

RECEIVED: 02/21/19	REVIEWER: LRL	TYPE: NSL	APP NO: pLEL1905255507
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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: OXY USA INC. OGRID Number: 16696
 Well Name: Corral Canyon 36-25 Federal Com 33H API: 30-015-44643
 Pool: Purple Sage Wolfcamp Gas Pool Code: 98220

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

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A. Offset operators or lease holders
 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

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.

Sarah Chapman

Print or Type Name

Sarah Chapman

Signature

2/19/2019
Date

713-350-4997
Phone Number

sarah_chapman@oxy.com
e-mail Address



OXY USA Inc

5 Greenway Plaza, Suite 110
Houston, TX 77046-0521

February 19, 2019

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 Canyon 36-25 Federal Com 33H – Purple Sage Wolfcamp
Surface – 561' FNL 1563' FWL lot 3 Sec 1 T25S R29E
First Take Point – 112' FSL 2257' FWL Unit N Sec 36 T24S R29E
Last Take Point – 414' FNL 2185' FWL Unit C Sec 25 T24S R29E
Bottom Hole –179' FNL 2178' FWL Unit C Sec 25 T24S R29E
Eddy County, New Mexico***

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Corral Canyon 36-25 Federal Com 33H well, API Number-30-015-44643, Property Code 320631. The 33H well is proposed to be completed in the Purple Sage Wolfcamp Gas pool, Pool Code 98220, which has special pool rules specifying the completed interval must be located 330 feet from the exterior boundary of the applicable spacing unit. The proposed completed interval is projected as follows:

Surface – 561' FNL 1563' FWL lot 3 Sec 1 T25S R29E
First Take Point – 112' FSL 2257' FWL Unit N Sec 36 T24S R29E
Last Take Point – 414' FNL 2185' FWL Unit C Sec 25 T24S R29E
Bottom Hole –179' FNL 2178' FWL Unit C Sec 25 T24S R29E

There is an existing adjoining horizontal spacing unit in the Purple Sage Wolfcamp Gas pool in which OXY USA Inc is the operator to which this unorthodox location encroaches located in T25S R29E, Section 2 – Units A, B, C, D, E, F, G, H and section 1 – units A, B, C, D, E, F, G, H. All working interest owners including the NM State Land Office have been notified and waivers from each are attached.

Approval of the unorthodox completed 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 in each adjoining spacing unit in the same pool or formation located closer to the unorthodox well location than the minimum distance prescribed by applicable rule or order.
4. Statement from Oxy Production Engineer

If you need any additional information, please call me at 713-350-4997.

Sincerely,

Sarah Chapman
Regulatory Specialist

Attachments

CC: NMOCD-Artesia, Service List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: DRILL REENTER		5. Lease Serial No.
1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit or CA Agreement, Name and No.
3a. Address		8. Lease Name and Well No.
3b. Phone No. (include area code)		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease	12. County or Parish
17. Spacing Unit dedicated to this well	13. State	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

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	Name (Printed/Typed)	Date
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Title

Approved by (Signature)	Name (Printed/Typed)	Date
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Title

Office

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

Conditions of approval, if any, are attached.

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)

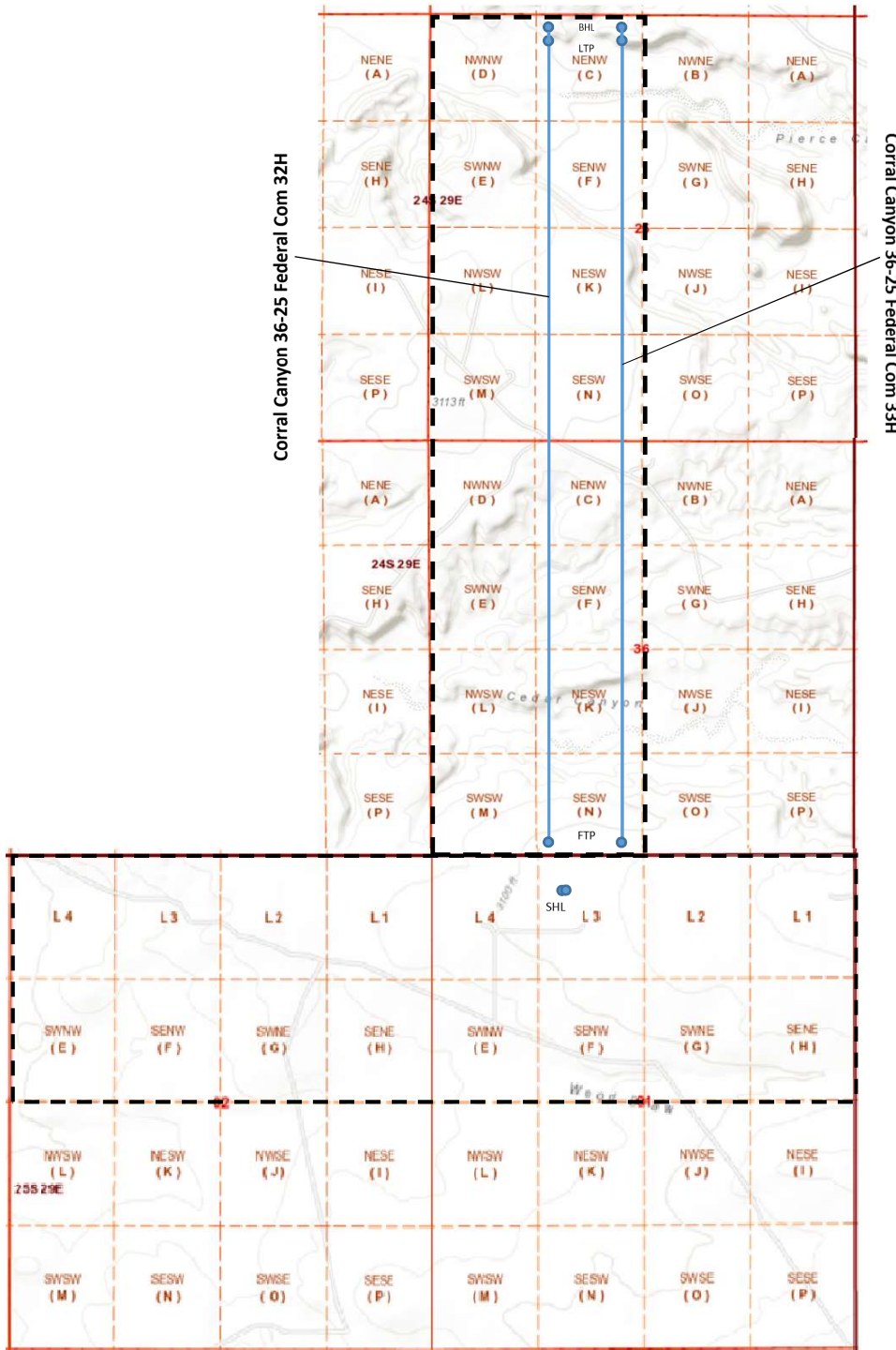


OXY USA Inc.

