

RECEIVED: 8/15/2017	REVIEWER: LRL	TYPE: NSL	APP NO: DKSC1722738354
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2017 AUG 15 8:24
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: OXY USA Inc. OGRID Number: 16696
 Well Name: Central Draw 14-13 Federal #22H API: 30-015-
 Pool: Pierce Crossing Bone Spring, East Pool Code: 964B

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

- 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, WFO
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☐ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☐ Surface owner
 G. ☐ 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

8/2/17

Phone Number

432-685-5717

Signature

e-mail Address

david.stewart@oxy.com



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 #22H - Pierce Crossing Bone Spring, East
Surface – 503 FNL 2540 FEL Ut B Sec 14 T25S R29E
Top Perforation – 1258 FNL 2300 FEL Ut B Sec 14 T25S R29E
Bottom Perforation – 1260 FNL 340 FEL Ut A Sec 13 T25S R29E
Bottom Hole – 1260 FNL 180 FEL Ut A 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 #22H well, API Number-30-015-Pending, Property Code Pending. The #22H 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 – 503 FNL 2540 FEL Ut B Sec 14 T25S R29E
Top Perforation – 1258 FNL 2300 FEL Ut B Sec 14 T25S R29E
Bottom Perforation – 1260 FNL 340 FEL Ut A Sec 13 T25S R29E
Bottom Hole – 1260 FNL 180 FEL Ut A Sec 13 T25S R29E

The adjoining spacing units are located in T25S R29E Section 11–Units N, O, P; Section 12–Units M, N, O, P; Section 13–Units A, B, C, D, E, F, G, H; Section 14–Units A, B, C, F, G, H; T25S R30E Section 7–Unit M; Section 18–Units D, E.

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 #22H - Pierce Crossing Bone Spring, East
Surface – 503 FNL 2540 FEL Ut B Sec 14 T25S R29E
Top Perforation – 1258 FNL 2300 FEL Ut B Sec 14 T25S R29E
Bottom Perforation – 1260 FNL 340 FEL Ut A Sec 13 T25S R29E
Bottom Hole – 1260 FNL 180 FEL Ut A 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 – 503 FNL 2540 FEL Ut B Sec 14 T25S R29E
Top Perforation – 1258 FNL 2300 FEL Ut B Sec 14 T25S R29E
Bottom Perforation – 1260 FNL 340 FEL Ut A Sec 13 T25S R29E
Bottom Hole – 1260 FNL 180 FEL Ut A 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 #22H - Pierce Crossing Bone Spring, East
Surface - 503 FNL 2540 FEL Ut B Sec 14 T25S R29E
Top Perforation - 1258 FNL 2300 FEL Ut B Sec 14 T25S R29E
Bottom Perforation - 1260 FNL 340 FEL Ut A Sec 13 T25S R29E
Bottom Hole - 1260 FNL 180 FEL Ut A 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,

A handwritten signature in black ink, appearing to read "R. Chan Tysor III", followed by a long horizontal line extending to the right.

**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 #22H**

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 11 - Units N, O, P**

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

Section 12 - Units O, P

Chevron USA Inc.
 6301 Deauville Blvd.
 Midland, TX 79706
 7013-1710-0001-7912-6600

Section 12 - Units M, N

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

Section 13 - Units A, B, C, D, E, F, G, H

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 A, B, G, H

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 C, F

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

T25S R30E**Section 7 - Unit M**

XTO Energy Inc.
 810 Houston St.
 Fort Worth, TX 76102
 7013-1710-0001-7912-6617

Section 18 - Units D, E

Chevron USA Inc.
 6301 Deauville Blvd.
 Midland, TX 79706
 7013-1710-0001-7912-6600

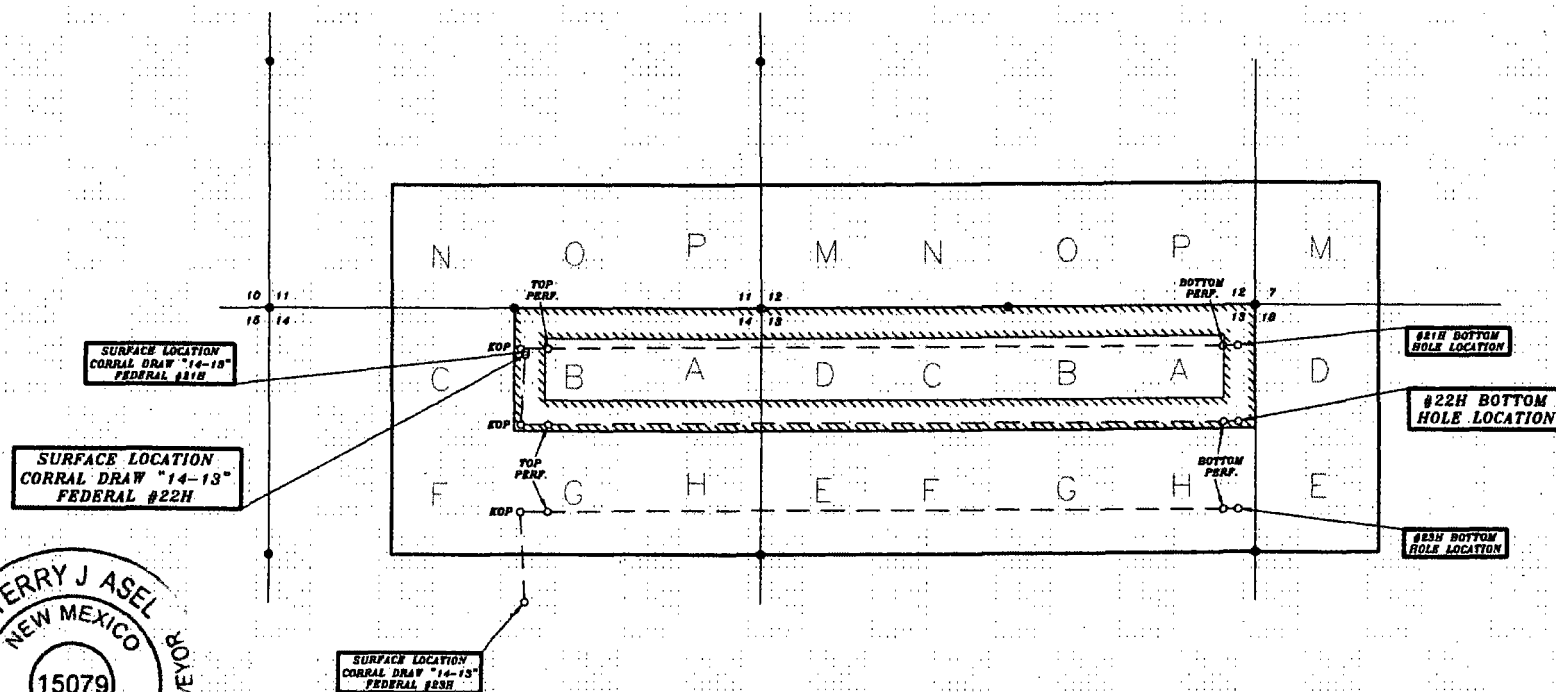
Copies of this application were mailed to the following individuals, companies and organizations
 on or before 8/9/17.


