

RECEIVED: 12/13/18	REVIEWER: LRL	TYPE: NSL	APP NO: pLEL1834742638
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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 31H **API:** 30-015-
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

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.

LESLIE T. REEVES
 Print or Type Name

Leslie Reeves
 Signature

12/12/2018
 Date

(713) 497-2492
 Phone Number

LESLIE_REEVES@OXY.COM
 e-mail Address



OXY USA Inc

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

January 8, 2019

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

Attention: Leonard Lowe

Re: ***AMENDED Application for Administrative Approval of Non-Standard Location
Height CC 6_7 Federal Com 31H – Purple Sage Wolfcamp
Surface – 262' FNL 626' 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 D 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 31H well, API Number-30-015-pending, Property Code pending. The #31H 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 – 262' FNL 626' FWL Unit D Sec 6 T24S R29E
First Take Point – 100' FNL 330' FWL Unit D Sec 6 T24S R29E
Last Take Point – 330' FNL 330' FWL Unit M Sec 7 T24S R29E
Bottom Hole –20' FSL 330' FWL Unit D Sec 7 T24S R29E

The adjoining unit towards which the unorthodox location encroaches is 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 previously 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,

Leslie T. Reeves
Regulatory Advisor



OXY USA Inc

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

December 12, 2018

CERTIFIED MAIL – RETURN RECEIPT REQUESTED **AMENDED**

Re: *Application for Administrative Approval of Non-Standard Location
Height CC 6 7 Federal Com 31H – Purple Sage Wolfcamp
Surface – 262' FNL 626' FWL Unit D Sec 6 T24S R29E
First Take Point – 100' FNL 330' FWL Unit D Sec 6 T24S R29E
Last Take Point – 100' FSL 330' FWL Unit M Sec 7 T24S R29E
Bottom Hole –20' FSL 330' FWL Unit D 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 – 262' FNL 626' FWL Unit D Sec 6 T24S R29E

First Take Point – 100' FNL 330' FWL Unit D Sec 6 T24S R29E

LTP= 330' FSL Last Take Point – ~~100'~~ FNL 330' FWL Unit M Sec 7 T24S R29E

Bottom Hole –20' FSL 330' FWL Unit D 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 Jeremy Murphrey at 713-350-4816 or myself at 713-497-2492.

Thank you,


Leslie T. Reeves
Regulatory Advisor
OXY USA Inc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNMO13996
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA INCORPORATED		7. If Unit or CA Agreement, Name and No.
3a. Address 5 Greenway Plaza, Suite 110 Houston TX 770		8. Lease Name and Well No. HEIGHT CC 6_7 FEDERAL COM 31H
3b. Phone No. (include area code) (713)366-5716		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements*) At surface LOT 4 / 262 FNL / 626 FWL / LAT 32.2535853 / LONG -104.030322 At proposed prod. zone LOT 4 / 20 FSL / 330 FWL / LAT 32.2250709 / LONG -104.0311984		10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP / WOLFCA
11. Sec., T. R. M. or Blk. and Survey or Area SEC 6 / T24S / R29E / NMP		12. County or Parish EDDY
14. Distance in miles and direction from nearest town or post office* 4 miles		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 50 feet	16. No. of acres in lease 199.71	17. Spacing Unit dedicated to this well 640
18. Distance from proposed location* to nearest well, drilling, completed, 35 feet applied for, on this lease, ft.	19. Proposed Depth 9783 feet / 20088 feet	20. BLM/BIA Bond No. on file FED: ESB000226
21. Elevations (Show whether DF, KDB, RT, GL, etc) 2965 feet	22. Approximate date work will start* 12/23/2018	23. Estimated duration 20 days

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) David Stewart / Ph: (713)366-5716	Date 08/15/2018
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Title Sr. Regulatory Advisor		
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Approved by (Signature)	Name (Printed/Typed)	Date
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Title	Office CARLSBAD
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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.

