Screen
 60' 2 3/8" 12 gauge Frac Pack Screen
 Sump Per @ 11,705' MD
 5", 15#, P-110, FJ Liner
 TD @ 11,917' MD/8,616' TVD

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 ☒ CORRECTION ☐	2 API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-20610-03/S01	3 WELL NO S-44	11 OPERATOR NAME AND ADDRESS (Submitting Office) NUEVO ENERGY COMPANY 1200 Discovery Dr., Ste 500 Bakersfield, CA 93309
8 FIELD NAME Santa Clara	9 UNIT NUMBER 891012369A	10 MMS OPERATOR NUMBER 01546	
WELL AT TOTAL DEPTH			
4 LEASE NUMBER P-0216	5 AREA NAME 6B	6 BLOCK NUMBER 4861	7 OPD NUMBER 6B
32 TYPE OF SUBMITTAL REQUEST APPROVAL ☐ SUBSEQUENT REPORT ☒	33 PROPOSED OR COMPLETED WELLWORK ACIDIZE ☒ FRACTURE ☐ PLUG BACK ☐ WORKOVER ☒ ALTER CASING ☐ INITIAL COMPLETION ☐ PULL CASING ☐ OTHER ☐ ARTIFICIAL LIFT ☒ MULTICOMPLETION ☐ RECOMPLETION ☐ CHANGE ZONE ☐ PERFORATE ☐ SIDETRACK ☐ DEEPEN ☐ PERM ABANDONMT ☐ TEMPORARY ABANDONMENT ☐		34 WELL STATUS/ TYPE CODE COM/POW
WELL AT SURFACE			
12 WELL LOCATION AT SURFACE (Surveyed) X=10417751 7825' FEL Y=747981 3501' FSL	13 LEASE NUMBER P-0216	14 AREA NAME 6B	15 BLOCK NO 4861
16 OPD NUMBER 6B	35 SURVEY BASE NAD 27 ☒ NAD 83 ☐	18 WATER DEPTH (Surveyed) 205'	19 ELEVATION AT KB (Surveyed) 107'
20 RIG NAME TRS # 10	21 RIG TYPE 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 Brent Martin	27 TELEPHONE NUMBER (661) 322-7600		
28 AUTHORIZING OFFICIAL (Type Name) Richard F. Garcia	29 TITLE as Agent for Nuevo Energy		
30 AUTHORIZING SIGNATURE <i>Richard F. Garcia</i>	31 DATE 11/5/02		
THIS SPACE FOR MMS USE ONLY			
APPROVED BY <i>[Signature]</i>		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 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.			

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 04-311-20610-03/S01	3. WELL NO. S-44 ST 3	11. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) Nuevo Energy 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309
8. FIELD NAME Santa Clara	9. UNIT NUMBER 891012369A	10. MMS OPERATOR NUMBER 01546	

WELL AT TOTAL DEPTH

17. WELL LOCATION AT TOTAL DEPTH (Surveyed) X=104,5983.85 Y=253,999.62	4. LEASE NUMBER P-0216	5. AREA NAME 6B	6. BLOCK NUMBER 4861	7. OPD NUMBER 6B
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WELL AT PRODUCING ZONE

37. WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed) X=104,5726 Y=753,696	38. LEASE NUMBER P-0216	39. AREA NAME 6B	40. BLOCK NUMBER 4861	41. OPD NUMBER 6B
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34. WELL STATUS/TYPE CODE COM/POW	42. DATE WELL SUSPENDED, COMPLETED, OR ABANDONED 11/22/2001	43. DATE OF FIRST PRODUCTION	23. SPUD DATE 3/10/2001
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44. DATE SIDETRACKED	45. DATE TD REACHED 5/8/01	24. TOTAL DEPTH (Surveyed) MD 11,925' TVD 8520'
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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 Lower Repetto	51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION Lower Repetto
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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'

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 ³

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL		75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
73. TOP (MD)	74. BOTTOM (MD)		
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 stem and well potential tests.

79. FORMATION	TOP		BOTTOM		84. DESCRIPTION, CONTENTS, ETC.
	80. MD	81. TVD	82. MD	83. TVD	
Lower Repetto	10,262'		11,345'	TD	

85. GEOLOGIC MARKERS	TOP		85. GEOLOGIC MARKERS	TOP	
	86. MD	87. TVD		86. MD	87. TVD
LP-K	10,262'				
LP-M	10,737'				
LP-N	11,212'				

26. CONTACT NAME Brent Martin	27. TELEPHONE NUMBER (661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name) Richard F. Garcia	29. TITLE as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE <i>Richard F. Garcia</i> By W.V.	31. DATE 11-5-02

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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-O. 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 from 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 stretch, 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 from 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 - 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 PGSR 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 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 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 1/2" 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 3/4" 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 1/4" 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. FUNCTION TEST BOPS. HELD SAFETY MEETING. FILL STACK, FIX FLOW LINE VALVES AND FLOW LINE LEAKS. RIG UP DOWELL TO TEST BCPS. TEST BCPS. 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'. POCH. 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 ATTEMPTS 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 BUMPER 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. WIPE 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 & COND 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, 107 JOINTS 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 OF 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 10252'. 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 10252' 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 BIOCID. POOH LAYING DOWN 3 1/2" DP, 2 7/8" DP, 3 1/2" HWOP, 4 3/4" DC. NIPPLE DOWN B.O.P.E.

REPORT DATE : 5/12/01 MD : 11.925 TVD : 9.520 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 : 8.4 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 : 8.4 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 RABBETED). 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 : TRANSFERRED 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 GAUGE 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-LINLCEED 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 PRODUCING 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.

Field:
Well:
Location:
API#:

Operator: Santa Clara
S44-ST03
OCS-P 0216
04-311-20610-03/S01

Spud Date:
KB:
County:

2001
107'

Geological Marker: Lwr Repetto

S44-ST3 Wellbore Schematic (Planned)

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)

Top of Existing 7-5/8" Lnr @ 8,908' MD/5,762' TVD

9-5/8" pipe set @ 9,422' MD/7,115' TVD

Overshot @ 10,133' MD

SC-1 Pkr @ 10,320'

10,437'-10,501'

10,578'-10,629'

10,634'-10,703'

10,716'-10,916'

11,062'-11,190'

SC Pkr @ 10,971'

Plug @ 11,521'

7-5/8", 33.7#, N-80 @ 10,344'

TD 11,345'

Full String of 7", 26#
S-95 & P-110 casing
run to surface

Hole in 9-5/8" 5606-5614'

Whipstock Siderack Depth
of $\pm 7,740'$ MD/5,959' TVD

TOC above BP @ $\pm 7,735'$ MD

Cmt Retainer- P&A set at $\pm 7,845'$

TOP @ $7,709'$ MD/6,975' TVD

Attempted to inject down
tubing w/300 psi- No bleed off

Wild Mud Let
in 2-7/8 x 9-5/8

13-3/8"

8-1/2" ST-03 Wellbore

7" 26# S-95 & P-110 casing to surface

REDA ON 170 ESP @ 10,200' MD
2 3/8", 6.5", 1-3/8" tubing to su.

Top of 5" Liner @ $\pm 10,362'$ MD/7,496' TVD

7" Liner Shoe Between D-K Form.
@ $\pm 10,500'$ MD/7,625' TVD

6-1/8" Wellbore

LP-N Perfs:
11,410'-11,470'
Frac Pack @
350 Nils 30/60
6 30.200 @ 20/60
205' x 200'

LP-N Perfs:
11,635'-11,695'
Frac Pack @
350 Nils 30/60
Set @ 10,200'
20/60 Perfs
Sand

5", 15#, P-110, FJ Liner

TD @ 11,917' MD/8,515' TVD

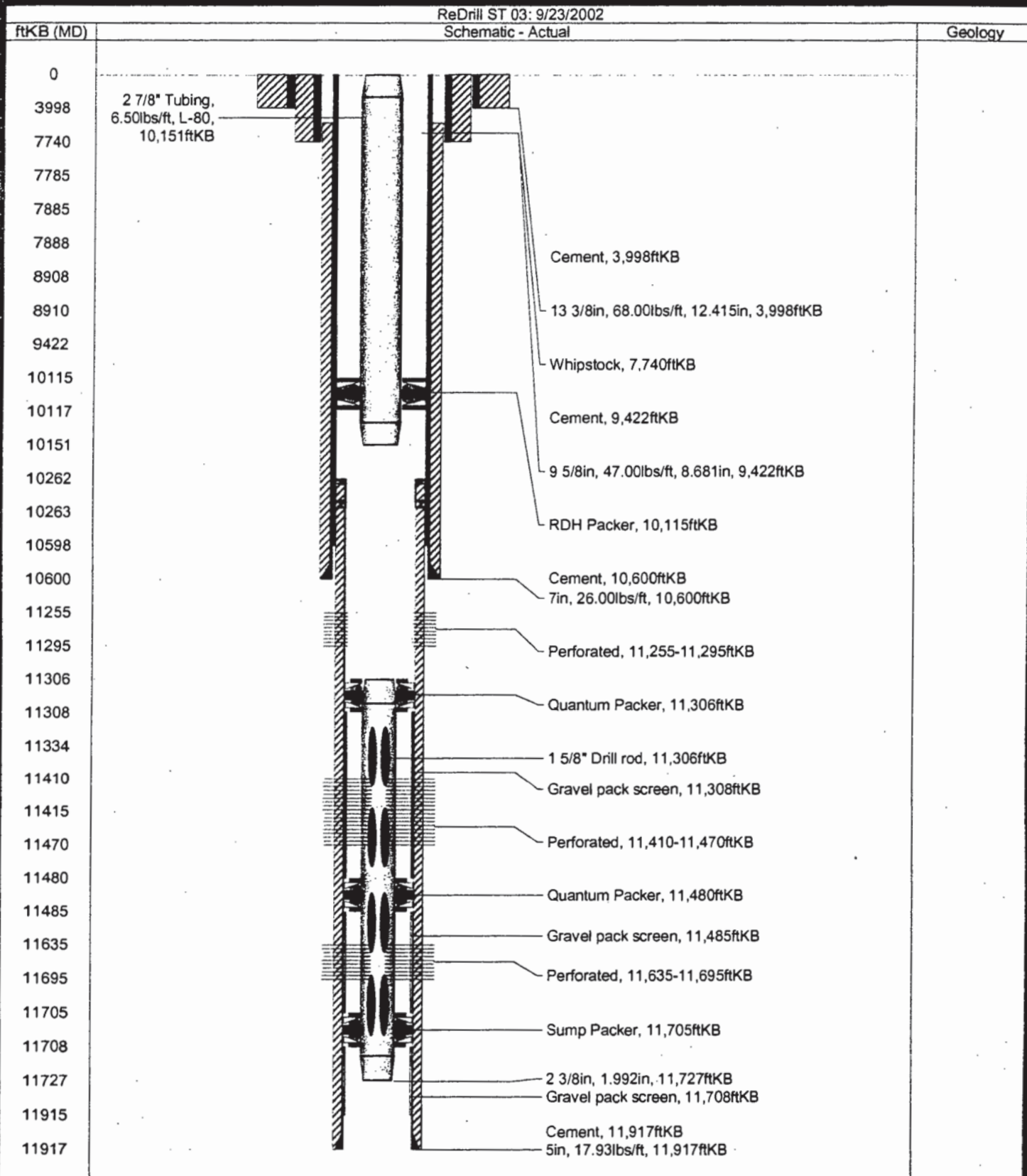
Quantum Pkr @ 11,312' MD
60' 2 3/8" 30/60
60' 2 3/8" 12 gauge screen

