

NSL Initial Application

Received April 4, 2019

This application is only placed in file. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

RECEIVED: 04/04/19	REVIEWER: LRL	TYPE: NSL	APP NO: pLEL1909543180
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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: HEIGHT CC 6_7 FEDERAL COM 31Y **API:** 30-015-45770
Pool: PURPLE SAGE WOLFCAMP **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**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ 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.

03/28/2019

Date

LESLIE T. REEVES

Print or Type Name

(713) 497-2492

Phone Number

Signature

LESLIE_REEVES@OXY.COM

e-mail Address



OXY USA Inc

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

March 28, 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
Height CC 6_7 Federal Com 31Y – Purple Sage Wolfcamp
Surface – 519' FNL 732' FWL Unit D Sec 6 T24S R29E
First Take Point – 100' FNL 330' FWL Unit D Sec 6 T24S R29E
Last Take Point – 330' FSL 330' FWL Unit M Sec 7 T24S R29E
Bottom Hole – 20' FSL 330' FWL Unit M Sec 7 T24S R29E
Eddy County, New Mexico***

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Height CC 6_7 Federal Com 31Y well, API Number-30-015-45770, Property Code 323008. The #31Y well is proposed to be completed in the Purple Sage Wolfcamp 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 – 519' FNL 732' FWL Unit D Sec 6 T24S R29E
First Take Point – 100' FNL 330' FWL Unit D Sec 6 T24S R29E
Last Take Point – 330' FSL 330' FWL Unit M Sec 7 T24S R29E
Bottom Hole – 20' FSL 330' FWL Unit M Sec 7 T24S R29E

The adjoining units towards which the unorthodox location encroaches are located in T23S R29E, Section 31 - Unit M.

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, 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 713-497-2492.

Sincerely,

A handwritten signature in blue ink that reads "Leslie T. Reeves".

Leslie T. Reeves
Regulatory Advisor

Attachments
CC: Service List



OXY USA Inc

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

March 28, 2019

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Re: *Application for Administrative Approval of Non-Standard Location*
Height CC 6_7 Federal Com 31Y – Purple Sage Wolfcamp
Surface – 519' FNL 732' FWL Unit D Sec 6 T24S R29E
First Take Point – 100' FNL 330' FWL Unit D Sec 6 T24S R29E
Last Take Point – 330' FSL 330' FWL Unit M Sec 7 T24S R29E
Bottom Hole –20' FSL 330' FWL Unit M Sec 7 T24S R29E
Eddy County, New Mexico

To Whom it May Concern:

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 19.15.4.12(A)(2)(a), 19.15.15.9(A) and 19.15.16.15(B). The well is located as follows:

Surface – 519' FNL 732' FWL Unit D Sec 6 T24S R29E
First Take Point – 100' FNL 330' FWL Unit D Sec 6 T24S R29E
Last Take Point – 330' FSL 330' FWL Unit M Sec 7 T24S R29E
Bottom Hole –20' FSL 330' FWL Unit M Sec 7 T24S 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, you can contact Peter Van Liew at 713-985-6972 or myself at 713-497-2492.

Thank you,

A handwritten signature in blue ink that reads "Leslie T. Reeves".

Leslie T. Reeves
Regulatory Advisor
OXY USA Inc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OFFICIAL FILE

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Check Serial No.
NMNM13996

6. If Indian, Allottee or Tribe Name

7. If Unit or C/A/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
HEIGHT CC 6_7 FEDERAL COM 31Y

2. Name of Operator
OXY USA INCORPORATED

Contact: DAVID STEWART
E-Mail: david_stewart@oxy.com

9. API Well No.

30-015-45770

3a. Address
5 GREENWAY PLAZA SUITE 110
HOUSTON, TX 77046-0521

3b. Phone No. (include area code)
Ph: 432.685.5717

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 6 T24S R29E 519FNL 732FWL
32.253586 N Lat, 104.030319 W Lon

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
☒ Notice of Intent	☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing ☐ Hydraulic Fracturing ☐ Reclamation ☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair ☐ New Construction ☐ Recomplete ☒ Other
	☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon ☐ Change to Original APD
	☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

OXY USA Inc. respectfully requests to skid and move the Height CC 6-7 Federal Com #31H, API No. 30-015-45574, 44" southeast due to hole problems and excessive deviation in conductor. The intent to P&A was verbally approved 2/18/19 and well was plugged to 80'. The remaining 80' of conductor will serve as a mousehole for the 31Y and will be filled with cement after drilling has been completed.

2/28/2019: Engineering review completed by m Hague.

This well will be replaced by the Height CC 6-7 Federal Com #31Y. Please see attached for the 3160-3, C-102, drilling plan, directional plan/plot, and site plan.

No additional surface disturbance is required for this well pad.

Sundry Notice to P&A was filed 2/21/19 - EC Transaction 455505 - Serial Number 950-27276

NRS 213 3-4-19 USE Existing COA'S

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #455515 verified by the BLM Well Information System
For OXY USA INCORPORATED, sent to the Carlsbad

Committed to AFMSS for processing by PRISCILLA PEREZ on 02/27/2019 (19PP1132SE)

Name (Printed/Typed) DAVID STEWART

Title REGULATORY ADVISOR

Signature (Electronic Submission)

