

RECEIVED: 11/13/17	REVIEWER: LRL	TYPE: NSL	APP NO: PLEL1731854647
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

RECEIVED OCD

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: Corral Fly 02-01 State #22H **API:** 30-015-
Pool: Pierce Crossing; Bone Spring, East **Pool Code:** 96473

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

NSL-7613

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 or working interest ownersB. ☐ 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.

11/7/2017

Sarah Mitchell

Print or Type Name

Date

432-699-4318

Phone Number

sarah_mitchell@oxy.com

e-mail Address

Signature



OXY USA Inc

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

November 7, 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 Fly 02-01 State Com #22H – Cotton Draw; Bone Spring
Surface – 1265 FNL 120 FWL Lot 4 Sec 2 T25S R29E
Top Perforation – 1264 FNL 340 FWL Lot 4 Sec 2 T25S R29E
Bottom Perforation – 1264 FNL 340 FEL Lot 1 Sec 1 T25S R29E
Bottom Hole – 1264 FNL 180 FEL Lot 1 Sec 1 T25S R29E
Eddy County, New Mexico*

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Corral Fly 02-01 State Com #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, 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 – 1265 FNL 120 FWL Lot 4 Sec 2 T25S R29E
Top Perforation – 1264 FNL 340 FWL Lot 4 Sec 2 T25S R29E
Bottom Perforation – 1264 FNL 340 FEL Lot 1 Sec 1 T25S R29E
Bottom Hole – 1264 FNL 180 FEL Lot 1 Sec 1 T25S R29E

The adjoining spacing units towards which the unorthodox location encroaches are located in T25S R29E, Section 3- Unit H, Section 2-Units E, F, G, H, Section 1- Units E, F, G, H and T25S-R30E Section 2- Unit H

Approval of the unorthodox producing interval will allow for efficient spacing of horizontal wells and thereby prevent waste.

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. Statement from Oxy Production Engineer

If you need any additional information, please call me at 432-699-4318.

Sincerely,


Sarah Mitchell
Regulatory Specialist
OXY USA Inc.

Attachments

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



OXY USA Inc.

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

September 11, 2017

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

**Re: *Application for Administrative Approval of Non-Standard Location –
Corral Fly 02-01 State Com #22H – Cotton Draw; Bone Spring
Surface – 1265 FNL 120 FWL Lot 4 Sec 2 T25S R29E
Top Perforation – 1264 FNL 340 FWL Lot 4 Sec 2 T25S R29E
Bottom Perforation – 1264 FNL 340 FEL Lot 1 Sec 1 T25S R29E
Bottom Hole – 1264 FNL 180 FEL Lot 1 Sec 1 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 – 1265 FNL 120 FWL Lot 4 Sec 2 T25S R29E
Top Perforation – 1264 FNL 340 FWL Lot 4 Sec 2 T25S R29E
Bottom Perforation – 1264 FNL 340 FEL Lot 1 Sec 1 T25S R29E
Bottom Hole – 1264 FNL 180 FEL Lot 1 Sec 1 T25S R29E
Eddy County, New Mexico

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, you can contact John Schneider, CPL at 713-366-5330 or myself at 432-699-4318.

Sincerely,


Sarah Mitchell
Regulatory Specialist
OXY USA Inc.

Attachments

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 242896

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address OXY USA INC PO Box 4294 Houston, TX 77210		2. OGRID Number 16696
		3. API Number 30-015-44508
4. Property Code 319797	5. Property Name CORRAL FLY 02-01 STATE	6. Well No. 022H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	2	25S	29E	4	1265	N	120	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	1	25S	29E	1	1264	N	180	E	Eddy

9. Pool Information

PIERCE CROSSING; BONE SPRING, EAST	96473
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2996
16. Multiple N	17. Proposed Depth 18988	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 1/20/2018
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	400	353	0
Int1	12.25	9.625	47	8192	3033	0
Prod	8.5	5.5	20	18988	1823	7692

Casing/Cement Program: Additional Comments

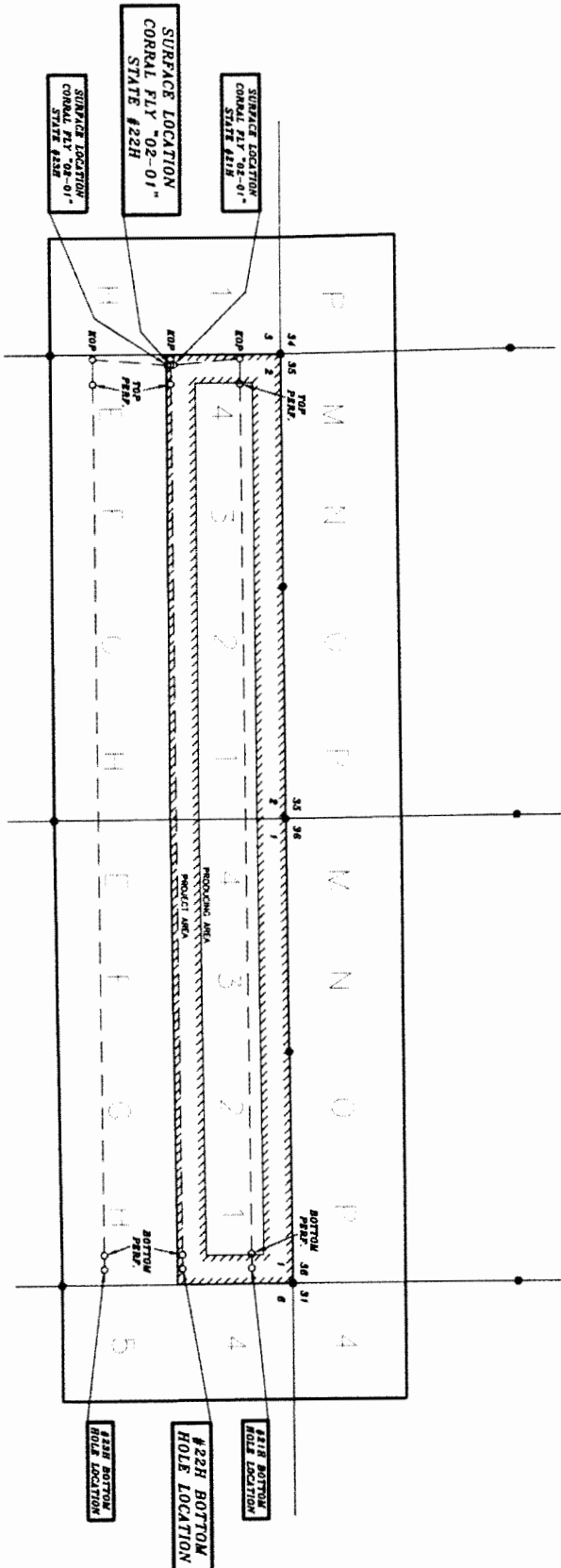
Proposed Casing/Cementing Program: Intermediate 1 – Contingency DVT/ECP @ +/- 3168'. If cement circulates to surface during primary cementing operation, DVT cancellation cone will be run and 2nd stage cancelled. Proposed Intermediate Casing consisting of 9-5/8" 43.5# HCL-80 BTC @ 0-7500' followed by 9-5/8" 47# HCL-80 BTC @ 7500-8192'. Proposed Mud Program: 0-400' Water-Based Mud - 400-3168' Brine - 3168-8192' Water-Based Mud - 8192'-TD Oil Based Mud. BOP Program: 13-5/8" 5M three ram stack w/ 5M annular preventer, 5M choke manifold. Additional information will be sent along with the H2S and Gas Capture Plan.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	
Double Ram	5000	5000	