Quantum Pkr @ 11,480' MD
60' 2 3/8" 30/60
60' 2 3/8" 12 gauge screen

Sum? Pkr @ 11,705' MD

Current Schematic

API 043 1120610	Field Name Santa Clara	Operator Nuevo Energy	State California	Lease OCS P-0216
Comment				Total Depth (ftKB)



**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 COMPLETION RECOMPLETION ABANDONMENT CORRECTION		2 API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-20610-03/S01			3. WELL NO S-44 ST 3		11 OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) Nuevo Energy 1200 Discovery Dr, Suite 500 Bakersfield, CA 93309	
8 FIELD NAME Santa Clara		9 UNIT NUMBER 891012369A		10. MMS OPERATOR NUMBER 01546				
WELL AT TOTAL DEPTH District Supervisor								
17 WELL LOCATION AT TOTAL DEPTH (Surveyed) X=104,5983 85 Y=253,999 62			4 LEASE NUMBER P-0216		5 AREA NAME 6B		6 BLOCK NUMBER 4861	
7 OPD NUMBER 6B								
WELL AT PRODUCING ZONE								
37 WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed) X=104,5726 Y=753,696			38. LEASE NUMBER P-0216		39. AREA NAME 6B		40 BLOCK NUMBER 4861	
41 OPD NUMBER 6B								
34 WELL STATUS/TYPE CODE COM/POW		42 DATE WELL SUSPENDED, COMPLETED, OR ABANDONED 11/22/2001			43 DATE OF FIRST PRODUCTION		23 SPUD DATE 3/10/2001	
44 DATE SIDETRACKED		45 DATE TD REACHED 5/8/01			24 TOTAL DEPTH (Surveyed) 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'				RECEIVED		
11,410'		11,470'				NOV - 6 2002		
11,635'		11,695'				MINERALS MANAGEMENT SERVICE CAMARILLO DISTRICT		
50 RESERVOIR NAME Lower Repetto				51 NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION 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 FT ³		
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: SH 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 ¹³

ACID, FRACTURE, CEMENT SQUEEZE, PLUGGING PROGRAM, ETC.

DEPTH INTERVAL		75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
73. TOP (MD)	74. BOTTOM (MD)		
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		BOTTOM		84. DESCRIPTION, CONTENTS, ETC.
	80. MD	81. TVD	82. MD	83. TVD	
Lower Repetto	10,262'		11,345'	TD	

85. GEOLOGIC MARKERS	TOP		85. GEOLOGIC MARKERS	TOP	
	86. MD	87. TVD		86. MD	87. TVD
LP-K	10,262'				
LP-M	10,737'				
LP-N	11,212'				

26. CONTACT NAME

Brent Martin

27. TELEPHONE NUMBER

(661) 322-7600

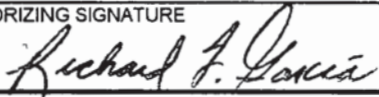
28. AUTHORIZING OFFICIAL (Type Name)

Richard F. Garcia

29. TITLE

as Agent for Nuevo Energy

30. AUTHORIZING SIGNATURE


 By W.V.

31. DATE

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 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 -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 from 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 stretch, 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 from 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 - 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 PGSR 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 PGSR. 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 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 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 1/4" 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. FUNCTION 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 ATTEMPTS 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 BUMPER 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.
WIPE 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 ADJUST 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 & COND 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, 107 JOINTS 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 OF 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 BOTTCM, 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 BIOCID. 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 : TRANSFERRED 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 GAUGE 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-LINLCEG 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
 Well: S44-ST03
 Location: OCS-P 0216
 API#: 04-311-20610-03/S01

Spud Date: 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)

Top of Existing 7-5/8" Lnr @ 8,908' MD/6,762' TVD

9-5/8" pipe set @ 9,422' MD/7,115' TVD

Overshot @ 10,133' MD
 SC-1 Pkr @ 10,320'
 10,437'-10,501'
 10,573'-10,629'
 10,634'-10,703'
 10,716'-10,916'

SC Pkr @ 10,971'

Plug @ 11,621'

7-5/8", 33.7#, N-80 @ 10,344'

TD 11,345'

Full String of 7", 26#
 S-95 & P-110 casing
 run to surface

Hole in 9-5/8" 5606-5614'

Whipstock Sidetrack Depth
 of $\pm 7,740'$ MD/7,959' TVD

TOC above BP @ $\pm 7,785'$ MD

Cmt Retainer- P.S.A set at $\pm 7,835'$
 TOF @ 7,909' MD/6,073' TVD

Attempted to inject down
 tubing w/3,500 psi-No bleedoff

W'd Mud Left
 in 2-7/8 x 9-5/8

S44-ST3 Wellbore Schematic (Planned)

13-3/8"

8-1/2" ST-03 Wellbore

7" 26# S-95 & P-110 casing to surface

REDA DN 1750 ESP @ 10,200' MD
 2 3/8", 6.5", L-80 tubing to su.

Top of 5" Liner @ $\pm 10,262'$ MD/7,406' TVD

7" Liner Shoe Between D-K Form.
 @ $\pm 10,600'$ MD/7,625' TVD

6-1/8" Wellbore

LP-N Perfs:
 11,410'-11,470'
 Frac Pack w/
 350 Nils 30 # Gel
 6 20,200 # 20/40
 Resin & Sand

LP-N Perfs:
 11,635'-11,695'
 Frac Pack w/
 350 Nils 30 # Gel
 6 20,200 # 20/40
 Resin & Sand

Quantum Pkr @ 11,312' MD
 60' 2 3/8" Blank
 80' 2 3/8" 12 gauge screen

Quantum Pkr @ 11,480' MD
 60' 2 3/8" Blank
 80' 2 3/8" 12 gauge screen

Sum? Pkr @ 11,705' MD

5", 15#, P-110, FJ Liner
 TD @ 11,917' MD/8,616' TVD

11,724'

Current Schematic

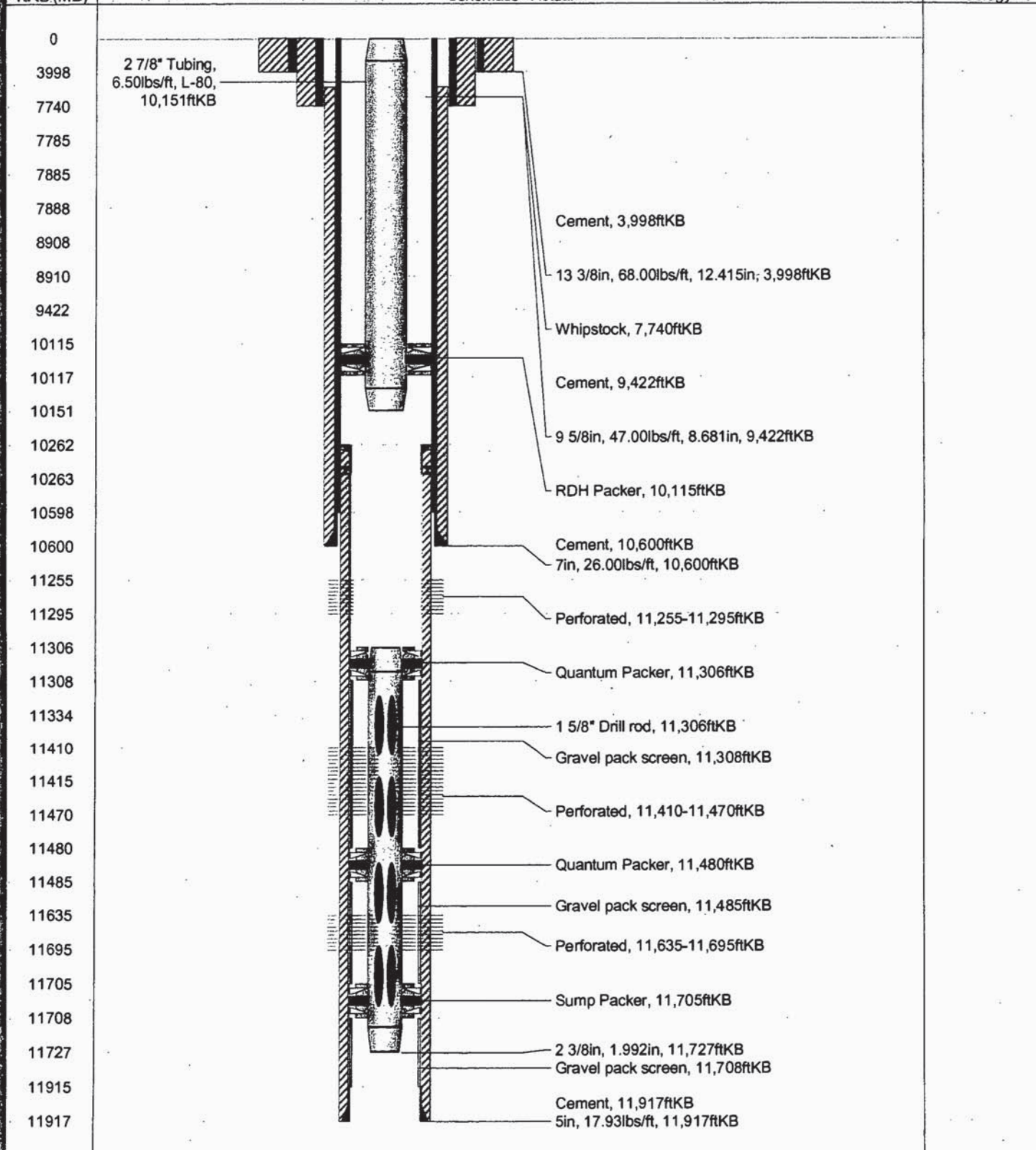
API 0431120610	Field Name Santa Clara	Operator Nuevo Energy	State California	Lease OCS P-0216
Comment				Total Depth (ftKB)

ReDrill ST 03: 9/23/2002

Schematic - Actual

ftKB (MD)

Geology



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

END OF OPERATIONS REPORT (EOR) (Replaces Well Summary Report)

1 ☐ COMPLETION ☒ WORKOVER ☐ ABANDONMENT ☐ CORRECTION ☐ OTHER _____		2 API WELL NO (12 Digits) 043112063901		3 PRODUCING INTERVAL CODE S01		4. OPERATOR NAME and ADDRESS (Submitting Office) Nuevo Energy Company 1200 Discovery Dr., Suite 500 Bakersfield CA 93309	
5 WELL NAME S-62		6 SIDETRACK NO. 01		7 BYPASS NO 00		8 MMS OPERATOR NO 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			
12 LATITUDE <u>Y=754570</u> ☒ NAD 27 (GOM & Pacific) ☐ NAD 83 (Alaska)		13 LONGITUDE <u>X=1043858</u> ☒ NAD 27 (GOM & Pacific) ☐ NAD 83 (Alaska)		17 LATITUDE ☒ NAD 27 (GOM & Pacific) ☐ NAD 83 (Alaska) <u>V=753623</u>		18. LONGITUDE ☒ NAD 27 (GOM & Pacific) ☐ NAD 83 (Alaska) <u>X=1043945</u>	
WELL STATUS INFORMATION							
19 WELL STATUS COM		20 TYPE CODE POW		21 WELL STATUS DATE 5/8/97		22 KOP (MD) ST / BP	
						23 TOTAL DEPTH (Surveyed) 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 Lower Repetto				29 NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION LP-N			
SUBSEA COMPLETION							
30 PROTECTION PROVIDED ☒ YES ☐ NO				31 BUOY INSTALLED ☒ YES ☐ NO		32. TREE HEIGHT ABOVE MUDLINE	
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	

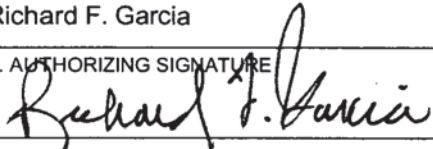
MMS

FORM MMS-125 (November 2002 - Supersedes all previous versions of form MMS-125 which may not be used.)

