

RECEIVED: <u>8/15/2017</u>	REVIEWER: <u>LRL</u>	TYPE: <u>NSL</u>	APP NO: <u>OKSC1722738984</u>
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: OKY USA Inc. **OGRID Number:** 16696
Well Name: Corral Draw 14-13 Federal #25H **API:** 30015-
Pool: Pierre Crossing Bone Springs East **Pool Code:** 96473

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

NSL-7576

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☒ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☐ SWD☐ IPI☐ EOR☐ PPR**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holders, WIDB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☐ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☐ Surface ownerG. ☐ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐ Notice Complete☐ Application
Content
Complete

3) CERTIFICATION: I hereby certify that the information submitted with this application for
 administrative approval is **accurate** and **complete** to the best of my knowledge. I also
 understand that **no action** will be taken on this application until the required information and
 notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity:

David Stewart

Print or Type Name

Date

8/9/17

432-685-5717

Phone Number

[Signature]

Signature

david_stewart@oky.com

e-mail Address



OXY USA Inc

**PO Box 50250
Midland, TX 79710-0250**

August 9, 2017

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Attention: Leonard Lowe

Re: ***Application for Administrative Approval of Non-Standard Location –
Corral Draw 14-13 Federal #25H - Pierce Crossing Bone Spring, East
Surface – 850 FSL 2200 FEL Ut O Sec 14 T25S R29E
Top Perforation – 1261 FSL 2300 FEL Ut O Sec 14 T25S R29E
Bottom Perforation – 1260 FSL 340 FEL Ut P Sec 13 T25S R29E
Bottom Hole – 1260 FSL 180 FEL Ut P Sec 13 T25S R29E
Eddy County, New Mexico***

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Corral Draw 14-13 Federal #25H well, API Number-30-015-Pending, Property Code Pending. The #25H well is proposed to be completed in the Pierce Crossing Bone Spring, East Pool Code 96473. This will be a horizontal well in a pool with no special rules for setback, so the setback requirements under Rule 19.15.15.9 (A) and 19.15.16.15 (B) would apply. The proposed producing interval is outside of the proposed Producing Area but within the proposed Project Area and will be drilled as follows:

Surface – 850 FSL 2200 FEL Ut O Sec 14 T25S R29E
Top Perforation – 1261 FSL 2300 FEL Ut O Sec 14 T25S R29E
Bottom Perforation – 1260 FSL 340 FEL Ut P Sec 13 T25S R29E
Bottom Hole – 1260 FSL 180 FEL Ut P Sec 13 T25S R29E

The adjoining spacing units are located in T25S R29E Section 13-Units I, J, K, L, M, N, O, P; Section 14-Units I, J, K, N, O, P; Section 23-Units A, B, C; Section 24-Units A, B, C, D; T25S R30E Section 18-Unit L, M; Section 19-Unit D.

Approval of the unorthodox producing interval will allow for efficient spacing of horizontal wells and thereby prevent waste, please see attached for the engineering justification.

To support this request, the following information has been submitted for your review:

1. Application for Permit to Drill.
2. C-102 Plat for the proposed well and additional plats with offsetting well and affected spacing units.
3. List of affected offset parties that adjoin the non-standard, copies of the signed certified return receipts will be furnished upon request.
4. Proposed Directional Survey
5. Engineering Justification Letter

If you need any additional information, please call me at 432-685-5717.

Sincerely,

David Stewart
Sr. Regulatory Advisor
OXY USA Inc.

Attachments

CC: NMOCD-Artesia, BLM-Carlsbad, Service List



OXY USA Inc.

PO Box 50250
Midland, TX 79710-0250

August 9, 2017

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Re: ***Application for Administrative Approval of Non-Standard Location –
Corral Draw 14-13 Federal #25H - Pierce Crossing Bone Spring, East
Surface – 850 FSL 2200 FEL Ut O Sec 14 T25S R29E
Top Perforation – 1261 FSL 2300 FEL Ut O Sec 14 T25S R29E
Bottom Perforation – 1260 FSL 340 FEL Ut P Sec 13 T25S R29E
Bottom Hole – 1260 FNL 180 FEL Ut P Sec 13 T25S R29E
Eddy County, New Mexico***

Ladies and Gentlemen:

Enclosed is a copy of an application, filed with the New Mexico Oil Conservation Division by OXY USA Inc., requesting administrative approval for a non-standard location. As an affected party, notice is being provided to you pursuant to Rule 19.15.15.9 (A) and 19.15.16.15 (B). The well is located as follows:

Surface – 850 FSL 2200 FEL Ut O Sec 14 T25S R29E
Top Perforation – 1261 FSL 2300 FEL Ut O Sec 14 T25S R29E
Bottom Perforation – 1260 FSL 340 FEL Ut P Sec 13 T25S R29E
Bottom Hole – 1260 FNL 180 FEL Ut P Sec 13 T25S R29E

If you object to the well's location, you must notify the Division in writing no later than 20 days from the date the application is received by the NMOCD (1220 South St. Francis Drive, Santa Fe, NM 87505; Attention: Leonard Lowe).

If you need any additional information, please call me at 432-685-5717 or Jeremy Murphrey, CPL at 713-350-4816.

Sincerely,

David Stewart
Sr. Regulatory Advisor
OXY USA Inc.

Attachments



OXY USA Inc.

**PO Box 50250
Midland, TX 79710-0250**

July 20, 2017

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Attention: Leonard Lowe

Re: Application for Administrative Approval of Non-Standard Location -Engineering Justification
Corral Draw 14-13Federal #25H - Pierce Crossing Bone Spring, East
Surface - 850 FSL 2200 FEL Ut O Sec 14 T25S R29E
Top Perforation - 1261 FSL 2300 FEL Ut O Sec 14 T25S R29E
Bottom Perforation - 1260 FSL 340 FEL Ut P Sec 13 T25S R29E
Bottom Hole -1260 FSL 180 FEL Ut P Sec 13 T25S R29E
Eddy County, New Mexico

Dear Mr. Lowe:

OXY USA Inc. respectfully seeks approval for this non-standard location to increase horizontal well spacing from 4 wells per section 6 wells per section ("wps") to effectively develop the Bone Spring formation. It is Oxy's responsibility as a prudent operator to optimize well spacing for horizontal development and maximize the recovery of reserves. Increasing horizontal well spacing from 4 wps to 6 wps will optimize recoverable reserves. Any reduction in well spacing will result in untapped reserves being left in the reservoir resulting in waste of a resource that will not be developed otherwise.

Sincerely,

Robert Chan Tysor III
Senior Reservoir Engineer - Oxy USA, Inc.

