Form 3160-5 (August 2007)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD Artesia

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

SUNDRY NOTICES AND Do not use this form for propo abandoned well. Use form 316	NMNM86024  6. If Indian, Allottee or Tribe Name  7. If Unit or CA/Agreement, Name and/or No.	
SUBMIT IN TRIPLICATE - Other		
1. Type of Well ☐ Gas Well ☐ Other		Well Name and No.     CYPRESS 34 FEDERAL 9H
Name of Operator     OXY USA INCORPORATED	Contact: DAVID STEWART	9. API Well No. .30-015-42088-00-X1
3a. Address 5 GREENWAY PLAZA STE 110 HOUSTON, TX 77046-0521	3b. Phone No. (include area code) Ph: 432.685.5717	10. Field and Pool, or Exploratory CEDAR CANYON
4. Location of Well (Footage, Sec., T., R., M., or Survey D	Description)	11. County or Parish, and State
Sec 34 T23S R29E SESE 279FSL 1070FEL 32.254607 N Lat, 103.966871 W Lon		EDDY COUNTY, NM
12. CHECK APPROPRIATE BOX	((ES) TO INDICATE NATURE OF NOTICE,	REPORT, OR OTHER DATA

Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for design assumptions  Original COA ST.II Applies  14. I hereby certify that the foregoing Crue and correct.  Electronic Submission #239799 verified by the BLM Well Information system For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 04/17/2014 (14KMS8215SE)  Name (Printed/Typed) DAVID STEWART  Title REGULATORY ADVISOR  APR 2 1 2014  Signature (Electronic Submission)  Date 03/25/2014  THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
2. Name of Operanor OXY USA INCORPORATED  3a. Address 5 GREENWAY PLAZA STE 110   3b. Phone No. (include area code) Pht. 432.685.5717   10. Field and Pool. or Exploratory CEDAR CANYON Pht. 432.685.5717   11. County or Parish, and State EDDY COUNTY, NM  12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  13. Oscillation of Well (Francisco)   Acidize						
5 GREENWAY PLAZA STE 110 HOUSTON, TX 77046-0521  4. Location of Well (Footage, Sec., T. R. M., or Survey Descriptions)  11. County or Parish, and State Sec 34 T235 R29E SESSE 279FSL 1070FEL 32.254607 N Lat, 103.966871 W Lon  12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  Notice of Intent Alter Casing Change Plans Preduction (Start/Resume) Change Plans Preduction (Start/Resume) Well Integrity Change Plans Preduction (Start/Resume) Well Integrity Change Plans Preduction (Start/Resume) Well Integrity Well Integrity Well Integrity Well Integrity Preduction (Start/Resume) Printle Proposed or Complete Operation (Start/Resume) Printle Proposed or Complete Operation (Start/Resume) Convert to Injection Plug and Abandon Temporarily Abandon Temporarily Abandon Water Disposal Integrity Well	2. Name of Operator	TEWART				
4. Location of Well (Finishings, Sec. T. R. M., or Survey Description)  Sec 34 T235 R295 ESES 279FSL 1070FEL  32.254607 N Lat, 103.966871 W Lon  12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF SUBMISSION  Alter Casing Casing Repair Casing Practure Treat Casing Repair Casing Practure Treat Casing Coher Casing Plug and Abandon Convert to Injection Convert To Injecti	5 GREENWAY PLAZA STE 1					
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  Notice of Intent  Alter Casing Subsequent Report Casing Repair New Construction Recomplete Convert to Injection Plug and Abandon Temporarily Abandon Temporarily Abandon Drilling Operations  13. Describe Proposed or Completed Operation (education studies) studying estimated starting date of any proposed work and approximate duration thereof. If the proposal is no depen 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 BLMNAIN. Required substract reports shall be filed only after all requirements, including reclamation, have been completed. Blick 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 31604-4 shall be filed only after all requirements, including reclamation, have been completed. Blick within 30 days following completion or a set is ready for final inspection.)  OXY USA Inc. respectfully requests approval for the following change to the drilling plan:  Casing design modification, 5-1/2" 17# L-80 BTC csg. Details are below.  Production Casing S-1/2" 17# L-80 BT&C new csg @ 0-13222 M, 7-7/8" hole w/ 9.2# mud  Coll Pating (pss)-8290 Burst Rating (pss)-7740  SF Coll-1.46 SF Burst-1.22 SF Ten-1.71  Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for Production Casing S-1/2" 17# L-80 BT&C new csg @ 0-13222 M, 7-7/8" hole w/ 9.2# mud  Coll Rating (pss)-8290 Burst Rating (pss)-7740  SF Coll-1.46 SF Burst-1.22 SF Ten-1.71  Recellation of 47/85 in processing by NUTS intervals on 04/17/2014 (14xMS2215SE)  Name(Printed/Typed) DAVID STEWART  This SPACE FOR FEDERAL OR STATE OFFICE USE		R., M., or Survey Description)		11. County o	r Parish, and State	