Page 1 of 2

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 Brent Martin		48. CONTACT TELEPHONE NO. 661-322-7600	49. CONTACT E-MAIL ADDRESS martinb@nuevoenergy.com
50. AUTHORIZING OFFICIAL (Type or Print Name) Richard F. Garcia		51. TITLE Agent for Nuevo Energy Company	
52. AUTHORIZING SIGNATURE 		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 1/2" 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 $\frac{3}{4}$ " 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'. RUI 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 $\frac{1}{2}$ 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 temporarily 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 CaCr₂ @ 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.

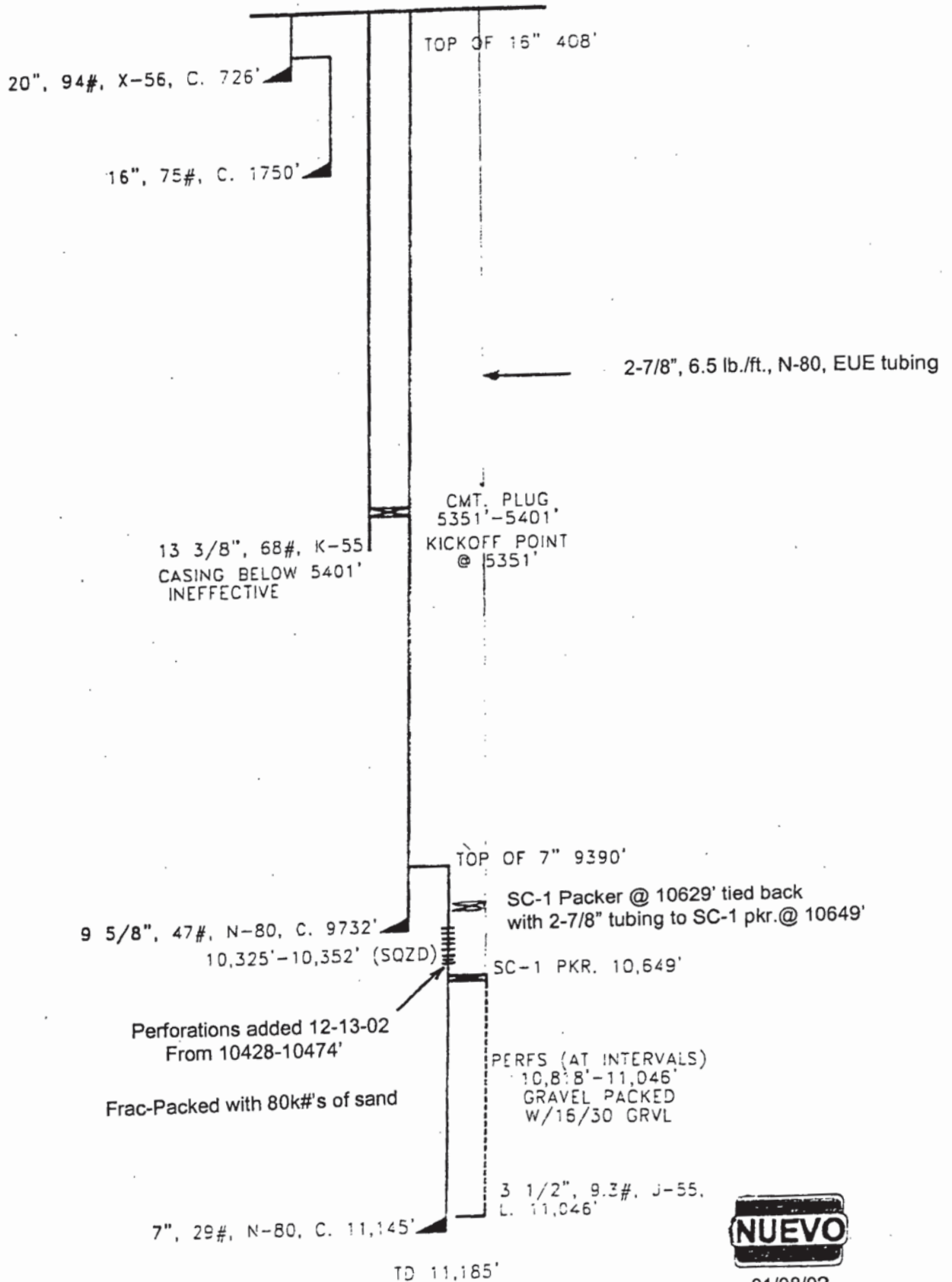
- 1/1/02 POOH W/production string. RU and LD ESP. Found all (3) pumps locked up. Measure & PU 1 $\frac{1}{4}$ " Hydril tbg. RIH W/2 $\frac{3}{8}$ " tbg. C/O assy, mule shoe, 27 jts of 1 $\frac{1}{4}$ " tbg. 35 jts of 2 $\frac{3}{8}$ " tbg & 2 $\frac{7}{8}$ " tbg to surface.
- 1/2/02 RIH W/1 $\frac{1}{4}$ " 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 $\frac{3}{8}$ " tbg, 2 $\frac{7}{8}$ " 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 $\frac{3}{8}$ " 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 closed position. RU Weatherford Hydro-test tools and hang sheaves. Run tbg in hole clamping cable W/1/8" cap tbg line. $\frac{3}{8}$ " chemical injection line W/check valve on bottom 10' above intake. Hydro test 2 $\frac{7}{8}$ " 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 $\frac{1}{4}$ " 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 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

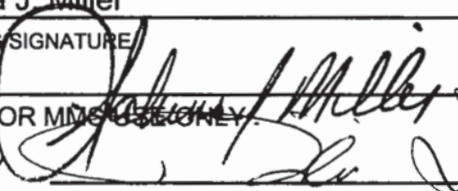
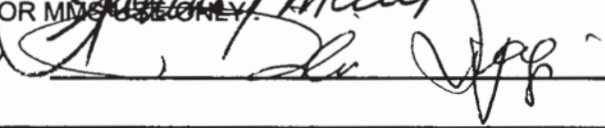


01/08/02

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 ☐		2. API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-2063901/S01		3. WELL NO S-62		11. OPERATOR NAME AND ADDRESS (Submitting Office) NUEVO ENERGY 1200 Discovery Dr., Suite 500 Bakersfield, CA 93309																						
8. FIELD NAME Santa Clara		9. UNIT NUMBER 891012369A		10. MMS OPERATOR NUMBER 01546																								
WELL AT TOTAL DEPTH						COPY TO REGION																						
4. LEASE NUMBER P-0216		5. AREA NAME 6B		6. BLOCK NUMBER 4861		7. OPD NUMBER 6B																						
32. TYPE OF SUBMITTAL REQUEST ☒ APPROVAL ☒ SUBSEQUENT REPORT ☐		33. PROPOSED OR COMPLETED WELLWORK <table style="width:100%; border: none;"> <tr> <td>ACIDIZE ☐</td> <td>FRACTURE ☐</td> <td>PULL BACK ☐</td> <td>WORKOVER ☒</td> </tr> <tr> <td>ALTER CASING ☐</td> <td>INITIAL COMPLETION ☐</td> <td>PULL CASING ☐</td> <td>OTHER ☐</td> </tr> <tr> <td>ARTIFICIAL LIFT ☒</td> <td>MULTICOMPLETION ☐</td> <td>RECOMPLETION ☐</td> <td></td> </tr> <tr> <td>CHANGE ZONE ☐</td> <td>PERFORATE ☒</td> <td>SIDETRACK ☐</td> <td></td> </tr> <tr> <td>DEEPEN ☐</td> <td>PERM ABANDONMT ☐</td> <td>TEMPORARY ABANDONMENT ☐</td> <td></td> </tr> </table>					ACIDIZE ☐	FRACTURE ☐	PULL BACK ☐	WORKOVER ☒	ALTER CASING ☐	INITIAL COMPLETION ☐	PULL CASING ☐	OTHER ☐	ARTIFICIAL LIFT ☒	MULTICOMPLETION ☐	RECOMPLETION ☐		CHANGE ZONE ☐	PERFORATE ☒	SIDETRACK ☐		DEEPEN ☐	PERM ABANDONMT ☐	TEMPORARY ABANDONMENT ☐		34. WELL STATUS/ TYPE CODE COM/POW	
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DEEPEN ☐	PERM ABANDONMT ☐	TEMPORARY ABANDONMENT ☐																										
WELL AT SURFACE																												
12. WELL LOCATION AT SURFACE (Surveyed) X=1041776 Y=747990 7824' FEL 3511' FSL			13. LEASE NUMBER P-0216		14. AREA NAME 6B		15. BLOCK NO. 4861																					
							16. OPD NUMBER 6B																					
35. SURVEY BASE NAD 27 ☒ NAD 83 ☐		18. WATER DEPTH (Surveyed) 205'		19. ELEVATION AT KB (Surveyed) 107'		20. RIG NAME Torch 10		21. RIG TYPE 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 Phil Tibbs					27. TELEPHONE NUMBER (661) 395-5421																							
28. AUTHORIZING OFFICIAL (Type Name) Sabrina J. Miller					29. TITLE as Agent for Nuevo Energy																							
30. AUTHORIZING SIGNATURE 					31. DATE 011113																							
THIS SPACE FOR MMS USE ONLY																												
APPROVED BY 					TITLE <u>District Supervisor</u>																							
					DATE <u>11/21/01</u>																							
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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 $\pm$ 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 3-1/2" gravel pack assembly and set same on 7" Baker SC-1 packer @ 10,490', top Baker SC-1 packer will be located @ 10,250'.