Corral Canyon 36-25 Federal Com 32H

Corral Canyon 36-25 Federal Com 33H

Sections 25, 26, 35 & 36 Township 24 South, Range 29 East and Sections 1 & 2 Township 25 South, Range 29 East, N.M.P.M., Eddy County, New Mexico



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 Branos 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
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44643	Pool Code 98220	Pool Name Purple Sage Wolfcamp
Property Code 320631	Property Name CORRAL CANYON "36-25" FEDERAL COM	Well Number 33H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3112.5'

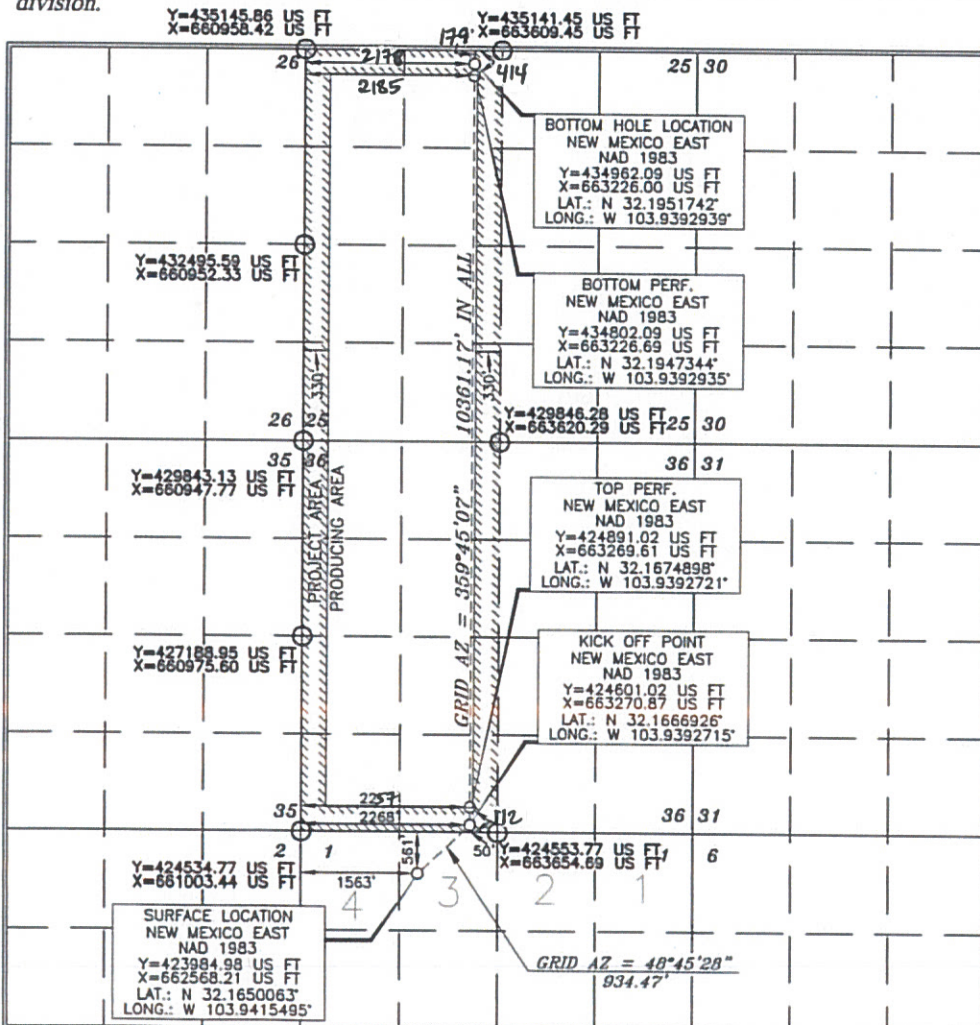
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	1	25 SOUTH	29 EAST, N.M.P.M.		561'	NORTH	1563'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	25	24 SOUTH	29 EAST, N.M.P.M.		100' 179'	NORTH	2269' 2178'	WEST	EDDY
Dedicated Acres 640	Joint or Infill Y	Consolidation Code	Order No.	LTP- 414 FNL 2185 FWL FTP- 112 FSL 2257 FWL					

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: *[Signature]* Date: **2/19/19**
Printed Name: **Jana Mendiola**
E-mail Address: **janaolyn_mendiola@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 24, 2017**
Signature and Seal of Professional Surveyor: *[Signature]*
Certificate Number: **15079**

Intent As Drilled

API #									
Operator Name:					Property Name:				Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #									
Operator Name:					Property Name:				Well Number

Application Non-Standard Location - Service List**OXY USA Inc.****Corral Canyon 36-25 Federal Com 33H**

New Mexico Oil Conservation Division
811 S. First St.
Artesia, NM 88210

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

New Mexico State Land Office
P. O. Box 1148
Santa Fe, NM 87504

Adjoining existing spacing unit in sections 1 and 2, T25S-R29E**Section 1 - Units A, B, C, D, E, F, G, H and Section 2 - Units A, B, C, D, E, F, G, H****OXY USA Inc. is the operator and there is one working interest owner:**

Vanguard Operating, LLC
5847 San Felipe, Suite 3000
Houston, TX 77057

Copies of this application were mailed to the following individuals, companies and organizations on or before Feb 19, 2019 and waivers have been received for all affected persons.



Sarah Chapman
OXY USA Inc.



OXY USA Inc.

A subsidiary of Occidental Petroleum Corporation

5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521
P.O. Box 27570, Houston, Texas 77227-7570

February 20, 2019

DELIVERED VIA E-MAIL

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

Re: Request of Waiver of Objection and Hearing for NSL Applications
Corral Canyon 36-25 Fed Com #32H
(API: 30-015-44642)
SHL - 561' FNL; 1,528' FWL - Sec. 1, T25S-R29E
BHL - 183' FNL; 1,378' FWL - Sec. 25, T25S-R29E
Corral Canyon 36-25 Fed Com #33H
(API: 30-015-44643)
SHL - 561' FNL; 1,563' FWL - Sec. 1, T25S-R29E
BHL - 179' FNL; 2,178' FWL - Sec. 25, T25S-R29E

To Whom It May Concern:

This is to advise you that OXY USA Inc. ("OXY") is filing applications with the New Mexico Oil Conservation Division, ("NMOCD") seeking approval for Non-standard locations for the mentioned wells (the "wells"). For your review, please find attached a copy of the applications. Any objections or request of a hearing regarding these applications must be submitted to the NMOCD Santa Fe office within 20 days from the date of this letter.

In an effort to expedite the approval of OXY's application, we respectfully request your signature to a waiver of objection or request of hearing for OXY's applications. Should you be in agreement of such waiver, please indicate below and return a copy of this letter to me through email or fax.

Your earliest attention to this matter is greatly appreciated. Please contact me should you have any questions or require any additional information. Thank you in advance for your time.

Very truly yours,

OXY USA Inc.

Jeremy Murphrey, CPL
Land Negotiator Advisor
Dir: 713.350.4816
Fax: 713.985.4942
Email: jeremy_murphrey@oxy.com

New Mexico State Land Office

Waives objection to and request of hearing for the Corral Canyon 36-25 Fed Com #32H & #33H NSL applications.