CC: NMOCD-Artesia, BLM-Carlsbad, Service List

Application Non-Standard Location - Service List**OXY USA Inc.****Corral Draw 14-13 Federal #25H**

New Mexico Oil Conservation Division
811 S. First St.
Artesia, NM 88210
7013-1710-0001-7912-6730

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
7013-1710-0001-7912-6747

United States Dept of Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220
7013-1710-0001-7912-6570

T25S R29E**Section 13 - Units I, J, K, L, M, N, O, P**

OXY USA Inc - 60% WI
P.O. Box 50250
Midland, TX 79710

EOG Resources Inc. - 40% WI
P.O. Box 2267
Midland, TX 79702
7013-1710-0001-7912-6587

Section 14 - Units I, J, O, P

OXY USA Inc - 60% WI
P.O. Box 50250
Midland, TX 79710

EOG Resources Inc. - 40% WI
P.O. Box 2267
Midland, TX 79702
7013-1710-0001-7912-6587

Section 14 - Units K, N

EOG Y Resources Inc.
105 S. 4th St.
Artesia, NM 88210
7013-1710-0001-7912-6594

Section 23 - Units A, B, C

COG Production LLC
600 W. Illinois Ave,
Midland, TX 79701
7013-1710-0001-7912-6624

Section 24 - Units A, B, C, D

COG Production LLC
600 W. Illinois Ave,
Midland, TX 79701
7013-1710-0001-7912-6624

T25S R30E**Section 18 - Unit L, M**

BOPCO LP
P.O. Box 2760
Midland, TX 79702
7013-1710-0001-7912-6631

Exxon Mobil Corp
810 Houston St.
Fort Worth, TX 76102
7013-1710-0001-7912-6648

Section 19 - Units D

BOPCO LP
P.O. Box 2760
Midland, TX 79702
7013-1710-0001-7912-6631

Exxon Mobil Corp
810 Houston St.
Fort Worth, TX 76102
7013-1710-0001-7912-6648

Copies of this application were mailed to the following individuals, companies and organizations
on or before 8/9/17.

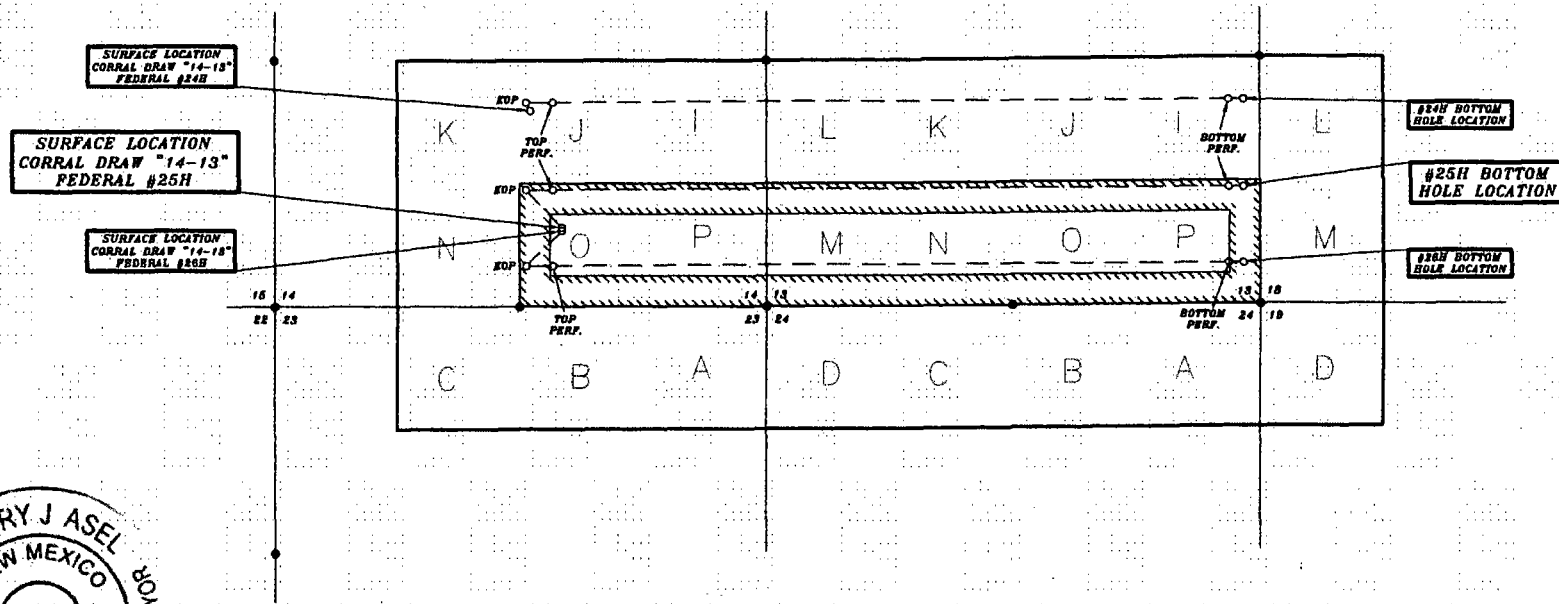


David Stewart
OXY USA Inc.

OXY USA INC.

CORRAL DRAW "14-13" FEDERAL #25H

SECTIONS 13, 14, 23 & 24, TOWNSHIP 25 SOUTH, RANGE 29 EAST
AND SECTIONS 18 & 19, TOWNSHIP 25 SOUTH,
RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO



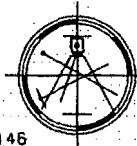
SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 7/25/2017
Terry J. Asel, N.M. R.P.L.S. No. 15079

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



2000' 0 2000' 4000' FEET
SCALE: 1"=2000'

District I
1623 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-6720
District II
611 E. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9770
District III
1000 Rio Brazos Road, Adobe, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87501
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 30-015-	Pool Code 96473	Pool Name Pierce Crossing Bone Spring, East
Property Code	Property Name CORRAL DRAW "14-13" FEDERAL	Well Number 16694
OGRID No. 16694	Operator Name OXY USA INC.	Elevation 3125.5'