 David Stewart
 OXY USA Inc.

OXY USA INC.

CORRAL DRAW "14-13" FEDERAL #22H

SECTIONS 11, 12, 13 & 14, TOWNSHIP 25 SOUTH, RANGE 29 EAST
AND SECTIONS 7 & 18, TOWNSHIP 25 SOUTH,
RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO



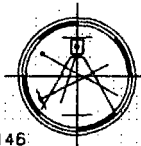
SURVEYORS CERTIFICATE

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 7/2/2017
Terry J. Asel, N.M.P.E.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'

WO# 170720NSL

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. 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 Spring East
Property Code	Property Name CORRAL DRAW "14-13" FEDERAL	Well Number 22H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3112.8'

Surface Location

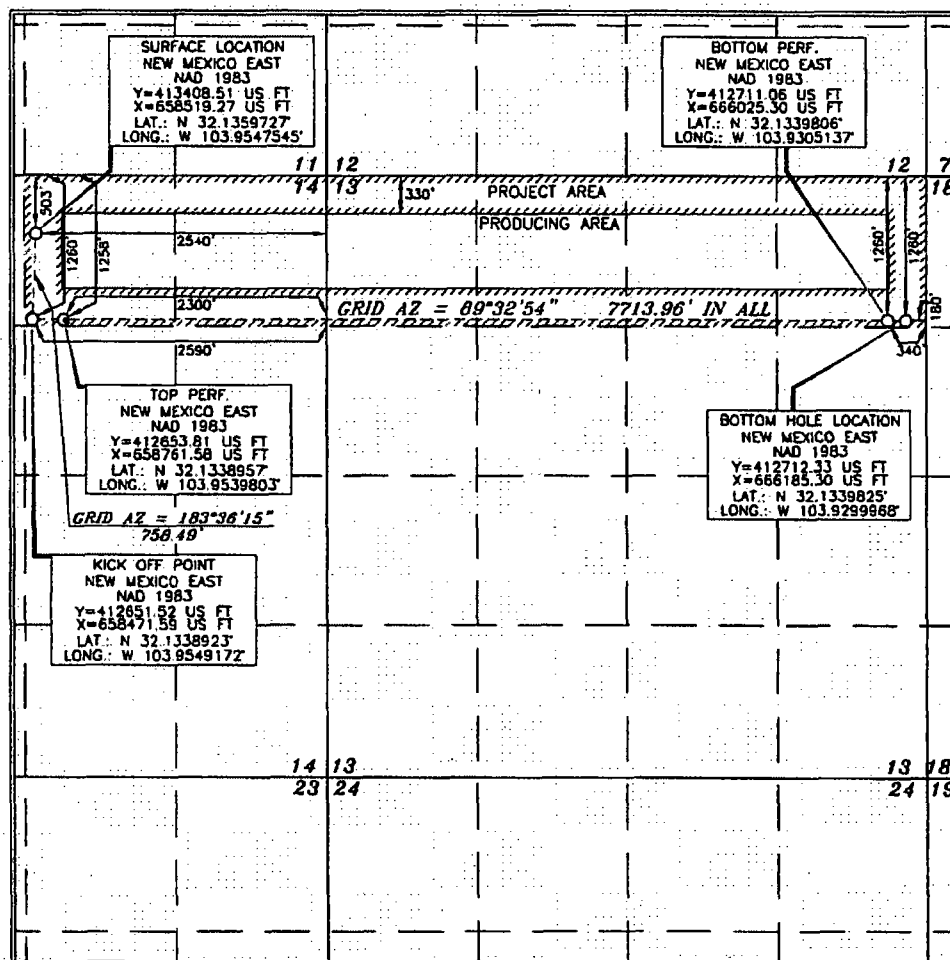
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	14	25 SOUTH	29 EAST, N.M.P.M.		503'	NORTH	2540'	EAST	EDDY

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

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

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 released mineral interest in the land including the proposed bottom hole location or has a right to drill this well in 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.

Authorized by the division.

