UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| OCD | Artesia |
|-----|---------|
|-----|---------|

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

| Lease Serial No. |
|------------------|
| NMNM94651 |

| SUNDRY NOTICES AND REPORTS ON WELLS | - NN |
|---|---------|
| Do not use this form for proposals to drill or to re-enter an | - 161 |
| handoned well. Use form 3160-3 (APD) for such proposals | 6. If I |

| Do not use this form for proposals to drill or to re-enter an | | | | | 14141141010-1051 | | | |
|---|---|--|--|--|--|---|----------------------|--|
| abandoned we | 6. If Indian, Allottee or | 6. If Indian, Allottee or Tribe Name | | | | | | |
| SUBMIT IN TRIPLICATE - Other instructions on reverse side. | | | | | 7. If Unit or CA/Agree | 7. If Unit or CA/Agreement, Name and/or No. | | |
| 1. Type of Well ☐ Gas Well ☐ Other | | | | | 8. Well Name and No. CEDAR CANYON 27 FEDERAL 6H | | | |
| Name of Operator OXY USA WTP LIMITED PTN | ART | | 9. API Well No. 30-015-43232-00-X1 | | | | | |
| 3a. Address MIDLAND, TX 79710-0250 | | include area code -5717 5742 | e) | 10. Field and Pool, or Exploratory PIERCE CROSSING | | | | |
| 4. Location of Well (Footage, Sec., 7 | | | 11. County or Parish, and State | | | | | |
| Sec 28 T24S·R29E NESE 18: 32.186244 N Lat, 103.981097 | | | EDDY COUNTY, NM | | | | | |
| ² 12. CHECK APP | ROPRIAȚE BOX(ES) TC | INDICATE 1 | NATURE OF | NOTICE, I | REPORT, OR OTHER | ₹ DATA | | |
| TYPE OF SUBMISSION | TYPE OF SUBMISSION | | | F ACTION | | ŧ | | |
| Notice of Intent | ☐ Acidize | ☐ Deep | en | ☐ Produ | ction (Start/Resume) | □ Water Shu | ıt-Off | |
| | ☐ Alter Casing | ☐ Fract | ire Treat | ☐ Recla | mation | ☐ Well Integ | grity ' | |
| ☐ Subsequent Report | ☐ Casing Repair | □ New | Construction | ☐ Řecor | nplete | Other | Change to Original A | |
| ☐ Final Abandonment Notice | ☐ Change Plans | Plug | and Abandon | □ Temp | orarily Abandon | Change to O | | |
| | ☐ Convert to Injection | Plug | g Back | | Disposal | - ~ | | |
| following completion of the involved testing has been completed. Final A determined that the site is ready for formula of the complete of the | bandonment Notices shall be file inal inspection.) quests approval for the foll | ed only after all re | quirements, inclu | ding reclamat | ion, have been completed, a | ind the operator h | ias / | |
| Proposed TD - 13824'M 8810 | 'V | | | SFF | ATTACHED FO | D | | |
| Request casing design mod | dification, to set deep inter | mediate casin | g. | | | • • | , | |
| a. Add DV tool and ACP +/- 3 surface during first stage cem for the DV tool. | 000' for contingency seco ent job we will inflate the y | nd stage ceme ACP and then | ent job. If ceme drop the canc | ent comes t elation cond | UITIONS OF A | PPROVAL | • | |
| b. Set the casing string within affect our planned KOP. If de | +/- 100' of the planned se eper, cement volumes will | t point depend be increased | ling on how fo appropriately. | rmation top | ACCEPTEC | 9/3/15 d for record OCD | 3 | |
| 14. I hereby certify that the foregoing i | s true and correct. Electronic Submission #3 | 313571 varified | by the RI M W | ali Informati | on System | | | |
| | For OXY USA WT | P LIMITED P#1 | NRSHIP, sent t | o the Carlst | ad | | | |
| Name (Printed/Typed) DAVID S | tted to AFMSS for processi | ing by CHRIS | | EGULATO | | | | |
| · · · · · · · · · · · · · · · · · · · | IEVVANI | | THE SK. K | EGPLATOR | HTTONUVE | <u> </u> | | |
| Signature (Electronic | Submission) | | Date 08/24/ | | Teungku Muchlis | Krueng | | |
| , | THIS SPACE FO | R FEDERA | OR STATE | OFFICE | USELF - 1 6013 | Burnar | , | |
| Approved By | | | Title | | REAU OF LAND MANAG | | | |
| Conditions of approval, if any, are attached | . 1110 | | CARLSBAD FIELD OFF | | | | | |
| certify that the applicant holds legal or eq which would entitle the applicant to cond | uitable title to those rights in the | | Office | | | | • | |
| Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent | U.S.C. Section 1212, make it a statements or representations as | crime for any per to any matter wit | son knowingly ar hin its jurisdiction | nd willfully to n. | make to any department or | agency of the Ur | nited | |