Date 02/21/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

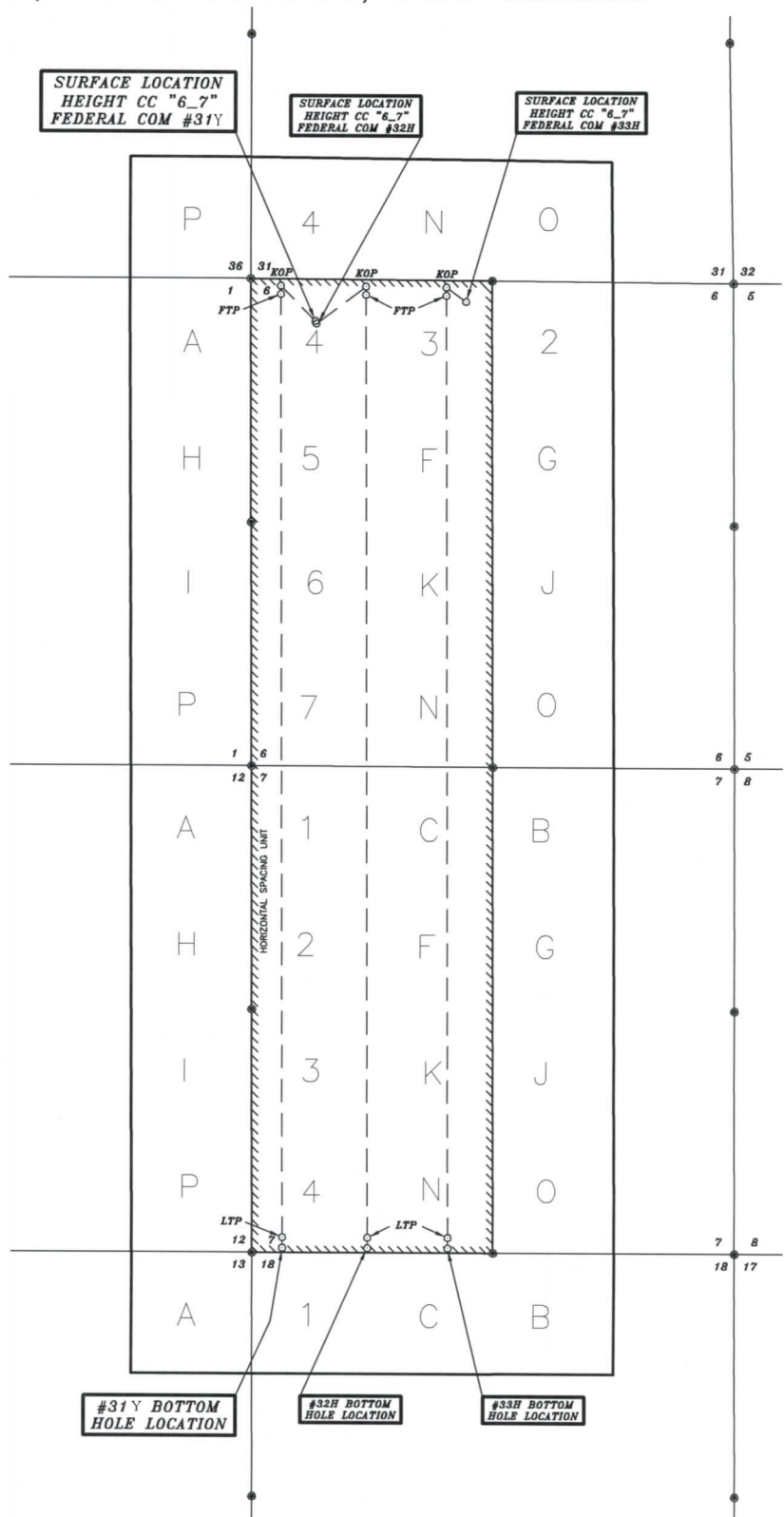
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

OXY USA INC.

HEIGHT CC "6_7" FEDERAL COM #31Y
 SECTIONS 6, 7 & 18, T24S, R29E, SECTIONS 1, 12 & 13,
 T24S, R28E, SECTION 31, T23S, R29E AND SECTION 36,
 T23S, R28E, N.M.P.M., EDDY COUNTY, NEW MEXICO



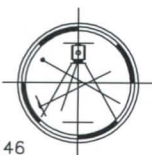
SURVEYORS CERTIFICATE

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 12/5/2016
 Terry J. Asel N.M. R.P.L.S. No. 15079

Asel Surveying

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



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

District I
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 98220	Pool Name Purple Sage Wolfcamp
Property Code 323008	Property Name HEIGHT CC "6-7" FEDERAL COM	Well Number 31Y
OGRIID No. 16696	Operator Name OXY USA INC.	Elevation 2963.6'