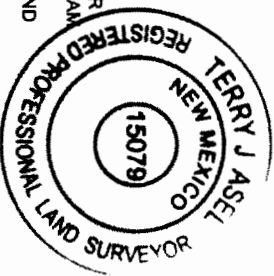
23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by KELLEY MONTGOMERY Title: Manager Regulatory Email Address: kelley_montgomery@oxy.com Date: 10/25/2017	Approved By: Raymond Podany Title: Geologist Approved Date: 10/27/2017 Expiration Date: 10/27/2019 Conditions of Approval Attached

OXY USA INC. CORRAL FLY "02-01" STATE #22H SECTIONS 34, 35 & 36, T24S, R29E, SECTION 31, T24S, R30E, SECTIONS 1, 2 & 3, T25S, R29E AND SECTION 6, T25S, R30E, N.M.P.M., EDDY COUNTY, NEW MEXICO



SURVEYORS CERTIFICATE

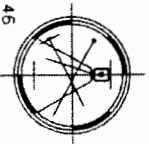
I, TERRY J. ASEI, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO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



Terry J. Asel 11/3/2017
 Terry J. Asel, 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
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
1800 Rio Grande Road, Artesia, NM 87418
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 Bone Spring East
Property Code	Property Name CORRAL FLY "02-01" STATE	Well Number 22H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2995.7'

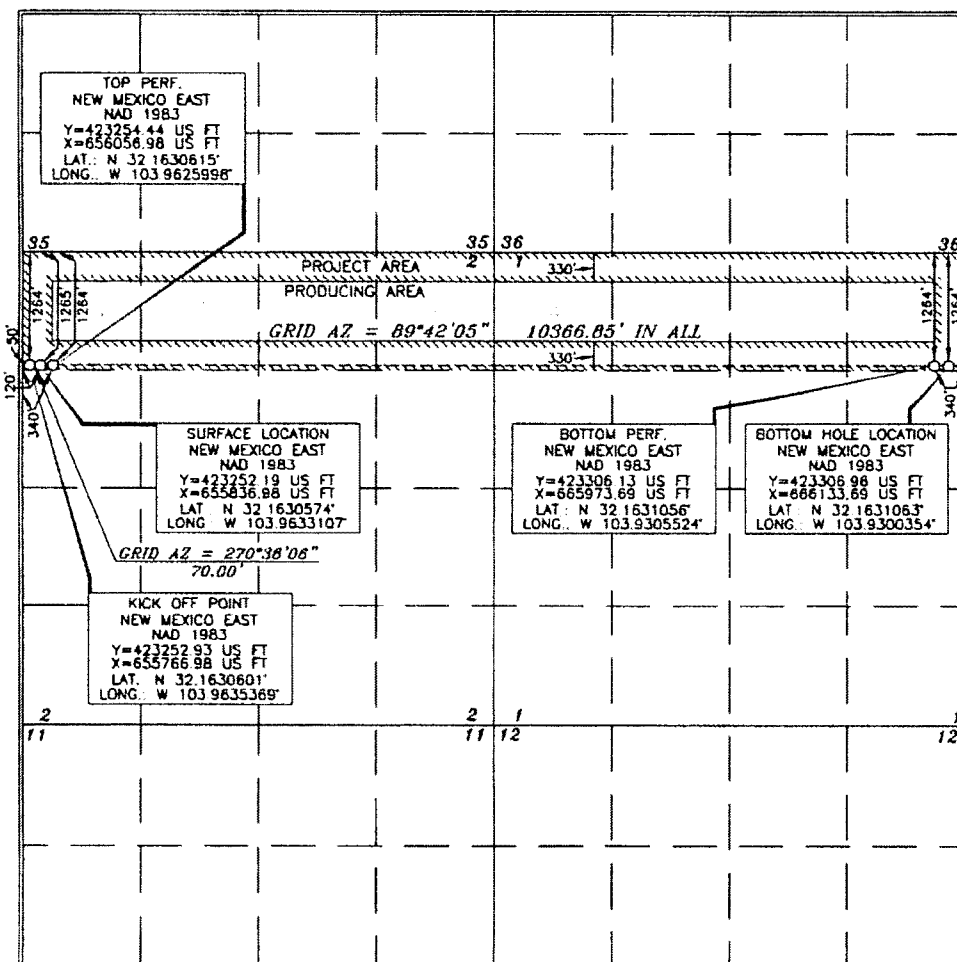
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	25 SOUTH	29 EAST, N.M.P.M.		1265'	NORTH	120'	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
1	1	25 SOUTH	29 EAST, N.M.P.M.		1264'	NORTH	180'	EAST	EDDY
Dedicated Acres 320	Joint or Infill Y	Consolidation Code	Order No. 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 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: **10/23/17**
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 placed 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.

