UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| OCD. | Artesia |
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| UCD | ALLESIA |

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

| OMD N | O. 10 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | .O.1 |
|----------------|-------|---|------|
| Expires: | July | 31, | 20 |
| Coriol No. | | | |

| SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. | | | | | NMNM36975 | | |
|--|--|--|---|---|---|---|------------------|
| | | | | | 6. If Indian, Allottee or Tribe Name | | |
| SUBMIT IN TRIPLICATE - Other instructions on reverse side. | | | | | 7. If Unit or CA/Agreement, Name and/or No. | | |
| 1. Type of Well Oil Well Gas Well Oth | ier . | | | | 8. Well Name and No. STENT 21 FEDERAL COM. 2H | | |
| 2. Name of Operator Contact: DAVID STEWART OCCIDENTAL PERMIAN LP E-Mail: david_stewart@oxy.com | | | | | 9. API Well No. 30-015-41221 | | |
| 3a. Address 3b. Phone No. (include area code) P.O. BOX 50250 Ph: 432-685-5717 MIDLAND, TX 79710 Fx: 432-685-5742 | | | | | 10. Field and Pool, or Exploratory MALAGO BONE SPRING | | |
| 4. Location of Well (Footage, Sec., T | ., R., M., or Survey Description) | | | | 11. County or Parish, and State | | |
| Sec 21 T24S R28E SESW 50FSL 2000FWL 32.195949 N Lat, 104.094224 W Lon | | | | | EDDY COUNTY, NM | | |
| 12. CHECK APPR | ROPRIATE BOX(ES) TO I | NDICATE NA | TURE OF N | OTICE, REI | PORT, OR OTH | ER DATA | |
| TYPE OF SUBMISSION TYPE OF ACTION | | | | ACTION | | | |
| Notice of Intent | ☐ Acidize | Deepen | | ☐ Productio | n (Start/Resume) | ☐ Water Shut- | Off |
| ■ Notice of Intent | ☐ Alter Casing | □ Fracture | Treat | Reclamat | ion | ■ Well Integri | ty |
| ☐ Subsequent Report | □ Casing Repair | ■ New Con | istruction | ☐ Recomple | ☐ Recomplete | | |
| ☐ Final Abandonment Notice | □ Change Plans | Plug and | Abandon | ☐ Temporar | ily Abandon | Change to Orig | inal A |
| | □ Convert to Injection | Plug Bac | k | ■ Water Disposal | | | 1.0 |
| following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fit OXY USA Inc. respectfully req. 1. Casing design modification, 14-3/4" surface hole w/ 11-3/4 hole w/ 5-1/2" csg. Details are 2. Cement program adjustment below. 3. The Surface and Intermediate minutes. This will also test the Multibowl wellhead system. | nandonment Notices shall be filed on all inspection.) uests approval for the follow to drill the well with smaller "csg, 10-5/8" intermediate helow. It to the new bit/casing sizes the casings strings will be testing to the strings will be the strings will be testing to the strings will be the strings will be testing to the strings will b | wind after all required in the control of the contr | ements, including post of the drilling post of the | ng reclamation, plan: " production tions detailed | SEE ATT | Aug 1 6 2013 CORPORATION ONS OF API Oted for records | D BIA PROV |
| 14. I hereby certify that the foregoing is | true and correct. Electronic Submission #215 | 244 verified by | the RI M Well | Information 9 | System | NMOCDE | 7/- |
| | For OCCIDENTA Committed to AFMSS for p | L PERMIAN LP, | , sent to the (| Carlsbad | | st. | 9/2012 |
| Name(Printed/Typed) DAVID S | | Title | | SULATORY A | ., | 0/* | *) |
| Signature (Electronic S | | Date | | 1 | APPR | OVED | 7 |
| Signature (Electronic S | THIS SPACE FOR | FEDERAL O | 0.700,20 | | | OVED | + |
| | | | | | | 1 5 2013 | +- |
| Approved By | | Titl | le | | AUG | | لج |
| Conditions of approval, if any, are attached ertify that the applicant holds legal or equiplich would entitle the applicant to condu | itable title to those rights in the sub | warrant or | | | BUREAU OF LA | MD MANAGEMENT FIELD OFFICE | / |
| itle 18 U.S.C. Section 1001 and Title 43 | U.S.C. Section 1212, make it a crin | ne for any person i | knowingly and v | willfully to make | | | 1 |