David Stewart 5/31/17
Signature Date

David Stewart Sr. Reg. Adu.
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 the best of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

TERY J. ASH 15079
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Ash 1/16/2017
Certificate Number

District I
1623 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. 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 30-05-	Pool Code 96473	Pool Name Pierce Crossing Base Spring, East
Property Code	Property Name CORRAL DRAW "14-13" FEDERAL	Well Number 21H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3113.3'

Surface Location

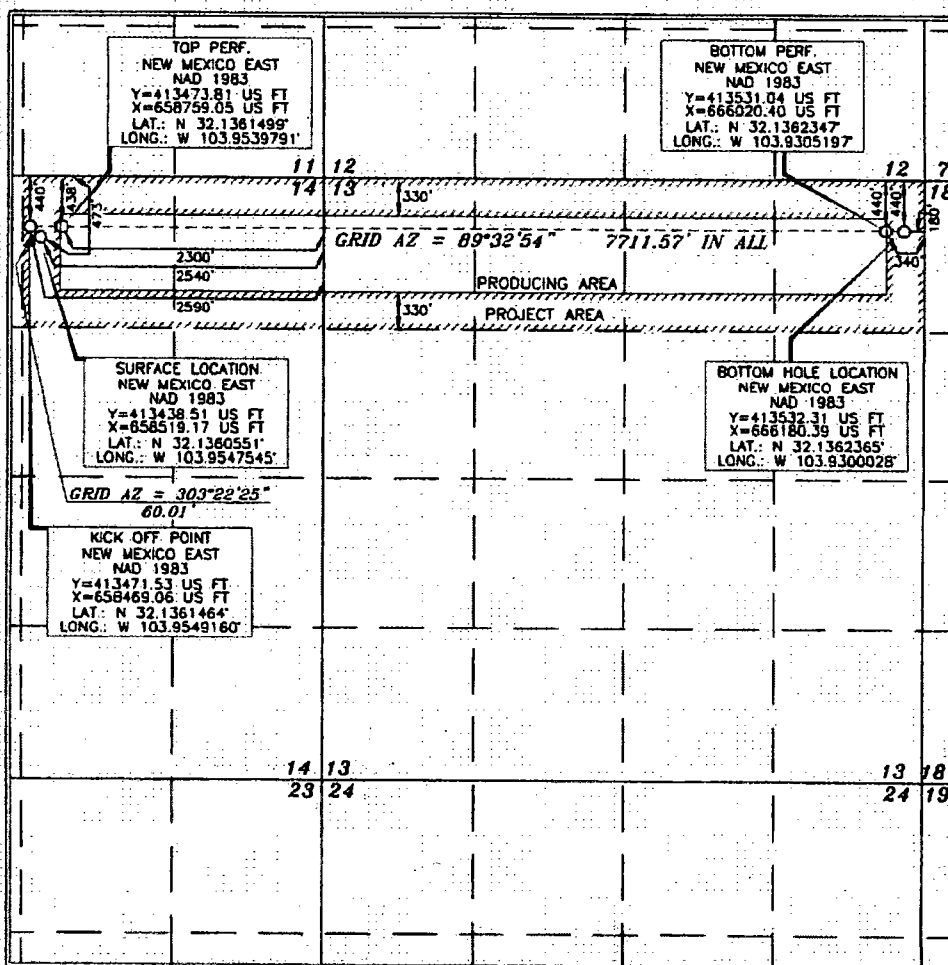
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	14	25 SOUTH	29 EAST, N.M.P.M.		473'	NORTH	2540'	EAST	EDDY

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
A	13	25 SOUTH	29 EAST, N.M.P.M.		440'	NORTH	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 heretofore entered by the division.

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

SURVEYOR CERTIFICATION

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

Date of Survey: **JUNE 15, 2016**
Signature and Seal of Professional Surveyor: **Terry J. Ash**
Certificate Number: **15079**

District I
1621 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. 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
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1220 S. St. Francis Dr., Santa Fe, NM 87505
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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	Pool Name Pierce Crossing Bone Spring, East
Property Code	Property Name CORRAL DRAW "14-13" FEDERAL	Well Number 23H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3104.9'

Surface Location

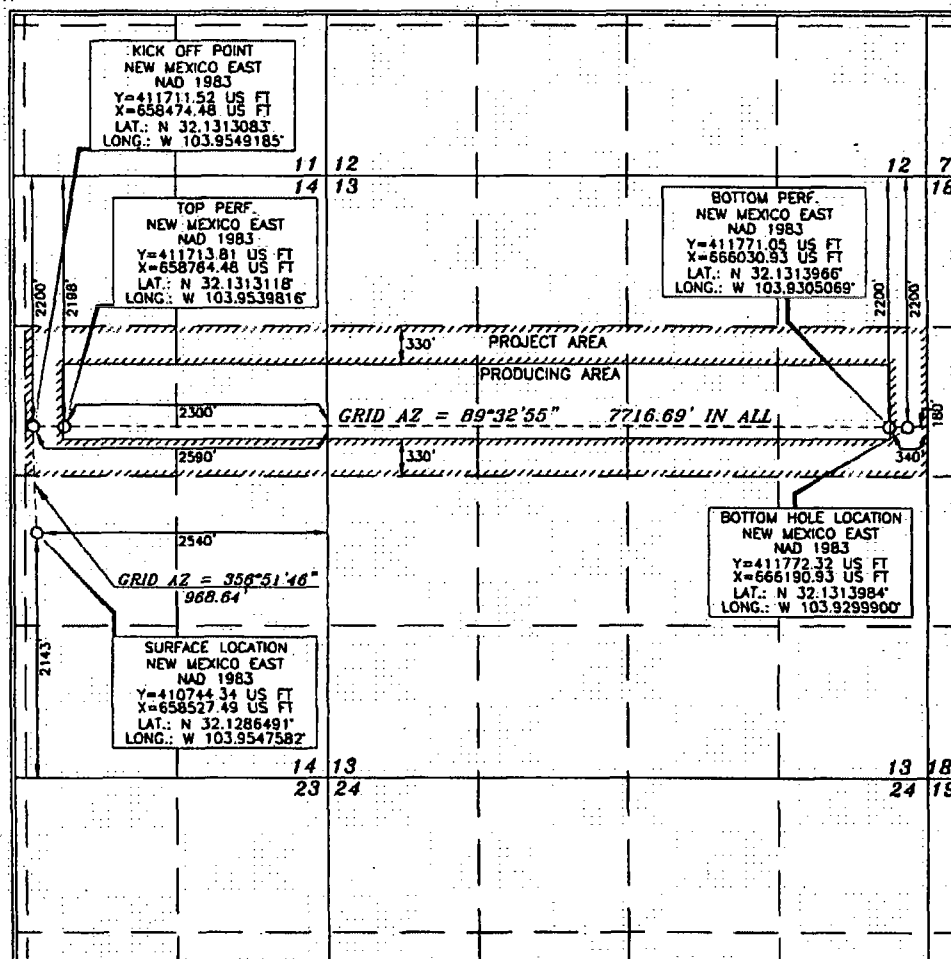
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
J	14	25 SOUTH	29 EAST, N.M.P.M.		2143'	SOUTH	2540'	EAST	EDDY

