

PUBLIC INFORMATION

U.S. Department of the Interior
Bureau of Safety and Environmental
Enforcement (BSEE)

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OMB Control No. 1014-0026
OMB Approval Expires 05/31/2017

Application for Permit to Modify (APM)

1. WELL NAME (CURRENT) S-55		2. SIDETRACK NO. (CURRENT) 00		3. BYPASS NO. (CURRENT) 00		4. OPERATOR NAME and ADDRESS (Submitting office) DCOR, LLC 290 Maple Court, Suite 290 Ventura, CA 93003	
5. API WELL NO. (12 digits) 04-311-20607-00		6. START DATE (Proposed) 8/15/2016		7. ESTIMATED DURATION (DAYS) 11 days			
8. ☐ Revision		9. If revision, list changes:					
WELL AT TOTAL DEPTH				WELL AT SURFACE			
10. LEASE NO. P00216				13. LEASE NO. P00216			
11. AREA NAME LA				14. AREA NAME LA			
12. BLOCK NO. 6862				15. BLOCK NO. 6862			
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.							
Completion ☐ Initial Completion ☐ Reperforation ☐ Change Zone ☐ Modify Perforations ☐ 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		Enhance Production ☒ Acidize ☒ Artificial Lift ☐ Wash/Desand Well ☐ Jet Well ☐ Hydraulic Fracturing ☐ Information: ☐ Surface Location Plat ☐ Change Well Name			
17. BRIEFLY DESCRIBE PROPOSED OPERATIONS (Attach prognosis):							
18. LIST ALL ATTACHMENTS (Attach complete well prognosis and attachments required by 30 CFR 250.465; 250.513(a) through (d); 250.514(d); 250.516(a); 250.517(d)(8); 250.517(d)(9)(i); 250.613(a) through (d); 250.614(d); 250.616(a); 250.616(f)(4); 250.617(d); 250.617(h)(1); 250.617(h)(2)(i); 250.1706(a); 250.1706(f)(4); 250.1707(d); 250.1709; 250.1712(a) through (g); 250.1721(a); 250.1722(a); or 250.1743(a). 1) Workover procedure 2) Acid schedule 3) Well Information 4) BOP Schematic 5) Current & proposed WBD							
19. Rig Name or Primary Unit (e.g., Wireline Unit, Coil Tubing, Snubbing Unit, etc.) DCOR Rig No. 10							
20. The greater of SITP or MASP (psi): 1,500		21. Type of Safety Valve (SV): ☒ SCSSV ☐ SSCSV ☐ N/A		22. SV Depth BML (ft): 228'			
23. Rig BOP (Rams)				24. Rig BOP (Annular)			
Size: Working Pressure Test Pressure (inches) (psi) (psi) 2-7/8" 5,000 Low/High: 250 / 2,500		Working Pressure Test Pressure (psi) (psi) 5,000 Low/High: 250 / 2,500		Working Pressure Test Pressure (psi) (psi) 5,000 Low/High: 250 / 2,500		Working Pressure Test Pressure (psi) (psi) 5,000 Low/High: 250 / 2,500	
25. Coiled Tubing BOP: N/A		26. Snubbing Unit BOP: N/A		27. Wireline Lubricator: N/A			
Working Pressure BOP Test Pressure (psi) (psi) Low/High: /		Working Pressure Test Pressure (psi) (psi) Low/High: /		Working Pressure Test Pressure (psi) (psi) Low/High: /		Working Pressure Test Pressure (psi) (psi) Low/High: /	
28. CONTACT NAME: Dale Bradley		29. CONTACT TELEPHONE NO.: 805-535-2085		30. CONTACT E-MAIL ADDRESS: dbradley@dcorllc.com			
31. AUTHORIZING OFFICIAL (Type or print name) David Cohen				32. TITLE VP of Production			
33. AUTHORIZING SIGNATURE				34. DATE			
THIS SPACE FOR BSEE USE ONLY							
APPROVED BY:		TITLE		DATE			

PUBLIC INFORMATION

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	SCBA AND H2S SENSORS PER BSEE REGULATIONS.
B) Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	☐ YES ☒ NO ☐ N/A	
C) Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	☐ YES ☒ NO ☐ N/A	SOLID STEEL DECK BETWEEN DRILL DECK AND WELLBAY.
D) If sands are to be commingled for this completion, has approval 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	

CERTIFICATION: I certify that the information submitted is complete and accurate to the best of my knowledge. I understand that making a false statement may subject me to criminal penalties under 18 U.S.C. 1001.