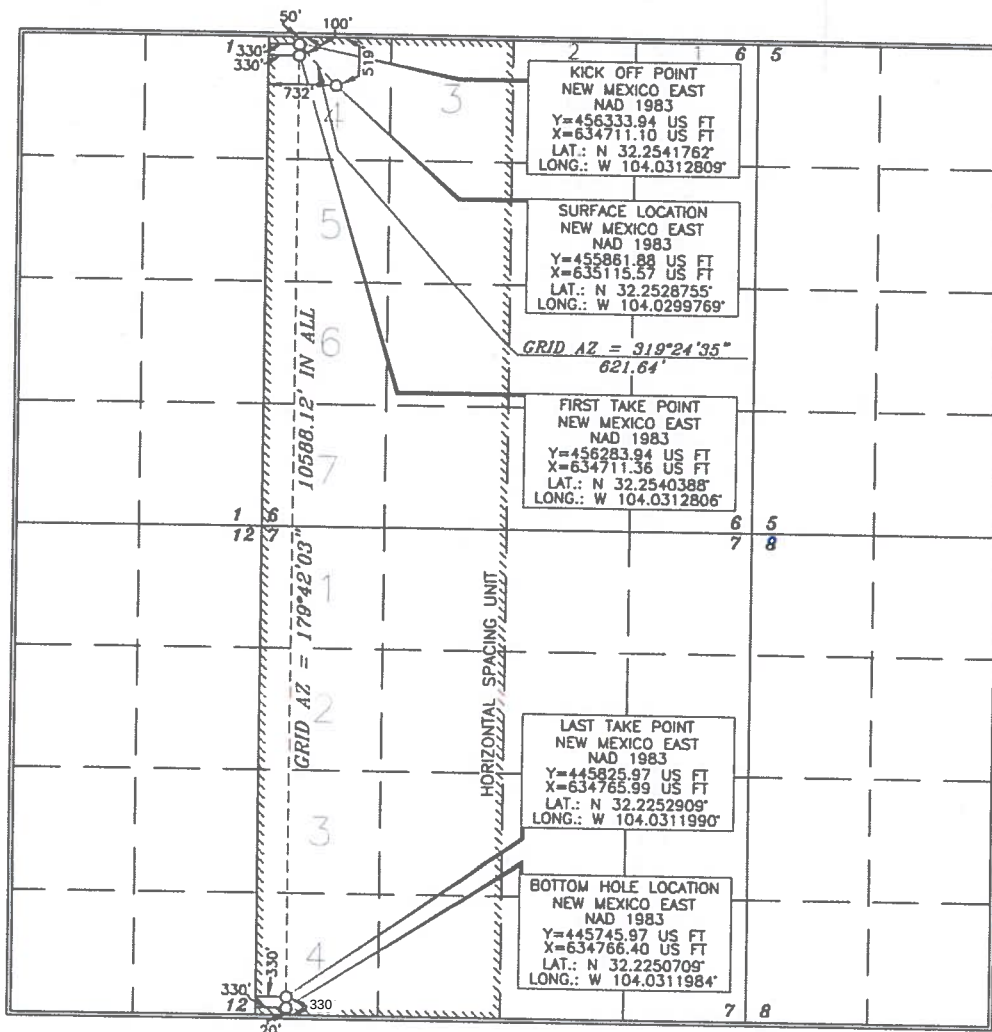
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	6	24 SOUTH	29 EAST, N.M.P.M.		519'	NORTH	732'	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
4	7	24 SOUTH	29 EAST, N.M.P.M.		20'	SOUTH	330'	WEST	EDDY
Dedicated Acres 637.33	Joint or Infill Y	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 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: 2/21/19
Printed Name: David Stewart
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: NOVEMBER 8, 2018
Signature and Seal of Professional Surveyor: Terrell J. As...
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

KZ 06/29/2018

Application Non-Standard Location - Service List**OXY USA Inc.****Height CC 6-7 Federal Com #31Y**

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

Bureau of Land Management Carlsbad
620 E. Greene Street
Carlsbad, NM 88220-6292
7017 0660 0000 5197 0562

T23S-R29E**Section 31 - Unit M****Existing Horizontal Spacing Unit Section 31(T23S-R29E) - Unit M, N, L, K, E, F, D, C & Section 30(T23S-R29E) - Unit M, N, L, K, E, F, D, C**

Devon Energy Production Company, LP
333 West Sheridan Avenue
Oklahoma City, OK 73102-5010
7015 0640 0002 6149 0339

Copies of this application were mailed to the following individuals, companies and organizations
on or before March 28, 2019.



Leslie Reeves, Regulatory Advisor
OXY USA Inc.



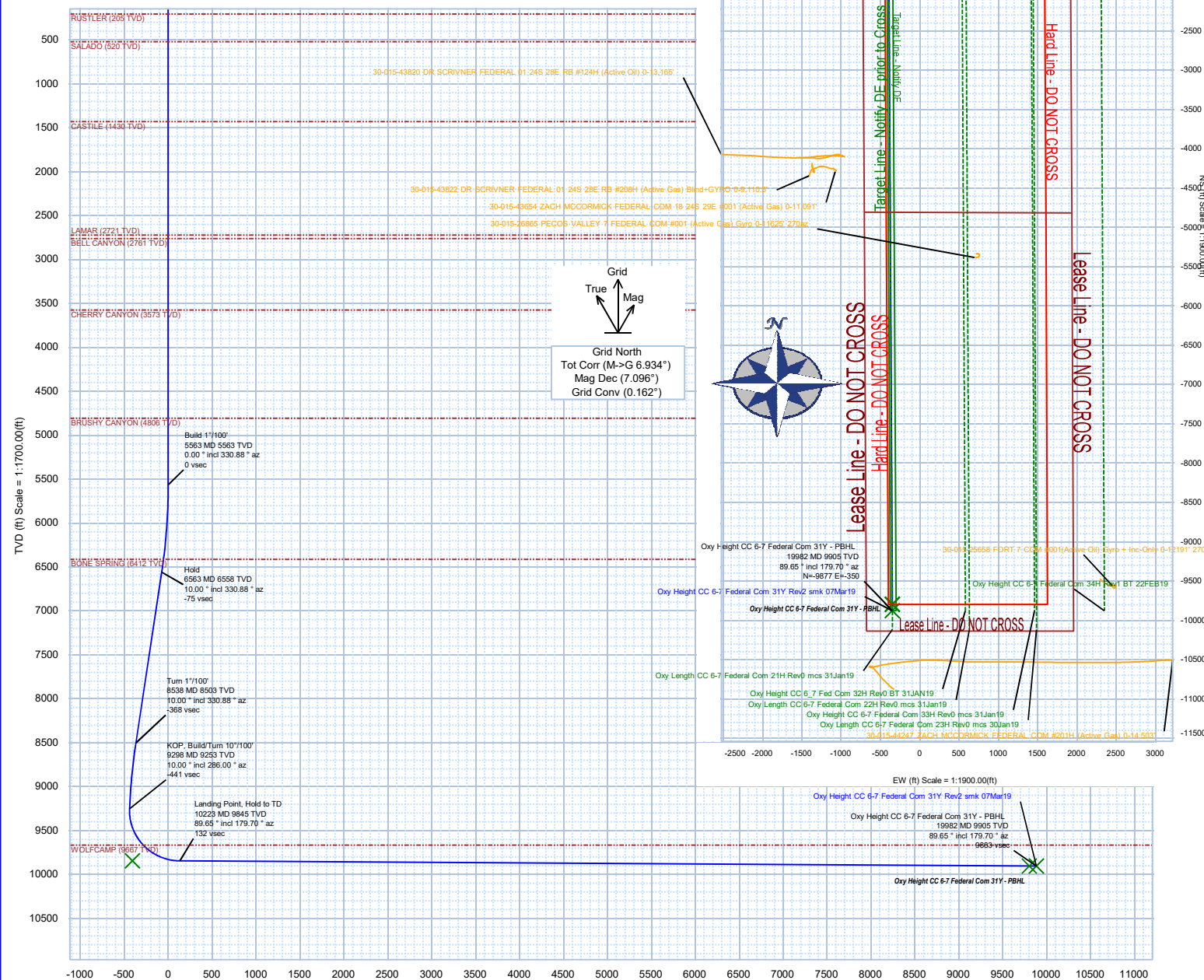
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Height CC 6-7 Federal Com 31Y	NM Eddy County (NAD 83)	Oxy Height CC 6-7 Federal Com 31Y