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
H	13	25 SOUTH	29 EAST, N.M.P.M.		2200'	NORTH	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 unleased 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: **5/3/17**
Printed Name: **David Stewart SR. Reg. Adu.**
E-mail Address: **david_stewart@oxy.com**

SURVEYOR CERTIFICATION

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

Date of Survey: **JUNE 23, 2016**
Signature and Seal of Professional Surveyor: *[Signature]*
Certificate Number: **15079**

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 INC		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 22H
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NWNW / 503 FNL / 2540 FEL / LAT 32.1359727 / LONG -103.9547545 At proposed prod. zone NENE / 1260 FNL / 180 FEL / LAT 32.1339825 / LONG -103.9299968		9. API Well No.
10. Field and Pool, or Exploratory PIERCE CROSSING BONE SPRING, E		11. Sec., T. R. M. or Blk. and Survey or Area SEC 14 / T25S / R29E / NMP
12. Distance in miles and direction from nearest town or post office* 8 miles		12. County or Parish EDDY
13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 180 feet	16. No. of acres in lease 1280	17. Spacing Unit dedicated to this well 240
18. Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft.	19. Proposed Depth 9120 feet / 16733 feet	20. BLM/BIA Bond No. on file FED: ESB000226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3113 feet	22. Approximate date work will start* 07/02/2018	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 05/04/2017
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 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3139.50ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3139.50ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 22H	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
From:	Map	Easting:	658,519.17 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32° 8' 9.798502 N
		Longitude:	103° 57' 17.116186 W
		Grid Convergence:	0.20 °

Well	Corral Draw 14-13 Federal 22H		
Well Position	+N/-S	-30.00 ft	Northing: 413,408.51 usft
	+E/-W	0.10 ft	Easting: 658,519.27 usft
Position Uncertainty		0.00 ft	Wellhead Elevation: 3,113.00 ft
			Latitude: 32° 8' 9.501619 N
			Longitude: 103° 57' 17.116249 W
			Ground Level: 3,113.00 ft

Wellbore	WB00		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	8/26/2016	7.10
			Dip Angle (°) 59.92
			Field Strength (nT) 48,184

Design	Permitting Plan		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°) 95.06

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	
3,650.00	0.00	0.00	3,650.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,150.80	10.02	183.60	4,148.25	-43.57	-2.74	2.00	2.00	0.00	183.60	
8,010.16	10.02	183.60	7,948.79	-713.47	-44.94	0.00	0.00	0.00	0.00	
8,510.95	0.00	89.62	8,447.04	-757.05	-47.68	2.00	-2.00	0.00	180.00 CD	
9,402.95	89.20	89.62	9,019.94	-753.30	517.26	10.00	10.00	0.00	89.62	
16,733.65	89.24	89.49	9,120.00	-696.23	7,847.06	0.00	0.00	0.00	-74.66 CD	