Additional data for EC transaction #313571 that would not fit on the form

32. Additional remarks, continued

Intermediate Casing 7-5/8" 29.7# L-80 BT&C new csg @ 0-8000', 9-7/8" hole w/ 9.0# mud

Coll Rating (psi)-4790 Burst Rating (psi)-6890 SF Coll-2.48 SF Burst-1.42 SF Ten-2.29

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

2. Cement program modifications detailed below.

a. Intermediate - Circulate cement to surface w/ 1070sx Tuned Light (TM) system cmt w/ 3#/sx Kol-Seal + .125#/sx Poly-E-Flake + .8% HR-601, 10.2ppg 3.05 yield 500# in 15.07hr CS 125% Excess followed by 100sx Super H cmt w/ 3#/sx salt + .1% HR-800 + .3% CFR-3 + .5% Halad(R)-344 + 2#/sx Kol-Seal, 13.2ppg 1.65 yield 500# in 12.57hr CS 15% Excess.

Contingency 2nd Stage - Circulate cement to surface w/ 470sx HES light PP cmt w/ 5% Sait + .1% HR-800, 12.9ppg 1.85 yield 500# in 12.44hr CS 75% Excess followed by 180sx PP cmt, 14.8ppg 1.33 yield 500# in 6.31hr CS 125% Excess.

b. Production - Cement w/ 520sx Super H cmt w/ 3#/sx salt + .1% HR-800 + .3% CFR-3 + .5% Halad(R)-344 + 2#/sx Kol-Seal, 13.2ppg 1.65 yield 500# in 12.57hr CS 50% Excess. Estimated TOC @ 7000'

Description of Cement Additives: Salt (Accelerator); CFR-3 (Dispersant); 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 caliper measurement.

3. Mud Program Depth Mud WT Vis Sec Fluid Loss Type 0-500' 8.5-9.0 40-55 50-75cc/30min EnerSeal Spud Mud (MMH) 500-3000' 9.8-10 28-32 NC NaCl Brine 38-50 28-32 3000-8000' 9.0-9.4 50-75cc/30min EnerSeal (MMH) Cut Brine 8000'-TD 8.8-9.6 NC

Remarks: The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Oxy proposes to drill out the 10-3/4" surface casing shoe with a saturated brine system from 500-3000', which is the base of the salt system. At this point we will swap fluid systems to a high viscosity mixed metal hydroxide system. We will drill with this system to the intermediate TD @ 8000'

We are also proposing to change the production mud system back to a cut brine system.

OXY USA Inc. Cedar Canyon 27/28 Federal

Casing Design Assumptions:

Burst Loads

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: Fresh water 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 (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 (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 (Intermediate/Production)

- 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 (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 (Intermediate/Production)

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

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

Conditions of Approval

Oxy USA WTP LP Cedar Canyon 27 Fed 6H 30-015-43232

- 1. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - a. First stage to DV tool:
 - □ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

Operator has proposed a contingency DV tool at 3000'. If operator circulates cement on the first stage, operator is approved to inflate the ACP and run the DV tool cancellation plug and cancel the second stage of the proposed cement plan. If cement does not circulate, operator will inflate ACP and proceed with the second stage.

- b. Second stage above DV tool:
- □ Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Cave/Karst.