Name and Title: David Cohen, VP of Production Date: _____

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. BSEE 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 reviewing the instructions, completing and filling out this form only is estimated to average 1 hour per response. The burden for the attachments required in the form range from 10 minutes to 1.5 hours depending on the requirement. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Safety and Environmental Enforcement, 45600 Woodland Road, Sterling, VA 20166.

Application for Permit to Modify (APM)

Lease P00216	Area LA	Block 6862	Well Name S055	ST 00	BP 00	Type Development
Application Status Approved		Operator 02531 DCOR, L.L.C.				
Pay.gov Amount: \$125.00		Agency Tracking ID: EWL-APM-186945		Pay.gov Tracking ID: 25RVMU3D		
General Information						
API 043112060700		Approval Dt 30-JUN-2016		Approved By Bethram Ofole		
Submitted Dt 02-JUN-2016		Well Status Completed		Water Depth 205		
Surface Lease P00216		Area LA		Block 6862		
Approval Comments						
Correction Narrative						
Permit Primary Type Enhance Production						
Permit Subtype(s) Acidize Artificial Lift						
Operation Description See attached procedure.						
Procedural Narrative WELL INFORMATION Anticipated Kill Fluid Weight: 8.6 ppg FSW (7.8 ppg static @ 7,402' MD) Well Total Depth: 9,200' MD (9097' TVD) Plug Back Depth: 9,111' MD Effective TD: 8,044' MD (1/23/2012 tag depth, top of ESP fish) Kelly Bushing: 52' above tubing hanger LDS Vent Valve: Baker 2-3/8" TE-5 Safety Valve Packer: Baker Twin Seal Packer SSSV: Baker 2-7/8" TE-5 TR Safety Valve Control Lines: 1 x 1/4" SS Chem Line: 2 x 3/4" SS Conductor Casing: 20" 94# X-52 @ 726' Conductor Extension: 16" 75# X-52 @ 380' - 1,587' Intermediate Casing: 13-3/8" 68# K-55 @ 4,702' Production Casing: 9-5/8" 47# N-80 @ 6,950'						

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ID: 8.681"
Drift: 8.525"
bbl/ft: 0.07320

Production Liner: 7" 29# N-80 @ 6,574' - 9,199' ID: 6.184"
Drift: 6.059"
bbl/ft: 0.03714

Perforations: In intervals 7,505' - 8,139'; see WBD for details

Tubing: 2-7/8" 6.5#, L-80, 8rd @ 7,511' ESP sensor depth
ID: 2.441"
Drift: 2.347"
bbl/ft: 0.00579

 

PRE-RIG OPERATIONS:

- . Hold H2S safety meeting. Potential for up to 10,000 ppm H2S from this sour well.
- . Confirm S-55 and surface equipment is locked & tagged out.
- . Maximum anticipated surface pressure is 1,500 psi (gas pressure). Expected kill fluid is filtered sea water (FSW). Reservoir pressure is 2,950 psi at 7,402' MD (7,310' TVD). 0.404 psi/ft at bottom of ESP = 7.8 ppg
- . Punch holes in tubing as close to the pump as comfortable.
- . Circulate well to production with FSW down tubing through ESP. SI well and take pressure readings.
- . Notify BSEE 48 hours in advance of workover. A BSEE permit is required for this workover.