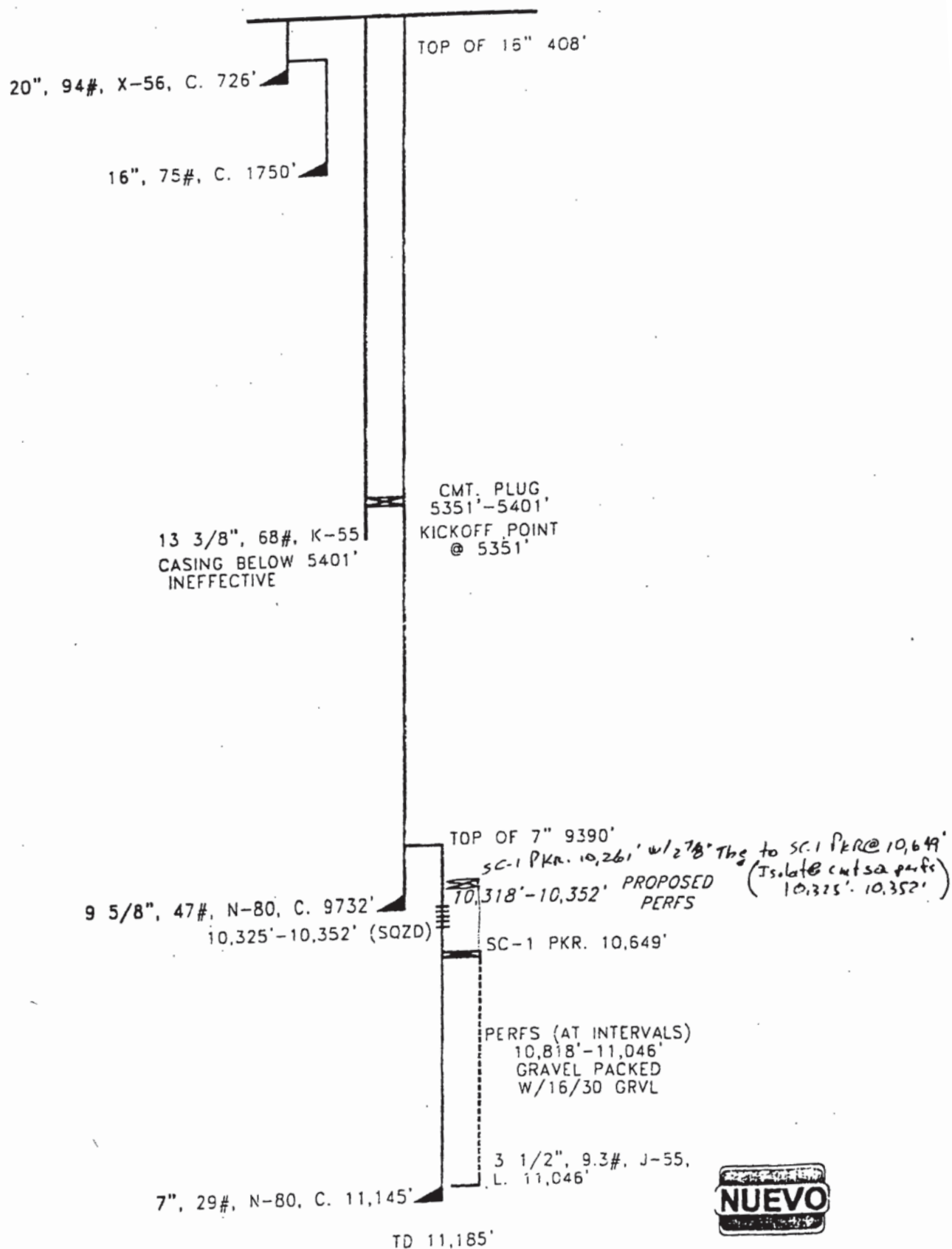
OCS P-216 Platform Gilda Well S-62
LP-M Workover Procedure

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 FIELD

PLATFORM GILDA

WELL #S-62



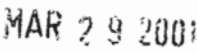
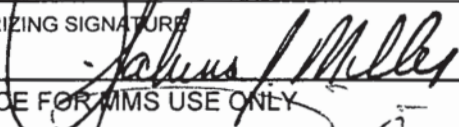
NUEVO

MINERALS MANAGEMENT SERVICE
SUNDRY NOTICES AND REPORTS ON WELL

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

OMB No. 1010-

Expiration Date: September 30

1 ORIGINAL ☒ CORRECTION ☐		2 API WELL NUMBER/PRODUCING INTERVAL CODE 04-311-20616-01/S01		3. WELL NO. S-65		11 OPERATOR NAME AND ADDRESS (Submitting Office) NUEVO ENERGY 1800 30th St., Suite 200 Bakersfield, CA 93301																									
8 FIELD NAME Santa Clara		9 UNIT NUMBER 891012369A		10 MMS OPERATOR NUMBER 01546																											
WELL AT TOTAL DEPTH																															
4. LEASE NUMBER P-0216		5. AREA NAME 6B		6. BLOCK NUMBER 4861		7 OPD NUMBER 6B																									
32 TYPE OF SUBMITTAL REQUEST ☒ APPROVAL ☒ SUBSEQUENT REPORT ☐		33 PROPOSED OR COMPLETED WELLWORK <table style="width:100%; border: none;"> <tr> <td>ACIDIZE ☐</td> <td>FRACTURE ☐</td> <td>PLUG BACK ☐</td> <td>WORKOVER ☐</td> </tr> <tr> <td>ALTER CASING ☐</td> <td>INITIAL COMPLETION ☐</td> <td>PULL CASING ☐</td> <td>OTHER ☐</td> </tr> <tr> <td>ARTIFICIAL LIFT ☐</td> <td>MULTICOMPLETION ☐</td> <td>RECOMPLETION ☐</td> <td></td> </tr> <tr> <td>CHANGE ZONE ☐</td> <td>PERFORATE ☐</td> <td>SIDETRACK ☒</td> <td></td> </tr> <tr> <td>DEEPEN ☐</td> <td>PERM ABANDONMT ☐</td> <td>TEMPORARY ☐</td> <td></td> </tr> <tr> <td></td> <td></td> <td>ABANDONMENT ☐</td> <td></td> </tr> </table>					ACIDIZE ☐	FRACTURE ☐	PLUG BACK ☐	WORKOVER ☐	ALTER CASING ☐	INITIAL COMPLETION ☐	PULL CASING ☐	OTHER ☐	ARTIFICIAL LIFT ☐	MULTICOMPLETION ☐	RECOMPLETION ☐		CHANGE ZONE ☐	PERFORATE ☐	SIDETRACK ☒		DEEPEN ☐	PERM ABANDONMT ☐	TEMPORARY ☐				ABANDONMENT ☐		34 WELL STATUS/ TYPE CODE COM/POW
ACIDIZE ☐	FRACTURE ☐	PLUG BACK ☐	WORKOVER ☐																												
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WELL AT SURFACE																															
12. WELL LOCATION AT SURFACE (Surveyed) X=1041698 Y=747997 7902' FEL 3517' FSL		13 LEASE NUMBER P-0216		14 AREA NAME 6B		15 BLOCK NO. 4861																									
16. OPD NUMBER 6B																															
35 SURVEY BASE NAD 27 ☒ NAD 83 ☐		18 WATER DEPTH (Surveyed) 205'		19. ELEVATION AT KB (Surveyed) 107'		20. RIG NAME Torch 10																									
						21 RIG TYPE PS																									
36 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach prognosis or summary of completed work, as appropriate)																															
Please see attached detailed information.    																															
26 CONTACT NAME Brent Martin				27. TELEPHONE NUMBER (661) 395-5201																											
28. AUTHORIZING OFFICIAL (Type Name) Sabrina J. Miller				29 TITLE as Agent for Nuevo Energy																											
30 AUTHORIZING SIGNATURE 				31. DATE 010327																											
THIS SPACE FOR MMS USE ONLY																															
APPROVED BY 				TITLE District Supervisor																											
				DATE 4/21/01																											
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 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-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 H₂O
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**

10338-10376'

10420-10460'

10490-10754'

L.Zone Perforations

10910-11116'

- 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 & SIDETRACK 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 @ $\pm 10180'$ MD. If the gauge ring run is successful, RU EWL unit. PU and RIH with a 1-9/16" through tubing gun. Attempt to perforate above the "FB-1" packer @ $\pm 10180'$. 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 appropriate 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 SSW 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 @ $\pm 9346'$ 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 ($\geq 10188'$ 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 $\pm 9250'$ 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 $\pm 11,900'$ 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 $\pm 9200'$ 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 @ $\pm 8900'$ 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 $\pm$ 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

<u>Tubular Capacity</u>						
	<u>Size</u>	<u>Interval</u>	<u>Wt</u>	<u>I.D.</u>	<u>Drift</u>	<u>Bbl/ft</u>
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 submersible 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

Interval	TVD	WT	Description	Min. Cplg. Strength	Pipe Body Strength	TDF Cplg	TDF Pipe	Collapse Pressure at Bottom	Collapse Resistance Tension	CDF	Burst Pressure	Min. Int. Yield	BDF
Size													
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	
5-1/2"	8900	11900	8816	17	S-95	BTC		6418	8580	1.34	4487	9190	

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.

$$P_m = 7330'(11.2)(.052) = 4270 \text{ psi} \quad G_g = (0.115 \times 7330) = 843 \text{ psi}$$

$$P_c = 4270 - 843 = 3427 \text{ psi}$$

$$S_{fc} = 4760/3427 = 1.39$$

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.

$$\text{Upper one third of wellbore gas-filled} = 8816 \times 0.333 = 2936 \text{ ft}$$

Fracture Pressure at 7330' TVD = 6250 psi

$$\text{MASP} = 6250 - ((2936)(0.115) - (0.052 \times 14.0 \times (7330 - 2936))) = 2713 \text{ psi}$$

$$1/3 \text{ of BHP at } 8816' \text{ TVD} = (0.052 \times 12.0 \times 8816) \times 0.333 = 1832 \text{ psi}$$

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.

SFC = 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

SFB TOP = $6870/4487$ psi = 1.53

Burst Pressure at Bottom = (MASP + Hydrostatic Comp. Fluid) - Pore pressure backup.

Burst Pressure at Bottom = $(4487 + ((.052 * 14.0 * 8250) - (.052)(12.0)(8250)))$

Burst Pressure at Bottom = 5345 psi

SFB 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

$$P_c = (8816)(14.0 \text{ ppg})(.052) = 6418 \text{ psi}$$

$$S_{FC} = 8580 \text{ psi} / 6418 \text{ psi} = 1.34$$

Burst

$$\text{Anticipated WHP} = (.052)(12.0)(8816) - (0.115)(8816) = 4487 \text{ psi}$$

$$S_{FB} = 9190 \text{ psi} / 4487 \text{ psi} = 2.05$$

Tensile

$$\text{Buoy Weight} = (17.0)(8816 - 7146)(1 - 0.7861) = 6073 \text{ #'s}$$

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

$$S_{FJT} = 498,000\# / (3000 \text{ ft} \times 17\#/\text{ft}) = 9.76$$

$$S_{FB} = 471,000\# / (3000 \text{ ft} \times 17\#/\text{ft}) = 9.24$$

Maximum Overpull w/ Safety Factor - Ignoring Buoyancy

$$J_t = 498,000\# / 2 - 51,000\# = 198,000\#/\text{s}$$

**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 <u>50 linear ft.</u> 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

	<u>Plug No. 1</u>
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Plug Geometry

<u>Plug Top</u>	<u>Plug Bottom</u>	
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

<u>Plug No.</u>	<u>Volume Cu-Ft</u>	<u>Volume Factor</u>	<u>Amount and Type of Cement</u>
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

	<u>Plug No. 1</u>
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Cement Plug Geometry

	<u>Plug Top</u>		<u>Plug Bottom</u>	
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

<u>Fluid</u>	<u>Volume Cu-Ft</u>	<u>Volume Factor</u>	<u>Amount and Type of Cement</u>
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

	<u>Slurry No. 1</u>
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
H₂S 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 Sulfur 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 H₂S 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)	Criteria			Minimum Mud Materials Required on Board		
					Expected Frac Gradient	Expected Pressure Gradient	Maximum Anticipated Surface Pressure	Barite 100 lb sacks	XCD Polymer 25 lb sacks	Scavenge 50 lb sacks
Feet	Inches	Inches	Feet	Feet	psi/ft	psi/ft	psi	ppg		
* 0-9200	12.25	9.625	9200	7330	0.87	0.468	2713	14.0	500	80
9200- 11900'	8.5	5-1/2" Liner	11900	8816	0.89	0.624	4487	14.0	500	80

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 at 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 %.