Surface Location

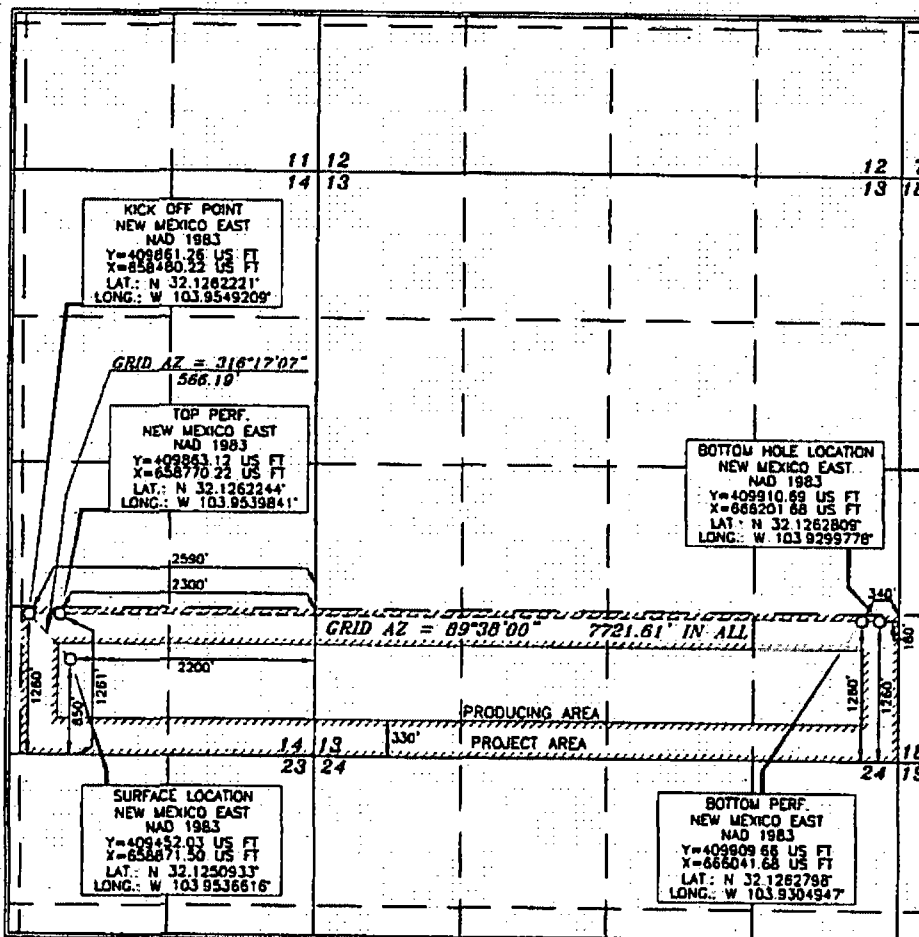
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	14	25 SOUTH	29 EAST, N.M.P.M.		850'	SOUTH	2200'	EAST	EDDY

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
P	13	25 SOUTH	29 EAST, N.M.P.M.		1260'	SOUTH	180'	EAST	EDDY

Dedicated Acres 240	Joint or Infill I	Consolidation Code	Order No. NSL will be filed
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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.



OPERATOR CERTIFICATION

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 hereafter entered by the division.

Signature: *David Stewart* Date: **7/10/17**
Printed Name: **David Stewart Sr. Reg Adm**
E-mail Address: **David.Stewart@oxy.com**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was placed in the field by a duly licensed surveyor made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: **AUGUST 23, 2016**
Signature and Seal: *Terry J. Asch*
Professional Surveyor
Certificate Number: **15079**

WO# 15082JWL-a (KA)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 E. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 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 30-015-	Pool Code 96473	Pool Name Pierce Crossing Base Springs, East
Property Code	Property Name CORRAL DRAW "14-13" FEDERAL	Well Number 24H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3104.6'

Surface Location

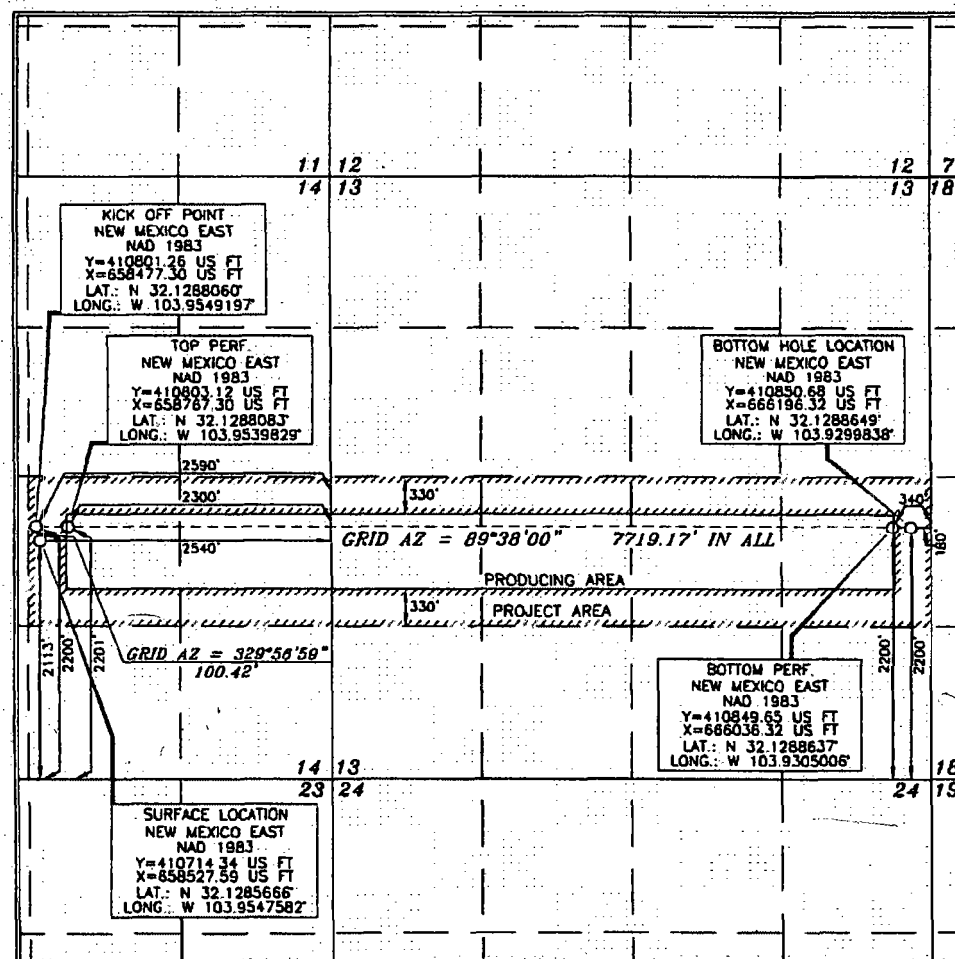
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
J	14	25 SOUTH	29 EAST, N.M.P.M.		2113'	SOUTH	2540'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
I	13	25 SOUTH	29 EAST, N.M.P.M.		2200'	SOUTH	180'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240	Y		

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.



OPERATOR CERTIFICATION

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.

