

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 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.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM86024
2. Name of Operator OXY USA INC.		6. If Indian, Allottee or Tribe Name
Contact: DAVID STEWART E-Mail: david_stewart@oxy.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address P.O. BOX 50250 MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 432-685-5717 Fx: 432-685-5742	8. Well Name and No. CYPRESS 28 FEDERAL 6H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T23S R29E SESW 330FSL 2000FWL 32.269380 N Lat, 103.992520 W Lon		9. API Well No. 30-015-41138
		10. Field and Pool, or Exploratory HARROUN RANCH DELAWARE, NE
		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	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"/> Fracture Treat	<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
	<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 recompleat 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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 request a two year extension on this APD, it was approved 2/7/13.

*OCD 6/30/15*  
*Accepted for record*  
*NMOC*

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
JUN 29 2015  
**RECEIVED**

*Not needed; well spud prior to expiration.*

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #284822 verified by the BLM Well Information System For OXY USA INC., sent to the Carlsbad Committed to AFMSS for processing by DEBORAH HAM on 06/12/2015	
Name (Printed/Typed)	DAVID STEWART	Title	SR. REGULATORY ADVISOR
Signature	(Electronic Submission)	Date	12/11/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		<b>ACCEPTED FOR RECORD</b> JUN 22 2015 <i>D. Ham</i> BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
Approved By _____		Title _____	
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 _____	

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

OCD Artesia

Form 3160-3  
(April 2004)

## R-111-POTASH

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTERFORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM#86024
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA Inc. 16696		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. Box 50250 Midland, TX 79710		8. Lease Name and Well No. Cypress 28 Federal #6H
3b. Phone No. (include area code) 432-685-5717		9. API Well No. 30-015- 41138
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 330 FSL 2000 FWL SESW(N) At proposed prod. zone 330 FNL 1700 FWL NENW(C)		10. Field and Pool, or Exploratory Windcat 2nd Bone Springs 11. Sec., T. R. M. or Blk. and Survey or Area Sec 28 T23S R29E
14. Distance in miles and direction from nearest town or post office* 6 miles northeast from Loving, NM		12. County or Parish Eddy
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 330'		13. State NM
16. No. of acres in lease 1440		17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1330'		20. BLM/BIA Bond No. on file NMB000962 - ESB00226 - 022032304
19. Proposed Depth 13018'M 8674'M ✓		21. Estimated duration 45 days
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3020.8' GL		22. Approximate date work will start* 01/01/2013

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>David Stewart</i>	Name (Printed/Typed) David Stewart	Date 10/25/12
Title Regulatory Advisor david_stewart@oxy.com		
Approved by (Signature) <i>Aden Seidlitz</i>	Name (Printed/Typed) Aden Seidlitz	Date FEB 7 2013
Title STATE DIRECTOR NM STATE OFFICE		

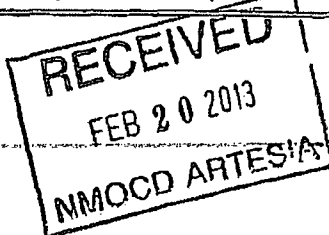
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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)



Carlsbad Controlled Water Basin

Approval Subject to General Requirements  
& Special Stipulations AttachedSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

District I  
1625 N. Francis Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Azusa, NM 88410  
Phone: (575) 742-1283 Fax: (575) 742-9720  
District III  
1600 Rio Grande Road, Azusa, NM 87410  
Phone: (505) 334-6173 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-41138</b>	Pool Code <b>96857</b>	Pool Name <b>W-1402 and Bona Springs</b>
Property Code <b>37803</b>	Property Name <b>CYPRESS "28" FEDERAL</b>	Section Number <b>6H</b>
OGRID No. <b>16646</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>3020.8'</b>

**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	28	23 SOUTH	29 EAST, N.M.P.M.		330'	SOUTH	2000'	WEST	EDDY

**Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	23 SOUTH	29 EAST, N.M.P.M.		330'	NORTH	1700'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>160</b>	<b>N</b>		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p><b>BOTTOM HOLE LOCATION</b> NEW MEXICO EAST NAD 1927 Y=466544.7 X=605335.7 LAT.: N 32.2821887 LONG.: W 103.9924879</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land (including the proposed bottom hole location) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order.</p> <p>Authorized by the Division Signature: <i>David Stewart</i> Date: <b>10/25/12</b> David Stewart Reg. A.C.W. Email Address: <b>David.Stewart@oxy.com</b></p>
	<p><b>SURFACE LOCATION</b> NEW MEXICO EAST NAD 1927 Y=461885.0 X=605869.2 LAT.: N 32.2693760 LONG.: W 103.9914569</p>	<p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the information contained on this plat was plotted from field notes of known accuracy made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>SEPTEMBER 27, 2012 Date of Survey Signature and Seal: <i>Tommy J. Asel</i> Professional Surveyor Certificate Number: <b>15079</b></p>

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OMB APPROVED

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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3a. Address P.O. BOX 50250 MIDLAND, TX 79710		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-685-5717 Fx: 432-685-5742		8. Well Name and No. CYPRESS 28 FEDERAL 6H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T23S R29E SESW 330FSL 2000FWL 32.269380 N Lat, 103.991460 W Lon		9. API Well No. 30-015-41138
		10. Field and Pool, or Exploratory HARROUN RANCH DELAWARE NE ✓
		11. County or Parish, and State EDDY COUNTY, NM

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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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 changes to the drilling plan:

1. Change the Target formation from the 2nd Bone Spring to the Delaware Brushy Canyon. See attached for amended C-102 and new directional plan.