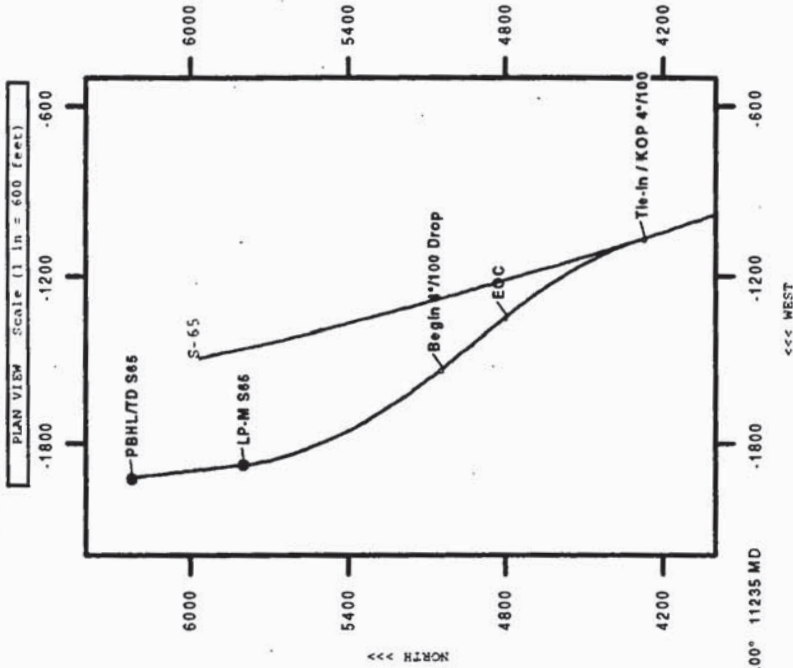
Prior to running casing add 2 % Xtra Lube to the system.

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

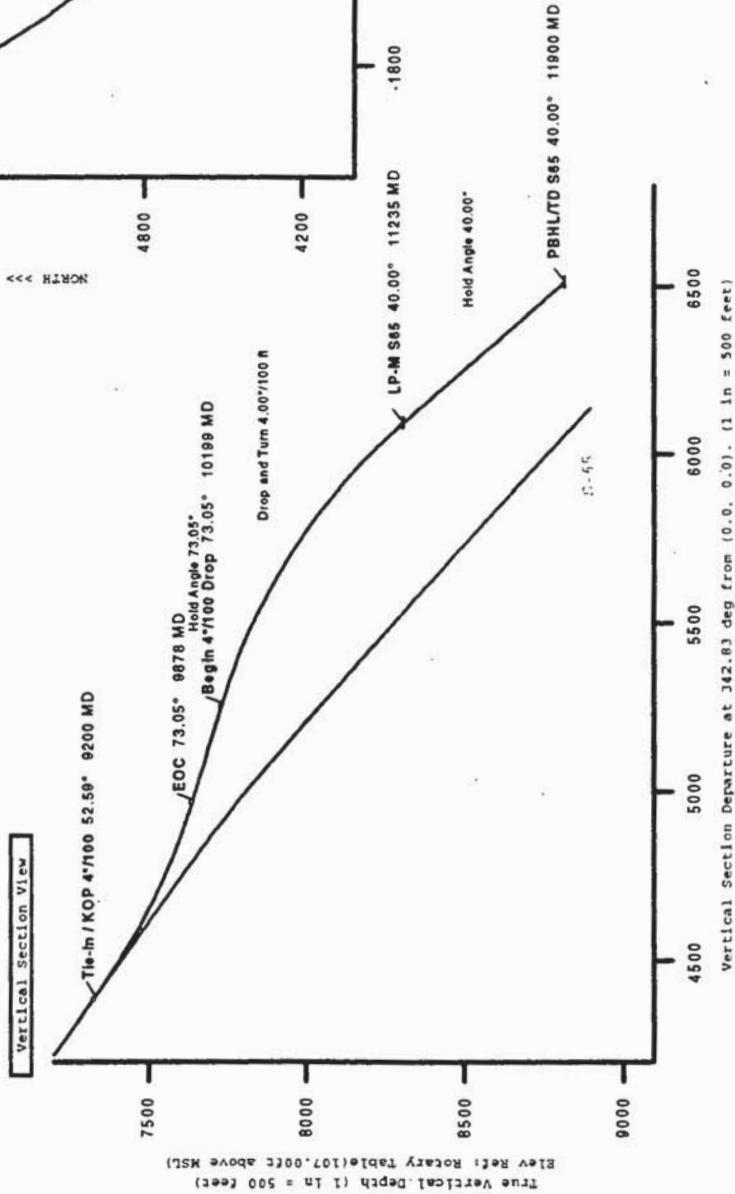
Torch Operating Company

WELL S-65 FIELD T01 Santa Clara Field STRUCTURE Platform Gilda



True North
 Tol'Corr (E 14.01°)
 Mag Dec (E 14.01°)

— Proposal
 — Survey



Quality Control
 Date Drawn: 18-Jan-2001
 Drawn by: K. Sullivan
 Checked by: _____
 Client OK: _____

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 / Site: 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	See Bed / Ground Level Elevation: 0.000 ft relative to MSL
UWI/API#: T010042p110 / January 15, 2001	Magnetic Declination: 14.010°
Survey Name / Date: T010042p110 / January 15, 2001	Total Field Strength: 48360.926 nT
Tort / AHD / DDI / ERO ratio: 152.097 / 6593.66 ft / 6.132 / 0.748	Magnetic Dip: 56.854°
Grid Coordinate System: NAD27 California State Planes, Zone VI, US Feet	Declination Date: September 09, 1998
Location Lat/Lng: N 34 10 56.502, W 119 25 7.214	Magnetic Declination Model: BGM 2000
Location Grid NE Y/X: N 747998.800 IUS, E 1041700.900 IUS	North Reference: True North
Grid Convergence Angle: -1.74124023°	Total Corr Mag North -> True North: +14.010°
Grid Scale Factor: 1.00006393	Local Coordinates Referenced To: Well Head

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/S (ft)	E/W (ft)	DLS (ft/1000)	Grid Coordinates		Geographic Coordinates	
									Northing (ftUS)	Eastng (ftUS)	Latitude	Longitude
Tie-In / KOP 47100	9200.00	52.59	343.1	7329.56	4392.06	4268.45	-1083.13	0.00	752295.85	1040787.90	N 34 11 38.727	W 119 25 19.870
	9300.00	55.39	339.5	7398.36	4472.89	4345.03	-1089.10	0.00	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	0.00	752451.62	1040715.10	N 34 11 40.251	W 119 25 20.555
	9500.00	61.27	333.2	7493.39	4641.78	4500.83	-1157.60	0.00	752530.81	1040690.53	N 34 11 41.023	W 119 25 20.995
	9600.00	64.32	330.2	7538.11	4726.01	4578.90	-1196.78	0.00	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	0.00	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	-1298.01	0.00	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	0.00	752830.09	1040504.26	N 34 11 43.929	W 119 25 23.200
Begin 47100 Drop	10198.81	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	5268.43	5038.70	-1528.86	0.00	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	-1594.63	0.00	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	0.00	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	-1693.52	0.00	753315.78	1040176.19	N 34 11 48.633	W 119 25 27.256
	10600.00	59.41	332.1	7895.33	5617.84	5346.34	-1726.16	0.00	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	0.00	753470.20	1040102.40	N 34 11 50.137	W 119 25 28.214
	10800.00	52.89	337.7	8006.73	5781.93	5498.48	-1796.78	0.00	753545.86	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	0.00	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	0.00	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	0.00	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	0.00	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	0.00	753850.00	1040000.00	N 34 11 53.861	W 119 25 29.570
PBHLTD 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: Wolf & de Wardt 1.0000 sigma

Surveying Programmes:

MD From (ft)

9200.00

MD To (ft) EQU Free Survey Tool Type

11899.64 Ad-Sins Anadroll MWD (none assigned default tool used)

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-30OH	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	

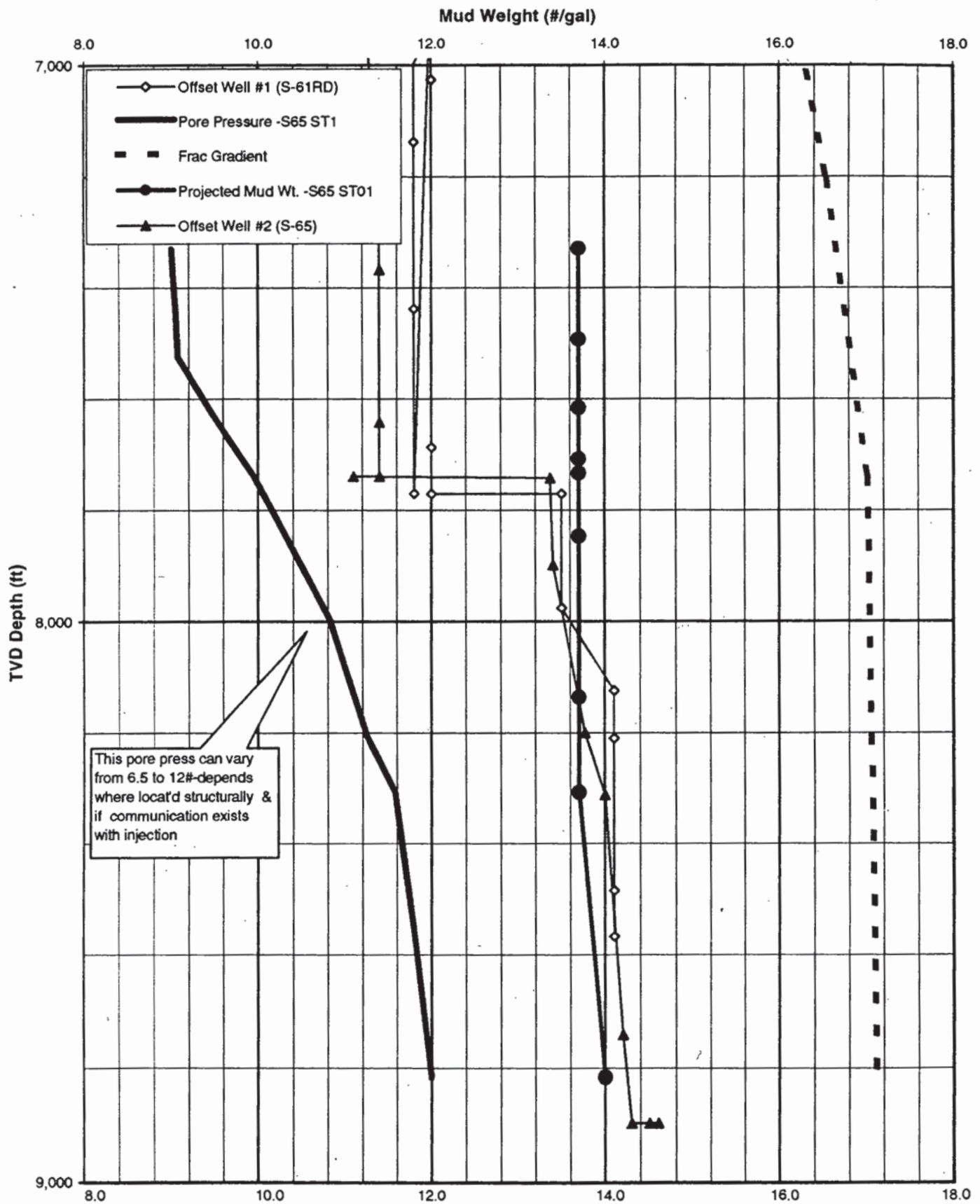
	11.40	20.60	800.00	799.99	12.80	12.00	9.60 Enter Minor	
	10.70	20.77	900.00	899.99	14.40	13.50	10.80 Enter Major	
	28.18	52.14	2800.00	2798.61	43.50	40.40	30.00 Exit Major	
	28.18	52.14	2800.00	2798.61	43.50	40.40	30.00 Exit Minor	
	28.18	52.14	2800.00	2798.61	43.50	40.40	30.00 Exit Buffer	
S-83	7.12	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
Field: Santa Clara Field
Well: S65-RD