Hereby ordered by the division

David Stewart 5/3/17
Signature Date
David Stewart Sr. Reg. Adv.
Printed Name
david.stewart@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Terry J. Asse
Signature
TERRY J ASSE
Professional Land Surveyor
15079
Date of Survey
JUNE 23, 2016
Signature and Seal of Professional Surveyor

Terry J. Asse 1/16/2017
Certificate Number 15079

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-6170
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811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
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1000 Rio Grande Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1230 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 30015-	Pool Code 96473	Pool Name Pierce Crossing Box Spring, East
Property Code	Property Name CORRAL DRAW "14-13" FEDERAL	Well Number 26H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3124.6'

Surface Location

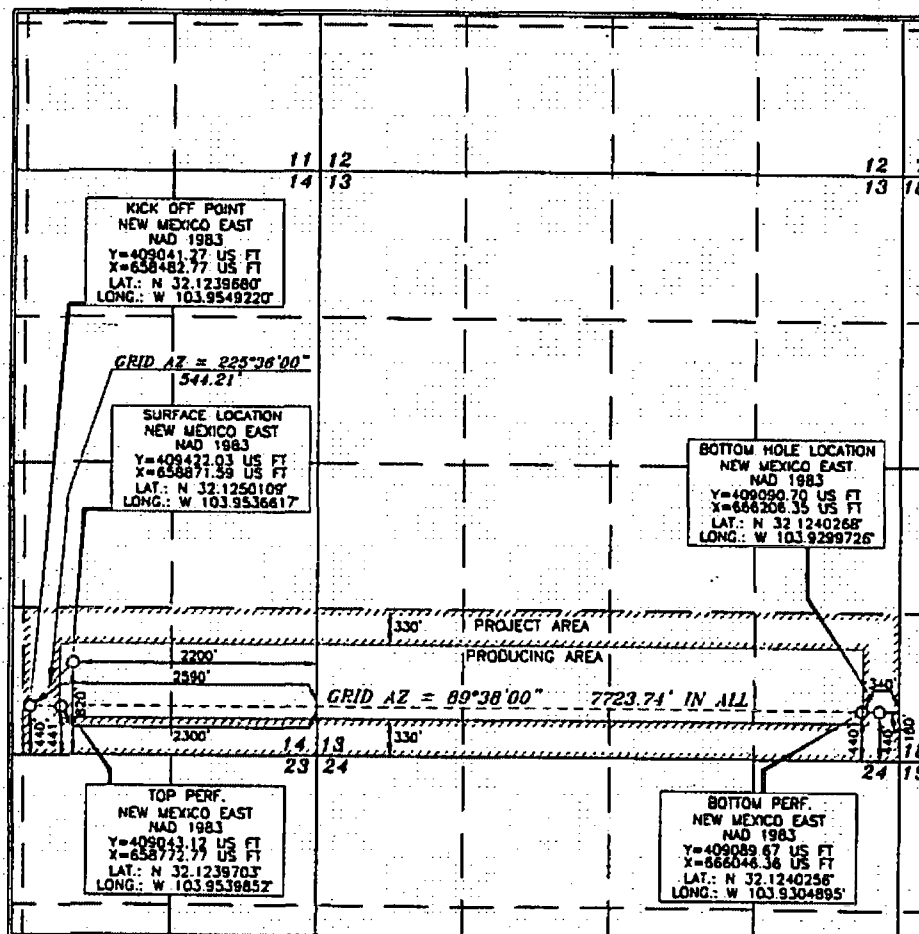
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	14	25 SOUTH	29 EAST, N.M.P.M.		820'	SOUTH	2200'	EAST	EDDY

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
P	13	25 SOUTH	29 EAST, N.M.P.M.		440'	SOUTH	180'	EAST	EDDY

Dedicated Acres 240	Joint or Infill Y	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.



OPERATOR CERTIFICATION

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 retained 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 heretofore entered by the division.

Signature: David Stewart Date: 7/10/17
Printed Name: David Stewart
E-mail Address: david_stewart@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the information contained on this plat was prepared from data furnished by the surveyors made by survey within my jurisdiction and that the same is true and correct to the best of my belief.

Date of Survey: AUGUST 23, 2016
Signature and Seal of Professional Land Surveyor: Terry J. Asch
Professional Surveyor: 15079

Certificate Number: 15079

WO# 160823WL-b (KA)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM15303
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA INCORPORATED		7. If Unit or CA Agreement, Name and No.
3a. Address 5 Greenway Plaza, Suite 110 Houston TX 770	3b. Phone No. (include area code) (713)366-5716	8. Lease Name and Well No. CORRAL DRAW 14-13 FEDERAL 25H
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE / 850 FSL / 2200 FEL / LAT 32.1250933 / LONG -103.9536616 At proposed prod. zone SESE / 1260 FSL / 180 FEL / LAT 32.1262809 / LONG -103.9299778		9. API Well No.
14. Distance in miles and direction from nearest town or post office* 8 miles		10. Field and Pool, or Exploratory PIERCE CROSSING BONE SPRING, EA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 180 feet		11. Sec., T. R. M. or Blk. and Survey or Area SEC 14 / T25S / R29E / NMP
16. No. of acres in lease 1280		12. County or Parish EDDY
17. Spacing Unit dedicated to this well 240		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 9125 feet / 16549 feet		20. BLM/BIA Bond No. on file FED: ESB000226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3126 feet		22. Approximate date work will start* 08/03/2018
		23. Estimated duration 20 days

24. Attachments

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) David Stewart / Ph: (713)366-5716	Date 08/08/2017
Title Sr. Regulatory Advisor		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office CARLSBAD	

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.

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.

(Continued on page 2)

*(Instructions on page 2)

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 25H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3152.00ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3152.00ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Corral Draw 14-13			
Site Position:		Northing:	413,438.51 usft	Latitude: 32° 8' 9.798502 N
From: Map		Easting:	658,519.17 usft	Longitude: 103° 57' 17.116186 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.20 °

Well	Corral Draw 14-13 Federal 25H			
Well Position	+N/-S	-3,986.79 ft	Northing:	409,452.03 usft
	+E/-W	352.36 ft	Easting:	658,871.50 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	3,125.50 ft
			Ground Level:	3,125.50 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/31/2016	7.05	59.90	48,140

Design	Permitting Plan			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	86.42

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,740.00	0.00	0.00	4,740.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,240.09	10.00	316.28	5,237.55	31.47	-30.09	2.00	2.00	0.00	316.28	
7,998.95	10.00	316.28	7,954.49	377.79	-361.22	0.00	0.00	0.00	0.00	
8,499.04	0.00	90.00	8,452.04	409.26	-391.31	2.00	-2.00	0.00	180.00	CD_14-13_25H_KO
9,391.04	89.20	90.00	9,024.94	409.27	173.65	10.00	10.00	0.00	90.00	
16,549.06	89.20	89.21	9,125.00	458.70	7,330.75	0.01	0.00	-0.01	-90.14	CD_14-13_25H_BH

