

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
OCD Artesia  
**OCT 20 2017**

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM85893

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

8. Well Name and No.  
CEDAR CANYON 21-22 FEDERAL COM 321

9. API Well No.  
30-015-44176-00-X1

10. Field and Pool or Exploratory Area  
PURPLE SAGE-WOLFCAMP (GAS)  
WOLFCAMP

11. County or Parish, State  
EDDY COUNTY, NM

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
OXY USA INC  
Contact: DAVID STEWART  
E-Mail: david\_stewart@oxy.com

3a. Address  
MIDLAND, TX 79710  
3b. Phone No. (include area code)  
Ph: 432-685-5717

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 21 T24S R29E SWNW 1794FNL 141FWL  
32.205326 N Lat, 103.997551 W Lon

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |   |  |   |
|--|---|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                                 |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                                 |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other<br>Change to Original A<br>PD |
|  | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       |   |
|  | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

OXY USA Inc. respectfully requests approval for the following change from the approved permit.  
Change the production casing design from a 5-1/2" liner to a 5-1/2" X 5" tapered production string.

See attached for the detail.

*OC 10-20-17*  
Accepted for record - NMOCD

*All previous COAs still*

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #390051 verified by the BLM Well Information System  
For OXY USA INC, sent to the Carlsbad  
Committed to AFMSS for processing by CHARLES NIMMER on 10/11/2017 (18CN0002SE)**

Name (Printed/Typed) DAVID STEWART Title SR. REGULATORY ADVISOR

Signature (Electronic Submission) Date 09/27/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By CHARLES NIMMER Title PETROLEUM ENGINEER Date 10/11/2017

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

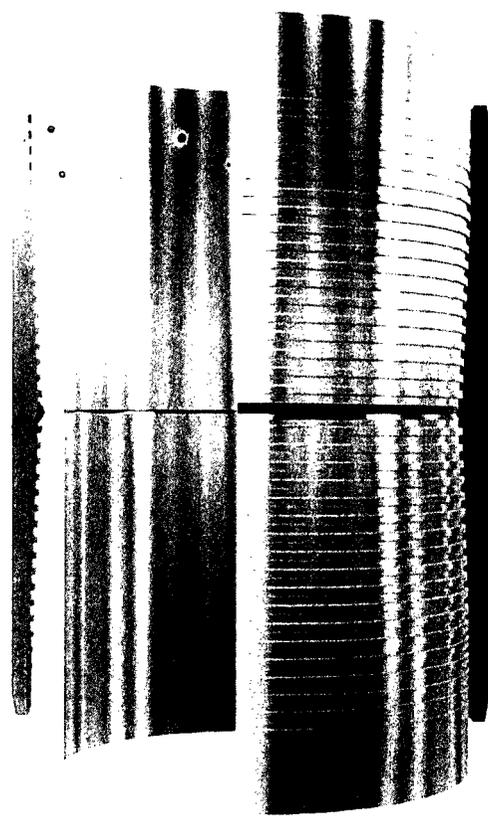
(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

|                     |       |                 |                              |         |     |
|---------------------|-------|-----------------|------------------------------|---------|-----|
| Size                | 5.000 | in              | Minimum Yield                | 110,000 | psi |
| Nominal Weight      | 18.00 | lbs/ft          | Minimum Tensile              | 125,000 | psi |
| Grade               | P-110 |                 | Yield Load                   | 580,000 | lbs |
| PE Weight           | 17.93 | lbs/ft          | Tensile Load                 | 659,000 | lbs |
| Wall Thickness      | 0.362 | in              | Min. Internal Yield Pressure | 13,940  | psi |
| Nominal ID          | 4.276 | in              | Collapse Pressure            | 13,470  | psi |
| Drift Diameter      | 4.151 | in              |                              |         |     |
| Nom. Pipe Body Area | 5.275 | in <sup>2</sup> |                              |         |     |

|                              |         |                 |
|------------------------------|---------|-----------------|
| Connection OD                | 5.563   | in              |
| Connection ID                | 4.276   | in              |
| Make-Up Loss                 | 4.097   |                 |
| Critical Section Area        | 5.275   | in <sup>2</sup> |
| Tension Efficiency           | 100.0   |                 |
| Compression Efficiency       | 100.0   |                 |
| Yield Load In Tension        | 580,000 | lbs             |
| Min. Internal Yield Pressure | 13,940  | psi             |
| Collapse Pressure            | 13,470  | psi             |
| Uniaxial Be                  | 1.1     | in/ft           |

|                     |    |        |
|---------------------|----|--------|
| Min. Make-Up Torque | 80 | ft-lb  |
| Ont. Make-Up Torque |    | ft-lbs |
| Max. Make-Up        |    | ft     |