TYPE OF SUBMISSION  TYPE OF ACTION    Acidize   Deepen   Production (Start/Resume)   Water Shut-Off			,	EDDY C	OUNTY, NM	
Notice of Intent	12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
Alter Casing   Fracture Treat   Reclamation   Well Integrity	TYPE OF SUBMISSION		TYPE OF	ACTION		
3. 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 borizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work with the performed or provide the Bond No. on file with BLM/Required subsequent reports shall 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 shall be filed one of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed one of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed one of the string has been completed. Final Abandoment Notices shall 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 to the drilling plan:  Casing design modification, 5-1/2" 17# L-80 BT&C new csg @ 0-13222'M, 7-7/8" hole w/ 9.2# mud  Coll Rating (psi)-6290 Burst Rating (psi)-7740  SF Coll+1.46 SF Burst-1.22 SF Ten-1.71  Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for Recompleted and the operator submission #239799 verified by the BLM Well Information system  For OXY USA INCORPORATED, sent to the Carlebad Committed to AFMSS for processing by KURT SIMMONS on 04/17/2014 (14KMS821SE)  Name(Printed/Typed) DAVID STEWART  This SPACE FOR FEDERAL OR STATE OFFICE USE  THIS SPACE FOR FEDERAL OR STATE OFFICE USE	☐ Subsequent Report	☐ Alter Casing ☐ ☐ Casing Repair ☐	Fracture Treat New Construction	Reclamation Recomplete	■ Well Integrity  ☑ Other  Drilling Operations	
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 BLMPBIA. Required subsequent reports shall 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 shall 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 to the drilling plan:  Casing design modification, 5-1/2" 17# L80 BTC csg. Details are below.  Production Casing 5-1/2" 17# L-80 BT&C new csg @ 0-13222'M, 7-7/8" hole w/ 9.2# mud  Coll Rating (psi)-6290 Burst Rating (psi)-7740  SF Coll-1.46 SF Burst-1.22 SF Ten-1.71  Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for design assumptions  Original COA ST.II Applies  14. Thereby certify that the foregoing Grae and correct.  Electronic Submission #239799 verified by the BLM Well Information system  For OXY USA INCORPORATED, sent to the Carlebad  Committed to AFMSS for processing by KURT SIMMONS on 04/17/2014 (14KMS821SSE)  Name(Printed/Typed) DAVID STEWART  Title REGULATORY ADVISOR  THIS SPACE FOR FEDERAL OR STATE OFFICE USE	☐ Final Abandonment Notice		-		1 Strining Operations	
Committed to AFMSS for processing by KURT SIMMONS on 04/17/2014 (14KMS8215SE)   RECEIVED     Name(Printed/Typed)   DAVID STEWART   Title   REGULATORY ADVISOR     Signature   (Electronic Submission)   Date   03/25/2014     THIS SPACE FOR FEDERAL OR STATE OFFICE USE	following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall 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 to the drilling plan:  Casing design modification, 5-1/2" 17# L80 BTC csg. Details are below.  Production Casing 5-1/2" 17# L-80 BT&C new csg @ 0-13222'M, 7-7/8" hole w/ 9.2# mud  Coll Rating (psi)-6290 Burst Rating (psi)-7740 SF Coll-1.46 SF Burst-1.22 SF Ten-1.71  Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for					
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	Signature (Electronic S	Submission)	Date 03/25/20	014	APR 2 1 ZUI4	
	THIS SPACE FOR FEDERAL OR STATE OFFICE USE					
Approved By EDWARD FERNANDEZ	_Approved_By_EDWARD_FERNAN	DEZ	TitlePETROLE	JM ENGINEER	Date 04/17/2014	

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.

## OXY USA Inc Cypress 34 Federal #9H

## **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)

- 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 pressure + 500 psi)

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

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