By: Stephanie Garcia Richard/SS

Name: _____

Title: Commissioner of Public Lands

Date: 2/21/19

Enclosures



OXY USA Inc.

A subsidiary of Occidental Petroleum Corporation

5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521
P.O. Box 27570, Houston, Texas 77227-7570

February 20, 2019

DELIVERED VIA E-MAIL

Vanguard Natural Resources, Inc.
5847 San Felipe, Suite 3000
Houston, TX 77057

Re: Request of Waiver of Objection and Hearing for NSL Applications
Corral Canyon 36-25 Fed Com #32H
(API: 30-015-44642)
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Your earliest attention to this matter is greatly appreciated. Please contact me should you have any questions or require any additional information. Thank you in advance for your time.

Very truly yours,

OXY USA Inc.

Jeremy Murphrey, CPL
Land Negotiator Advisor
Dir: 713.350.4816
Fax: 713.985.4942
Email: jeremy_murphrey@oxy.com

Vanguard Natural Resources, Inc.

Waives objection to and request of hearing for the Corral Canyon 36-25 Fed Com #32H & #33H NSL applications.

By: William Boyd
Name: William Boyd
Title: Landman - Permian
Date: 2/21/2019

Enclosures



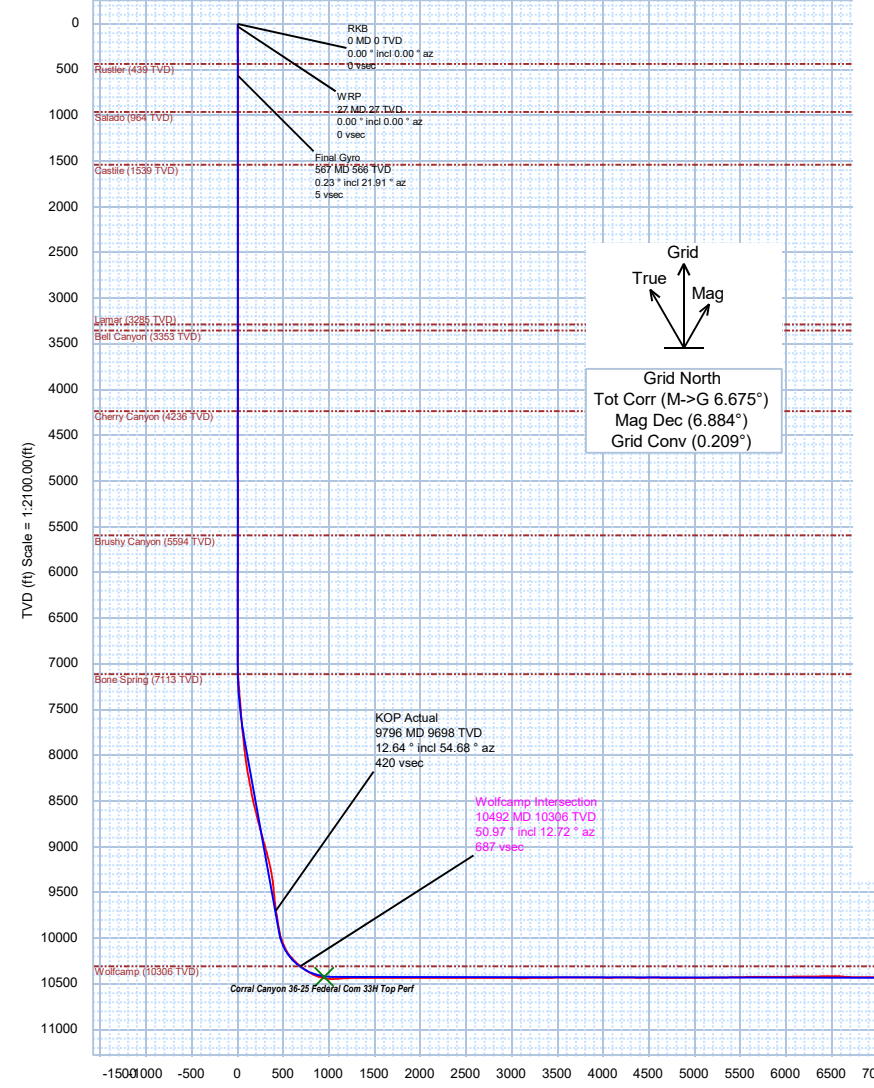
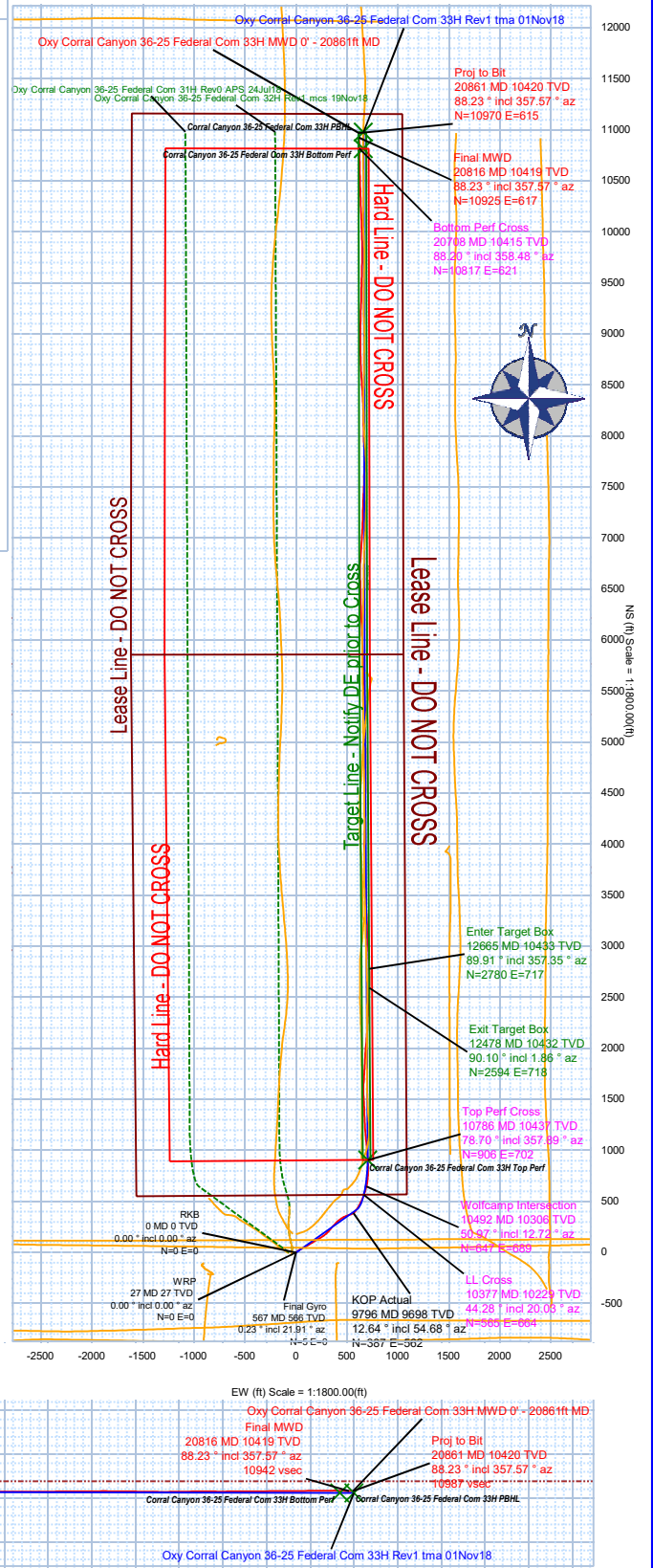
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Corral Canyon 36-25 Federal Com 33H	NM Eddy County (NAD 83)	Oxy Corral Canyon 36-25 Federal Com 33H