Date of Survey: **JULY 25, 2017**
Signature and Seal of Professional Surveyor: *Terry Hall* 9/29/2017
Certificate Number: **15079**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
8111 S. First St., Artesia, NM 88210
Phone: (575) 748-1281 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 Bone Spring, East
Property Code	Property Name CORRAL FLY "02-01" STATE	Well Number 21H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2996.6'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	25 SOUTH	29 EAST, N.M.P.M.		1230'	NORTH	120'	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
1	1	25 SOUTH	29 EAST, N.M.P.M.		470'	NORTH	180'	EAST	EDDY
Dedicated Acres 320	Joint or Infill ?	Consolidation Code	Order No.						

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: **10/23/17**
Printed Name: **David Stewart Sr. Reg. Asst**
E-mail Address: **david_stewart@oxy.com**

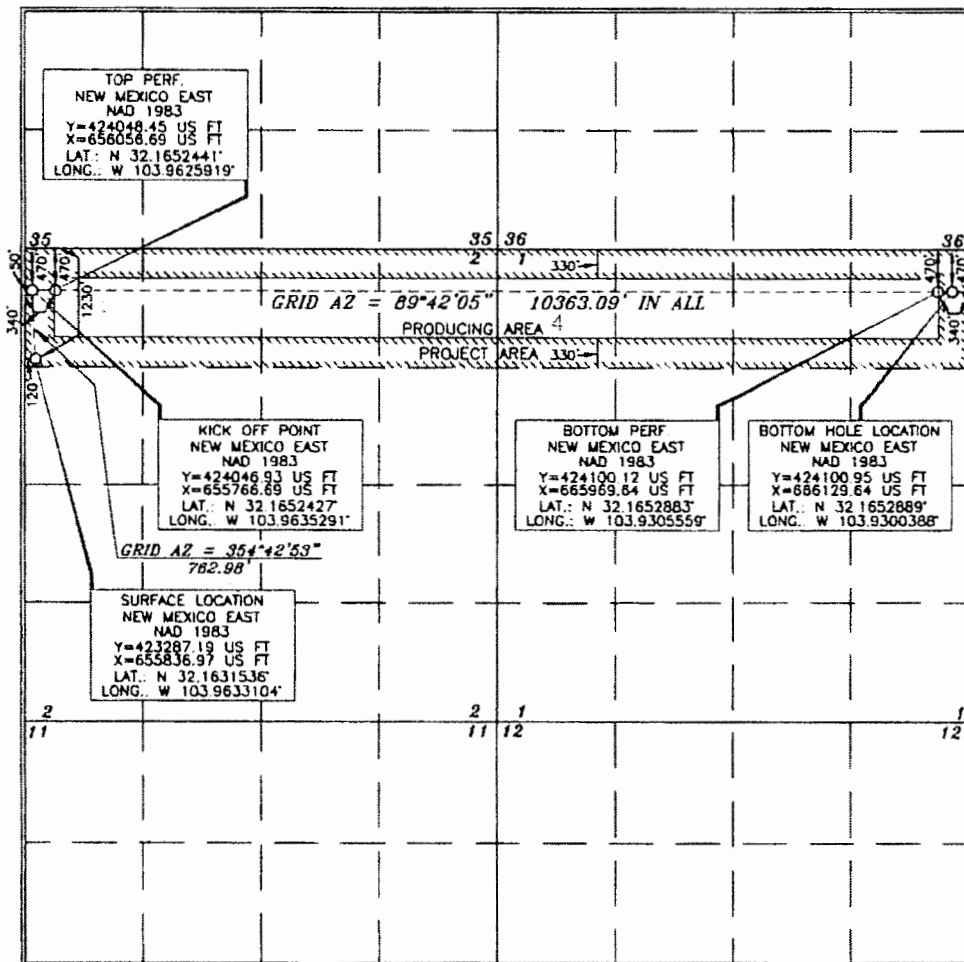
SURVEYOR CERTIFICATION

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 are true and correct to the best of my belief.

Signature: **Tommy Alsal** Date of Survey: **9/10/2017**
Professional Surveyor: **15079**

Certificate Number: **15079**

WOF 170725WL-a (XA)



District I
 1625 N. Francis Dr., Hobbs, NM 88240
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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 Piñon Crossing Bone Springs East
Property Code	Property Name CORRAL FLY "02-01" STATE	Well Number 23H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2995.5'

Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	25 SOUTH	29 EAST, N.M.P.M.		1300'	NORTH	120'	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
H	1	25 SOUTH	29 EAST, N.M.P.M.		2160'	NORTH	180'	EAST	EDDY

Dedicated Acres 320	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 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.