Spud Date: 2001
KB: 107'
County: Federal Waters

Location: OCS-P 0216
API#: Not Assigned Yet

Geological Marker: Lwr Repetto

Conductor:
16" @ 1708' MD/TVD
Cemented to Surface

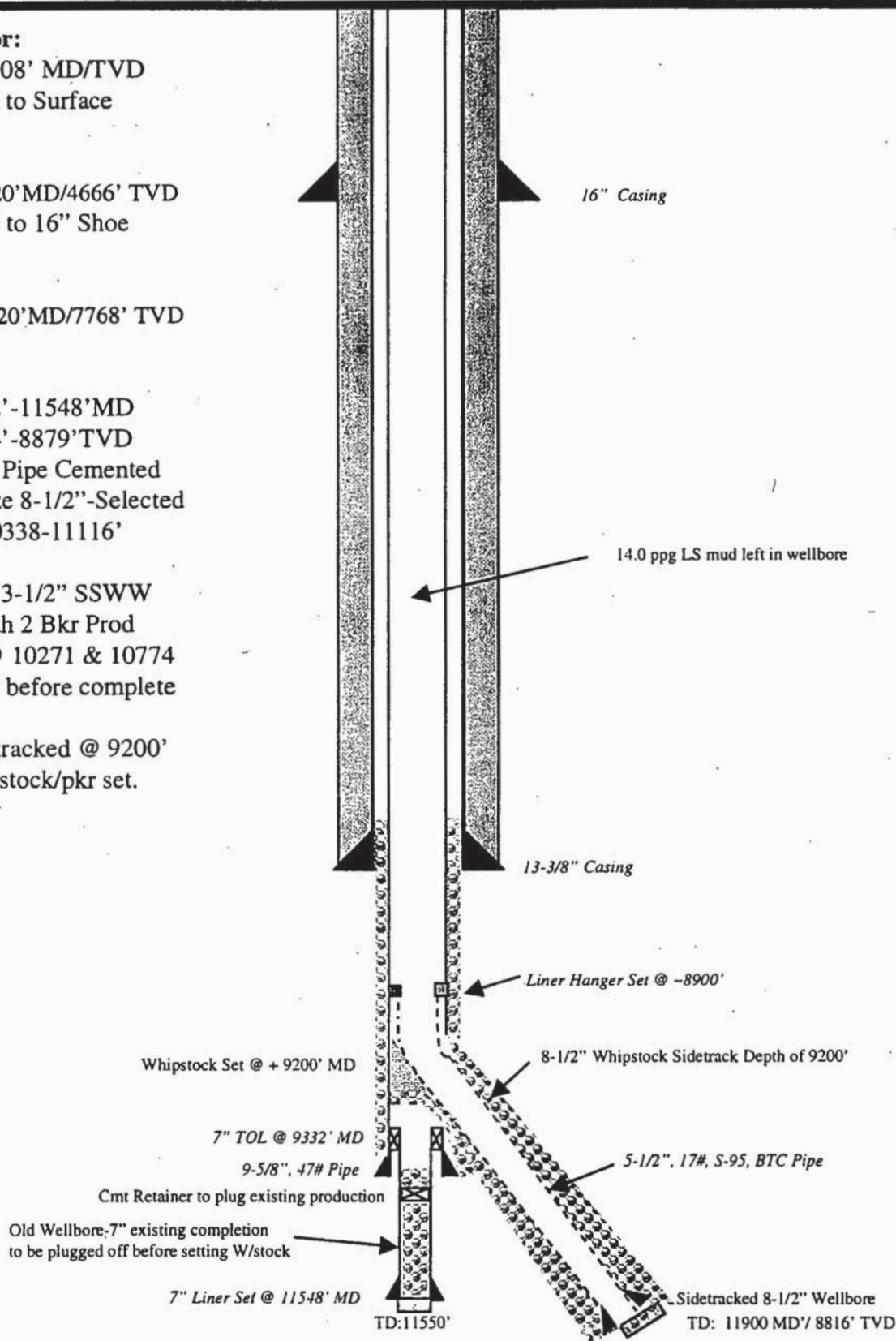
Casing:
13-3/8" 5020' MD/4666' TVD
Cemented to 16" Shoe

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 %.

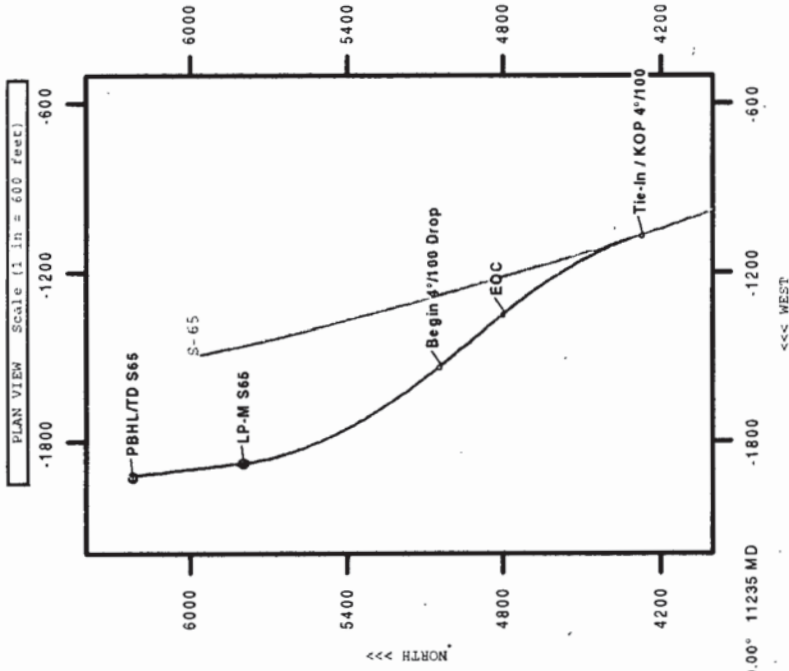
Prior to running casing add 2 % Xtra Lube to the system.

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

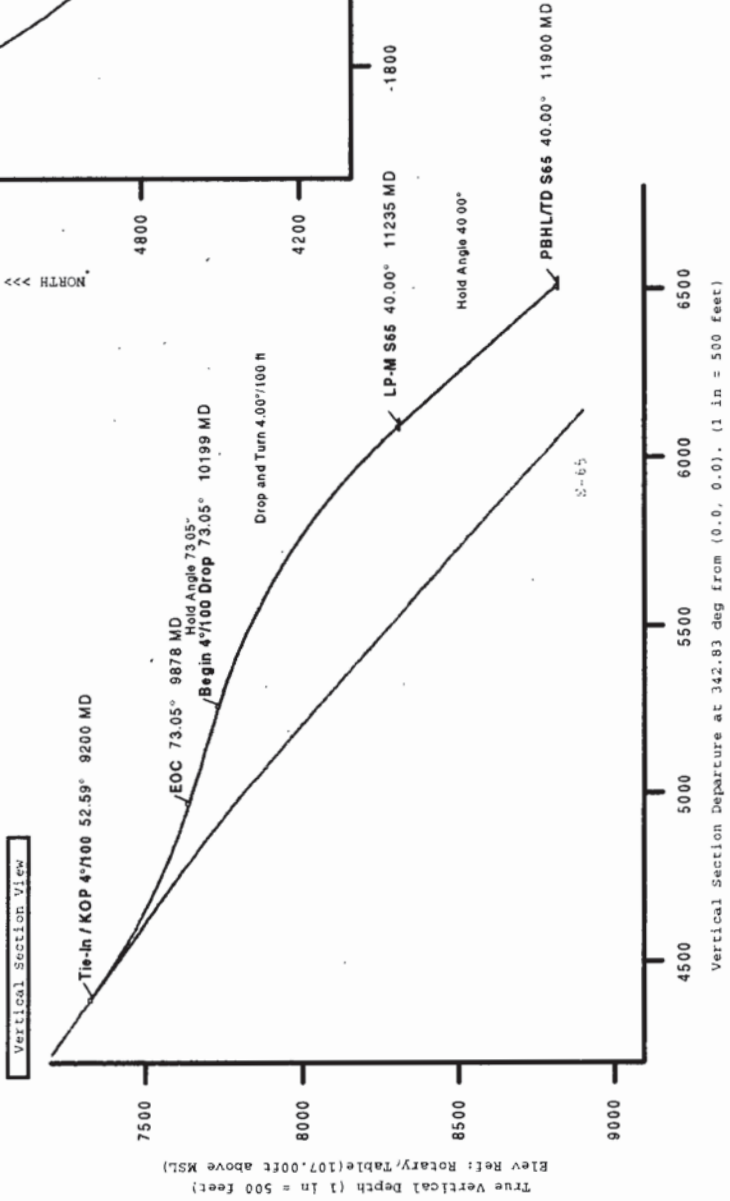
Torch Operating Company

WELL S-65 FIELD T01 Santa Clara Field STRUCTURE Platform Gilda



True North
Tot Corr (E 14.01°)
Mag Dec (E 14.01°)

Proposed
Survey



Quality Control
Date Drawn: 19-Jan-2001
Drawn by: K Sullivan
Checked by:
Client OK:

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/APIs:	Magnetic Declination: 14.010°
Survey Name / Date: T010042p10 / January 15, 2001	Total Field Strength: 48360.926 nT
Tori / 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 06, 1998
Location Lat/Long: N 34 10 56.502, W 119 25 7.214	Magnetic Declination Model: BGM 2000
Location Grid NE 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: Wall Head

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Grid Coordinates		Geographic Coordinates	
									Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Tie-In / KOP 4"/100 EOC Begin 4"/100 Drop	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
	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
	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
LP-M S65 PBHL/JTD S65	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 PBHL/JTD 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
	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 Program:

MD From (ft)

9200.00

MD To (ft) EQU Frog Survey Tool Type

11899.64 Act-Slrs Anadroll MWD (none assigned-default tool used)

ANTI-COLLISION SUMMARY REPORT

<i>Client:</i>	Nuevo Energy Company	<i>Slot:</i>	P-0216 S-65
<i>Field:</i>	T01 Santa Clara Field	<i>Well:</i>	S-65
<i>Structure:</i>	Platform Gilda	<i>Borehole:</i>	S-65
<i>Subject Survey:</i>	T010042p1r0	<i>Date:</i>	February 23, 2001
<i>Analysis Method:</i>	3D Least Distance	<i>Depth Interval:</i>	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-30H	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	