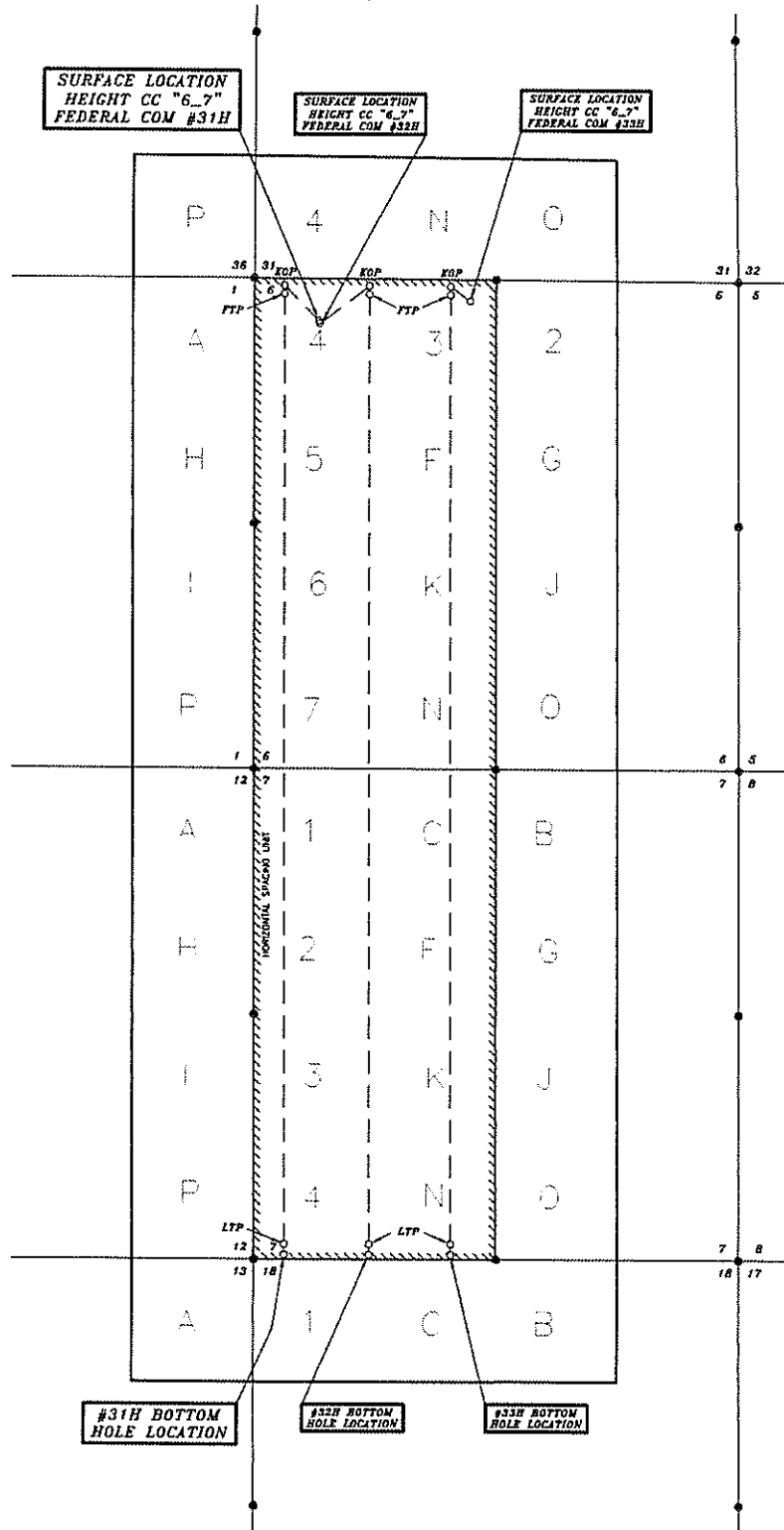
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

OXY USA INC.

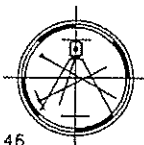
HEIGHT CC "6_7" FEDERAL COM #31H
 SECTIONS 6, 7 & 18, T24S, R29E, SECTIONS 1, 12 & 13,
 T24S, R28E, SECTION 31, T23S, R29E AND SECTION 36,
 T23S, R28E, N.M.P.M., EDDY COUNTY, NEW MEXICO



SURVEYORS CERTIFICATE

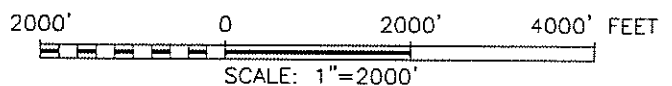
I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO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

Terry J. Asel 12/5/2018
 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



District I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 393-6181 Fax: (575) 393-0720
District II
811 S. First St., Azusa, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Azusa, NM 88210
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	Property Name HEIGHT CC "6_7" FEDERAL COM	Well Number 31H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2965.3'