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3139.50ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3139.50ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 22H	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
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
1,100.00	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
1,500.00	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
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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
3,650.00	0.00	0.00	3,650.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	1.00	183.60	3,700.00	-0.44	-0.03	0.01	2.00	2.00	0.00
3,800.00	3.00	183.60	3,799.93	-3.92	-0.25	0.10	2.00	2.00	0.00
3,900.00	5.00	183.60	3,899.68	-10.88	-0.69	0.28	2.00	2.00	0.00
4,000.00	7.00	183.60	3,999.13	-21.31	-1.34	0.54	2.00	2.00	0.00
4,100.00	9.00	183.60	4,098.15	-35.20	-2.22	0.90	2.00	2.00	0.00
4,150.80	10.02	183.60	4,148.25	-43.57	-2.74	1.11	2.00	2.00	0.00
4,200.00	10.02	183.60	4,196.70	-52.12	-3.28	1.33	0.00	0.00	0.00
4,300.00	10.02	183.60	4,295.18	-69.47	-4.38	1.77	0.00	0.00	0.00
4,400.00	10.02	183.60	4,393.66	-86.83	-5.47	2.21	0.00	0.00	0.00
4,500.00	10.02	183.60	4,492.13	-104.19	-6.56	2.65	0.00	0.00	0.00
4,600.00	10.02	183.60	4,590.61	-121.55	-7.66	3.09	0.00	0.00	0.00
4,700.00	10.02	183.60	4,689.08	-138.90	-8.75	3.53	0.00	0.00	0.00
4,800.00	10.02	183.60	4,787.56	-156.26	-9.84	3.97	0.00	0.00	0.00
4,900.00	10.02	183.60	4,886.04	-173.62	-10.94	4.41	0.00	0.00	0.00
5,000.00	10.02	183.60	4,984.51	-190.98	-12.03	4.86	0.00	0.00	0.00
5,100.00	10.02	183.60	5,082.99	-208.34	-13.12	5.30	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3139.50ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3139.50ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 22H	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)
5,200.00	10.02	183.60	5,181.46	-225.69	-14.22	5.74	0.00	0.00	0.00
5,300.00	10.02	183.60	5,279.94	-243.05	-15.31	6.18	0.00	0.00	0.00
5,400.00	10.02	183.60	5,378.41	-260.41	-16.40	6.62	0.00	0.00	0.00
5,500.00	10.02	183.60	5,476.89	-277.77	-17.50	7.06	0.00	0.00	0.00
5,600.00	10.02	183.60	5,575.37	-295.12	-18.59	7.50	0.00	0.00	0.00
5,700.00	10.02	183.60	5,673.84	-312.48	-19.68	7.95	0.00	0.00	0.00
5,800.00	10.02	183.60	5,772.32	-329.84	-20.78	8.39	0.00	0.00	0.00
5,900.00	10.02	183.60	5,870.79	-347.20	-21.87	8.83	0.00	0.00	0.00
6,000.00	10.02	183.60	5,969.27	-364.56	-22.96	9.27	0.00	0.00	0.00
6,100.00	10.02	183.60	6,067.75	-381.91	-24.06	9.71	0.00	0.00	0.00
6,200.00	10.02	183.60	6,166.22	-399.27	-25.15	10.15	0.00	0.00	0.00
6,300.00	10.02	183.60	6,264.70	-416.63	-26.24	10.59	0.00	0.00	0.00
6,400.00	10.02	183.60	6,363.17	-433.99	-27.34	11.04	0.00	0.00	0.00
6,500.00	10.02	183.60	6,461.65	-451.34	-28.43	11.48	0.00	0.00	0.00
6,600.00	10.02	183.60	6,560.13	-468.70	-29.52	11.92	0.00	0.00	0.00
6,700.00	10.02	183.60	6,658.60	-486.06	-30.62	12.36	0.00	0.00	0.00
6,800.00	10.02	183.60	6,757.08	-503.42	-31.71	12.80	0.00	0.00	0.00
6,900.00	10.02	183.60	6,855.55	-520.78	-32.80	13.24	0.00	0.00	0.00
7,000.00	10.02	183.60	6,954.03	-538.13	-33.90	13.68	0.00	0.00	0.00
7,100.00	10.02	183.60	7,052.51	-555.49	-34.99	14.13	0.00	0.00	0.00
7,200.00	10.02	183.60	7,150.98	-572.85	-36.08	14.57	0.00	0.00	0.00
7,300.00	10.02	183.60	7,249.46	-590.21	-37.17	15.01	0.00	0.00	0.00
7,400.00	10.02	183.60	7,347.93	-607.56	-38.27	15.45	0.00	0.00	0.00
7,500.00	10.02	183.60	7,446.41	-624.92	-39.36	15.89	0.00	0.00	0.00
7,600.00	10.02	183.60	7,544.89	-642.28	-40.45	16.33	0.00	0.00	0.00
7,700.00	10.02	183.60	7,643.36	-659.64	-41.55	16.77	0.00	0.00	0.00
7,800.00	10.02	183.60	7,741.84	-677.00	-42.64	17.21	0.00	0.00	0.00
7,900.00	10.02	183.60	7,840.31	-694.35	-43.73	17.66	0.00	0.00	0.00
8,000.00	10.02	183.60	7,938.79	-711.71	-44.83	18.10	0.00	0.00	0.00
8,010.16	10.02	183.60	7,948.79	-713.47	-44.94	18.14	0.00	0.00	0.00
8,100.00	8.22	183.60	8,037.50	-727.68	-45.83	18.50	2.00	-2.00	0.00
8,200.00	6.22	183.60	8,136.70	-740.22	-46.62	18.82	2.00	-2.00	0.00
8,300.00	4.22	183.60	8,236.28	-749.30	-47.20	19.05	2.00	-2.00	0.00
8,400.00	2.22	183.60	8,336.12	-754.90	-47.55	19.20	2.00	-2.00	0.00
8,500.00	0.22	183.60	8,436.09	-757.03	-47.68	19.25	2.00	-2.00	0.00
8,510.95	0.00	89.62	8,447.04	-757.05	-47.68	19.25	2.00	-2.00	0.00
8,600.00	8.90	89.62	8,535.73	-757.00	-40.78	26.13	10.00	10.00	0.00
8,700.00	18.90	89.62	8,632.68	-756.84	-16.78	50.02	10.00	10.00	0.00
8,800.00	28.90	89.62	8,723.98	-756.57	23.69	90.31	10.00	10.00	0.00
8,900.00	38.90	89.62	8,806.87	-756.20	79.40	145.77	10.00	10.00	0.00
9,000.00	48.90	89.62	8,878.83	-755.74	148.66	214.71	10.00	10.00	0.00
9,100.00	58.90	89.62	8,937.67	-755.21	229.36	295.05	10.00	10.00	0.00
9,200.00	68.90	89.62	8,981.60	-754.61	319.05	384.34	10.00	10.00	0.00
9,300.00	78.90	89.62	9,009.29	-753.97	415.00	479.87	10.00	10.00	0.00
9,400.00	88.90	89.62	9,019.89	-753.31	514.31	578.73	10.00	10.00	0.00