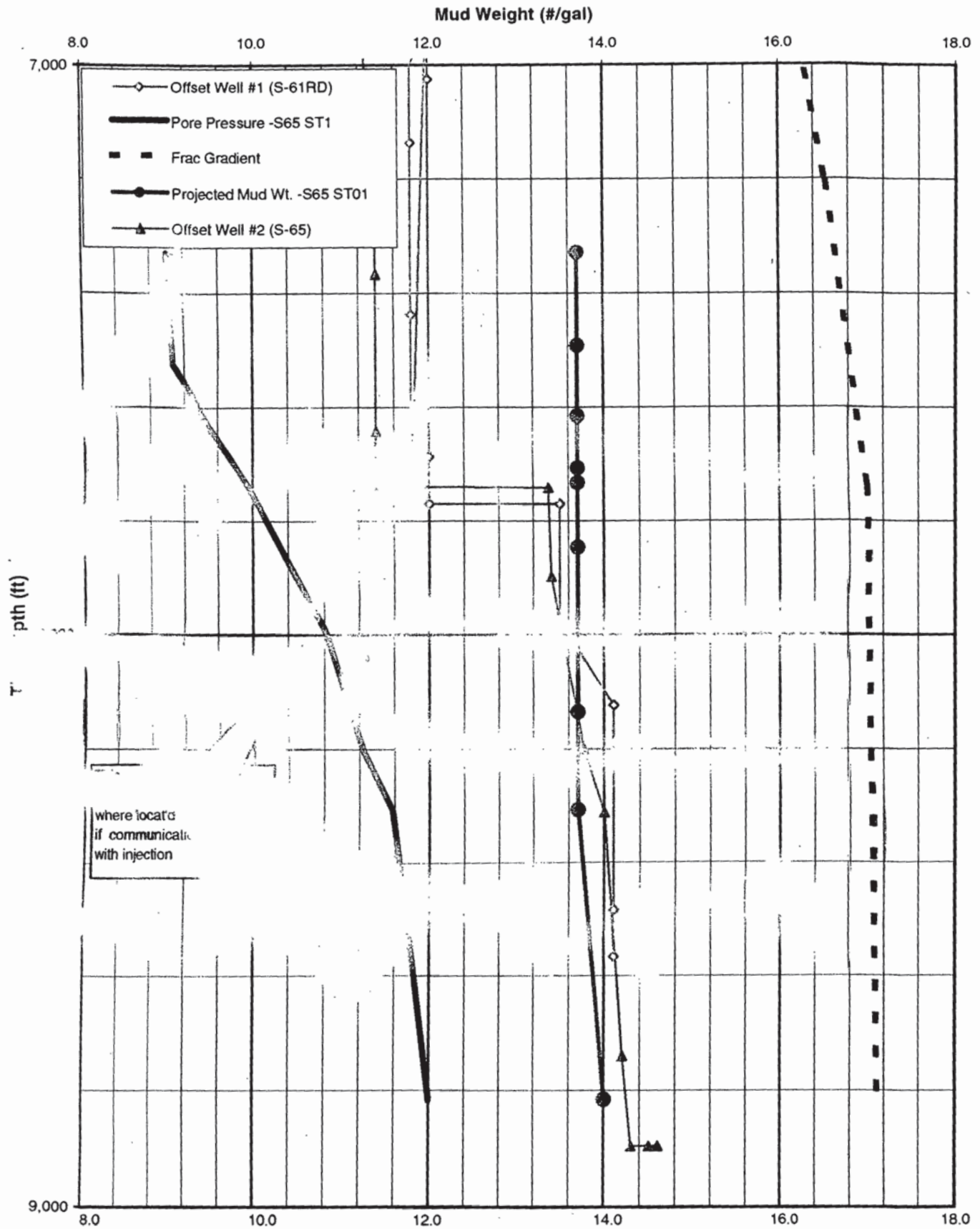
	11.40	20.60	800.00	799.99	12.80	12.00	9.60 Enter Minor	
	10.70	20.77	900.00	899.99	14.40	13.50	10.80 Enter Major	
	28.18	52.14	2800.00	2798.61	43.50	40.40	30.00 Exit Major	
	28.18	52.14	2800.00	2798.61	43.50	40.40	30.00 Exit Minor	
	28.18	52.14	2800.00	2798.61	43.50	40.40	30.00 Exit Buffer	
S-83	7.12	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
Field: Santa Clara Field
Well: S65-RD

Spud Date: 2001
KB: 107'
County: Federal Waters

Location: OCS-P 0216
API#: Not Assigned Yet

Geological Marker: Lwr Repetto

Conductor:
16" @ 1708' MD/TVD
Cemented to Surface

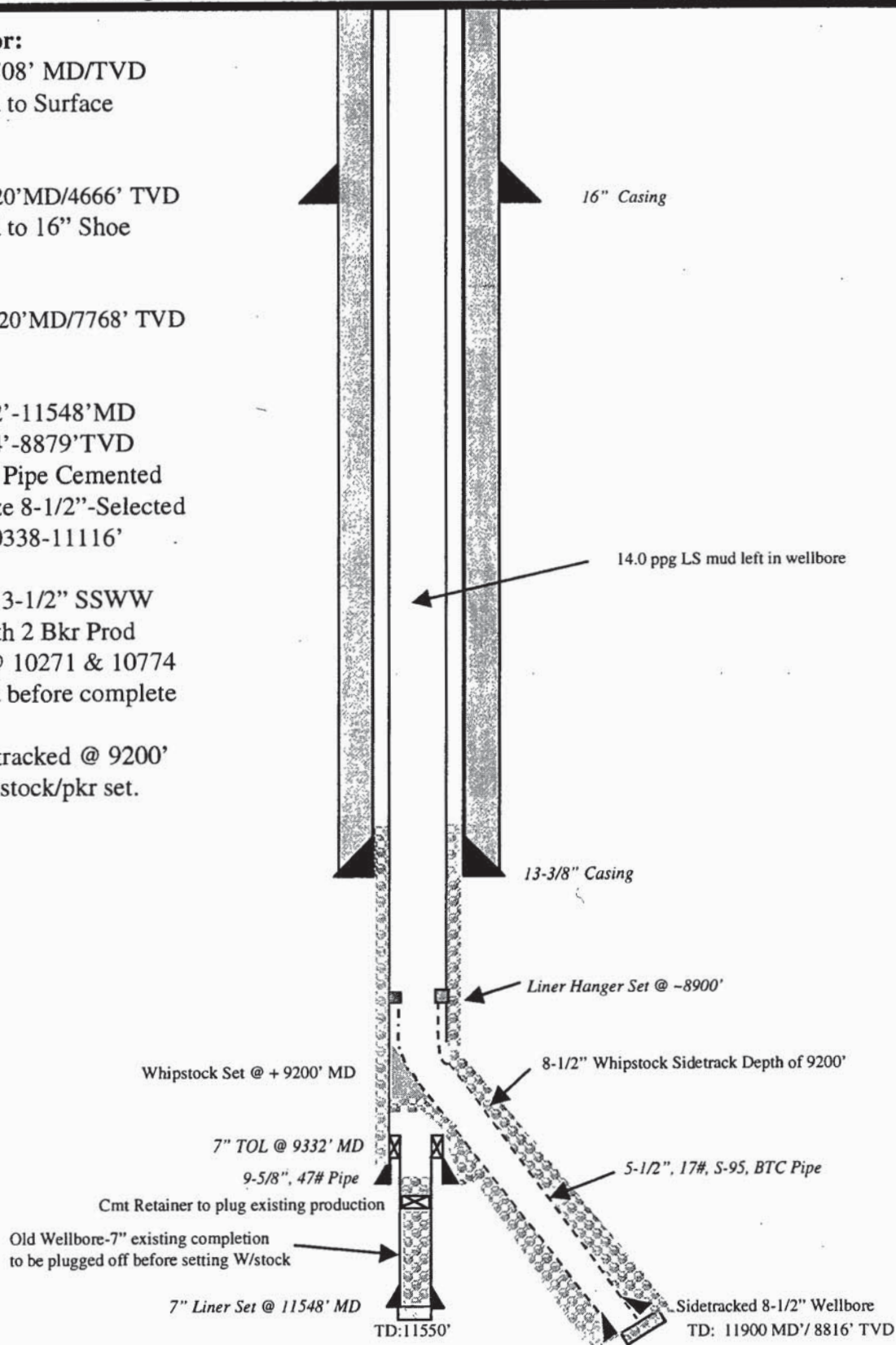
Casing:
13-3/8" 5020' MD/4666' TVD
Cemented to 16" Shoe

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.



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

20" 106# Gr 'B' RL-4S
 16" 75# X-52 VP-3
 13-3/8" 68# K-55 ASL
 9 5/8" 47# N-80 8rd
 7" 29.0# S-95 8rd
 3-1/2" 9.3# N-80 SSWW/Blk 'CS'
 *2 7/8" 6.5# N-80 EUE Tbg

Measured Depth

0 - 713'
 0 - 1708'
 0 - 5020'
 0 - 9831'
 9346' - 11548'
 11127' - 10275'
 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 H₂O
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**

10338-10376'

10420-10460'

10490-10754'

L.Zone Perforations

10910-11116'

- 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 & SIDTRACT 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 @ $\pm 10180'$ MD. If the gauge ring run is successful, RU EWL unit. PU and RIH with a 1-9/16" through tubing gun. Attempt to perforate above the "FB-1" packer @ $\pm 10180'$. 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 appropriate 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 @ $\pm 9346'$ 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 ($\geq 10188'$ 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 $\pm 9250'$ 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 $\pm 11,900'$ 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 $\pm 9200'$ 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 @ $\pm 8900'$ 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 $\pm 11815'$ 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

<u>Tubular Capacity</u>						
	<u>Size</u>	<u>Interval</u>	<u>Wt</u>	<u>I.D.</u>	<u>Drift</u>	<u>Bbl/ft</u>
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 submersible 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 Resistance Tension	CDF	Burst Pressure	Min. Int. Yield	BDF
									Psi	Psi					
	Btm		lb/ft	Grade	Conn	Klbs	Klbs		Psi	Psi					
9-5/8"	0	9200	47.0	N-80	LTC	Not Applicable - Cemented in Place			3427	4760	1.39	5345	6870	1.29	
5-1/2"	8900	11900	17	S-95	BTC	498	471	9.76	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.

$$P_m = 7330'(11.2)(.052) = 4270 \text{ psi} \quad G_g = (0.115 \times 7330) = 843 \text{ psi}$$

$$P_c = 4270 - 843 = 3427 \text{ psi}$$

$$S_{FC} = 4760/3427 = 1.39$$

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.

$$\text{Upper one third of wellbore gas-filled} = 8816 \times 0.333 = 2936 \text{ ft}$$

Fracture Pressure at 7330' TVD = 6250 psi

$$\text{MASP} = 6250 - ((2936)(0.115) - (0.052 \times 14.0 \times (7330 - 2936))) = 2713 \text{ psi}$$

$$1/3 \text{ of BHP at } 8816' \text{ TVD} = (0.052 \times 12.0 \times 8816) \times 0.333 = 1832 \text{ psi}$$

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)

$$\text{MASP} = (.052)(12.0)(8816) - (0.115)(8816)$$

$$\text{MASP} = 4487 \text{ psi}$$

$$S_{FB \text{ TOP}} = 6870/4487 \text{ psi} = 1.53$$

Burst Pressure at Bottom = (MASP + Hydrostatic Comp: Fluid) – Pore pressure backup.