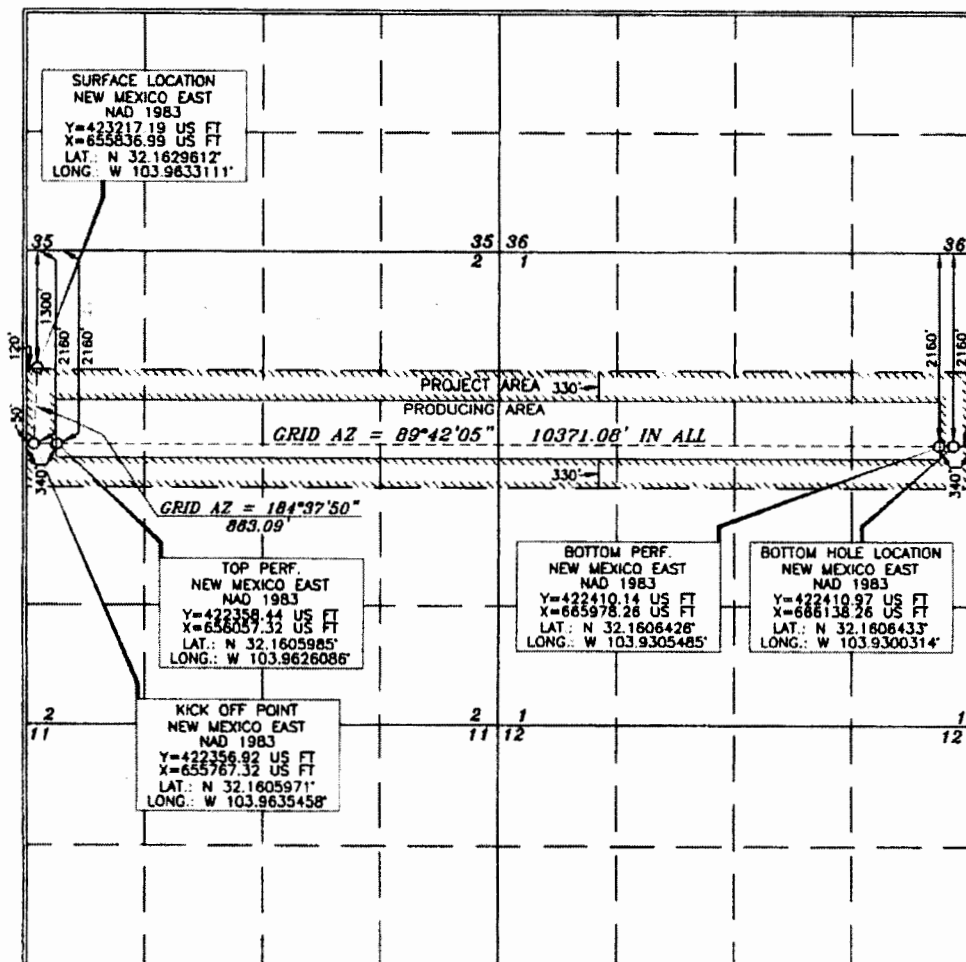
Signature: David Stewart Date: 10/23/17
 Printed Name: David Stewart SR. Reg. Adu.
 E-mail Address: David_Stewart@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this
 plat was plotted from 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.

Date of Survey: July 23, 2017
 Signature and Seal of Professional Surveyor:
Terry J. Asel 9/20/2017
 Certificate Number: 15079

WO# 170725WL-C (KA)



Application Non-Standard Location - Service List

1

OXY USA Inc.

Corral Fly State 02-01 State 22H

New Mexico Oil Conservation Division
811 S. First St.
Artesia, NM 88210
7017-0190-0000-4588-1153

New Mexico State Land Office
P. O. Box 1148
Santa Fe, NM 87504
7017-0190-0000-4588

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
7017-0190-0000-4588-1160

United States Dept of Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220
7017-0190-0000-4588

**T25S R29E, Eddy County
Section 1 & 2 - Lots 1, 2, 3, 4**

OXY USA Inc. -**58.75% WI**
P.O. Box 50250
Midland, Texas 79710

COG Operating LLC - **18.75% WI**
600 W. Illinois Avenue
Midland, Texas 79701
7017-0190-0000-4588

EOG A Resources Inc.- **2.5% WI**
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1009

EOG M Resources Inc.- **2.5% WI**
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1016

EOG Y Resources Inc.- **17.5%**
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1023

Section 1

Units G, H ✕

EOG A Resources Inc.- **10% WI**
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1009

EOG M Resources Inc.- **10% WI**
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1016

EOG Y Resources Inc.- **70%**
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1023

OXY Y-1 Company - **10%**
P.O. Box 50250
Midland, Texas 79710

Units E, F ✕

COG Operating LLC - **75% WI**
600 W. Illinois Avenue
Midland, Texas 79701
7017-0190-0000-4588

OXY USA Inc.- **25%WI**
P.O. Box 50250
Midland, Texas 79710

Section 2

Units E, F, H ✕

OXY USA Inc. -**100% WI**
P.O. Box 50250
Midland, Texas 79710

Unit G ✕

Vanguard Operating LLC- **37.5% WI**
5847 San Felipe, Suite 3000
Houston, Texas 77057
7017-0190-0000-4588

OXY USA WTP Limited Partnership- **62.5% WI**
P.O. Box 50250
Midland, Texas 79710

Application Non-Standard Location - Service List
OXY USA Inc.
Corral Fly State 02-01 State 22H

Section 3- Unit H X
XTO Resources Inc.- 100%
810 Houston Street
Fort Worth Texas 76102
7017-0190-0000-4588-1214

T25S-R30E, Eddy County

Section 6- Units E X
EOG A Resources Inc.- 10% WI
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1009

EOG M Resources Inc.- 10% WI
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1016

EOG Y Resources Inc.- 70%
5509 Champions Drive
Midland, Texas 79706
7017-0190-0000-4588-1023

OXY Y-1 Company- 10%
P.O. Box 50250
Midland, Texas 79710

Copies of this application were mailed to the following individuals, companies and organizations on or before
07-Nov-2017