Gravity & Magnetic Parameters				Surface Location				NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	HDMG 2018	Dip:	60.011°	Date:	20-Feb-2019	Lat:	N 32 15 10.35	Northing:	455861.88fUS	Grid Conv:	0.1619°	Slot:	Oxy Height CC 6-7 Federal Com 31Y	TVD Ref:	RKB(2990.1ft above MSL)
MagDec:	7.096°	FS:	47926.88nT	Gravity FS:	998.471mgn (9.80665 Based)	Lon:	W 104 1 47.92	Easting:	635115.57fUS	Scale Fact:	0.99991916	Plan:	Oxy Height CC 6-7 Federal Com 31Y Rev2 smk 07Mar19		

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL	0.00	0.00	181.98	0.00	0.00	0.00	0.00	
RUSTLER	205.00	0.00	330.88	205.00	0.00	0.00	0.00	0.00
SALADO	520.00	0.00	330.88	520.00	0.00	0.00	0.00	0.00
CASTILE	1430.00	0.00	330.88	1430.00	0.00	0.00	0.00	0.00
LAMAR	2721.00	0.00	330.88	2721.00	0.00	0.00	0.00	0.00
BELL CANYON	2761.00	0.00	330.88	2761.00	0.00	0.00	0.00	0.00
CHERRY CANYON	3573.00	0.00	330.88	3573.00	0.00	0.00	0.00	0.00
BRUSHY CANYON	4806.00	0.00	330.88	4806.00	0.00	0.00	0.00	0.00
Build 1°/100°	5563.00	0.00	330.88	5563.00	0.00	0.00	0.00	0.00
BONE SPRING	6415.14	8.52	330.88	6412.00	-54.13	55.26	-30.78	1.00
Hold	6563.28	10.00	330.88	6558.20	-74.54	76.09	-42.38	1.00
Turn 1°/100°	8537.85	10.00	330.88	8502.76	-368.06	375.71	-209.28	0.00
KOP, Build/Turn 10°/100°	9298.09	10.00	286.00	9252.55	-440.60	451.70	-305.00	1.00
WOLFCAMP	9758.26	44.06	189.71	9667.00	-283.11	296.57	-374.15	10.00
Landing Point, Hold to TD	10222.55	89.65	179.70	9845.10	131.79	-117.62	-401.67	10.00
Oy Height CC 6-7 Federal	19981.88	89.65	179.70	9905.10	9882.84	-9876.63	-350.47	0.00



Vertical Section (ft) Azim = 182.03° Scale = 1:1700.00(ft) Origin = 0N/-S, 0E/-W

Oxy Height CC 6-7 Federal Com 31Y Rev2 smk 07Mar19 Proposal Geodetic Report (Def Plan)