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 25H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3152.00ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3152.00ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
476.00	0.00	0.00	476.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,081.00	0.00	0.00	1,081.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,415.00	0.00	0.00	1,415.00	0.00	0.00	0.00	0.00	0.00	0.00
Castile (Anhydrite)									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,277.00	0.00	0.00	3,277.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar/Delaware									
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,320.00	0.00	0.00	3,320.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,030.00	0.00	0.00	4,030.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 25H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3152.00ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3152.00ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,740.00	0.00	0.00	4,740.00	0.00	0.00	0.00	0.00	0.00	0.00
Build from Vertical at 2.00 DLS									
4,800.00	1.20	316.28	4,800.00	0.45	-0.43	-0.40	2.00	2.00	0.00
4,900.00	3.20	316.28	4,899.92	3.23	-3.09	-2.88	2.00	2.00	0.00
5,000.00	5.20	316.28	4,999.64	8.52	-8.15	-7.60	2.00	2.00	0.00
5,100.00	7.20	316.28	5,099.05	16.33	-15.61	-14.56	2.00	2.00	0.00
5,200.00	9.20	316.28	5,198.03	26.64	-25.47	-23.75	2.00	2.00	0.00
5,240.09	10.00	316.28	5,237.55	31.47	-30.09	-28.06	2.00	2.00	0.00
Hold 2759' Tangent									
5,300.00	10.00	316.28	5,296.55	38.99	-37.28	-34.77	0.00	0.00	0.00
5,395.90	10.00	316.28	5,391.00	51.03	-48.79	-45.51	0.00	0.00	0.00
Brushy Canyon									
5,400.00	10.00	316.28	5,395.03	51.54	-49.28	-45.97	0.00	0.00	0.00
5,500.00	10.00	316.28	5,493.51	64.10	-61.28	-57.16	0.00	0.00	0.00
5,600.00	10.00	316.28	5,591.99	76.65	-73.29	-68.36	0.00	0.00	0.00
5,700.00	10.00	316.28	5,690.47	89.20	-85.29	-79.55	0.00	0.00	0.00
5,800.00	10.00	316.28	5,788.95	101.76	-97.29	-90.75	0.00	0.00	0.00
5,900.00	10.00	316.28	5,887.44	114.31	-109.29	-101.94	0.00	0.00	0.00
6,000.00	10.00	316.28	5,985.92	126.86	-121.30	-113.14	0.00	0.00	0.00
6,100.00	10.00	316.28	6,084.40	139.41	-133.30	-124.33	0.00	0.00	0.00
6,200.00	10.00	316.28	6,182.88	151.97	-145.30	-135.53	0.00	0.00	0.00
6,300.00	10.00	316.28	6,281.36	164.52	-157.30	-146.72	0.00	0.00	0.00
6,400.00	10.00	316.28	6,379.84	177.07	-169.31	-157.92	0.00	0.00	0.00
6,500.00	10.00	316.28	6,478.32	189.63	-181.31	-169.11	0.00	0.00	0.00
6,600.00	10.00	316.28	6,576.80	202.18	-193.31	-180.31	0.00	0.00	0.00
6,700.00	10.00	316.28	6,675.28	214.73	-205.31	-191.50	0.00	0.00	0.00
6,800.00	10.00	316.28	6,773.76	227.29	-217.32	-202.70	0.00	0.00	0.00
6,900.00	10.00	316.28	6,872.24	239.84	-229.32	-213.89	0.00	0.00	0.00
7,000.00	10.00	316.28	6,970.72	252.39	-241.32	-225.09	0.00	0.00	0.00
7,051.06	10.00	316.28	7,021.00	258.80	-247.45	-230.81	0.00	0.00	0.00
Bone Spring									
7,100.00	10.00	316.28	7,069.20	264.95	-253.32	-236.28	0.00	0.00	0.00
7,200.00	10.00	316.28	7,167.68	277.50	-265.33	-247.48	0.00	0.00	0.00
7,300.00	10.00	316.28	7,266.16	290.05	-277.33	-258.68	0.00	0.00	0.00
7,400.00	10.00	316.28	7,364.64	302.61	-289.33	-269.87	0.00	0.00	0.00
7,500.00	10.00	316.28	7,463.12	315.16	-301.34	-281.07	0.00	0.00	0.00
7,600.00	10.00	316.28	7,561.60	327.71	-313.34	-292.26	0.00	0.00	0.00
7,700.00	10.00	316.28	7,660.08	340.27	-325.34	-303.46	0.00	0.00	0.00
7,800.00	10.00	316.28	7,758.56	352.82	-337.34	-314.65	0.00	0.00	0.00
7,900.00	10.00	316.28	7,857.04	365.37	-349.35	-325.85	0.00	0.00	0.00
7,998.95	10.00	316.28	7,954.49	377.79	-361.22	-336.92	0.00	0.00	0.00
Drop to Vertical at -2.00 DLS									
8,000.00	9.98	316.28	7,955.52	377.92	-361.35	-337.04	2.00	-2.00	0.00
8,023.82	9.50	316.28	7,979.00	380.84	-364.13	-339.64	2.00	-2.00	0.00
1st Bone Spring									
8,100.00	7.98	316.28	8,054.29	389.21	-372.14	-347.10	2.00	-2.00	0.00