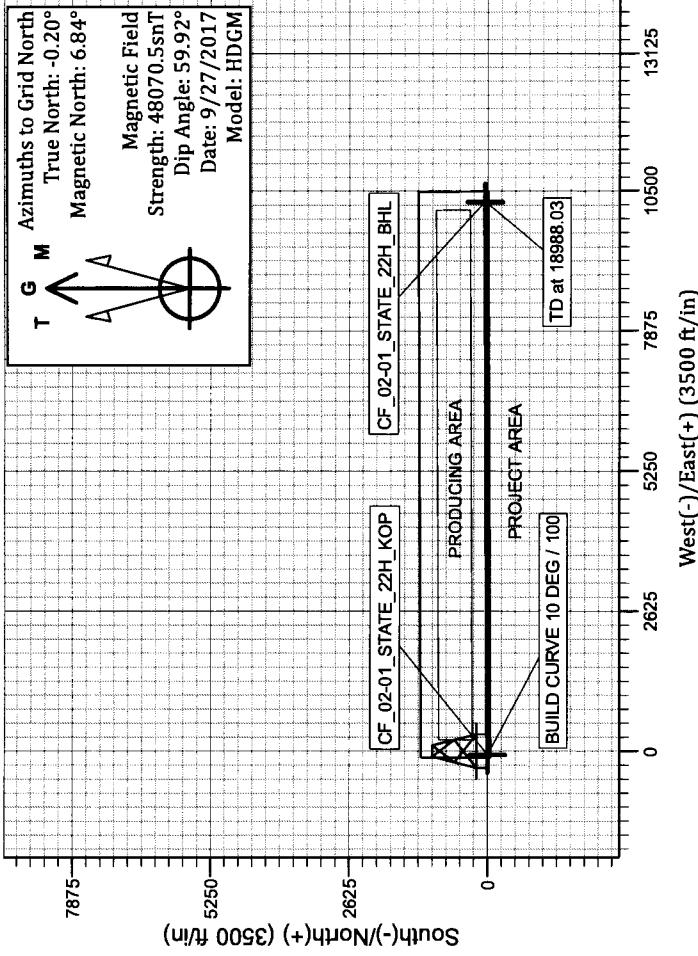
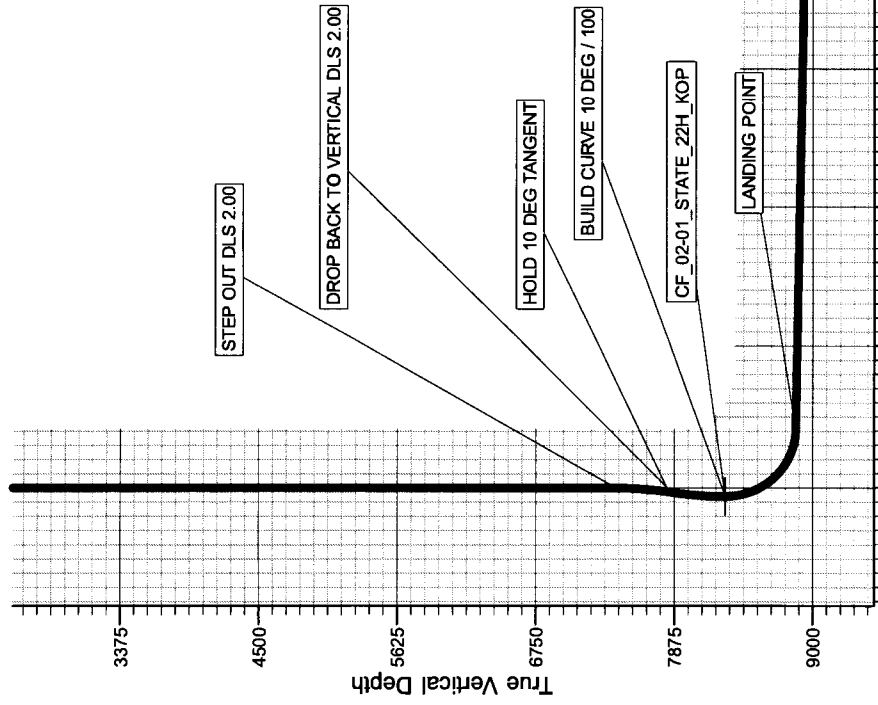
Sarah Mitchell
OXY USA Inc.



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 22H
Wellbore: WB00
Design: Permitting Plan

WELL DETAILS: CORRAL FLY 02-01 STATE 22H

Ground Level: 2995.70
Northing: 423252.19
Eastings: 655836.98
Datum @ 3022.20ft
+N/-S: 0.00
+E/-W: 0.00
Latitude: 32° 9' 47.006656 N
Longitude: 103° 57' 47.918646 W



PROJECT DETAILS: 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	7395.00	0.00	0.00	7395.00	0.00	0.00	0.00	0.00	0.00		
3	7831.87	8.74	270.61	7830.18	0.35	-33.24	2.00	270.61	-33.24		
4	7855.02	8.74	270.61	7853.06	0.39	-36.76	2.00	0.00	-36.76		
5	8291.89	0.00	89.70	8288.24	0.74	-70.01	2.00	180.00	-70.00		CF_02-01_STATE_22H_KOP
6	9181.89	89.00	89.70	8861.11	3.67	492.95	10.00	89.70	492.96		LANDING POINT
7	18988.03	89.04	89.70	9029.20	54.77	10297.51	0.00	0.00	10297.66		CF_02-01_STATE_22H_BHL

STEP OUT DLS 2.00
HOLD 10 DEG TANGENT
DROP BACK TO VERTICAL DLS 2.00
BUILD CURVE 10 DEG / 100
LANDING POINT
TD at 18988.03

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 22H
TVD Reference: Datum @ 3022.20ft
MD Reference: Datum @ 3022.20ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 FLY 02-01 STATE			
Site Position:		Northing:	423,287.19 usft	Latitude: 32° 9' 47.353015 N
From: Map		Easting:	655,836.97 usft	Longitude: 103° 57' 47.917362 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.20 °

Well	CORRAL FLY 02-01 STATE 22H			
Well Position	+N-S	-35.00 ft	Northing:	423,252.19 usft
	+E-W	0.01 ft	Easting:	655,836.98 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft
			Ground Level:	2,995.70 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/27/2017	7.03	59.92	48,071

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)	Direction (°)
	0.00	0.00	0.00	89.70

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	
7,395.00	0.00	0.00	7,395.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,831.87	8.74	270.61	7,830.18	0.35	-33.24	2.00	2.00	0.00	270.61	
7,855.02	8.74	270.61	7,853.06	0.39	-36.76	0.00	0.00	0.00	0.00	
8,291.89	0.00	89.70	8,288.24	0.74	-70.01	2.00	-2.00	0.00	180.00	CF_02-01_STATE_
9,181.89	89.00	89.70	8,861.11	3.67	492.95	10.00	10.00	0.00	89.70	
18,988.03	89.04	89.70	9,029.20	54.77	10,297.51	0.00	0.00	0.00	0.00	CF_02-01_STATE_