Surface Location

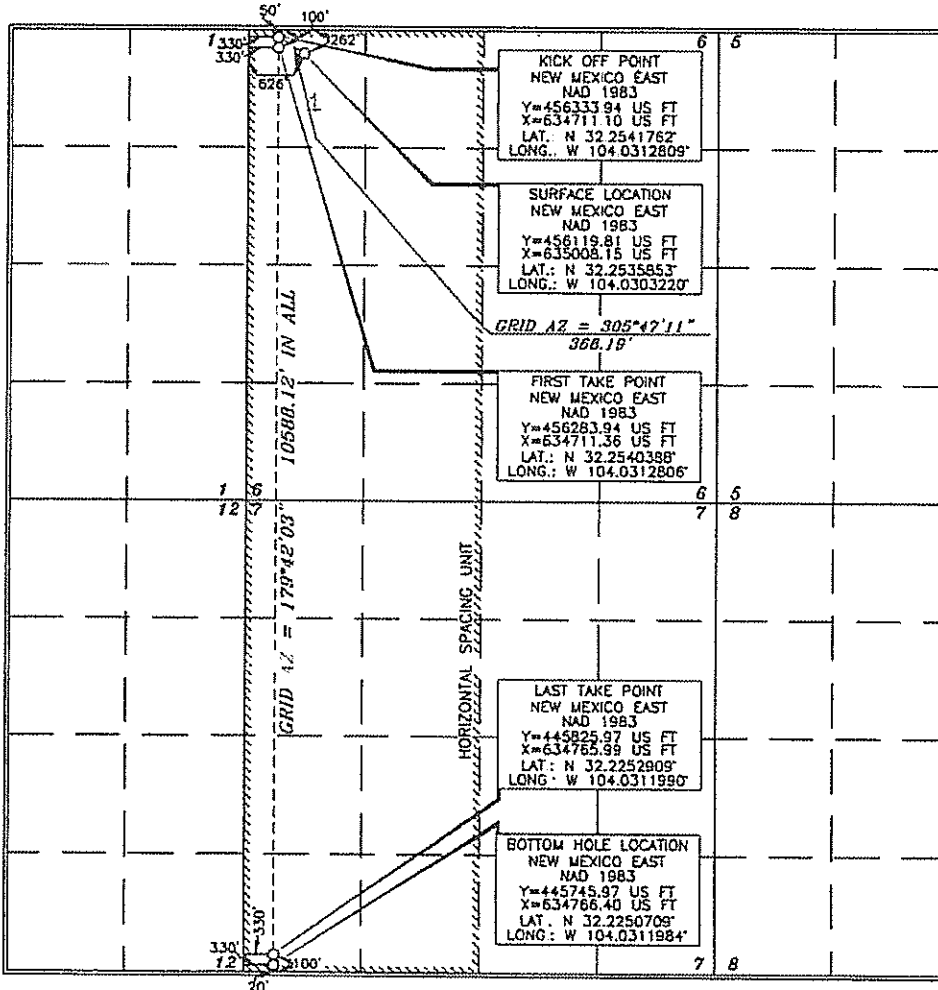
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	6	24 SOUTH	29 EAST, N.M.P.M		262'	NORTH	626'	WEST	EDDY

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 640	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 approved by the division.

Signature: *David Stewart* Date: **8/14/18**
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 the 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: **JUNE 8, 2018**
Signature and Seal of Professional Surveyor: *Tony Olad*
Professional Surveyor No. **15079**

Certificate Number: **15079**

Intent As Drilled

API #
30-015-

Operator Name: OXY USA INC.	Property Name: HEIGHT CC 6_7 FEDERAL COM	Well Number 31H
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Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	6	24S	29E		50	FNL	330	FWL	EDDY
Latitude 32.2541762					Longitude -104.0312809				NAD NAD83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	6	24S	29E		100	FNL	330	FWL	EDDY
Latitude 32.2540388					Longitude -104.0312806				NAD NAD83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	7	24S	29S		100	FSL	330	FWL	EDDY
Latitude 32.2252909					Longitude -104.0311990				NAD NAD83

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.
Height CC 6-7 Federal Com #31H

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
7014 1820 0000 0732 0021

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
7014 1820 0000 0732 0038

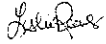
T24S-R29E

Section 18 - Unit D

Existing Horizontal Spacing Unit Section 18(T24S-R29E) - Unit D, C, B, A, E, F, G & H

Matador Resources Company
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240
7014 1820 0000 0732 0045

Copies of this application were mailed to the following individuals, companies and organizations on or before December 12, 2018.