Gravity & Magnetic Parameters			Surface Location			NAD83 New Mexico State Plane, Eastern Zone, US Feet			Miscellaneous		
Model: IFR1	Dip: 59.904°	Date: 31-Oct-2018	Lat: N 32 9 54.02	Northing: 423984.881US	Grid Conv: 0.2086°	Slot: Oxy Corral Canyon 36-25 Federal Com 33H	TVD Ref: RKB=26.5'(3139ft above MSL)	Plan: Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD			
MagDec: 6.884°	FS: 48009nT	Gravity FS: 998.45mgn (9.80665 Based)	Lon: W 103 56 29.58	Easting: 662568.21ftUS	Scale Fact: 0.99992592						

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WRP	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Final Gyro	566.50	0.23	21.91	566.47	5.08	5.08	0.18	0.61
KOP Actual	9796.00	12.64	54.68	9697.51	419.69	386.57	562.06	2.73
LL Cross	10376.75	44.28	20.03	10229.13	604.39	565.46	663.90	7.55
Wolfcamp Intersection	10491.58	50.97	12.72	10306.00	687.08	646.78	689.14	8.41
Top Perf Cross	10786.00	78.70	357.89	10437.25	946.36	905.75	702.08	11.21
Exit Target Box	12478.37	90.10	1.86	10432.14	2632.20	2593.69	718.14	2.35
Enter Target Box	12664.77	89.91	357.35	10433.26	2818.15	2780.03	717.18	2.79
Bottom Perf Cross	20707.55	88.20	358.48	10415.33	10834.50	10816.75	620.78	3.15
Final MWD	20816.00	88.23	357.57	10419.08	10942.39	10925.07	616.93	0.84
Proj to Bit	20861.00	88.23	357.57	10420.47	10987.13	10970.00	615.03	0.00



Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD Survey

Geodetic Report

(Def Survey)