9,402.95	89.20	89.62	9,019.94	-753.30	517.26	581.67	10.00	10.00	0.00
9,500.00	89.20	89.62	9,021.30	-752.65	614.30	678.27	0.00	0.00	0.00
9,600.00	89.20	89.62	9,022.69	-751.98	714.29	777.81	0.00	0.00	0.00
9,700.00	89.20	89.61	9,024.09	-751.31	814.27	877.35	0.00	0.00	0.00
9,800.00	89.20	89.61	9,025.48	-750.63	914.26	976.88	0.00	0.00	0.00
9,900.00	89.20	89.61	9,026.87	-749.96	1,014.25	1,076.42	0.00	0.00	0.00
10,000.00	89.20	89.61	9,028.26	-749.27	1,114.24	1,175.96	0.00	0.00	0.00
10,100.00	89.20	89.61	9,029.65	-748.59	1,214.23	1,275.50	0.00	0.00	0.00
10,200.00	89.20	89.61	9,031.04	-747.90	1,314.21	1,375.04	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 22H
Company:	HONGSPING DESIGNS	TVD Reference:	WELL @ 3139.50ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3139.50ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 22H	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)	
10,300.00	89.20	89.60	9,032.43	-747.21	1,414.20	1,474.58	0.00	0.00	0.00	
10,400.00	89.20	89.60	9,033.82	-746.52	1,514.19	1,574.11	0.00	0.00	0.00	
10,500.00	89.21	89.60	9,035.21	-745.82	1,614.18	1,673.65	0.00	0.00	0.00	
10,600.00	89.21	89.60	9,036.59	-745.12	1,714.17	1,773.19	0.00	0.00	0.00	
10,700.00	89.21	89.60	9,037.98	-744.42	1,814.15	1,872.72	0.00	0.00	0.00	
10,800.00	89.21	89.59	9,039.36	-743.71	1,914.14	1,972.26	0.00	0.00	0.00	
10,900.00	89.21	89.59	9,040.75	-743.00	2,014.13	2,071.80	0.00	0.00	0.00	
11,000.00	89.21	89.59	9,042.13	-742.29	2,114.12	2,171.33	0.00	0.00	0.00	
11,100.00	89.21	89.59	9,043.51	-741.57	2,214.11	2,270.87	0.00	0.00	0.00	
11,200.00	89.21	89.59	9,044.89	-740.86	2,314.09	2,370.40	0.00	0.00	0.00	
11,300.00	89.21	89.59	9,046.28	-740.13	2,414.08	2,469.94	0.00	0.00	0.00	
11,400.00	89.21	89.58	9,047.66	-739.41	2,514.07	2,569.47	0.00	0.00	0.00	
11,500.00	89.21	89.58	9,049.03	-738.68	2,614.06	2,669.01	0.00	0.00	0.00	
11,600.00	89.21	89.58	9,050.41	-737.95	2,714.04	2,768.54	0.00	0.00	0.00	
11,700.00	89.21	89.58	9,051.79	-737.22	2,814.03	2,868.07	0.00	0.00	0.00	
11,800.00	89.21	89.58	9,053.16	-736.48	2,914.02	2,967.61	0.00	0.00	0.00	
11,900.00	89.21	89.57	9,054.54	-735.74	3,014.01	3,067.14	0.00	0.00	0.00	
12,000.00	89.21	89.57	9,055.91	-734.99	3,114.00	3,166.67	0.00	0.00	0.00	
12,100.00	89.21	89.57	9,057.29	-734.25	3,213.98	3,266.21	0.00	0.00	0.00	
12,200.00	89.21	89.57	9,058.66	-733.50	3,313.97	3,365.74	0.00	0.00	0.00	
12,300.00	89.21	89.57	9,060.03	-732.74	3,413.96	3,465.27	0.00	0.00	0.00	
12,400.00	89.21	89.57	9,061.40	-731.99	3,513.95	3,564.80	0.00	0.00	0.00	
12,500.00	89.22	89.56	9,062.77	-731.23	3,613.93	3,664.33	0.00	0.00	0.00	
12,600.00	89.22	89.56	9,064.14	-730.47	3,713.92	3,763.86	0.00	0.00	0.00	
12,700.00	89.22	89.56	9,065.51	-729.70	3,813.91	3,863.39	0.00	0.00	0.00	
12,800.00	89.22	89.56	9,066.88	-728.93	3,913.90	3,962.92	0.00	0.00	0.00	
12,900.00	89.22	89.56	9,068.25	-728.16	4,013.89	4,062.46	0.00	0.00	0.00	
13,000.00	89.22	89.56	9,069.61	-727.39	4,113.87	4,161.99	0.00	0.00	0.00	
13,100.00	89.22	89.55	9,070.98	-726.61	4,213.86	4,261.51	0.00	0.00	0.00	
13,200.00	89.22	89.55	9,072.34	-725.83	4,313.85	4,361.04	0.00	0.00	0.00	
13,300.00	89.22	89.55	9,073.71	-725.04	4,413.84	4,460.57	0.00	0.00	0.00	
13,400.00	89.22	89.55	9,075.07	-724.26	4,513.82	4,560.10	0.00	0.00	0.00	
13,500.00	89.22	89.55	9,076.43	-723.47	4,613.81	4,659.63	0.00	0.00	0.00	
13,600.00	89.22	89.54	9,077.79	-722.67	4,713.80	4,759.16	0.00	0.00	0.00	
13,700.00	89.22	89.54	9,079.15	-721.88	4,813.79	4,858.69	0.00	0.00	0.00	
13,800.00	89.22	89.54	9,080.51	-721.08	4,913.77	4,958.21	0.00	0.00	0.00	
13,900.00	89.22	89.54	9,081.87	-720.27	5,013.76	5,057.74	0.00	0.00	0.00	
14,000.00	89.22	89.54	9,083.22	-719.47	5,113.75	5,157.27	0.00	0.00	0.00	
14,100.00	89.22	89.54	9,084.58	-718.66	5,213.74	5,256.80	0.00	0.00	0.00	
14,200.00	89.22	89.53	9,085.94	-717.85	5,313.72	5,356.32	0.00	0.00	0.00	
14,300.00	89.22	89.53	9,087.29	-717.03	5,413.71	5,455.85	0.00	0.00	0.00	
14,400.00	89.22	89.53	9,088.65	-716.21	5,513.70	5,555.37	0.00	0.00	0.00	
14,500.00	89.22	89.53	9,090.00	-715.39	5,613.69	5,654.90	0.00	0.00	0.00	
14,600.00	89.23	89.53	9,091.35	-714.57	5,713.67	5,754.43	0.00	0.00	0.00	
14,700.00	89.23	89.52	9,092.70	-713.74	5,813.66	5,853.95	0.00	0.00	0.00	
14,800.00	89.23	89.52	9,094.05	-712.91	5,913.65	5,953.48	0.00	0.00	0.00	
14,900.00	89.23	89.52	9,095.40	-712.08	6,013.64	6,053.00	0.00	0.00	0.00	
15,000.00	89.23	89.52	9,096.75	-711.24	6,113.62	6,152.52	0.00	0.00	0.00	
15,100.00	89.23	89.52	9,098.10	-710.40	6,213.61	6,252.05	0.00	0.00	0.00	
15,200.00	89.23	89.52	9,099.45	-709.56	6,313.60	6,351.57	0.00	0.00	0.00	
15,300.00	89.23	89.51	9,100.79	-708.71	6,413.59	6,451.09	0.00	0.00	0.00	
15,400.00	89.23	89.51	9,102.14	-707.86	6,513.57	6,550.62	0.00	0.00	0.00	
15,500.00	89.23	89.51	9,103.48	-707.01	6,613.56	6,650.14	0.00	0.00	0.00	
15,600.00	89.23	89.51	9,104.83	-706.15	6,713.55	6,749.66	0.00	0.00	0.00	