Oxy Planning Report

Database: HOPSPP
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Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 22H
TVD Reference: Datum @ 3022.20ft
MD Reference: Datum @ 3022.20ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
3,700.00	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
4,100.00	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
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
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Site: CORRAL FLY 02-01 STATE
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,395.00	0.00	0.00	7,395.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.10	270.61	7,400.00	0.00	0.00	0.00	2.00	2.00	0.00
7,500.00	2.10	270.61	7,499.98	0.02	-1.92	-1.92	2.00	2.00	0.00
7,600.00	4.10	270.61	7,599.83	0.08	-7.33	-7.33	2.00	2.00	0.00
7,700.00	6.10	270.61	7,699.42	0.17	-16.22	-16.22	2.00	2.00	0.00
7,800.00	8.10	270.61	7,798.65	0.30	-28.58	-28.58	2.00	2.00	0.00
7,831.87	8.74	270.61	7,830.18	0.35	-33.24	-33.24	2.00	2.00	0.00
7,855.02	8.74	270.61	7,853.06	0.39	-36.76	-36.76	0.00	0.00	0.00
7,900.00	7.84	270.61	7,897.57	0.46	-43.24	-43.24	2.00	-2.00	0.00
8,000.00	5.84	270.61	7,996.85	0.58	-55.15	-55.14	2.00	-2.00	0.00
8,100.00	3.84	270.61	8,096.49	0.67	-63.58	-63.58	2.00	-2.00	0.00
8,200.00	1.84	270.61	8,196.36	0.72	-68.53	-68.53	2.00	-2.00	0.00
8,291.89	0.00	89.70	8,288.24	0.74	-70.01	-70.00	2.00	-2.00	0.00
8,300.00	0.81	89.70	8,296.35	0.74	-69.95	-69.94	10.00	10.00	0.00
8,400.00	10.81	89.70	8,395.71	0.79	-59.84	-59.83	10.00	10.00	0.00
8,500.00	20.81	89.70	8,491.80	0.93	-32.63	-32.62	10.00	10.00	0.00
8,600.00	30.81	89.70	8,581.71	1.16	10.86	10.86	10.00	10.00	0.00
8,700.00	40.81	89.70	8,662.71	1.47	69.29	69.30	10.00	10.00	0.00
8,800.00	50.81	89.70	8,732.32	1.84	140.91	140.91	10.00	10.00	0.00
8,900.00	60.81	89.70	8,788.44	2.27	223.52	223.53	10.00	10.00	0.00
9,000.00	70.81	89.70	8,829.37	2.74	314.62	314.63	10.00	10.00	0.00
9,100.00	80.81	89.70	8,853.85	3.25	411.45	411.46	10.00	10.00	0.00
9,181.89	89.00	89.70	8,861.11	3.67	492.95	492.96	10.00	10.00	0.00
9,200.00	89.00	89.70	8,861.43	3.77	511.05	511.06	0.00	0.00	0.00
9,300.00	89.00	89.70	8,863.17	4.29	611.03	611.05	0.00	0.00	0.00
9,400.00	89.00	89.70	8,864.92	4.81	711.02	711.03	0.00	0.00	0.00
9,500.00	89.00	89.70	8,866.66	5.33	811.00	811.02	0.00	0.00	0.00
9,600.00	89.00	89.70	8,868.40	5.85	910.98	911.00	0.00	0.00	0.00
9,700.00	89.00	89.70	8,870.15	6.37	1,010.97	1,010.99	0.00	0.00	0.00
9,800.00	89.00	89.70	8,871.89	6.90	1,110.95	1,110.97	0.00	0.00	0.00
9,900.00	89.00	89.70	8,873.63	7.42	1,210.93	1,210.96	0.00	0.00	0.00
10,000.00	89.00	89.70	8,875.37	7.94	1,310.92	1,310.94	0.00	0.00	0.00
10,100.00	89.00	89.70	8,877.11	8.46	1,410.90	1,410.93	0.00	0.00	0.00
10,200.00	89.00	89.70	8,878.85	8.98	1,510.88	1,510.91	0.00	0.00	0.00

Oxy Planning Report

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Survey Calculation Method: Minimum Curvature