Projected TD: 10966'M-6583'V

2. Casing design modification, to drill the well with smaller bit sizes:

14-3/4" surface hole w/ 13-3/4" csg. 10-5/8" intermediate hole w/ 8-5/8" csg. and 7-7/8" production hole w/ 5-1/2" csg. Details are below.

3. Cement program adjustment to the new bit/casing sizes. Cement program modifications detailed

SEE ATTACHED FOR  
CONDITIONS OF APPROV

RECEIVED

DEC 02 2013

NMOCD ARTESIA

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #221375 verified by the BLM Well Information System  
For OXY USA INC., sent to the Carlsbad  
Committed to AFMSS for processing by JOHNNY DICKERSON on 10/21/2013 ()

Name (Printed/Typed) DAVID STEWART

Title SR. REGULATORY ADVISOR

Signature (Electronic Submission)

Date 09/27/2013

Accepted for record  
NMOCD 10/1/13

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

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

NOV 27 2013  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

OPD 11/22/13

**Additional data for EC transaction #221375 that would not fit on the form**

**32. Additional remarks, continued**

below.

**a. Surface Casing-**

11-3/4" 47# J-55 BT&C new csg @ 0-350', 14-3/4" hole w/ 8.5# mud

Coll Rating (psi)-1510 Burst Rating (psi)-3070

SF Coll-9.80 SF Burst-1.43 SF Ten-6.50

**b. Intermediate Casing-**

8-5/8" 32# J-55 LT&C new csg @ 0-3000', 10-5/8" hole w/ 10.2# mud

Coll Rating (psi)-2530 Burst Rating (psi)-3930

SF Coll-2.54 SF Burst-1.30 SF Ten-2.31

**c. Production Casing**

5-1/2" 17# L-80 BT&C new csg @ 0-10966'M, 7-7/8" hole w/ 9.2# mud

Coll Rating (psi)-6290 Burst Rating (psi)-7740

SF Coll-1.99 SF Burst-1.20 SF Ten-2.02

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

a. Surface - Circulate cement to surface w/ 180sx PP cmt w/ 4% Bentonite + 1% CaCl<sub>2</sub> + .25#/sx Poly-E-Flake, 13.5ppg 1.73 yield 1006# 24hr CS 165% Excess followed by 90sx PP cmt w/ 2% CaCl<sub>2</sub>, 14.8ppg 1.35 yield 1346# 24hr CS 165% Excess.

b. Intermediate - Circulate cement to surface w/ 550sx HES light PP cmt w/ 5% Salt + 3#/sx Kol-Seal + .125#/sx Poly-E-Flake, 12.9ppg 1.87 yield 625# 24hr CS 105% Excess followed by 170sx PP cmt w/ 1% CaCl<sub>2</sub>, 14.8ppg 1.34 yield 2125# 24hr CS 105% Excess.

c. Production - Cement w/ 560sx 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% CaCl<sub>2</sub>, 10.2ppg 2.95 yield 450# 24hr CS (500#-30hr) 100% Excess followed by 760sx Super H cmt w/ 3#/sx salt + .4% CFR-3 + .5% Halad-344 + .2% HR-800, 13.2ppg 1.64 yield 1263# 24hr CS 40% Excess.

Contingency 2nd Stage- DVT @ 3100' If lost circulation is present in the first stage and cement is not brought to surface, the contingency 2nd stage will be pumped as follows:

Circulate cement w/ 240sx HES light PP cmt w/ 3#/sx Salt, 12.4ppg 2.05 yield 450# 24hr (500#-28hr) CS 10% Excess followed by 100sx PP cmt, 14.8ppg 1.33 yield 1849# 24hr CS 50% Excess.

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

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

District I  
 1001 N. French Dr., Hobbs, NM 88240  
 Phone: (505) 393-4101 Fax: (505) 393-0720  
 District II  
 811 S. 7th St., Artesia, NM 88210  
 Phone: (505) 746-1253 Fax: (505) 746-0730  
 District III  
 1000 Las Brisas Road, Aztec, NM 87410  
 Phone: (505) 334-4179 Fax: (505) 334-4179  
 District IV  
 1100 S. St. Francis Dr., Santa Fe, NM 87503  
 Phone: (505) 475-3460 Fax: (505) 475-3460

State of New Mexico  
 Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

Form C-102  
 Revised August 1, 2011  
 Submit one copy to appropriate  
 District Office

☒ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-41138</b>	Pool Code <b>96878</b>	Pool Name <b>Hammann Ranch Delaware, NE</b> ✓
Property Code <b>37803</b>	Property Name <b>CYPRESS "28" FEDERAL</b>	Well Number <b>6H</b>
OGRIID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>3020.8'</b>

**Surface Location**

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
<b>N</b>	<b>28</b>	<b>23 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>330'</b>	<b>SOUTH</b>	<b>2000'</b>	<b>WEST</b>	<b>EDDY</b>

**Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>28</b>	<b>23 SOUTH</b>	<b>29 EAST, N.M.P.M.</b>		<b>330'</b>	<b>NORTH</b>	<b>1700'</b>	<b>WEST</b>	<b>EDDY</b>

Dedicated Acres <b>1.60</b>	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with its owner of such a working interest, or as a voluntary pooling agreement or a compulsory pooling order.</p> <p>Authorized by the Operator  <i>[Signature]</i> 9/20/13      David Starn - SRP - NW.      david.starn-t@oxy.com   </p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with its owner of such a working interest, or as a voluntary pooling agreement or a compulsory pooling order.</p> <p>Date of Survey: <b>SEPTEMBER 21, 2013</b>      Signature and Seal of Professional Surveyor: <i>[Signature]</i> 10/1/2012      Certificate Number: <b>15079</b>      WOB 120525H-0 (Rev. 1) (NW)   </p>
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