Oxy Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 25H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3152.00ft (Original Well Elev.)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3152.00ft (Original Well Elev.)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,200.00	5.98	316.28	8,153.54	397.99	-380.53	-354.94	2.00	-2.00	0.00
8,300.00	3.98	316.28	8,253.16	404.27	-386.53	-360.53	2.00	-2.00	0.00
8,340.92	3.16	316.28	8,294.00	406.11	-388.30	-362.18	2.00	-2.00	0.00
2nd Bone Spring									
8,400.00	1.98	316.28	8,353.02	408.02	-390.13	-363.88	2.00	-2.00	0.00
8,499.04	0.00	90.00	8,452.04	409.26	-391.31	-364.99	2.00	-2.00	0.00
Build Curve at 10.00 DLS									
8,500.00	0.10	90.00	8,453.00	409.26	-391.31	-364.99	10.00	10.00	0.00
8,600.00	10.10	90.00	8,552.48	409.26	-382.44	-356.13	10.00	10.00	0.00
8,700.00	20.10	90.00	8,648.90	409.26	-356.43	-330.17	10.00	10.00	0.00
8,800.00	30.10	90.00	8,739.35	409.26	-314.07	-287.90	10.00	10.00	0.00
8,900.00	40.10	90.00	8,821.07	409.26	-256.65	-230.59	10.00	10.00	0.00
9,000.00	50.10	90.00	8,891.57	409.26	-185.91	-159.99	10.00	10.00	0.00
9,100.00	60.10	90.00	8,948.72	409.26	-104.00	-78.24	10.00	10.00	0.00
9,200.00	70.10	90.00	8,990.77	409.26	-13.41	12.17	10.00	10.00	0.00
9,300.00	80.10	90.00	9,016.46	409.27	83.10	108.50	10.00	10.00	0.00
9,391.04	89.20	90.00	9,024.94	409.27	173.65	198.87	10.00	10.00	0.00
Landing Point									
9,400.00	89.20	90.00	9,025.07	409.27	182.61	207.81	0.01	0.00	-0.01
9,500.00	89.20	89.99	9,026.46	409.28	282.60	307.60	0.01	0.00	-0.01
9,600.00	89.20	89.98	9,027.86	409.31	382.59	407.40	0.01	0.00	-0.01
9,700.00	89.20	89.97	9,029.26	409.36	482.58	507.20	0.01	0.00	-0.01
9,800.00	89.20	89.95	9,030.65	409.43	582.57	607.00	0.01	0.00	-0.01
9,900.00	89.20	89.94	9,032.05	409.52	682.56	706.80	0.01	0.00	-0.01
10,000.00	89.20	89.93	9,033.45	409.63	782.55	806.60	0.01	0.00	-0.01
10,100.00	89.20	89.92	9,034.84	409.76	882.54	906.40	0.01	0.00	-0.01
10,200.00	89.20	89.91	9,036.24	409.90	982.53	1,006.21	0.01	0.00	-0.01
10,300.00	89.20	89.90	9,037.64	410.07	1,082.52	1,106.01	0.01	0.00	-0.01
10,400.00	89.20	89.89	9,039.03	410.26	1,182.51	1,205.82	0.01	0.00	-0.01
10,500.00	89.20	89.88	9,040.43	410.46	1,282.50	1,305.63	0.01	0.00	-0.01
10,600.00	89.20	89.87	9,041.83	410.68	1,382.49	1,405.44	0.01	0.00	-0.01
10,700.00	89.20	89.85	9,043.22	410.93	1,482.48	1,505.25	0.01	0.00	-0.01
10,800.00	89.20	89.84	9,044.62	411.19	1,582.47	1,605.06	0.01	0.00	-0.01
10,900.00	89.20	89.83	9,046.02	411.47	1,682.46	1,704.87	0.01	0.00	-0.01
11,000.00	89.20	89.82	9,047.41	411.77	1,782.45	1,804.68	0.01	0.00	-0.01
11,100.00	89.20	89.81	9,048.81	412.09	1,882.44	1,904.50	0.01	0.00	-0.01
11,200.00	89.20	89.80	9,050.21	412.43	1,982.43	2,004.31	0.01	0.00	-0.01
11,300.00	89.20	89.79	9,051.60	412.79	2,082.42	2,104.13	0.01	0.00	-0.01
11,400.00	89.20	89.78	9,053.00	413.17	2,182.41	2,203.95	0.01	0.00	-0.01
11,500.00	89.20	89.77	9,054.40	413.57	2,282.40	2,303.77	0.01	0.00	-0.01
11,600.00	89.20	89.76	9,055.80	413.99	2,382.39	2,403.59	0.01	0.00	-0.01
11,700.00	89.20	89.74	9,057.19	414.42	2,482.37	2,503.41	0.01	0.00	-0.01
11,800.00	89.20	89.73	9,058.59	414.88	2,582.36	2,603.23	0.01	0.00	-0.01
11,900.00	89.20	89.72	9,059.99	415.35	2,682.35	2,703.06	0.01	0.00	-0.01
12,000.00	89.20	89.71	9,061.38	415.85	2,782.34	2,802.88	0.01	0.00	-0.01
12,100.00	89.20	89.70	9,062.78	416.36	2,882.33	2,902.71	0.01	0.00	-0.01
12,200.00	89.20	89.69	9,064.18	416.89	2,982.32	3,002.53	0.01	0.00	-0.01
12,300.00	89.20	89.68	9,065.58	417.44	3,082.31	3,102.36	0.01	0.00	-0.01
12,400.00	89.20	89.67	9,066.97	418.02	3,182.30	3,202.19	0.01	0.00	-0.01
12,500.00	89.20	89.66	9,068.37	418.61	3,282.29	3,302.02	0.01	0.00	-0.01
12,600.00	89.20	89.65	9,069.77	419.21	3,382.27	3,401.85	0.01	0.00	-0.01
12,700.00	89.20	89.63	9,071.17	419.84	3,482.26	3,501.68	0.01	0.00	-0.01
12,800.00	89.20	89.62	9,072.57	420.49	3,582.25	3,601.52	0.01	0.00	-0.01