Report Date: March 07, 2019 - 08:41 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Height CC 6-7 Federal Com 31Y / Oxy Height CC 6-7 Federal Com 31Y
Well: Oxy Height CC 6-7 Federal Com 31Y
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Oxy Height CC 6-7 Federal Com 31Y Rev2 smk 07Mar19
Survey Date: February 20, 2019
Tort / AHD / DDI / ERD Ratio: 110.052 ° / 10910.457 ft / 6.384 / 1.101
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 15' 10.35173", W 104° 1' 47.91670"
Location Grid N/E Y/X: N 455861.880 ftUS, E 635115.570 ftUS
CRS Grid Convergence Angle: 0.1619 °
Grid Scale Factor: 0.99991916
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 182.032 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 2990.100 ft above MSL
Seabed / Ground Elevation: 2963.600 ft above MSL
Magnetic Declination: 7.096 °
Total Gravity Field Strength: 998.4711mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47926.880 nT
Magnetic Dip Angle: 60.011 °
Declination Date: February 20, 2019
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1619 °
Total Corr Mag North->Grid North: 6.9340 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	
SHL	0.00	0.00	181.98	0.00	0.00	0.00	0.00	N/A	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	100.00	0.00	330.88	100.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	200.00	0.00	330.88	200.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	300.00	0.00	330.88	300.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	400.00	0.00	330.88	400.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	500.00	0.00	330.88	500.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	600.00	0.00	330.88	600.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	700.00	0.00	330.88	700.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	800.00	0.00	330.88	800.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	900.00	0.00	330.88	900.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	1000.00	0.00	330.88	1000.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	1100.00	0.00	330.88	1100.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	1200.00	0.00	330.88	1200.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	1300.00	0.00	330.88	1300.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	1400.00	0.00	330.88	1400.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	1500.00	0.00	330.88	1500.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	1600.00	0.00	330.88	1600.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	1700.00	0.00	330.88	1700.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	1800.00	0.00	330.88	1800.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	1900.00	0.00	330.88	1900.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2000.00	0.00	330.88	2000.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2100.00	0.00	330.88	2100.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2200.00	0.00	330.88	2200.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2300.00	0.00	330.88	2300.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2400.00	0.00	330.88	2400.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2500.00	0.00	330.88	2500.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2600.00	0.00	330.88	2600.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2700.00	0.00	330.88	2700.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2800.00	0.00	330.88	2800.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	2900.00	0.00	330.88	2900.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3000.00	0.00	330.88	3000.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3100.00	0.00	330.88	3100.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3200.00	0.00	330.88	3200.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3300.00	0.00	330.88	3300.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3400.00	0.00	330.88	3400.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3500.00	0.00	330.88	3500.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3600.00	0.00	330.88	3600.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3700.00	0.00	330.88	3700.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3800.00	0.00	330.88	3800.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
	3900.00	0.00	330.88	3900.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92
4000.00	0.00	330.88	4000.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4100.00	0.00	330.88	4100.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4200.00	0.00	330.88	4200.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4300.00	0.00	330.88	4300.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4400.00	0.00	330.88	4400.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4500.00	0.00	330.88	4500.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4600.00	0.00	330.88	4600.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4700.00	0.00	330.88	4700.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4800.00	0.00	330.88	4800.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
4900.00	0.00	330.88	4900.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
5000.00	0.00	330.88	5000.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
5100.00	0.00	330.88	5100.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
5200.00	0.00	330.88	5200.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
5300.00	0.00	330.88	5300.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
5400.00	0.00	330.88	5400.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
5500.00	0.00	330.88	5500.00	0.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
Build 1"/100'	5563.00	0.00	330.88	5563.00	0.00	0.00	0.00	0.00	455861.88	635115.57	N 32 15 10.35 W 104	1 47.92	
	5600.00	0.37	330.88	5600.00	-0.10	0.10	-0.06	1.00	455861.98	635115.51	N 32 15 10.35 W 104	1 47.92	
	5700.00	1.40	330.88	5699.99	-1.40	1.43	-0.80	1.00	455863.31	635114.77	N 32 15 10.37 W 104	1 47.93	
	5800.00	2.37	330.88	5799.93	-4.19	4.28	-2.38	1.00	455866.16	635113.19	N 32 15 10.39 W 104	1 47.94	
	5900.00	3.37	330.88	5899.81	-8.48	8.66	-4.82	1.00	455870.53	635110.75	N 32 15 10.44 W 104	1 47.97	
	6000.00	4.37	330.88	5999.58	-14.26	14.55	-8.11	1.00	455876.43	635107.46	N 32 15 10.50 W 104	1 48.01	
	6100.00	5.37	330.88	6099.21	-21.52	21.97	-12.24	1.00	455883.85	635103.33	N 32 15 10.57 W 104	1 48.06	
	6200.00	6.37	330.88	6198.69	-30.27	30.90	-17.21	1.00	455892.78	635098.36	N 32 15 10.66 W 104	1 48.12	
	6300.00	7.37	330.88	6297.97	-40.51	41.35	-23.03	1.00	455903.23	635092.54	N 32 15 10.76 W 104	1 48.18	
	6400.00	8.37	330.88	6397.03	-52.23	53.31	-29.70	1.00	455915.19	635085.88	N 32 15 10.88 W 104	1 48.26	
	6500.00	9.37	330.88	6495.83	-65.42	66.78	-37.20	1.00	455928.66	635078.37	N 32 15 11.01 W 104	1 48.35	
	6563.28	10.00	330.88	6558.20	-74.54	76.09	-42.38	1.00	455937.96	635073.19	N 32 15 11.11 W 104	1 48.41	
	6600.00	10.00	330.88	6594.37	-79.99	81.66	-45.49	0.00	455943.53	635070.09	N 32 15 11.16 W 104	1 48.44	
	6700.00	10.00	330.88	6692.85	-94.86	96.83	-53.94	0.00	455958.70	635061.64	N 32 15 11.31 W 104	1 48.54	
	6800.00	10.00	330.88	6791.33	-109.72	112.01	-62.39	0.00	455973.88	635053.19	N 32 15 11.46 W 104	1 48.64	
	6900.00	10.00	330.88	6889.81	-124.59	127.18	-70.84	0.00	455989.05	635044.73	N 32 15 11.61 W 104	1 48.74	
7000.00	10.00	330.88	6988.29	-139.45	142.36	-79.29	0.00	456004.22	635036.28	N 32 15 11.76 W 104	1 48.84		
7100.00	10.00	330.88	7086.77	-154.32	157.53	-87.75	0.00	456019.40	635027.83	N 32 15 11.91 W 104			