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional data for EC transaction #215244 that would not fit on the form

32. Additional remarks, continued

a. Surface Casing-11-3/4" 47# J-55 BT&C new csq @ 0-690', 14-3/4" hole w/ 8.6# mud

Coll Rating (psi)-1510 Burst Rating (psi)-3070 SF Coll-5.01 SF Burst-1.43 SF Ten-5.76

b.Intermediate Casing-8-5/8" 32# J-55 LT&C new csg @ 0-2500', 10-5/8" hole w/ 10.2# mud

Coll Rating (psi)-2530 Burst Rating (psi)-3930 SF Coll-4.23 SF Burst-1.43 SF Ten-2.47

c.Production Casing 5-1/2" 17# L-80 BT&C new csg @ 0-12749'M, 7-7/8" hole w/ 9.4# mud

Coll Rating (psi)-6290 Burst Rating (psi)-7740 SF Coll-1.56 SF Burst-1.25 SF Ten-1.77

Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for design assumptions

a. Surface - Circulate cement to surface w/ $\underline{310sx}$ PP cmt w/ 1% CaCl2 + 4% Bentonite + .25#/sx Poly-E-Flake, 13.5ppg 1.73 yield 1006# 24hr CS 125% Excess followed $\underline{190sx}$ PP cmt w/ 2% CaCl2, 14.8ppg 1.35 yield 1346# 24hr CS 150% Excess.

b. Intermediate - Circulate cement to surface <u>w/ 500s</u>x HES light PP cmt w/ 3% Salt + .125#/sx Poly-E-Flake + 3#/sx Kol-Seal, 12.9ppg 1.85 yield 500# 24hs CS 125% Excess followed by <u>210sx PP cmt</u> w/ 1% CaCl2, 14.8ppg 1.34 yield 1650# <u>24hr CS</u> 125% Excess.

c. Production - Cement w/ 600sx Tuned Light cmt w/ 14.8#/sx Silicalite 50/50 Blend + 15#/sx Scotchlite HGS-6000 w/ .5#/sx CFR-3 + .15#/sx WG-17 + 1#/sx Cal-Seal 60 + 1.5# salt + 2% CaCl2 + .2#/sx HR-800 + .125#/sx Poly-E-Flake + 3#/sx Kol-Seal 10.2ppg 2.94 vield 947# 24hr CS 100% Excess followed by 760sx Super H cmt w/ 3#/sx salt + .4% CFR-3 + .5% Halad-344 + .2% HR-601, 13.2ppg 1.66 vield 1447# 24hr CS 30% Excess. Calc TOC-2000'

Description of Cement Additives: Calcium Chloride, Cal Seal 60, Salt (Accelerator); Silicalite (Additive Material); CFR-3 (Dispersant); WG-17 (Gelling Agent); Bentonite, Schotchlite HGS-6000 (Light Weight Additive); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-601, HR-800 (Retarder)

The above cement volumes could be revised pending the caliner measurement.

The above cement volumes could be revised pending the caliper measurement.

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

CSG Test (Production)

- Internal: Displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- o Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Intermediate/Production)

• Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Intermediate/Production)

• Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Occidental Permian Limited Partnership

LEASE NO.: NMNM-36975

WELL NAME & NO.: Stent 21 Federal Com 2H SURFACE HOLE FOOTAGE: 0050' FSL & 2000' FWL BOTTOM HOLE FOOTAGE 0330' FNL & 1700' FWL

FOM HOLE FOOTAGE | 0330' FNL & 1700' FWL LOCATION: | Section 21, T. 24 S., R 28 E., NMPM

COUNTY: Eddy County, New Mexico

API: 30-015-41221

The original COAs still stand with the following drilling modifications:

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. If the Communitization Agreement number is known, it shall also be on the sign. If not, it shall be placed on the sign when the sign is replaced.

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is encountered in quantities greater than 10 PPM the well shall be shut in and H2S equipment shall be installed and flare line must be extended pursuant to Onshore Oil and Gas Order #6. After detection, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items.

- 1. The 11-3/4 inch surface casing shall be set at approximately 690 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

NOTE: If operator chooses to utilize a contingency DVT plan, a sundry is required.

- 2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High Cave/Karst

Possibility of lost circulation in the Triassic Redbeds and in the Castile Group.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 081513