$$\text{Burst Pressure at Bottom} = (4487 + ((.052 * 14.0 * 8250) - (.052)(12.0)(8250)))$$

$$\text{Burst Pressure at Bottom} = 5345 \text{ psi}$$

$$S_{FB \text{ BTM}} = 6870/5345 \text{ PSI} = 1.29$$

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

$$P_c = (8816)(14.0 \text{ ppg})(.052) = 6418 \text{ psi}$$

$$S_{FC} = 8580 \text{ psi} / 6418 \text{ psi} = 1.34$$

Burst

$$\text{Anticipated WHP} = (.052)(12.0)(8816) - (0.115)(8816) = 4487 \text{ psi}$$

$$S_{FB} = 9190 \text{ psi} / 4487 \text{ psi} = 2.05$$

Tensile

$$\text{Buoy Weight} = (17.0)(8816 - 7146)(1 - 0.7861) = 6073 \text{ #'s}$$

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

$$S_{FJT} = 498,000\# / (3000 \text{ ft} \times 17\#/\text{ft}) = 9.76$$

$$S_{FB} = 471,000\# / (3000 \text{ ft} \times 17\#/\text{ft}) = 9.24$$

Maximum Overpull w/ Safety Factor - Ignoring Buoyancy

$$J_t = 498,000\# / 2 - 51,000\# = 198,000\#/\text{s}$$

**OCS-P0216
PLATFORM GILDA
WELL S65 ST-01 I
CEMENT SLURRY DESIGN**

ABANDONMENT PLUG (Plug Perforations inside 7" Liner) w/Cement Retainer

FLUID SPECIFICATIONS

<u>Plug No.</u>	<u>Volume Cu-Ft</u>	<u>Volume Factor</u>	<u>Amount and Type of Cement</u>
*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 <u>50 linear ft.</u> 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

	<u>Plug No. 1</u>
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Plug Geometry

	<u>Plug Top</u>	<u>Plug Bottom</u>	
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

<u>Plug No.</u>	<u>Volume Cu-Ft</u>	<u>Volume Factor</u>	<u>Amount and Type of Cement</u>
1	10.5	1.15	= 10sacks (Use minimum of 20 sx) to set <u>50 linear ft.</u> of Class G Cement + 0.2 gal/sx dispersant + 0.1 gal/sx retarder

Cement Properties

	<u>Plug No. 1</u>
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	4.97

Cement Plug Geometry

	<u>Plug Top</u>		<u>Plug Bottom</u>	
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

<u>Fluid</u>	<u>Volume Cu-Ft</u>	<u>Volume Factor</u>	<u>Amount and Type of Cement</u>
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

	<u>Slurry No. 1</u>
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
H₂S 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 Sulfur 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 H₂S 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)	Criteria			XCD		
					Expected Frac Gradient	Expected Pressure Gradient	Maximum Anticipated Surface Pressure	Barite 100 lb sacks	Polymer 25 lb sacks	Scavenger 50 lb sacks
Feet	Inches	Inches	Feet	Feet	psi/ft	psi/ft	psi	ppg		
* 0-9200	12.25	9.625	9200	7330	0.87	0.468	2713	14.0	500	80
9200-11900'	8.5	5-1/2" Liner	11900	8816	0.89	0.624	4487	14.0	500	80
Minimum Mud Materials Required on Board										

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.

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 04-311-20616-01/S01		3 WELL NO S-65 ST 1		11 OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) Nuevo Energy 1200 Discovery Dr, Suite 500 Bakersfield, CA 93309		
8 FIELD NAME Santa Clara		9 UNIT NUMBER 6B		10 MMS OPERATOR NUMBER 01546				
WELL AT TOTAL DEPTH								
17 WELL LOCATION AT TOTAL DEPTH (Surveyed) X=1039943 Y=754306 6309 North & 1754 West of surface			4 LEASE NUMBER P-0216		5 AREA NAME 6B		6. BLOCK NUMBER 4861	
7 OPD NUMBER 6B								
WELL AT PRODUCING ZONE								
37 WELL LOCATIONS AT THE PRODUCING ZONE (Surveyed) X=1039973 Y=754109 X=1040001 Y=753923			38 LEASE NUMBER P-0216		39 AREA NAME 6B		40 BLOCK NUMBER 4861	
41 OPD NUMBER 6B								
34 WELL STATUS/TYPE CODE Com/Pow		42 DATE WELL SUSPENDED, COMPLETED, OR ABANDONED 08/11/01			43 DATE OF FIRST PRODUCTION		23 SPUD DATE 5/12/01	
44 DATE SIDETRACKED 5/25/2002			45. DATE TD REACHED 8/11/01			24 TOTAL DEPTH (Surveyed) 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				RECEIVED OCT 28 2002 MINERALS MANAGEMENT SERVICE CAMARILLO DISTRICT		
11,314'		11,384'						
50 RESERVOIR NAME Lower Repetto				51. NAME(S) OF PRODUCING FORMATION(S) THIS COMPLETION 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 (FT ³)
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.

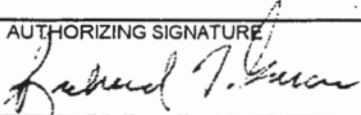
DEPTH INTERVAL		75. TYPE OF MATERIAL	76. MATERIAL QUANTITY
73. TOP (MD)	74. BOTTOM (MD)		
11,664'	11,818'	Cement	75 SX
11,564'	11,664'	Cement	125 SX
11,406'	11,564'	Cement	20 Bbls
11,206'	11,406'	Cement	41 Bbls
11,640'	11,671'	Acid	23 Bbls
11,314'	11,384'	Fracture	7000# sand, 299 Bbls Gel

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", Inclinator 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		BOTTOM		84. DESCRIPTION, CONTENTS, ETC.
	80. MD	81. TVD	82. MD	83. TVD	
Lower Repetto	10697		11,833'		

85. GEOLOGIC MARKERS	TOP		85. GEOLOGIC MARKERS	TOP	
	86. MD	87. TVD		86. MD	87. TVD
LP-K	10,697'				
LP-L	11,092'				
LP-M	11,240'				
LP-N	11,606'				

26. CONTACT NAME Brent Martin	27. TELEPHONE NUMBER (661) 322-7600
28. AUTHORIZING OFFICIAL (Type Name) Richard F. Garcia	29. TITLE as Agent for Nuevo Energy
30. AUTHORIZING SIGNATURE 	31. DATE 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 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 -125 (September 1999) (Replaces all previous editions of Form MMS-125, which will not be used)

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. APPROX 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 : DRILL 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 RUNNING ON BACK UP POWER TRIP OUT TO SHOE 9200' TRIP IN DRILL 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 CIRCULATING SUB. MAKE UP REVERSE CIRCULATING 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. MADE 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. ATTEMPT 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 RUNNING 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 TO 1BBL/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 TO 11428'. 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. 1/2BBL 1400-11/2BBL 2500-2BBL 2900-21/2BBL 3200-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 : 8,822 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 CONTROLLING 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 : 8,322 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. BLEED 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. 8/9/01 FINAL 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.

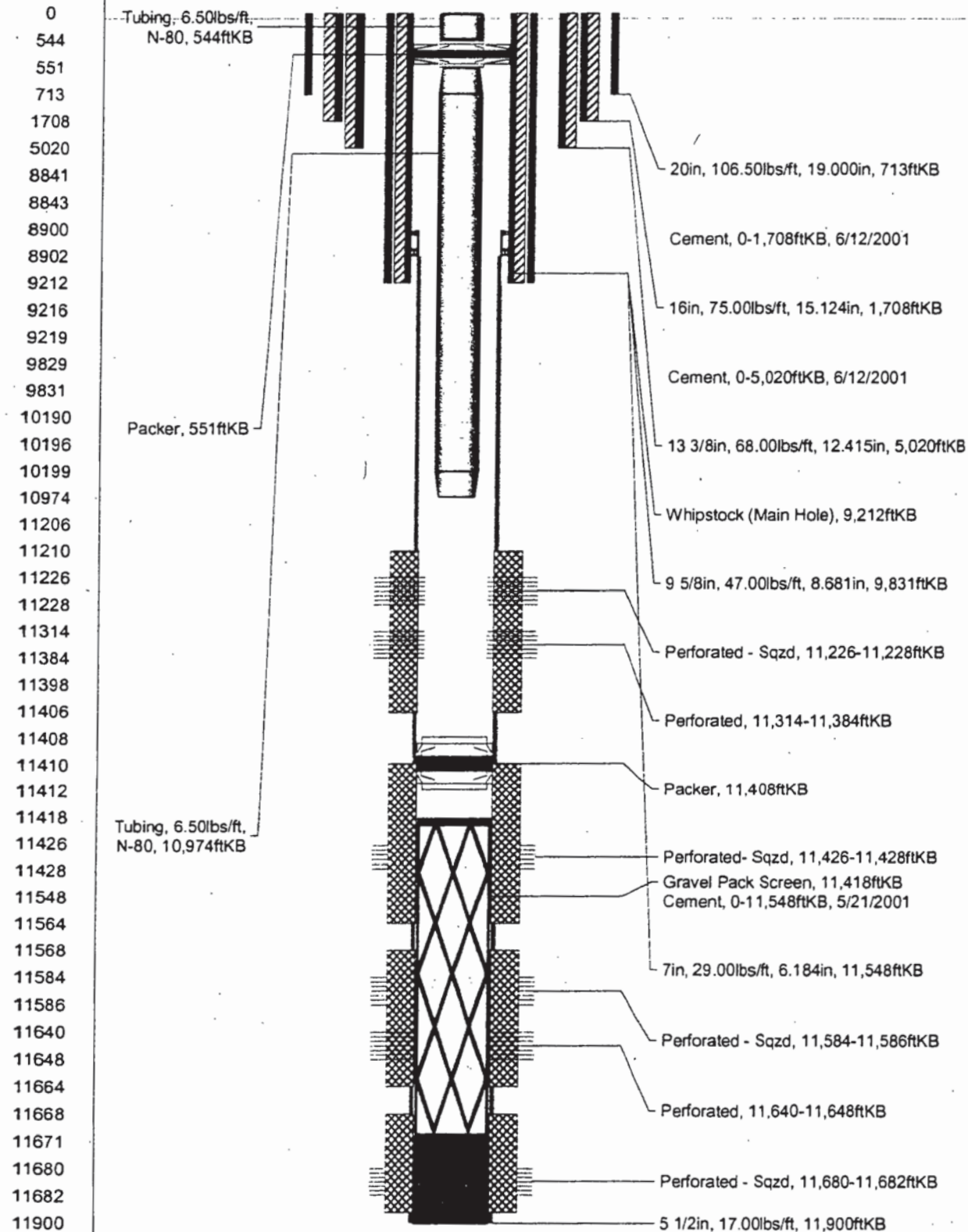
Current Schematic

API 043 1120616	Field Name Santa Clara	Operator Nuevo Energy	State California	Lease OCS P-0216
Comment				Total Depth (ftKB) 11,833.0

ST 01: 7/28/2001

ftKB (MD)

Schematic - Actual



Current Schematic

API/UWI 0431120616	Field Name Santa Clara	Area 6B	Operator Nuevo Energy	County Federal Waters	State/Province California
KB Elevation (ft) 107.00	Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Spud Date 5/12/01

ST 01: 8/10/01

Schematic - Actual

ftKB (MD)