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Draw 14-13 Federal 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	WELL @ 3139.50ft (Original Well Elev)
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 3139.50ft (Original Well Elev)
Site:	Corral Draw 14-13	North Reference:	Grid
Well:	Corral Draw 14-13 Federal 22H	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)
15,700.00	89.23	89.51	9,106.17	-705.29	6,813.54	6,849.19	0.00	0.00	0.00
15,800.00	89.23	89.51	9,107.51	-704.43	6,913.52	6,948.71	0.00	0.00	0.00
15,900.00	89.23	89.50	9,108.85	-703.57	7,013.51	7,048.23	0.00	0.00	0.00
16,000.00	89.23	89.50	9,110.19	-702.70	7,113.50	7,147.75	0.00	0.00	0.00
16,100.00	89.23	89.50	9,111.53	-701.83	7,213.48	7,247.27	0.00	0.00	0.00
16,200.00	89.23	89.50	9,112.87	-700.95	7,313.47	7,346.79	0.00	0.00	0.00
16,300.00	89.23	89.50	9,114.21	-700.07	7,413.46	7,446.31	0.00	0.00	0.00
16,400.00	89.23	89.49	9,115.55	-699.19	7,513.45	7,545.83	0.00	0.00	0.00
16,500.00	89.23	89.49	9,116.88	-698.31	7,613.43	7,645.35	0.00	0.00	0.00
16,600.00	89.24	89.49	9,118.22	-697.42	7,713.42	7,744.87	0.00	0.00	0.00
16,700.00	89.24	89.49	9,119.55	-696.53	7,813.41	7,844.39	0.00	0.00	0.00
16,733.65	89.24	89.49	9,120.00	-696.23	7,847.06	7,877.88	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CD 14-13_22H_KOP - plan hits target center - Point	0.00	0.07	8,447.04	-757.05	-47.68	412,651.52	658,471.59	32° 8' 2.012113 N	103° 57' 17.701711
CD 14-13_22H_BHL - plan hits target center - Point	0.00	0.07	9,120.00	-696.23	7,847.06	412,712.33	666,365.72	32° 8' 2.330200 N	103° 55' 45.890280