1 MIRU

- 1.1. MIRU. Test H2S equipment and cascade systems on rig floor.
- 1.2. Verify well is locked and tagged out.
- 1.3. Pressure test tree bonnet and/or between seals on tubing hanger to 3000 psi.
- 1.4. Check tubing and casing pressure. Bleed off pressure and proceed to step 2 to kill well.

2 KILL WELL

- 2.1. If tubing pressure does not bleed off, calculate new kill fluid weight. Mix weighted fluid in mud pits using filtered seawater. Treat all fluids with scale inhibitor and biocide.
- 2.2. Displace kill fluid down tubing using PZ-9. Restrict kill rates to avoid pumping fluids into formation while circulating. Notify Lead Operator 4 hours in advance of kill procedure. Take returns through choke manifold to 500 bbl tank using Wait-and-Weight Method. Have 500 bbl tank plumbed to production drain system to drain well fluid from tank while killing well.

3 ND PRODUCTION TREE, NU AND TEST BOP

- 3.1. With well dead, install BPV.
- 3.2. ND production tree. Inspect tubing hanger lock down screws. Change out hanger lock

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down screws if necessary. If needed, send tree to Cameron for inspection.

3.3. Check tubing hanger joint threads with pup joint. Visually examine the wellhead components. Install cap on feed through mandrel.

3.4. NU and test Class III 5M BOPE to 250 psi low / 2500 psi high (annular and double gate) against 2-7/8" tubing per BSEE requirements.

4 PULL OLD COMPLETION

4.1. MU landing joints w/ FOSV into tubing hanger. Circulate well down tubing. Shut down pump and check pressures to be static.

4.2. Close annular and back out lock down screws.

4.3. Shear Baker Twin Seal packer by striping through annular. Monitor well for pressure.

4.4. LD tubing hanger. Remove BPV.

4.5. Install FOSV and circulation head. Circulate well back to pits. SD pump and monitor well.

4.6. RU spoolers and sheaves. POOH w/ tubing, cable and control line to packer. LD packer.

4.7. Send all completion equipment to Baker Hughes in Ventura.

4.8. Install FOSV and circulation head. Close annular and circulate hole volume through choke back to pits.

4.9. Shut down pump. Open annular preventer and observe well to ensure static conditions.

4.10. POOH w/ 2-7/8" tubing, cable, chemical lines and ESP. Stand back the production tubing. Keep hole full at all times if possible. Cannon clamps were used on the last workover in 2015 (over coupling, mid joint, and on ESP). Set aside clamps for reuse, note condition if poor.

5 RUN 9-5/8" SCRAPER TO PACKER DEPTH

5.1. PU 9-5/8" scraper and RIH on tubing to 600'.

5.2. Work scraper over packer area several times.

5.3. POOH and laydown scraper.

6 RUN 7" SCRAPER THROUGH PERFORATIONS

6.1. PU 7" scraper and RIH on tubing to top of fill (last tag 8,044' in 2012).

6.2. Attempt to circulate down if tagging higher than 8,044'.

6.3. POOH and laydown scraper.

7 PERFORM ACID CLEANOUT

7.1. PU acid wash tool or cup packers with ~62' spacing.

7.2. Run in acid tools and space out to bottom cleanout interval.

7.3. Pump acid job per separate Acid Pumping Schedule & Procedures.

7.4. POOH and laydown acid tools while standing back tubing.

7.5. RDMO acid equipment.

8 RUN ESP

8.1. RU to run Baker completion equipment; 1 x 3/8" chemical line to motor intake + 1 x 3/8" chemical line to ESP sensor and 1 x 1/4" control lines to SCSSSV and vent valve. Test