Report Date: November 20, 2018 - 06:37 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Corral Canyon 36-25 Federal Com 33H / Oxy Corral Canyon 36-25 Federal Com 33H
Well: Corral Canyon 36-25 Federal Com 33H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44643
Survey Name: Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD
Survey Date: October 09, 2018
Tort / AHD / DDI / ERD Ratio: 349.668 ° / 11330.194 ft / 6.898 / 1.085
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 54.02255", W 103° 56' 29.57834"
Location Grid N/E Y/X: N 423984.980 ftUS, E 662568.210 ftUS
CRS Grid Convergence Angle: 0.2086 °
Grid Scale Factor: 0.99992592
Version / Patch: 2.10.740.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 3.450 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3139.000 ft above MSL
Seabed / Ground Elevation: 3112.500 ft above MSL
Magnetic Declination: 6.884 °
Total Gravity Field Strength: 998.4504mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48009.000 nT
Magnetic Dip Angle: 59.904 °
Declination Date: October 31, 2018
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.2086 °
Total Corr Mag North->Grid North: 6.6754 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423984.98	662568.21	N 32 9 54.02	W 103 56 29.58
WRP	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	423984.98	662568.21	N 32 9 54.02	W 103 56 29.58
	69.88	0.69	356.84	69.88	0.26	0.26	-0.01	1.59	423985.24	662568.20	N 32 9 54.03	W 103 56 29.58
	130.56	0.58	348.29	130.56	0.92	0.93	-0.10	0.24	423985.91	662568.11	N 32 9 54.03	W 103 56 29.58
	215.06	0.66	347.09	215.05	1.80	1.82	-0.29	0.10	423986.80	662567.92	N 32 9 54.04	W 103 56 29.58
	304.54	0.55	348.84	304.53	2.71	2.74	-0.49	0.12	423987.72	662567.72	N 32 9 54.05	W 103 56 29.58
	399.11	0.64	3.30	399.09	3.68	3.72	-0.55	0.18	423988.70	662567.66	N 32 9 54.06	W 103 56 29.58
	493.69	0.65	42.71	493.66	4.62	4.64	-0.15	0.46	423989.62	662568.06	N 32 9 54.07	W 103 56 29.58
Final Gyro	566.50	0.23	21.91	566.47	5.08	5.08	0.18	0.61	423990.06	662568.39	N 32 9 54.07	W 103 56 29.58
	622.00	0.22	70.01	621.97	5.23	5.22	0.32	0.33	423990.20	662568.53	N 32 9 54.07	W 103 56 29.57
	714.00	0.03	27.63	713.97	5.32	5.30	0.50	0.22	423990.28	662568.71	N 32 9 54.07	W 103 56 29.57
	806.00	0.03	160.75	805.97	5.32	5.30	0.52	0.06	423990.28	662568.73	N 32 9 54.07	W 103 56 29.57
	899.00	0.07	27.12	898.97	5.35	5.32	0.55	0.10	423990.30	662568.76	N 32 9 54.08	W 103 56 29.57
	991.00	0.03	186.17	990.97	5.38	5.35	0.58	0.11	423990.33	662568.79	N 32 9 54.08	W 103 56 29.57
	1084.00	0.03	165.43	1083.97	5.33	5.30	0.58	0.01	423990.28	662568.79	N 32 9 54.08	W 103 56 29.57
	1176.00	0.07	94.26	1175.97	5.30	5.27	0.64	0.07	423990.25	662568.85	N 32 9 54.07	W 103 56 29.57
	1268.00	0.07	85.29	1267.97	5.31	5.28	0.75	0.01	423990.25	662568.96	N 32 9 54.07	W 103 56 29.57
	1361.00	0.07	49.60	1360.97	5.36	5.32	0.85	0.05	423990.30	662569.06	N 32 9 54.08	W 103 56 29.57
	1453.00	0.07	115.44	1452.97	5.38	5.33	0.95	0.08	423990.31	662569.16	N 32 9 54.08	W 103 56 29.57
	1545.00	0.03	278.05	1544.97	5.36	5.31	0.97	0.11	423990.29	662569.18	N 32 9 54.08	W 103 56 29.57
	1639.00	0.08	175.43	1638.97	5.29	5.25	0.95	0.10	423990.23	662569.16	N 32 9 54.07	W 103 56 29.57
	1733.00	0.03	163.84	1732.97	5.21	5.16	0.97	0.05	423990.14	662569.18	N 32 9 54.07	W 103 56 29.57
	1828.00	0.07	222.59	1827.97	5.14	5.09	0.93	0.06	423990.07	662569.14	N 32 9 54.07	W 103 56 29.57
	1922.00	0.07	157.29	1921.97	5.04	5.00	0.92	0.08	423989.98	662569.13	N 32 9 54.07	W 103 56 29.57
	2111.00	0.03	129.66	2110.97	4.91	4.86	1.00	0.02	423989.84	662569.21	N 32 9 54.07	W 103 56 29.57
	2205.00	0.07	260.36	2204.97	4.88	4.83	0.96	0.10	423989.81	662569.17	N 32 9 54.07	W 103 56 29.57
	2299.00	0.07	289.45	2298.97	4.88	4.84	0.85	0.04	423989.82	662569.06	N 32 9 54.07	W 103 56 29.57
	2393.00	0.13	104.46	2392.97	4.88	4.83	0.90	0.21	423989.81	662569.11	N 32 9 54.07	W 103 56 29.57
	2488.00	0.12	148.85	2487.97	4.78	4.72	1.06	0.10	423989.70	662569.27	N 32 9 54.07	W 103 56 29.57
	2582.00	0.21	114.55	2581.97	4.63	4.57	1.26	0.14	423989.55	662569.47	N 32 9 54.07	W 103 56 29.56
	2676.00	0.16	99.53	2675.97	4.56	4.47	1.55	0.07	423989.45	662569.76	N 32 9 54.07	W 103 56 29.56
	2771.00	0.07	115.28	2770.97	4.52	4.43	1.73	0.10	423989.41	662569.94	N 32 9 54.07	W 103 56 29.56
	2865.00	0.10	168.13	2864.97	4.42	4.32	1.80	0.09	423989.30	662570.01	N 32 9 54.07	W 103 56 29.56
	2959.00	0.23	176.00	2958.97	4.16	4.05	1.83	0.14	423989.03	662570.04	N 32 9 54.07	W 103 56 29.56
	3054.00	0.43	194.80	3053.97	3.62	3.52	1.75	0.24	423988.50	662569.96	N 32 9 54.06	W 103 56 29.56
	3148.00	0.31	269.43	3147.97	3.25	3.17	1.41	0.49	423988.15	662569.62	N 32 9 54.05	W 103 56 29.56
	3243.00	0.21	282.34	3242.97	3.26	3.21	0.98	0.12	423988.19	662569.19	N 32 9 54.05	W 103 56 29.57
	3337.00	0.07	312.78	3336.96	3.33	3.28	0.77	0.16	423988.26	662568.98	N 32 9 54.06	W 103 56 29.57
	3431.00	0.07	338.51	3430.96	3.41	3.38	0.71	0.03	423988.36	662568.92	N 32 9 54.06	W 103 56 29.57
	3526.00	0.07	298.68	3525.96	3.49	3.46	0.64	0.05	423988.44	662568.85	N 32 9 54.06	W 103 56 29.57
	3620.00	0.07	216.67	3619.96	3.47	3.44	0.55	0.10	423988.42	662568.76	N 32 9 54.06	W 103 56 29.57
	3714.00	0.07	115.86	3713.96	3.40	3.37	0.57	0.11	423988.35	662568.78	N 32 9 54.06	W 103 56 29.57
	3809.00	0.07	181.89	3808.96	3.32	3.29	0.62	0.08	423988.27	662568.83	N 32 9 54.06	W 103 56 29.57
	3903.00	0.07	98.96	3902.96	3.25	3.22	0.68	0.10	423988.20	662568.89	N 32 9 54.05	W 103 56 29.57
	3998.00	0.03	67.54	3997.96	3.26	3.22	0.76	0.05	423988.20	662568.97	N 32 9 54.05	W 103 56 29.57
	4092.00	0.07	225.54	4091.96	3.23	3.19	0.74	0.10	423988.17	662568.95	N 32 9 54.05	W 103 56 29.57
	4186.00	0.07	233.35	4185.96	3.15	3.12	0.65	0.01	423988.09	662568.86	N 32 9 54.05	W 103 56 29.57
	4281.00	0.07	137.02	4280.96	3.07	3.04	0.64	0.11	423988.02	662568.85	N 32 9 54.05	W 103 56 29.57
	4470.00	0.07	278.75	4469.96	3.00	2.97	0.61	0.07	423987.95	662568.82	N 32 9 54.05	W 103 56 29.57
	4658.00	0.07	137.12	4657.96	2.93	2.90	0.57	0.07	423987.88	662568.78	N 32 9 54.05	W 103 56 29.57
	4753.00	0.07	11.49	4752.96	2.95	2.92	0.62	0.13	423987.90	662568.83	N 32 9 54.05	W 103 56 29.57
	4942.00	0.14	281.01	4941.96	3.10	3.08	0.42	0.08	423988.06	662568.63	N 32 9 54.05	W 103 56 29.57
	5036.00	0.13	292.66	5035.96	3.15	3.14	0.21	0.03	423988.12	662568.42	N 32 9 54.05	W 103 56 29.58
	5130.00	0.09	268.76	5129.96	3.17	3.18	0.04	0.06	423988.16	662568.25	N 32 9 54.05	W 103 56 29.58
	5225.00	0.08	294.91	5224.96	3.19	3.20	-0.10	0.04	423988.18	662568.11	N 32 9 54.05	W 103 56 29.58
	5320.00	0.07	196.12	5319.96	3.16	3.18	-0.17	0.12	423988.16	662568.04	N 32 9 54.05	W 103 56 29.58
	5414.00	0.07	335.71	5413.96	3.16	3.17	-0.21	0.14	423988.15	662568.00	N 32 9 54.05	W 103 56 29.58
	5508.00	0.03	347.92	5507.96	3.23	3.25	-0.24	0.04	423988.23	662567.97	N 32 9 54.05	W 103 56 29.58
	5603.00	0.03	337.57	5602.96	3.28	3.30	-0.26	0.01	423988.28	662567.95	N 32 9 54.06	W 103 56 29.58
	5697.00	0.12	232.51	5696.96	3.23	3.26	-0.34	0.14	423988.24	662567.87	N 32 9 54.05	W 103 56 29.58
	5792.00	0.10	297.98	5791.96	3.20	3.24	-0.50	0.13	423988.22	662567.71	N 32 9 54.05	W 103 56 29.58
	5886.00	0.09	215.34	5885.96	3.17	3.22	-0.61	0.13	423988.20	662567.60	N 32 9 54.05	W 103 56 29.59
	5981.00	0.12	249.64	5980.96	3.07	3.12	-0.75	0.07	423988.10	662567.46	N 32 9 54.05	W 103 56 29.59
	6075.00	0.07	265.16	6074.96	3.02	3.08	-0.90	0.06	423988.06	662567.31	N 32 9 54.05	W 103 56 29.59
	6169.00	0.07	238.74	6168.96	2.98	3.05	-1.00	0.03	423988.03	662567.21	N 32 9 54.05	W 103 56 29.59
	6264.00	0.07	288.89	6263.96	2.96	3.04	-1.11	0.06	423988.02	662567.10	N 32 9 54.05	W 103 56 29.59
	6358.00	0.07	138.11	6357.96	2.94	3.01	-1.12	0.14	423987.99	662567.09	N 32 9 54.05	W 103 56 29.59
	6452.00	0.07	193.05	6451.96	2.84	2.91	-1.10	0.07	423987.89	662567.11	N 32 9 54.05	W 103 56 29.59
	6547.00	0.07	145.76	6546.96	2.74	2.81	-1.08	0.06	423987.79	662567.13	N 32 9 54.05	W 103 56 29.59
	6640.00	0.07	131.14	6639.96	2.66	2.73	-1.01	0.02	423987.70	662567.21	N 32 9 54.05	W 103 56 29.59
	6735.00	0.07	207.19	6734.96	2.57	2.64	-0.99	0.09	423987.62	662567.22	N 32 9 54.05	W 103 56 29.59
	6829.00	0.12	221.59	6828.96	2.44	2.51	-1.08	0.06	423987.49	662567.13	N 32 9 54.05	W 103 56 29.59
	6923.00	0.07	326.16	6922.96	2.41	2.48	-1.18	0.16	423987.46	662567.03	N 32 9 54.05	W 103 56 29.59
	7017.00	1.33	70.16	7016.95	2.89	2.90						