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
466.00	466.00	Rustler			
1,050.00	1,050.00	Salado			
1,437.00	1,437.00	Catile (Anhydrite)			
3,266.00	3,266.00	Lamar/Delaware			
3,308.00	3,308.00	Bell Canyon			
4,019.02	4,018.00	Cherry Canyon			
5,408.72	5,387.00	Brushy Canyon			
7,058.87	7,012.00	Bone Spring			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
3,650.00	3,650.00	0.00	0.00	Start Sidebuild DLS 2.00
4,150.74	4,148.19	-43.56	-2.74	Hold 10° Tangent
8,010.20	7,948.83	-713.48	-44.94	Drop back to vertical
8,510.94	8,447.03	-757.05	-47.68	Build Curve with 10°/100'
9,402.94	9,019.94	-753.30	517.25	Landing Point
16,733.65	9,120.00	-696.23	7,847.06	TD at 16733

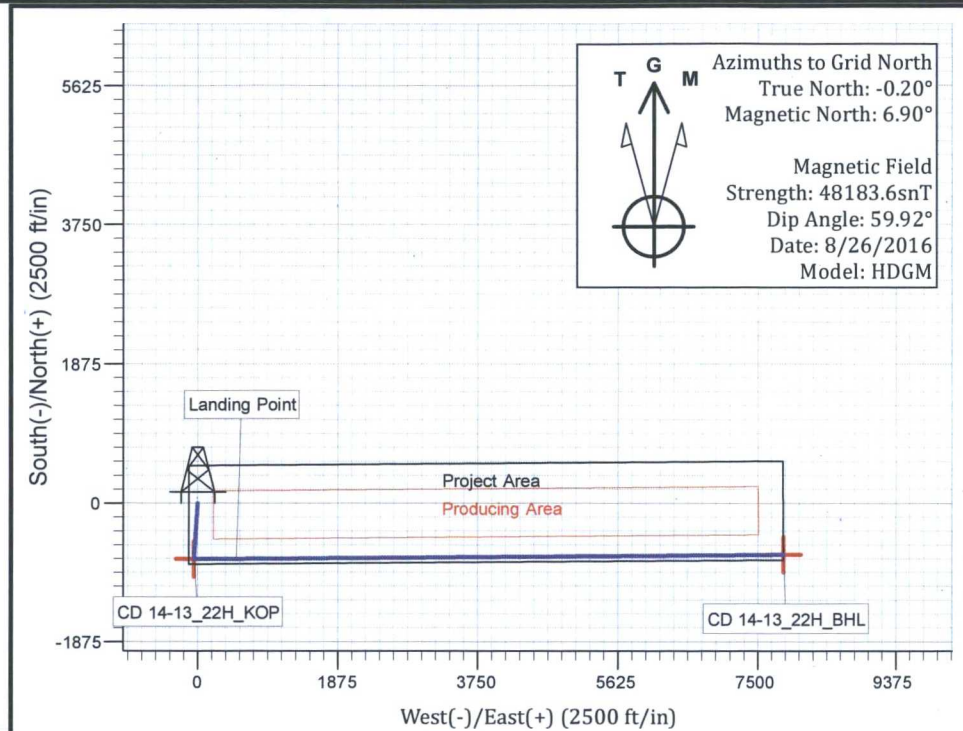
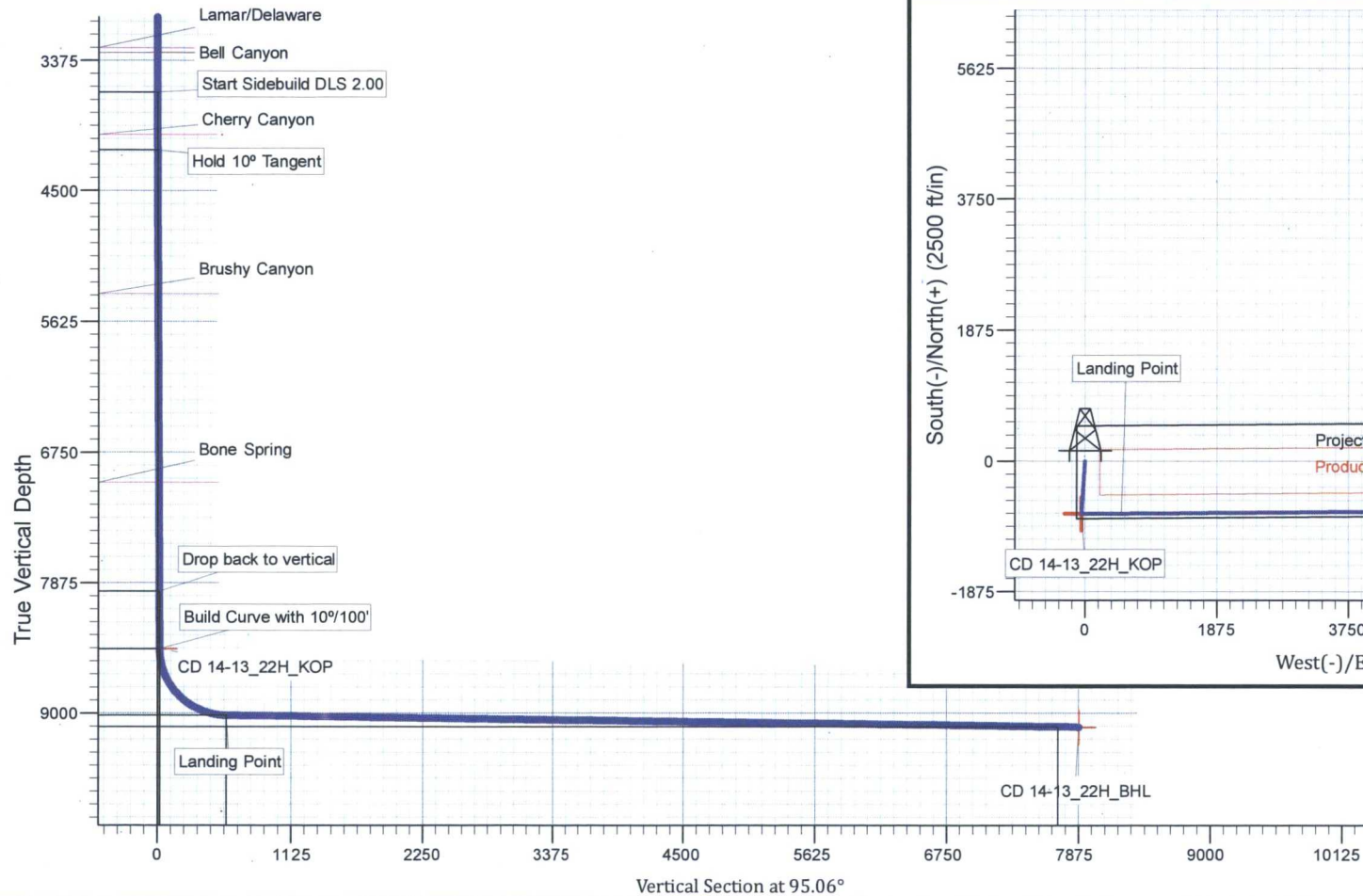


Project: DIRECTIONAL PLANS (NAD83)
Site: Corral Draw 14-13
Well: Corral Draw 14-13 Federal 22H
Wellbore: WB00
Design: Permitting Plan

WELL DETAILS: Corral Draw 14-13 Federal 22H

Ground Level: 3113.00
Northing: 413408.51
Easting: 658519.27
Latitude: 32° 8' 9.501619 N
Longitude: 103° 57' 17.116249 W
WELL @ 3139.50ft (Original Well Elev)

+N/-S: 0.00
+E/-W: 0.00



PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD83)

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	3650.00	0.00	0.00	3650.00	0.00	0.00	0.00	0.00	0.00		Start Sidebuild DLS 2.00
3	4150.80	10.02	183.60	4148.25	-43.57	-2.74	2.00	183.60	1.11		Hold 10° Tangent
4	8010.16	10.02	183.60	7948.79	-713.47	-44.94	0.00	0.00	18.14		Drop back to vertical
5	8510.95	0.00	89.62	8447.04	-757.05	-47.68	2.00	180.00	19.25	CD 14-13_22H_KOP	Build Curve with 10°/100'
6	9402.95	89.20	89.62	9019.94	-753.30	517.26	10.00	89.62	581.67		Landing Point
7	16733.65	89.24	89.49	9120.00	-696.23	7847.06	0.00	-74.66	7877.88	CD 14-13_22H_BHL	

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

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