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control lines to 5000 psi 8.2. MU new Schlumberger ESP and RIH. Plan to set bottom of motor at +/- 7,500' (just above top perf). Install cannon clamps at each tubing collar and at each mid joint. Test cable every 20 stands, phase-to-phase and phase-to-ground. Install chemical injection line with check valve at pump intake. 8.3. RU tubing testers. Continue RIH in hole with 2-7/8" tubing, hydro testing tubing to 5,000 psig. 8.4. MU SCSSSV, surface packer and vent valve. Splice electric line. Pressure test SCSSSV and vent valve to 5,000 psig for 15 minutes. RIH w/ remaining tubing and hydro test to 5000 psi. Place surface packer at +/- 550'. Control line above packer will need to be banded to the tubing. 8.5. Install plug onto ESP cable. Install feed through mandrel and test connections. Ensure electrical feed through is protected and kept dry. Strap all completion equipment and prepare tubing detail. 8.6. Drain stack. Land hanger using caution to avoid torn seal elements. Install BPV. Run in lock down screws. Fill stack. Test lower seals on hanger against pipe rams to 3,000 psig for 10 charted minutes. 8.7. Check well for pressure and back out landing joints. 9 ND BOPE AND NU TREE 9.1. ND diverter, BOP and riser. 9.2. NU and test production tree to 3000 psig. 9.3. Install pig tail and hub clamp on production tree. 9.4. Pull BPV. 9.5. Pressure annular vent valve and SCSSSV open for 15 minutes. 9.6. If Production Operations is ready, run ESP to confirm correct rotation and operation for 2 hours. Record tubing pressure. Shut down ESP. In the event that Production Operations is not ready to run the ESP, RD and move to next well. 10 SET PACKER 10.1. MU landing joints into tree. RU wireline and pressure test lubricator and lines to 3000 psig. 10.2. Set tubing plug above SCSSSV. 10.3. As per Baker Hughes representative's direction; Pressure up in 500 psig increments to set packer at 1500 psig. Continue pressuring up to 3000 psig and hold for 15 minutes. 10.4. Bleed pressure and pull tubing plug. 10.5. RD wireline and have production test vent valve and SCSSSV. 10.6. Turn well over to production. 11 RDMO 11.1. Prepare rig for skid to next well.						
Subsurface Safety Valve Type Installed SCSSV Feet below Mudline 228 Maximum Anticipated Surface Pressure (psi) Shut-In Tubing Pressure (psi) 1500						
Rig Information						

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Name DCOR RIG #10	Id 44501	Type PLATFORM	ABS Date	Coast Guard Date
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Blowout Preventers

Preventer	Size	Working Pressure	--- Test Pressure ---	
			Low	High
Rams	2-7/8	5000	250	2500
Annular		5000	250	2500

Date Commencing Work (mm/dd/yyyy) 15-AUG-2016

Estimated duration of the operation (days) 11

Verbal Approval Information

Official	Date (mm/dd/yyyy)
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Questions

Number	Question	Response	Response Text
1	Is H2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	YES	SCBA AND H2S SENSORS PER BSEE REGULATIONS.
2	Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	NO	
3	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.	NO	SOLID STEEL DECK BETWEEN DRILL DECK AND WELLBAY.
4	Are you downhole commingling two or more reservoirs?	NO	
5	Will the completed interval be within 500 feet of a lease or unit boundary line? If yes, then comment.	NO	
6	For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	N/A	
7	Will the proposed operation be covered by an EPA Discharge Permit? (Please provide permit number in comments for this question)	NO	

ATTACHMENTS

File Type	File Description
pdf	Proposed Wellbore Schematic
pdf	Current Wellbore Schematic

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Lease P00216	Area LA	Block 6862	Well Name S055	ST 00	BP 00	Type Development
Application Status Approved		Operator 02531 DCOR, L.L.C.				
pdf Shear Test pdf APM Gilda S-55 Public Info pdf BOP Schematic pdf S-55 SB4 Calcs pdf S-55 Acid Procedure pdf PQR-DCOR Gilda Platform						
CONTACTS Name dale bradley Company DCOR, L.L.C. Phone Number 805-535-2085 E-mail Address dbradley@dcorllc.com Contact Description David Cohen DCOR, L.L.C. 805-535-2028 dcohen@dcorllc.com Jimilyn Summers DCOR, L.L.C. 805-535-2061 jsummers@dcorllc.com						