Comments	MD (ft)	Incl (°)	Azim (°)	Grid (ft)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7489.00	7.96	59.25	7486.05	32.78	30.36	41.13	0.25	424015.34	662609.33	N 32	9 54.32	W 103 56 29.10
	7584.00	8.54	60.79	7580.06	40.28	37.16	52.94	0.65	424022.14	662621.14	N 32	9 54.39	W 103 56 28.96
	7678.00	9.83	63.56	7672.86	48.05	44.14	66.21	1.45	424029.12	662634.42	N 32	9 54.46	W 103 56 28.81
	7772.00	11.01	63.45	7765.31	56.53	51.73	81.43	1.26	424036.70	662649.63	N 32	9 54.53	W 103 56 28.63
	7867.00	11.41	60.30	7858.49	66.21	60.44	97.71	0.77	424045.41	662665.91	N 32	9 54.62	W 103 56 28.44
	7991.00	11.16	56.76	7980.10	80.09	73.09	118.40	0.59	424058.07	662686.60	N 32	9 54.74	W 103 56 28.20
	8087.00	14.95	60.12	8073.60	92.45	84.36	136.91	4.02	424069.33	662705.11	N 32	9 54.85	W 103 56 27.98
	8182.00	16.44	58.18	8165.06	106.94	97.55	158.96	1.66	424082.53	662727.16	N 32	9 54.98	W 103 56 27.73
	8276.00	17.91	58.37	8254.86	122.93	112.15	182.57	1.56	424097.12	662750.77	N 32	9 55.13	W 103 56 27.45
	8370.00	20.50	61.18	8343.63	140.03	127.66	209.30	2.92	424112.63	662777.50	N 32	9 55.28	W 103 56 27.14
	8465.00	17.75	61.15	8433.37	156.65	142.67	236.57	2.89	424127.64	662804.76	N 32	9 55.43	W 103 56 26.82
	8527.00	20.16	57.27	8492.01	168.01	153.01	253.83	4.38	424137.98	662822.03	N 32	9 55.53	W 103 56 26.62
	8621.00	20.73	50.62	8580.10	188.89	172.33	280.32	2.54	424157.30	662848.51	N 32	9 55.72	W 103 56 26.31
	8716.00	17.74	44.75	8669.80	211.20	193.28	303.52	3.74	424178.25	662871.70	N 32	9 55.92	W 103 56 26.04
	8810.00	19.29	41.67	8758.93	234.15	215.05	323.92	1.95	424200.02	662892.11	N 32	9 56.14	W 103 56 25.80
	8905.00	18.78	40.61	8848.73	258.67	238.38	344.31	0.65	424223.34	662912.49	N 32	9 56.37	W 103 56 25.56
	8950.00	18.85	40.62	8891.33	270.24	249.40	353.76	0.16	424234.36	662921.94	N 32	9 56.48	W 103 56 25.45
	8999.00	19.53	41.67	8937.61	282.98	261.63	364.36	1.56	424246.49	662932.54	N 32	9 56.60	W 103 56 25.33
	9044.00	19.54	42.21	8980.02	294.76	272.72	374.41	0.40	424257.68	662942.59	N 32	9 56.71	W 103 56 25.21
	9094.00	19.29	43.34	9027.17	307.61	284.92	385.70	0.90	424269.88	662953.88	N 32	9 56.83	W 103 56 25.08
	9139.00	20.02	45.47	9069.55	319.04	295.73	396.29	2.27	424280.68	662964.47	N 32	9 56.93	W 103 56 24.96
	9188.00	21.07	49.74	9115.44	331.36	307.30	408.99	3.73	424292.26	662977.17	N 32	9 57.05	W 103 56 24.81
	9233.00	19.36	54.38	9204.59	353.08	327.51	434.83	2.47	424312.47	663003.01	N 32	9 57.25	W 103 56 24.51
	9377.00	18.59	60.55	9293.49	371.04	343.95	460.54	2.28	424328.91	663028.72	N 32	9 57.41	W 103 56 24.21
	9472.00	15.87	67.92	9384.23	384.87	356.29	485.77	3.67	424341.24	663053.95	N 32	9 57.53	W 103 56 23.91
	9566.00	15.35	74.76	9474.77	394.40	364.39	509.69	2.03	424349.34	663077.86	N 32	9 57.61	W 103 56 23.63
	9660.00	15.28	70.26	9565.43	403.26	371.84	533.35	1.27	424356.79	663101.52	N 32	9 57.68	W 103 56 23.36
	9755.00	13.12	59.21	9657.54	414.26	381.59	554.41	3.64	424366.54	663122.57	N 32	9 57.78	W 103 56 23.11
KOP Actual	9796.00	12.64	54.68	9697.51	419.69	386.57	562.06	2.73	424371.52	663130.23	N 32	9 57.83	W 103 56 23.02
	9948.00	10.34	33.20	9846.52	441.96	407.61	583.11	3.17	424392.96	663151.28	N 32	9 58.03	W 103 56 22.78
	10041.00	14.21	33.83	9937.38	459.06	424.08	594.04	4.16	424409.03	663162.21	N 32	9 58.20	W 103 56 22.65
	10136.00	22.98	32.85	10027.33	485.33	449.40	610.63	9.24	424434.34	663178.79	N 32	9 58.45	W 103 56 22.46
	10230.00	27.59	27.05	10112.32	521.29	484.22	630.49	5.56	424469.17	663198.66	N 32	9 58.79	W 103 56 22.22
	10324.00	40.36	21.10	10190.13	570.45	532.22	651.44	14.02	424517.16	663219.60	N 32	9 59.27	W 103 56 21.98
LL Cross	10376.75	44.28	20.03	10229.13	604.39	565.46	663.90	7.55	424550.40	663232.06	N 32	9 59.59	W 103 56 21.83
	10419.00	47.42	19.28	10258.55	633.50	594.01	674.09	7.55	424578.94	663242.25	N 32	9 59.88	W 103 56 21.71
Wolfcamp Intersection	10491.58	50.97	12.72	10306.00	687.08	646.78	689.14	8.41	424631.71	663257.29	N 32	10 0.40	W 103 56 21.53
	10513.00	52.09	10.91	10319.33	703.67	663.20	692.57	8.41	424648.13	663260.73	N 32	10 0.56	W 103 56 21.49
	10608.00	58.91	4.00	10373.15	781.66	740.73	702.52	9.35	424725.65	663270.68	N 32	10 1.33	W 103 56 21.37
	10702.00	69.33	358.81	10414.15	866.02	825.13	704.42	12.14	424810.04	663272.58	N 32	10 2.16	W 103 56 21.35
Top Perf Cross	10786.00	78.70	357.89	10437.25	946.36	906.05	702.08	11.21	424890.66	663270.24	N 32	10 2.96	W 103 56 21.37
	10797.00	79.93	357.78	10439.29	957.12	916.55	701.68	11.21	424901.46	663269.83	N 32	10 3.07	W 103 56 21.38
	10892.00	92.33	354.06	10445.69	1050.88	1010.89	694.92	13.62	424995.80	663263.08	N 32	10 4.00	W 103 56 21.45
	10954.00	94.95	353.68	10441.76	1111.89	1072.41	688.32	4.27	425057.31	663256.48	N 32	10 4.61	W 103 56 21.53
	11073.00	91.60	356.14	10434.96	1229.35	1190.72	677.78	3.49	425175.61	663245.94	N 32	10 5.78	W 103 56 21.64
	11264.00	90.19	358.60	10431.97	1419.23	1381.48	669.02	1.48	425366.35	663237.18	N 32	10 7.67	W 103 56 21.74
	11358.00	88.57	355.91	10432.99	1512.67	1475.35	664.52	3.34	425460.22	663232.68	N 32	10 8.60	W 103 56 21.79
	11453.00	89.71	358.51	10434.42	1607.09	1570.22	659.90	2.99	425555.08	663228.06	N 32	10 9.54	W 103 56 21.83
	11548.00	90.43	4.12	10434.30	1701.98	1665.16	662.08	5.95	425650.01	663230.24	N 32	10 10.48	W 103 56 21.81
	11642.00	90.39	3.52	10433.63	1795.98	1758.94	668.34	0.64	425743.79	663236.50	N 32	10 11.40	W 103 56 21.73
	11737.00	89.05	2.65	10434.09	1890.97	1853.80	673.45	1.68	425838.64	663241.61	N 32	10 12.34	W 103 56 21.67
	11831.00	89.57	3.66	10435.22	1984.96	1947.65	678.63	1.21	425932.48	663246.79	N 32	10 13.27	W 103 56 21.60
	11925.00	91.56	5.38	10434.30	2078.93	2041.35	686.03	2.80	426026.17	663254.19	N 32	10 14.20	W 103 56 21.51
	12020.00	89.78	4.33	10433.19	2173.89	2135.99	694.07	2.18	426120.81	663262.23	N 32	10 15.13	W 103 56 21.41
	12114.00	88.74	2.46	10434.40	2267.88	2229.82	699.64	2.28	426214.63	663267.80	N 32	10 16.06	W 103 56 21.34
	12209.00	90.64	2.66	10434.91	2362.86	2324.72	703.88	2.01	426309.52	663272.04	N 32	10 17.00	W 103 56 21.29
	12398.00	90.70	3.65	10432.70	2551.84	2513.41	714.28	0.52	426498.20	663282.44	N 32	10 18.87	W 103 56 21.16
Exit Target Box	12478.37	90.10	1.86	10432.14	2632.20	2593.69	718.14	2.35	426578.47	663286.30	N 32	10 19.66	W 103 56 21.11
	12587.00	89.29	359.43	10432.72	2740.69	2702.30	719.36	2.35	426687.07	663287.52	N 32	10 20.74	W 103 56 21.09
Enter Target Box	12664.77	89.91	357.35	10433.26	2818.15	2780.03	717.18	2.79	426764.80	663285.33	N 32	10 21.51	W 103 56 21.12
	12682.00	90.05	356.89	10433.27	2835.28	2797.24	716.31	2.79	426782.01	663284.47	N 32	10 21.68	W 103 56 21.13
	12777.00	90.33	357.52	10432.95	2929.71	2892.12	711.68	0.73	426876.88	663279.83	N 32	10 22.61	W 103 56 21.18
	12872.00	87.85	356.32	10434.46	3024.07	2986.97	706.58	2.90	426971.72	663274.73	N 32	10 23.55	W 103 56 21.23
	12966.00	90.39	356.47	10435.91	3117.34	3080.76	700.67	2.71	427065.51	663268.82	N 32	10 24.48	W 103 56 21.30
	13061.00	91.53	358.18	10434.31	3211.78	3175.64	696.23	2.16	427160.38	663264.39	N 32	10 25.42	W 103 56 21.34
	13249.00	89.95	356.21	10431.89	3398.63	3329.68	687.03	1.34	427348.11	663255.19	N 32	10 27.28	W 103 56 21.44
	13344.00	90.26	358.76	10431.71	3493.11	3458.28	682.87	2.70	427443.00	663251.02	N 32	10 28.22	W 103 56 21.49
	13533.00	90.50	358.92	10430.46	3681.49	3647.24	679.04	0.15	427631.94	663247.20	N 32	10 30.09	W 103 56 21.52
	13627.00	90.91	358.98	10429.30	3775.20	3741.22	677.32	0.44	427725.91	663245.48	N 32	10 31.02	W 103 56 21.54
	13816.00	88.23	357.12	10430.72	3963.33	3930.08	670.89	1.73	427914.76	663239.05	N 32	10 32.89	W 103 56 21.61
	13911.00	90.19	1.36	10432.03	4058.04	4025.03	669.63	4.92	428009.71	663237.79	N 32	10 33.83	W 103 56 21.62
	14006.00	90.46	2.01	10431.49	4152.99	4119.99	672.42	0.74	428104.66	663240.58	N 32	10 34.77	W 103 56 21.58
	14100.00	90.70	1.79	10430.54	4246.95	4213.93	675.54	0.35	428198.59	663243.70	N 32	10 35.70	W 103 56 21.54
	14195.00	88.09	359.96	10431.54	4341.84	4308.91	676.99	3.36	428293.56	663245.15	N 32	10 36.64	W 103 56