Attachment 3160-5  
 OXY USA Inc.  
 Cedar Canyon 21-22 Federal Com #32H – 30-015-44176

| Hole Size | Casing Interval |         | Csg. Size (in) | Weight (lbs/ft) | Grade | Conn. | Safety Factor |       |              |               |
|-----------|-----------------|---------|----------------|-----------------|-------|-------|---------------|-------|--------------|---------------|
|           | From (ft)       | To (ft) |                |                 |       |       | Collapse      | Burst | Body Tension | Joint Tension |
| 8.5       | 0               | 9830    | 5.5            | 20              | P-110 | DQX   | > 1.125       | > 1.2 | > 1.4        | > 1.4         |
| 8.5       | 9830            | 19921   | 5              | 18              | P-110 | DQX   | > 1.125       | > 1.2 | > 1.4        | > 1.4         |

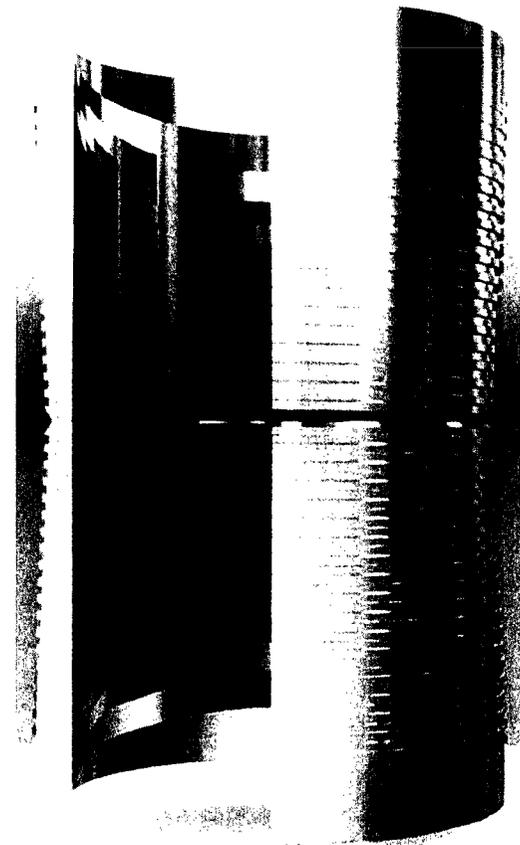
| Casing            | Top of Lead (ft) | Bottom of Lead (ft) | Top of Tail (ft) | Bottom of Tail (Ft) | % Excess Lead | % Excess Tail |
|-------------------|------------------|---------------------|------------------|---------------------|---------------|---------------|
| Production Casing | N/A              | N/A                 | 8200             | 19921               |               | 15%           |

| Casing            | #Sks  | Wt. (Lb/gal) | Yld ft3/sack | H2O gal/sk | 500psi Comp. Strength | Slurry Description  |
|-------------------|-------|--------------|--------------|------------|-----------------------|---|
| Production Casing | 2,505 | 13.2         | 1.35         | 6.57       | 8:06                  | Class H Cement, Retarder, Low Fluid Loss Control, Dispersant Salt |

|                     |       |                 |                              |         |     |
|---------------------|-------|-----------------|------------------------------|---------|-----|
| Size                | 5.500 | in              | Minimum Yield                | 110,000 | psi |
| Nominal Weight      | 20.00 | lbs/ft          | Minimum Tensile              | 125,000 | psi |
| Grade               | P-110 |                 | Yield Load                   | 641,000 | lbs |
| PE Weight           | 19.81 | lbs/ft          | Tensile Load                 | 729,000 | lbs |
| Wall Thickness      | 0.361 | in              | Min. Internal Yield Pressure | 12,600  | psi |
| Nominal ID          | 4.778 | in              | Collapse Pressure            | 11,100  | psi |
| Drift Diameter      | 4.65  | in              |                              |         |     |
| Nom. Pipe Body Area | 828   | in <sup>2</sup> |                              |         |     |

|                              |        |                 |
|------------------------------|--------|-----------------|
| Connection OD                | 6.150  | in              |
| Connection ID                | 4.778  | in              |
| Make-Up Loss                 | 4.22   | in              |
| Critical Section Area        | 5.328  | in <sup>2</sup> |
| Tension Efficiency           | 1.00   |                 |
| Compression Efficiency       | 1.00   |                 |
| Yield Load In Tension        | 4,000  | lbs             |
| Min. Internal Yield Pressure | 12,600 | psi             |
| Collapse Pressure            | 11,100 | psi             |

|                     |       |       |
|---------------------|-------|-------|
| Min. Make-Up Torque | 1     | ft-lb |
| Max. Make-Up Torque | 1     | ft-lb |
| Min. Tension        | 1     | ft-lb |
| Max. Tension        | 2,000 | ft-lb |



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