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 25H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3152.00ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3152.00ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,900.00	89.20	89.61	9,073.96	421.16	3,682.24	3,701.35	0.01	0.00	-0.01
13,000.00	89.20	89.60	9,075.36	421.85	3,782.23	3,801.19	0.01	0.00	-0.01
13,100.00	89.20	89.59	9,076.76	422.55	3,882.21	3,901.02	0.01	0.00	-0.01
13,200.00	89.20	89.58	9,078.16	423.28	3,982.20	4,000.86	0.01	0.00	-0.01
13,300.00	89.20	89.57	9,079.55	424.02	4,082.19	4,100.70	0.01	0.00	-0.01
13,400.00	89.20	89.56	9,080.95	424.79	4,182.18	4,200.54	0.01	0.00	-0.01
13,500.00	89.20	89.55	9,082.35	425.57	4,282.16	4,300.38	0.01	0.00	-0.01
13,600.00	89.20	89.53	9,083.75	426.37	4,382.15	4,400.22	0.01	0.00	-0.01
13,700.00	89.20	89.52	9,085.15	427.19	4,482.14	4,500.07	0.01	0.00	-0.01
13,800.00	89.20	89.51	9,086.55	428.03	4,582.12	4,599.91	0.01	0.00	-0.01
13,900.00	89.20	89.50	9,087.94	428.89	4,682.11	4,699.76	0.01	0.00	-0.01
14,000.00	89.20	89.49	9,089.34	429.77	4,782.10	4,799.60	0.01	0.00	-0.01
14,100.00	89.20	89.48	9,090.74	430.67	4,882.08	4,899.45	0.01	0.00	-0.01
14,200.00	89.20	89.47	9,092.14	431.59	4,982.07	4,999.30	0.01	0.00	-0.01
14,300.00	89.20	89.46	9,093.54	432.53	5,082.06	5,099.15	0.01	0.00	-0.01
14,400.00	89.20	89.45	9,094.94	433.48	5,182.04	5,199.00	0.01	0.00	-0.01
14,500.00	89.20	89.44	9,096.33	434.46	5,282.03	5,298.85	0.01	0.00	-0.01
14,600.00	89.20	89.42	9,097.73	435.45	5,382.01	5,398.70	0.01	0.00	-0.01
14,700.00	89.20	89.41	9,099.13	436.47	5,482.00	5,498.55	0.01	0.00	-0.01
14,800.00	89.20	89.40	9,100.53	437.50	5,581.98	5,598.41	0.01	0.00	-0.01
14,900.00	89.20	89.39	9,101.93	438.55	5,681.97	5,698.26	0.01	0.00	-0.01
15,000.00	89.20	89.38	9,103.33	439.63	5,781.95	5,798.12	0.01	0.00	-0.01
15,100.00	89.20	89.37	9,104.73	440.72	5,881.93	5,897.98	0.01	0.00	-0.01
15,200.00	89.20	89.36	9,106.12	441.83	5,981.92	5,997.83	0.01	0.00	-0.01
15,300.00	89.20	89.35	9,107.52	442.96	6,081.90	6,097.69	0.01	0.00	-0.01
15,400.00	89.20	89.34	9,108.92	444.11	6,181.89	6,197.55	0.01	0.00	-0.01
15,500.00	89.20	89.32	9,110.32	445.28	6,281.87	6,297.42	0.01	0.00	-0.01
15,600.00	89.20	89.31	9,111.72	446.46	6,381.85	6,397.28	0.01	0.00	-0.01
15,700.00	89.20	89.30	9,113.12	447.67	6,481.84	6,497.14	0.01	0.00	-0.01
15,800.00	89.20	89.29	9,114.52	448.90	6,581.82	6,597.01	0.01	0.00	-0.01
15,900.00	89.20	89.28	9,115.92	450.14	6,681.80	6,696.87	0.01	0.00	-0.01
16,000.00	89.20	89.27	9,117.32	451.41	6,781.78	6,796.74	0.01	0.00	-0.01
16,100.00	89.20	89.26	9,118.72	452.69	6,881.77	6,896.60	0.01	0.00	-0.01
16,200.00	89.20	89.25	9,120.12	453.99	6,981.75	6,996.47	0.01	0.00	-0.01
16,300.00	89.20	89.24	9,121.51	455.32	7,081.73	7,096.34	0.01	0.00	-0.01
16,400.00	89.20	89.23	9,122.91	456.66	7,181.71	7,196.21	0.01	0.00	-0.01
16,500.00	89.20	89.21	9,124.31	458.02	7,281.69	7,296.08	0.01	0.00	-0.01
16,549.06	89.20	89.21	9,125.00	458.70	7,330.75	7,345.08	0.01	0.00	-0.01
TD at 16549.06									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CD_14-13_25H_KOP - hit/miss target - Shape - Point	0.00	0.00	8,452.04	409.26	-391.31	409,861.26	658,480.22	32° 7' 34.399412 N	103° 57' 17.715332
CD_14-13_25H_BHL - plan hits target center - Point	0.00	0.00	9,125.00	458.70	7,330.75	409,910.69	666,201.68	32° 7' 34.611349 N	103° 55' 47.920063

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 25H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3152.00ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3152.00ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
476.00	476.00	Rustler				
1,081.00	1,081.00	Salado				
1,415.00	1,415.00	Castile (Anhydrite)				
3,277.00	3,277.00	Lamar/Delaware				
3,320.00	3,320.00	Bell Canyon				
4,030.00	4,030.00	Cherry Canyon				
5,395.90	5,391.00	Brushy Canyon				
7,051.06	7,021.00	Bone Spring				
8,023.82	7,979.00	1st Bone Spring				
8,340.92	8,294.00	2nd Bone Spring				