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	17885.00	90.81	358.60	10422.22	8021.34	7995.96	662.48	2.50	431980.34	663230.64	N 32 11 13.12 W	103 56 21.53
	17979.00	90.53	359.87	10421.12	8115.08	8089.95	661.22	1.38	432074.31	663229.38	N 32 11 14.05 W	103 56 21.54
	18074.00	87.99	359.22	10422.34	8209.84	8184.93	660.47	2.76	432169.29	663228.63	N 32 11 14.99 W	103 56 21.55
	18169.00	89.81	356.75	10424.17	8304.38	8279.84	657.13	3.23	432264.19	663225.29	N 32 11 15.93 W	103 56 21.58
	18264.00	90.29	357.50	10424.09	8398.80	8374.72	652.36	0.94	432359.06	663220.52	N 32 11 16.87 W	103 56 21.63
	18453.00	88.02	355.86	10426.87	8586.44	8563.36	641.42	1.48	432547.69	663209.58	N 32 11 18.74 W	103 56 21.75
	18548.00	90.53	357.26	10428.07	8680.74	8658.18	635.72	3.03	432642.50	663203.88	N 32 11 19.67 W	103 56 21.81
	18642.00	89.02	358.35	10428.44	8774.28	8752.10	632.12	1.98	432736.42	663200.28	N 32 11 20.60 W	103 56 21.85
	18736.00	90.70	0.06	10428.67	8868.01	8846.09	630.82	2.55	432830.39	663198.98	N 32 11 21.53 W	103 56 21.86
	18831.00	90.84	359.53	10427.40	8962.81	8941.08	630.48	0.58	432925.38	663198.64	N 32 11 22.47 W	103 56 21.86
	19020.00	91.15	1.00	10424.11	9151.49	9130.04	631.35	0.79	433114.33	663199.51	N 32 11 24.34 W	103 56 21.81
	19114.00	89.40	2.19	10423.66	9245.43	9224.00	633.97	2.25	433208.28	663202.13	N 32 11 25.27 W	103 56 21.81
	19209.00	90.36	2.06	10423.86	9340.40	9318.93	637.49	1.02	433303.20	663205.65	N 32 11 26.21 W	103 56 21.77
	19303.00	87.99	0.23	10425.22	9434.31	9412.89	639.37	3.19	433397.16	663207.53	N 32 11 27.14 W	103 56 21.74
	19397.00	92.35	2.37	10424.94	9528.21	9506.84	641.50	5.17	433491.10	663209.66	N 32 11 28.07 W	103 56 21.71
	19492.00	89.60	1.46	10423.32	9623.16	9601.76	644.67	3.05	433586.01	663212.83	N 32 11 29.01 W	103 56 21.67
	19587.00	90.26	0.90	10423.44	9718.08	9696.74	646.63	0.91	433680.98	663214.79	N 32 11 29.95 W	103 56 21.64
	19681.00	90.29	359.99	10422.99	9811.95	9790.74	647.36	0.97	433774.97	663215.52	N 32 11 30.88 W	103 56 21.63
	19775.00	89.71	359.40	10422.99	9905.75	9884.73	646.86	0.88	433868.96	663215.02	N 32 11 31.81 W	103 56 21.63
	19870.00	91.46	358.38	10422.02	10000.44	9979.71	645.02	2.13	433963.83	663213.18	N 32 11 32.75 W	103 56 21.65
	19964.00	90.70	357.92	10420.24	10094.02	10073.64	641.99	0.95	434057.85	663210.15	N 32 11 33.68 W	103 56 21.68
	20059.00	89.91	357.50	10419.74	10188.54	10168.56	638.19	0.94	434152.77	663206.35	N 32 11 34.62 W	103 56 21.72
	20154.00	89.26	357.62	10420.43	10283.03	10263.47	634.15	0.70	434247.67	663202.31	N 32 11 35.56 W	103 56 21.76
	20248.00	91.29	357.98	10419.98	10376.57	10357.40	630.54	2.19	434341.59	663198.70	N 32 11 36.49 W	103 56 21.80
	20343.00	91.84	358.64	10417.36	10471.15	10452.32	627.74	0.90	434436.50	663195.90	N 32 11 37.43 W	103 56 21.83
	20438.00	89.29	358.59	10416.44	10565.80	10547.28	625.44	2.68	434531.46	663193.60	N 32 11 38.37 W	103 56 21.85
	20532.00	91.46	358.71	10415.83	10659.46	10641.24	623.23	2.31	434625.42	663191.39	N 32 11 39.30 W	103 56 21.88
	20627.00	90.36	359.80	10414.32	10754.19	10736.22	621.99	1.63	434720.39	663190.15	N 32 11 40.24 W	103 56 21.89
Bottom Perf Cross	20707.55	88.20	358.48	10415.33	10834.50	10816.75	620.78	3.15	434800.91	663188.94	N 32 11 41.03 W	103 56 21.90
	20722.00	87.81	358.24	10415.84	10848.89	10831.19	620.37	3.15	434815.34	663188.53	N 32 11 41.18 W	103 56 21.90
Final MWD	20816.00	88.23	357.57	10419.08	10942.39	10925.07	616.93	0.84	434909.21	663185.10	N 32 11 42.11 W	103 56 21.94
Proj to Bit	20861.00	88.23	357.57	10420.47	10987.13	10970.00	615.03	0.00	434954.15	663183.19	N 32 11 42.55 W	103 56 21.96