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	89.00	89.70	8,880.59	9.50	1,610.87	1,610.89	0.00	0.00	0.00
10,400.00	89.00	89.70	8,882.32	10.02	1,710.85	1,710.88	0.00	0.00	0.00
10,500.00	89.00	89.70	8,884.06	10.54	1,810.83	1,810.86	0.00	0.00	0.00
10,600.00	89.01	89.70	8,885.80	11.06	1,910.82	1,910.85	0.00	0.00	0.00
10,700.00	89.01	89.70	8,887.53	11.58	2,010.80	2,010.83	0.00	0.00	0.00
10,800.00	89.01	89.70	8,889.27	12.11	2,110.78	2,110.82	0.00	0.00	0.00
10,900.00	89.01	89.70	8,891.00	12.63	2,210.77	2,210.80	0.00	0.00	0.00
11,000.00	89.01	89.70	8,892.74	13.15	2,310.75	2,310.79	0.00	0.00	0.00
11,100.00	89.01	89.70	8,894.47	13.67	2,410.74	2,410.77	0.00	0.00	0.00
11,200.00	89.01	89.70	8,896.20	14.19	2,510.72	2,510.76	0.00	0.00	0.00
11,300.00	89.01	89.70	8,897.94	14.71	2,610.70	2,610.74	0.00	0.00	0.00
11,400.00	89.01	89.70	8,899.67	15.23	2,710.69	2,710.73	0.00	0.00	0.00
11,500.00	89.01	89.70	8,901.40	15.75	2,810.67	2,810.71	0.00	0.00	0.00
11,600.00	89.01	89.70	8,903.13	16.27	2,910.65	2,910.70	0.00	0.00	0.00
11,700.00	89.01	89.70	8,904.86	16.80	3,010.64	3,010.68	0.00	0.00	0.00
11,800.00	89.01	89.70	8,906.59	17.32	3,110.62	3,110.67	0.00	0.00	0.00
11,900.00	89.01	89.70	8,908.32	17.84	3,210.61	3,210.65	0.00	0.00	0.00
12,000.00	89.01	89.70	8,910.04	18.36	3,310.59	3,310.64	0.00	0.00	0.00
12,100.00	89.01	89.70	8,911.77	18.88	3,410.57	3,410.62	0.00	0.00	0.00
12,200.00	89.01	89.70	8,913.50	19.40	3,510.56	3,510.61	0.00	0.00	0.00
12,300.00	89.01	89.70	8,915.22	19.92	3,610.54	3,610.59	0.00	0.00	0.00
12,400.00	89.01	89.70	8,916.95	20.44	3,710.52	3,710.58	0.00	0.00	0.00
12,500.00	89.01	89.70	8,918.67	20.96	3,810.51	3,810.57	0.00	0.00	0.00
12,600.00	89.01	89.70	8,920.40	21.49	3,910.49	3,910.55	0.00	0.00	0.00
12,700.00	89.01	89.70	8,922.12	22.01	4,010.48	4,010.54	0.00	0.00	0.00
12,800.00	89.01	89.70	8,923.84	22.53	4,110.46	4,110.52	0.00	0.00	0.00
12,900.00	89.01	89.70	8,925.56	23.05	4,210.44	4,210.51	0.00	0.00	0.00
13,000.00	89.01	89.70	8,927.29	23.57	4,310.43	4,310.49	0.00	0.00	0.00
13,100.00	89.01	89.70	8,929.01	24.09	4,410.41	4,410.48	0.00	0.00	0.00
13,200.00	89.01	89.70	8,930.73	24.61	4,510.39	4,510.46	0.00	0.00	0.00
13,300.00	89.01	89.70	8,932.45	25.13	4,610.38	4,610.45	0.00	0.00	0.00
13,400.00	89.02	89.70	8,934.16	25.65	4,710.36	4,710.43	0.00	0.00	0.00
13,500.00	89.02	89.70	8,935.88	26.18	4,810.35	4,810.42	0.00	0.00	0.00
13,600.00	89.02	89.70	8,937.60	26.70	4,910.33	4,910.40	0.00	0.00	0.00
13,700.00	89.02	89.70	8,939.32	27.22	5,010.31	5,010.39	0.00	0.00	0.00
13,800.00	89.02	89.70	8,941.03	27.74	5,110.30	5,110.37	0.00	0.00	0.00
13,900.00	89.02	89.70	8,942.75	28.26	5,210.28	5,210.36	0.00	0.00	0.00
14,000.00	89.02	89.70	8,944.46	28.78	5,310.27	5,310.34	0.00	0.00	0.00
14,100.00	89.02	89.70	8,946.18	29.30	5,410.25	5,410.33	0.00	0.00	0.00
14,200.00	89.02	89.70	8,947.89	29.82	5,510.23	5,510.31	0.00	0.00	0.00
14,300.00	89.02	89.70	8,949.60	30.34	5,610.22	5,610.30	0.00	0.00	0.00
14,400.00	89.02	89.70	8,951.32	30.87	5,710.20	5,710.28	0.00	0.00	0.00
14,500.00	89.02	89.70	8,953.03	31.39	5,810.19	5,810.27	0.00	0.00	0.00
14,600.00	89.02	89.70	8,954.74	31.91	5,910.17	5,910.26	0.00	0.00	0.00
14,700.00	89.02	89.70	8,956.45	32.43	6,010.15	6,010.24	0.00	0.00	0.00
14,800.00	89.02	89.70	8,958.16	32.95	6,110.14	6,110.23	0.00	0.00	0.00
14,900.00	89.02	89.70	8,959.87	33.47	6,210.12	6,210.21	0.00	0.00	0.00
15,000.00	89.02	89.70	8,961.58	33.99	6,310.11	6,310.20	0.00	0.00	0.00
15,100.00	89.02	89.70	8,963.29	34.51	6,410.09	6,410.18	0.00	0.00	0.00
15,200.00	89.02	89.70	8,964.99	35.03	6,510.07	6,510.17	0.00	0.00	0.00
15,300.00	89.02	89.70	8,966.70	35.56	6,610.06	6,610.15	0.00	0.00	0.00
15,400.00	89.02	89.70	8,968.41	36.08	6,710.04	6,710.14	0.00	0.00	0.00
15,500.00	89.02	89.70	8,970.11	36.60	6,810.03	6,810.12	0.00	0.00	0.00
15,600.00	89.02	89.70	8,971.82	37.12	6,910.01	6,910.11	0.00	0.00	0.00