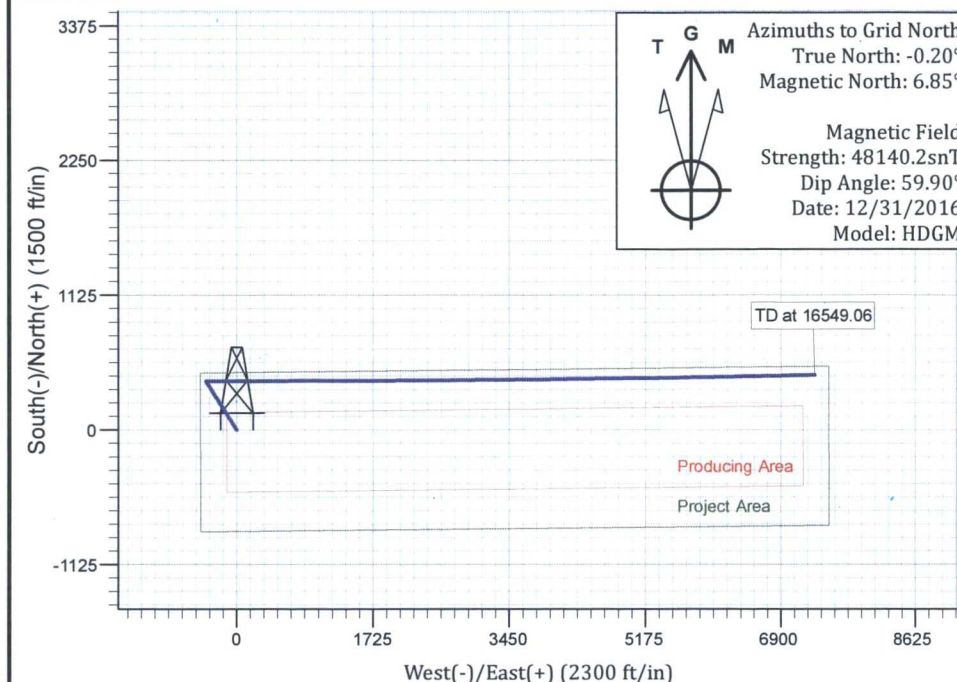
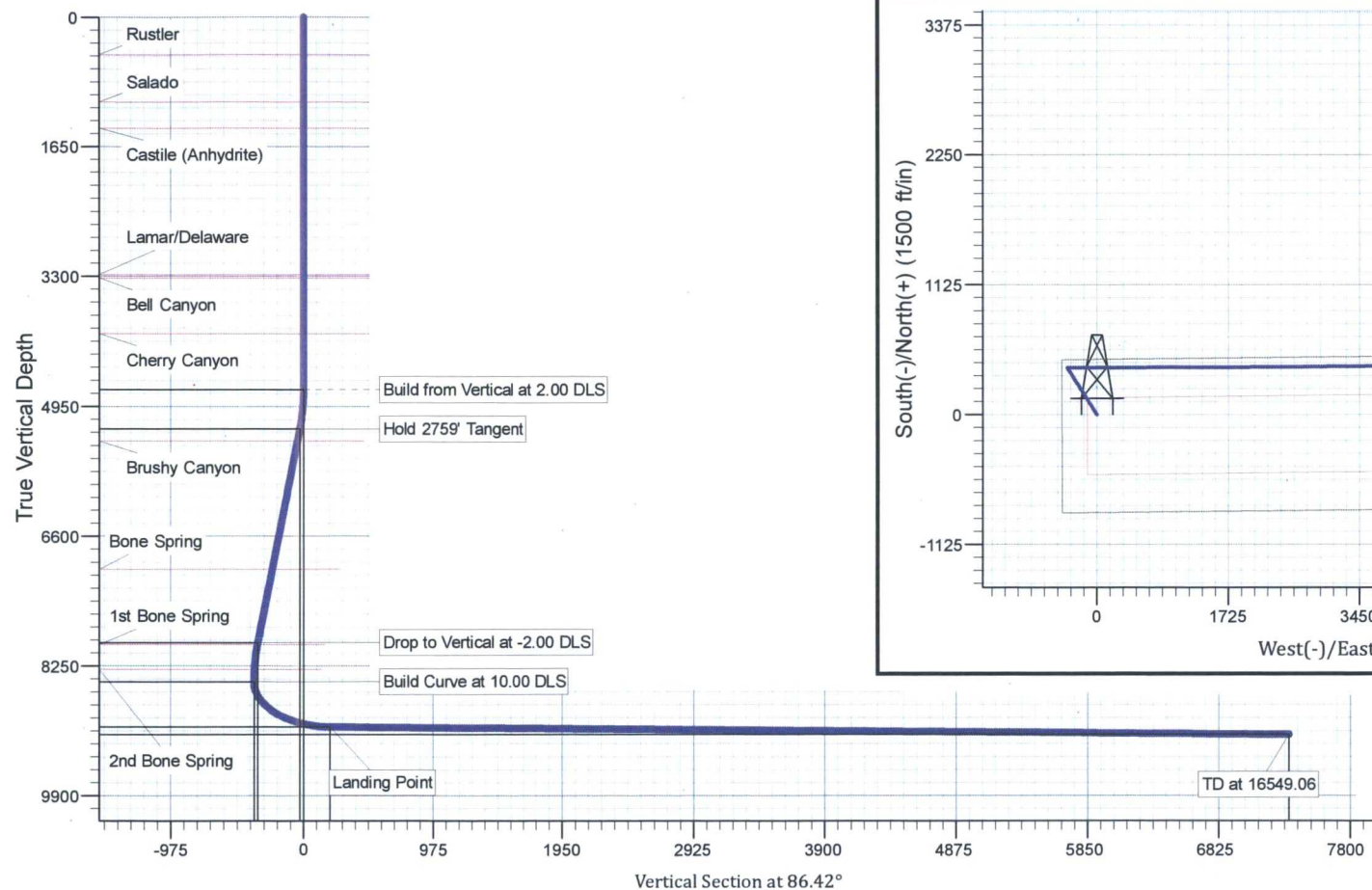
Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
4,740.00	4,740.00	0.00	0.00	Build from Vertical at 2.00 DLS	
5,240.09	5,237.55	31.47	-30.09	Hold 2759' Tangent	
7,998.95	7,954.49	377.79	-361.22	Drop to Vertical at -2.00 DLS	
8,499.04	8,452.04	409.26	-391.31	Build Curve at 10.00 DLS	
9,391.04	9,024.94	409.27	173.65	Landing Point	
16,549.06	9,125.00	458.70	7,330.75	TD at 16549.06	



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Corral Draw 14-13
Well: Corral Draw 14-13 Federal 25H
Wellbore: WB00
Design: Permitting Plan

WELL DETAILS: Corral Draw 14-13 Federal 25H

Ground Level: 3125.50
+N/-S 0.00 +E/-W 0.00 Northing 409452.03
WELL @ 3152.00ft (Original Well Elev)
Easting 658871.50 Latitude 32° 7' 30.336049 N 103° 57' 13.181885 W Longitude



PROJECT DETAILS: PRD NM DIRECTIONAL PLANS (NAD 1983)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4740.00	0.00	0.00	4740.00	0.00	0.00	0.00	0.00	0.00		Build from Vertical at 2.00 DLS
3	5240.09	10.00	316.28	5237.55	31.47	-30.09	2.00	316.28	-28.06		Hold 2759' Tangent
4	7998.95	10.00	316.28	7954.49	377.79	-361.22	0.00	0.00	-336.92		Drop to Vertical at -2.00 DLS
5	8499.04	0.00	90.00	8452.04	409.26	-391.31	2.00	180.00	-364.99	CD_14-13_25H_KOP	Build Curve at 10.00 DLS
6	9391.04	89.20	90.00	9024.94	409.27	173.65	10.00	90.00	198.87		Landing Point
7	16549.06	89.20	89.21	9125.00	458.70	7330.75	0.01	-90.14	7345.08		TD at 16549.06

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Wednesday, September 6, 2017 8:20 AM
To: 'David_Stewart@oxy.com'
Cc: Podany, Raymond, EMNRD; McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD; Jones, William V, EMNRD; 'jglover@blm.gov'; 'scaffey@blm.gov'; 'rjsanche@blm.gov'; 'lisa@rwbyram.com'; Sharp, Karen, EMNRD
Subject: APPROVED: NSL-7575 & NSL-7576_Corral Draw 14-13 Federal No. 22H & 25H_SEC 14 25S 29E
Importance: High

Mr. David Stewart,

The following administrative orders have been issued and will soon be available on the Division's web site:

<http://ocdimage.emnrd.state.nm.us/Imaging/Default.aspx>

NSL – 7575

Oxy USA, Inc.

WELL: API #: 30-015-PENDING

NAME: Corral Draw 14-13 Federal Well No. 22H

NSL – 7576

Oxy USA, Inc.

WELL: API #: 30-015-PENDING

NAME: Corral Draw 14-13 Federal Well No. 25H

Leonard Lowe

Engineering Bureau

Oil Conservation Division

Energy Minerals and Natural Resources Department

1220 South St. Frances

Santa Fe, New Mexico 87004

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Cell: 505-930-6717

Fax: 505-476-3462

E-mail: leonard.lowe@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/>