CERTIFICATION: I certify that information submitted is complete and accurate to the best of my knowledge. I understand that making a false statement may subject me to c

Name and Title	Date
<u>Jimilyn Summers, Well Operations Technicia</u>	<u>10-JUN-2016</u>

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Gilda S-55 Acid Volume Threshold Calculation

Hole size	8.5 in	
Treated Porosity	20%	
AVT	52.29 gal/ft	
Perfs to acidize	160 ft	applies to perfs between 7,830' - 7,870' & 7,920' - 8,040'
Total acid volume limit	8,366 gal	
Hole size	8.5 in	
Treated Porosity	14%	
AVT	36.60 gal/ft	
Perfs to acidize	40 ft	applies to perfs between 7,870' - 7,910'
Total acid volume limit	1,464 gal	
Total acid limit	9,830 gal	

(3) "Acid Volume Threshold" means a volume, in US gallons, per treated foot of well stimulation treatment, calculated as follows:

$$\frac{(((\text{Size of the drill bit diameter in inches that was used in the treated zone} / 2 + 36 \text{ inches})^2 - (\text{bit diameter in inches} / 2)^2) \times 3.14159 \times 12 \text{ inches} \times \text{treated formation porosity})}{231 \text{ (inches}^3\text{/gallon)}}$$

The lowest calculated or measured porosity in the zone of treated formation shall be the treated formation porosity used for calculating the Acid Volume Threshold.

S-55 ACID PUMPING SCHEDULE

5/24/2016

1. Install workable 5,000 psig gauges on the wellhead annulus and tubing. RU acid pumping equipment on the platform and test surface lines to at least 3,500 psi.
2. Set cup wash tool in bottom acid interval and test backside of packer to 500 psi for 5 min.
3. Perform formation injection/breakdown rate test. Test up to 4 BPM with wellhead pressure (WHP) not to exceed 3,000 psig.
4. **Start acid job per below schedule at the highest rate achievable at 3,000 psig WHP, but limiting to 4 BPM maximum.** Spot acid near interval while circulating before squeezing away if tool allows.
5. After pumping each stage, shut in at the surface and digitally record pressure while allowing well to bleed off to the formation for up to 1 hour for each stage or until tubing pressure drops to 0 psi.
6. Bleed off any remaining pressure after 1 hour then proceed to next interval.

DO NOT EXCEED 3,000 PSIG SURFACE PRESSURE

2-7/8" capacity is .00578 bbl/ft. * 7,800' = 45.1 bbls / ~1,900 gal = 1 tubing volume @ Setting #1

			Interval	NH4Cl	15%HCl	12/3% MudAcid	15%HCl	NH4Cl	Filtered Seawater
Setting	Bottom	Top	(ft)	(gals)	(gals)	(gals)	(gals)	(gals)	(gals)
1	8040	8000	40	200	500	1000	500	1000	2000
2	8000	7960	40	200	500	1000	500	1000	2000
3	7960	7920	40	200	500	1000	500	1000	2000
4	7910	7870	40	200	350	700	350	1000	2000
5	7870	7830	40	200	500	1000	500	1000	2000
Totals			200	1,000	2,350	4,700	2,350	5,000	10,000

Last stage doesn't need a FSW tubing displacement if sending tank cleanout + tubing displacement down last stage per step #6

7. After final stage clean poly tanks with filtered seawater and inject down tubing. Chase with 1 tubing volume displacement of filtered seawater. Wait for WHP to be 0 psi.
8. Open bypass and release packers. Check well for stability, circulate filtered seawater as needed.
9. Lay down cleanout tools, stand back tubing, and prep to run artificial lift equipment.

Note: The equipment must be cleaned prior to leaving platform. Client representative must inspect equipment prior to acid crew being released.

Some of the chemicals specified in this program have toxic properties. Personnel should be familiar with the inherent dangers and appropriate safeguards to prevent accidental injury. Please refer to the MSDS sheets for proper safety precautions and required personnel protective equipment.