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 22H
TVD Reference: Datum @ 3022.20ft
MD Reference: Datum @ 3022.20ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	89.02	89.70	8,973.52	37.64	7,009.99	7,010.10	0.00	0.00	0.00
15,800.00	89.02	89.70	8,975.22	38.16	7,109.98	7,110.08	0.00	0.00	0.00
15,900.00	89.02	89.70	8,976.93	38.68	7,209.96	7,210.07	0.00	0.00	0.00
16,000.00	89.02	89.70	8,978.63	39.20	7,309.95	7,310.05	0.00	0.00	0.00
16,100.00	89.03	89.70	8,980.33	39.72	7,409.93	7,410.04	0.00	0.00	0.00
16,200.00	89.03	89.70	8,982.03	40.25	7,509.91	7,510.02	0.00	0.00	0.00
16,300.00	89.03	89.70	8,983.73	40.77	7,609.90	7,610.01	0.00	0.00	0.00
16,400.00	89.03	89.70	8,985.43	41.29	7,709.88	7,709.99	0.00	0.00	0.00
16,500.00	89.03	89.70	8,987.13	41.81	7,809.87	7,809.98	0.00	0.00	0.00
16,600.00	89.03	89.70	8,988.83	42.33	7,909.85	7,909.96	0.00	0.00	0.00
16,700.00	89.03	89.70	8,990.53	42.85	8,009.84	8,009.95	0.00	0.00	0.00
16,800.00	89.03	89.70	8,992.22	43.37	8,109.82	8,109.94	0.00	0.00	0.00
16,900.00	89.03	89.70	8,993.92	43.89	8,209.80	8,209.92	0.00	0.00	0.00
17,000.00	89.03	89.70	8,995.62	44.41	8,309.79	8,309.91	0.00	0.00	0.00
17,100.00	89.03	89.70	8,997.31	44.94	8,409.77	8,409.89	0.00	0.00	0.00
17,200.00	89.03	89.70	8,999.01	45.46	8,509.76	8,509.88	0.00	0.00	0.00
17,300.00	89.03	89.70	9,000.70	45.98	8,609.74	8,609.86	0.00	0.00	0.00
17,400.00	89.03	89.70	9,002.39	46.50	8,709.73	8,709.85	0.00	0.00	0.00
17,500.00	89.03	89.70	9,004.09	47.02	8,809.71	8,809.84	0.00	0.00	0.00
17,600.00	89.03	89.70	9,005.78	47.54	8,909.69	8,909.82	0.00	0.00	0.00
17,700.00	89.03	89.70	9,007.47	48.06	9,009.68	9,009.81	0.00	0.00	0.00
17,800.00	89.03	89.70	9,009.16	48.58	9,109.66	9,109.79	0.00	0.00	0.00
17,900.00	89.03	89.70	9,010.85	49.10	9,209.65	9,209.78	0.00	0.00	0.00
18,000.00	89.03	89.70	9,012.54	49.63	9,309.63	9,309.76	0.00	0.00	0.00
18,100.00	89.03	89.70	9,014.23	50.15	9,409.62	9,409.75	0.00	0.00	0.00
18,200.00	89.03	89.70	9,015.92	50.67	9,509.60	9,509.74	0.00	0.00	0.00
18,300.00	89.03	89.70	9,017.61	51.19	9,609.59	9,609.72	0.00	0.00	0.00
18,400.00	89.03	89.70	9,019.29	51.71	9,709.57	9,709.71	0.00	0.00	0.00
18,500.00	89.03	89.70	9,020.98	52.23	9,809.55	9,809.69	0.00	0.00	0.00
18,600.00	89.03	89.70	9,022.66	52.75	9,909.54	9,909.68	0.00	0.00	0.00
18,700.00	89.03	89.70	9,024.35	53.27	10,009.52	10,009.66	0.00	0.00	0.00
18,800.00	89.04	89.70	9,026.03	53.79	10,109.51	10,109.65	0.00	0.00	0.00
18,900.00	89.04	89.70	9,027.72	54.32	10,209.49	10,209.64	0.00	0.00	0.00
18,988.03	89.04	89.70	9,029.20	54.77	10,297.51	10,297.66	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
CF_02-01_STATE_22 - plan hits target center - Point	0.00	0.00	8,288.24	0.74	-70.01	423,252.93	655,766.98	32° 9' 47.016360 N	103° 57' 48.732978
CF_02-01_STATE_22 - plan hits target center - Point	0.00	0.00	9,029.20	54.77	10,297.51	423,306.96	666,133.69	32° 9' 47.182598 N	103° 55' 48.127278

Oxy

Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 22H
TVD Reference: Datum @ 3022.20ft
MD Reference: Datum @ 3022.20ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,395.00	7,395.00	0.00	0.00	STEP OUT DLS 2.00
7,831.87	7,830.18	0.35	-33.24	HOLD 10 DEG TANGENT
7,855.02	7,853.06	0.39	-36.76	DROP BACK TO VERTICAL DLS 2.00
8,291.89	8,288.24	0.74	-70.01	BUILD CURVE 10 DEG / 100
9,181.89	8,861.11	3.67	492.95	LANDING POINT
18,988.03	9,029.20	54.77	10,297.51	TD at 18988.03



Occidental Oil and Gas Corporation
ATTN: Kacie Cruz
5 Greenway Plaza, Suite 110
Houston, TX 77046
713-350-4889
kacie_cruz@oxy.com

November 7, 2017

Mr. Leonard Lowe
New Mexico Oil Conservation Division
1220 South Francis Drive
Santa Fe, New Mexico 87505

RE: Application for Nonstandard Location—Engineering Justification
OXY USA Inc.
Corral Fly 02-01 State #22H
N/2 N/2 Sections 1 and 2, T25S-R29E, Eddy County

Dear Mr. Lowe:

Oxy USA Inc. respectfully seeks approval for non-standard locations, increasing horizontal well spacing from 4 wells per section ("wps") to 6 wps to effectively develop the Bone Spring and Wolfcamp formations. It is Oxy's responsibility as a prudent operator to optimize well spacing for horizontal development and minimize reserves left in the ground. 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 be "Kacie Cruz", written in a cursive, flowing style.

Kacie Cruz
Development Production Engineer

From: [Lowe, Leonard, EMNRD](#)
To: ["Sarah_Mitchell@oxy.com"](mailto:Sarah_Mitchell@oxy.com)
Cc: [Podany, Raymond, EMNRD](#); [McMillan, Michael, EMNRD](#); [Goetze, Phillip, EMNRD](#); [Jones, William V, EMNRD](#); ["lisa@rwbyram.com"](mailto:lisa@rwbyram.com); [Martin, Ed](#); [Holm, Anchor E.](#)
Subject: APPROVED: NSL-7613 (Corral Fly 02-01 State Well No. 22H) & NSL-7614 (Corral Fly 02-01 State Well No. 25H)_SEC 2 25S 29E
Date: Tuesday, December 5, 2017 8:15:00 AM
Importance: High

Ms. Sarah Mitchell,

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-7613

Oxy USA, Inc.

API #: 30-015-PENDING

NAME: Corral Fly 02-01 State Well No. 22H

NSL-7614

Oxy USA, Inc.

API #: 30-015-PENDING

NAME: Corral Fly 02-01 State 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

Office: 505-476-3492

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