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD
	1	26.500	566.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 33H
	1	566.500	9796.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 33H
	1	9796.000	10136.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 33H
	1	10136.000	20861.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Canyon 36-25 Federal Com 33H

...Original Borehole\Oxy Corral Canyon 36-25 Federal Com 33H MWD 0' - 20861ft MD



Occidental Oil and Gas Corporation
ATTN: Marshall McQueen
5 Greenway Plaza, Suite 110
Houston, TX 77046
713-366-5799
Marshall_McQueen@oxy.com

February 20, 2019

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 Canyon 36-25 Federal Com 33H
T24S R29E, Section 36 – Units C, D, E, F, K L, M and N, Eddy County
T24S R29E Section 25 – Units C, D, E, F, K, L, M and N, Eddy County*

Dear Mr. Lowe:

Oxy USA Inc. respectfully seeks approval for a non-standard location, decreasing the first take point for Corral Canyon 36-25 Federal Com 33H in the Wolfcamp formation of the Purple Sage Pool from 330 feet to approximately 100 feet. It is Oxy's responsibility as a prudent operator to maximize lateral length and minimize reserves left in the ground. Decreasing the first take point will increase this wells effective lateral length by 230 feet, and increase the estimated ultimate recovery of the well by approximately 3%. Any increase in first take point would result in untapped reserves left in the reservoir, and waste of a resource that would not be developed otherwise.

Sincerely,

A handwritten signature in blue ink, appearing to read "Marshall McQueen". The signature is fluid and cursive, written in a professional style.

Marshall McQueen
Reservoir Engineer

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Tuesday, February 26, 2019 5:19 PM
To: 'Chapman, Sarah E'
Cc: Mike Bratcher (mike.bratcher@state.nm.us); Cordero, Gilbert, EMNRD; 'lisa@rwbyram.com'; Jones, William V, EMNRD; Dawson, Scott, EMNRD; Murphy, Kathleen A, EMNRD; McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD; 'jglover@blm.gov'
Subject: APPROVED 2 NSLs_OXY USA INC._Corral Canyon 36 25 Fed Com Well No. (32H & 33H)_SEC 1 24S 29E

Importance: High

Ms. Sarah Chapman,

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>

OXY USA INC.

POOL: Purple Sage; Wolfcamp [# 98220]

NSL-7833

API #: 30-015-44642

WELL: Corral Canyon 36 25 Federal Com Well No. **32H**

NSL-7834

API #: 30-015-44643

WELL: Corral Canyon 36 25 Federal Com Well No. **33H**

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
Cell: 505-930-6717
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>