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 ° ' ")
	7700.00	10.00	330.88	7677.65	-243.51	248.58	-138.46	0.00	456110.44	634977.12	N 32 15 12.82	W 104 1 49.52
	7800.00	10.00	330.88	7776.13	-258.37	263.75	-146.91	0.00	456125.61	634968.67	N 32 15 12.97	W 104 1 49.62
	7900.00	10.00	330.88	7874.61	-273.24	278.92	-155.37	0.00	456140.78	634960.22	N 32 15 13.12	W 104 1 49.72
	8000.00	10.00	330.88	7973.09	-288.10	294.10	-163.82	0.00	456155.95	634951.76	N 32 15 13.27	W 104 1 49.81
	8100.00	10.00	330.88	8071.57	-302.97	309.27	-172.27	0.00	456171.13	634943.31	N 32 15 13.42	W 104 1 49.91
	8200.00	10.00	330.88	8170.05	-317.83	324.45	-180.72	0.00	456186.30	634934.86	N 32 15 13.57	W 104 1 50.01
	8300.00	10.00	330.88	8268.53	-332.70	339.62	-189.18	0.00	456201.47	634926.41	N 32 15 13.72	W 104 1 50.11
	8400.00	10.00	330.88	8367.01	-347.56	354.80	-197.63	0.00	456216.65	634917.96	N 32 15 13.87	W 104 1 50.21
	8500.00	10.00	330.88	8465.49	-362.43	369.97	-206.08	0.00	456231.82	634909.51	N 32 15 14.02	W 104 1 50.30
Turn 1°/100'	8537.85	10.00	330.88	8502.76	-368.06	375.71	-209.28	0.00	456237.56	634906.31	N 32 15 14.08	W 104 1 50.34
	8600.00	9.79	327.49	8563.99	-377.03	384.88	-214.74	1.00	456246.73	634900.84	N 32 15 14.17	W 104 1 50.40
	8700.00	9.51	321.75	8662.58	-390.33	398.54	-224.43	1.00	456260.38	634891.16	N 32 15 14.30	W 104 1 50.52
	8800.00	9.33	315.74	8761.23	-402.23	410.83	-235.20	1.00	456272.68	634880.39	N 32 15 14.42	W 104 1 50.64
	8900.00	9.26	309.56	8859.92	-412.74	421.76	-247.06	1.00	456283.61	634868.53	N 32 15 14.53	W 104 1 50.78
	9000.00	9.29	303.36	8958.61	-421.83	431.33	-260.01	1.00	456293.17	634855.58	N 32 15 14.63	W 104 1 50.93
	9100.00	9.43	297.27	9057.28	-429.53	439.52	-274.04	1.00	456301.36	634841.56	N 32 15 14.71	W 104 1 51.09
	9200.00	9.67	291.42	9155.90	-435.81	446.34	-289.14	1.00	456308.19	634826.45	N 32 15 14.78	W 104 1 51.27
KOP, Build/Turn 10°/100'	9298.09	10.00	286.00	9252.55	-440.60	451.70	-305.00	1.00	456313.54	634810.60	N 32 15 14.83	W 104 1 51.45
	9300.00	9.95	284.94	9254.43	-440.68	451.79	-305.32	10.00	456313.63	634810.28	N 32 15 14.83	W 104 1 51.46
	9400.00	12.09	231.78	9352.82	-435.83	447.52	-321.94	10.00	456309.37	634793.66	N 32 15 14.79	W 104 1 51.65
	9500.00	19.79	207.69	9449.00	-413.74	426.00	-338.08	10.00	456287.84	634777.52	N 32 15 14.58	W 104 1 51.84
	9600.00	28.90	197.49	9540.05	-375.09	387.86	-353.24	10.00	456249.71	634762.36	N 32 15 14.20	W 104 1 52.02
	9700.00	38.43	191.95	9623.21	-321.06	334.28	-366.97	10.00	456196.13	634748.63	N 32 15 13.67	W 104 1 52.18
	9800.00	48.12	188.36	9695.94	-253.27	266.87	-378.86	10.00	456128.73	634736.75	N 32 15 13.00	W 104 1 52.32
	9900.00	57.90	185.73	9756.04	-173.80	187.70	-388.53	10.00	456049.56	634727.08	N 32 15 12.22	W 104 1 52.43
	10000.00	67.72	183.61	9801.68	-85.06	99.15	-395.69	10.00	455961.02	634719.91	N 32 15 11.54	W 104 1 52.52
	10100.00	77.57	181.78	9831.48	10.26	3.93	-400.13	10.00	455865.81	634715.47	N 32 15 10.40	W 104 1 52.58
	10200.00	87.42	180.08	9844.52	109.26	-95.07	-401.72	10.00	455766.81	634713.88	N 32 15 9.42	W 104 1 52.60
Landing Point, Hold to TD	10222.55	89.65	179.70	9845.10	131.79	-117.62	-401.67	10.00	455744.27	634713.93	N 32 15 9.20	W 104 1 52.60
	10300.00	89.65	179.70	9845.58	209.17	-195.06	-401.27	0.00	455666.83	634714.33	N 32 15 8.43	W 104 1 52.60
	10400.00	89.65	179.70	9846.19	309.08	-295.06	-400.74	0.00	455566.85	634714.86	N 32 15 7.44	W 104 1 52.59
	10500.00	89.65	179.70	9846.81	409.00	-395.06	-400.22	0.00	455466.86	634715.38	N 32 15 6.45	W 104 1 52.59
	10600.00	89.65	179.70	9847.42	508.91	-495.05	-399.69	0.00	455366.87	634715.91	N 32 15 5.46	W 104 1 52.59
	10700.00	89.65	179.70	9848.04	608.83	-595.05	-399.17	0.00	455266.88	634716.43	N 32 15 4.47	W 104 1 52.58
	10800.00	89.65	179.70	9848.65	708.75	-695.05	-398.64	0.00	455166.89	634716.96	N 32 15 3.49	W 104 1 52.58
	10900.00	89.65	179.70	9849.27	808.66	-795.04	-398.12	0.00	455066.90	634717.48	N 32 15 2.50	W 104 1 52.58
	11000.00	89.65	179.70	9849.88	908.58	-895.04	-397.60	0.00	454966.92	634718.01	N 32 15 1.51	W 104 1 52.58
	11100.00	89.65	179.70	9850.50	1008.49	-995.04	-397.07	0.00	454866.93	634718.53	N 32 15 0.52	W 104 1 52.57
	11200.00	89.65	179.70	9851.11	1108.41	-1095.03	-396.55	0.00	454766.94	634719.06	N 32 14 59.53	W 104 1 52.57
	11300.00	89.65	179.70	9851.72	1208.32	-1195.03	-396.02	0.00	454666.95	634719.58	N 32 14 58.54	W 104 1 52.57
	11400.00	89.65	179.70	9852.34	1308.24	-1295.03	-395.50	0.00	454566.96	634720.11	N 32 14 57.55	W 104 1 52.56
	11500.00	89.65	179.70	9852.95	1408.15	-1395.02	-394.97	0.00	454466.97	634720.63	N 32 14 56.56	W 104 1 52.56
	11600.00	89.65	179.70	9853.57	1508.07	-1495.02	-394.45	0.00	454366.98	634721.16	N 32 14 55.57	W 104 1 52.56
	11700.00	89.65	179.70	9854.18	1607.98	-1595.02	-393.92	0.00	454267.00	634721.68	N 32 14 54.58	W 104 1 52.56
	11800.00	89.65	179.70	9854.80	1707.90	-1695.01	-393.40	0.00	454167.01	634722.20	N 32 14 53.59	W 104 1 52.55
	11900.00	89.65	179.70	9855.41	1807.81	-1795.01	-392.87	0.00	454067.02	634722.73	N 32 14 52.60	W 104 1 52.55
	12000.00	89.65	179.70	9856.03	1907.73	-1895.01	-392.35	0.00	453967.03	634723.25	N 32 14 51.61	W 104 1 52.55
	12100.00	89.65	179.70	9856.64	2007.64	-1995.00	-391.82	0.00	453867.04	634723.78	N 32 14 50.62	W 104 1 52.54
	12200.00	89.65	179.70	9857.26	2107.56	-2095.00	-391.30	0.00	453767.05	634724.30	N 32 14 49.63	W 104 1 52.54
	12300.00	89.65	179.70	9857.87	2207.47	-2195.00	-390.77	0.00	453667.07	634724.83	N 32 14 48.64	W 104 1 52.54
	12400.00	89.65	179.70	9858.49	2307.39	-2294.99	-390.25	0.00	453567.08	634725.35	N 32 14 47.65	W 104 1 52.54
	12500.00	89.65	179.70	9859.10	2407.30	-2394.99	-389.73	0.00	453467.09	634725.88	N 32 14 46.66	W 104 1 52.53
	12600.00	89.65	179.70	9859.72	2507.22	-2494.99	-389.20	0.00	453367.10	634726.40	N 32 14 45.67	W 104 1 52.53
	12700.00	89.65	179.70	9860.33	2607.13	-2594.98	-388.68	0.00	453267.11	634726.93	N 32 14 44.69	W 104 1 52.53
	12800.00	89.65	179.70	9860.95	2707.05	-2694.98	-388.15	0.00	453167.12	634727.45	N 32 14 43.70	W 104 1 52.52
	12900.00	89.65	179.70	9861.56	2806.96	-2794.98	-387.63	0.00	453067.13	634727.98	N 32 14 42.71	W 104 1 52.52
	13000.00	89.65	179.70	9862.18	2906.88	-2894.97	-387.10	0.00	452967.15	634728.50	N 32 14 41.72	W 104 1 52.52
	13100.00	89.65	179.70	9862.79	3006.80	-2994.97	-386.58	0.00	452867.16	634729.02	N 32 14 40.73	W 104 1 52.52
	13200.00	89.65	179.70	9863.41	3106.71	-3094.97	-386.05	0.00	452767.17	634729.55	N 32 14 39.74	W 104 1 52.51
	13300.00	89.65	179.70	9864.02	3206.63	-3194.96	-385.53	0.00	452667.18	634730.07	N 32 14 38.75	W 104 1 52.51
	13400.00	89.65	179.70	9864.64	3306.54	-3294.96	-385.00	0.00	452567.19	634730.60	N 32 14 37.76	W 104 1 52.51
	13500.00	89.65	179.70	9865.25	3406.46	-3394.96	-384.48	0.00	452467.20	634731.12	N 32 14 36.77	W 104 1 52.50
	13600.00	89.65	179.70	9865.86	3506.37	-3494.95	-383.95	0.00	452367.22	634731.65	N 32 14 35.78	W 104 1 52.50
	13700.00	89.65	179.70	9866.48	3606.29	-3594.95	-383.43	0.00	452267.23	634732.17	N 32 14 34.79	W 104 1 52.50
	13800.00	89.65	179.70	9867.09	3706.20	-3694.95	-382.90	0.00	452167.24	634732.70	N 32 14 33.80	W 104 1 52.50
	13900.00	89.65	179.70	9867.71	3806.12	-3794.94	-382.38	0.00	452067.25	634733.22	N 32 14 32.81	W 104 1 52.49
	14000.00	89.65	179.70	9868.32	3906.03	-3894.94	-381.86	0.00	451967.26	634733.75	N 32 14 31.82	W 104 1 52.49
	14100.00	89.65	179.70	9868.94	4005.95	-3994.94	-381.33	0.00	451867.27	634734.27	N 32 14 30.83	W 104 1 52.49
	14200.00	89.65	179.70	9869.55	4105.86	-4094.93	-380.81	0.00	451767.28	634734.80	N 32 14 29.84	W 104 1 52.49
	14300.00	89.65	179.70	9870.17	4205.78	-4194.93	-380.28	0.00	451667.29	634735.32	N 32 14 28.85	W 104 1 52.48
	14400.00	89.65	179.70	9870.78	4305.69	-4294.93	-379.76	0.00	451567.31	634735.85	N 32 14 27.86	W 104 1 52.48

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 ° ' ")
	18300.00	89.65	179.70	9894.76	8202.39	-8194.80	-359.29	0.00	447667.76	634756.31	N 32 13 49.27	W 104 1 52.37
	18400.00	89.65	179.70	9895.37	8302.30	-8294.80	-358.77	0.00	447567.77	634756.83	N 32 13 48.28	W 104 1 52.37
	18500.00	89.65	179.70	9895.99	8402.22	-8394.79	-358.24	0.00	447467.78	634757.36	N 32 13 47.29	W 104 1 52.36
	18600.00	89.65	179.70	9896.60	8502.13	-8494.79	-357.72	0.00	447367.79	634757.88	N 32 13 46.31	W 104 1 52.36
	18700.00	89.65	179.70	9897.22	8602.05	-8594.79	-357.19	0.00	447267.80	634758.40	N 32 13 45.32	W 104 1 52.36
	18800.00	89.65	179.70	9897.83	8701.96	-8694.78	-356.67	0.00	447167.82	634758.93	N 32 13 44.33	W 104 1 52.35
	18900.00	89.65	179.70	9898.45	8801.88	-8794.78	-356.15	0.00	447067.83	634759.45	N 32 13 43.34	W 104 1 52.35
	19000.00	89.65	179.70	9899.06	8901.79	-8894.78	-355.62	0.00	446967.84	634759.98	N 32 13 42.35	W 104 1 52.35
	19100.00	89.65	179.70	9899.68	9001.71	-8994.77	-355.10	0.00	446867.85	634760.50	N 32 13 41.36	W 104 1 52.35
	19200.00	89.65	179.70	9900.29	9101.62	-9094.77	-354.57	0.00	446767.86	634761.03	N 32 13 40.37	W 104 1 52.34
	19300.00	89.65	179.70	9900.91	9201.54	-9194.77	-354.05	0.00	446667.87	634761.55	N 32 13 39.38	W 104 1 52.34
	19400.00	89.65	179.70	9901.52	9301.45	-9294.76	-353.52	0.00	446567.89	634762.08	N 32 13 38.39	W 104 1 52.34
	19500.00	89.65	179.70	9902.14	9401.37	-9394.76	-353.00	0.00	446467.90	634762.60	N 32 13 37.40	W 104 1 52.33
	19600.00	89.65	179.70	9902.75	9501.29	-9494.76	-352.47	0.00	446367.91	634763.13	N 32 13 36.41	W 104 1 52.33
	19700.00	89.65	179.70	9903.37	9601.20	-9594.75	-351.95	0.00	446267.92	634763.65	N 32 13 35.42	W 104 1 52.33
	19800.00	89.65	179.70	9903.98	9701.12	-9694.75	-351.42	0.00	446167.93	634764.18	N 32 13 34.43	W 104 1 52.33
	19900.00	89.65	179.70	9904.60	9801.03	-9794.75	-350.90	0.00	446067.94	634764.70	N 32 13 33.44	W 104 1 52.32
Oxy Height CC 6- 7 Federal Com 31Y - PBHL	19981.88	89.65	179.70	9905.10	9882.84	-9876.63	-350.47	0.00	445986.07	634765.13	N 32 13 32.63	W 104 1 52.32

Survey Type: Def Plan

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)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/100.000	30.000	30.000		NAL_MWD_PLUS_0.5_DEG- Depth Only	Original Borehole / Oxy Height CC 6-7 Federal Com 31Y Rev2 smk 07Mar19
	1	26.500	19981.883	1/100.000	30.000	30.000		NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Height CC 6-7 Federal Com 31Y Rev2 smk



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

March 28, 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.
Height CC 6_7 Fed Com 31Y
NWNW Section 6, T24S-R29E, Eddy County

Dear Mr. Lowe:

Oxy USA Inc. respectfully seeks approval for a non-standard location, decreasing the first take point for Height CC 6_7 Fed Com 31Y in the Wolfcamp formation of the Purple Sage Pool from 330 feet to 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,

Marshall McQueen
Reservoir Engineer

Lowe, Leonard, EMNRD

From: Reeves, Leslie T <Leslie_Reeves@oxy.com>
Sent: Thursday, April 4, 2019 2:51 PM
To: Lowe, Leonard, EMNRD
Cc: Jones, William V, EMNRD; Reeves, Leslie T
Subject: [EXT] FW: Height CC 6-7 Federal Com 31Y Replacement Well NSL Application For Approval - AMENDED DIRECTIONAL PLAN
Attachments: HEIGHT CC6_7 FEDERAL COM 31Y NSL Application - As Filed REV 4-4-19.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Leonard-

Our drilling team wanted to update the directional plan that was submitted for the Height CC 6-7 Federal Com 31Y NSL application. I have attached the revised application with the new directional plan. Let me know if you have any questions or need anything further.

Thank you,

Leslie T. Reeves

Regulatory Advisor | Permian Resources – New Mexico
Office: (713) 497-2492 | 29.072 | Cell: (281) 733-0824
Email: Leslie_Reeves@oxy.com

From: Reeves, Leslie T
Sent: Thursday, March 28, 2019 3:50 PM
To: Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>
Cc: Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; Leslie T Reeves (Leslie_Reeves@oxy.com) <Leslie_Reeves@oxy.com>
Subject: RE: Height CC 6-7 Federal Com 31Y Replacement Well NSL Application For Approval

Hi Leonard-

The old approved NSL number for the plugged well was NSL-7793.

Attached is the NEW NSL application for the **Height CC 6-7 Federal Com 31Y** replacement well for your approval. I am not sending a hard copy so please consider this email as my application. Please let me know if you have any questions or concerns.

Thank you and hope you have a good weekend!

Leslie T. Reeves

Regulatory Advisor | Permian Resources – New Mexico
Office: (713) 497-2492 | 29.072 | Cell: (281) 733-0824
Email: Leslie_Reeves@oxy.com

From: Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>
Sent: Monday, March 25, 2019 4:10 PM
To: Reeves, Leslie T <Leslie_Reeves@oxy.com>
Cc: Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>
Subject: [EXTERNAL] NSL Example

Ms. Leslie Reeves,

I have sent an example of an NSL I like. I would also include an area map, identifying the encroaching tracts and the name of the affected parties.

Unfortunately you have sought a new API number. Your previous approved NSL ceased with the ceasing of the previous API number.

Now that you have a new API number a new NSL is required. If you wish for a faster turn around, then submit signed waivers from all the affected parties. Associated with the new NSL application.

What was your previously approved NSL number?

Leonard Lowe

Engineering Bureau

Oil Conservation **D**ivision

Energy **M**inerals and **N**atural **R**esources **D**epartment

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