Leslie Reeves, Regulatory Advisor
OXY USA Inc.

BOREHOLE

WELL

FIELD

STRUCTURE

Height CC 6_7 Fed Com 31H

Height CC 6_7 Fed Com 31H

Cedar Canyon

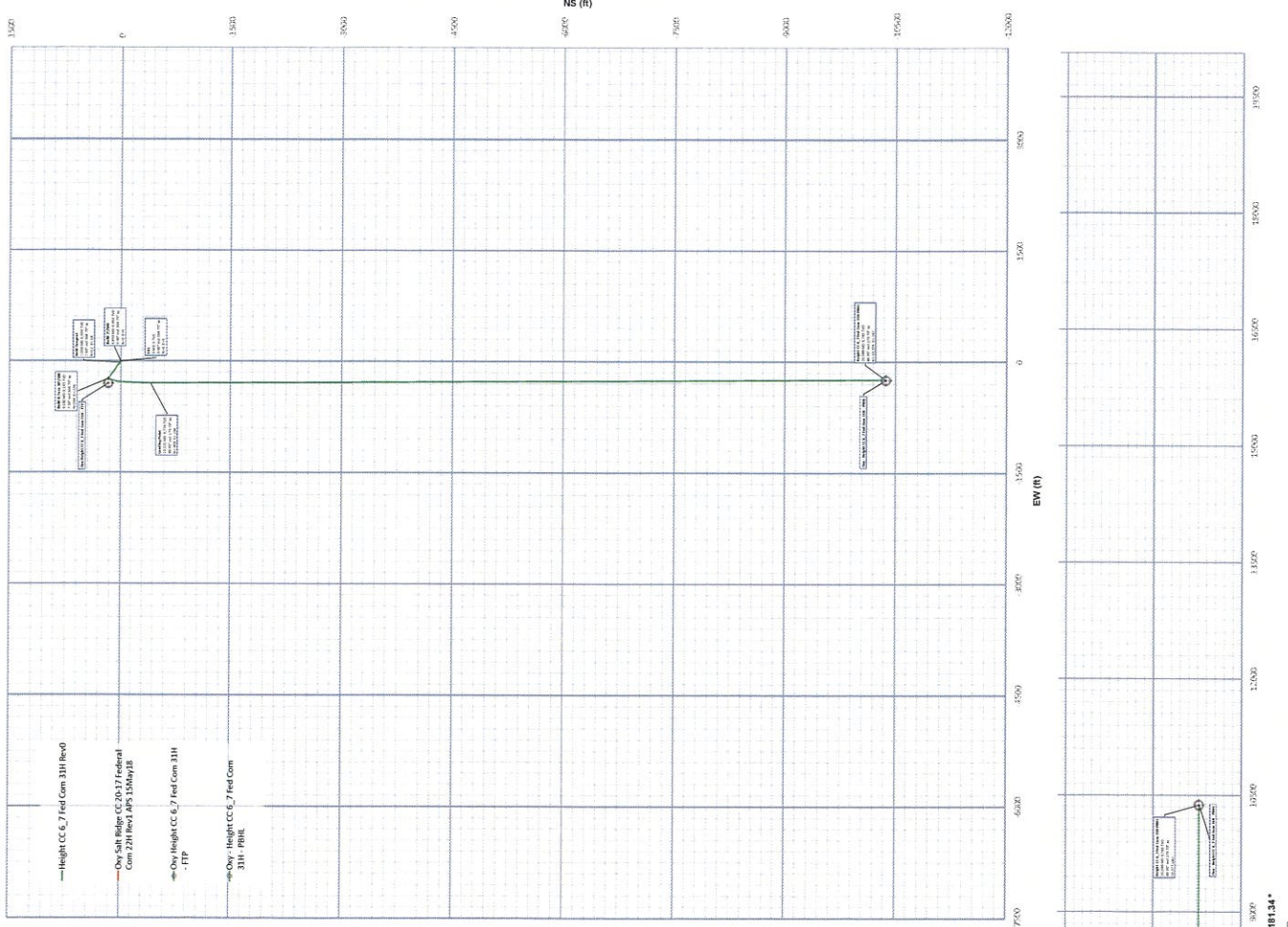
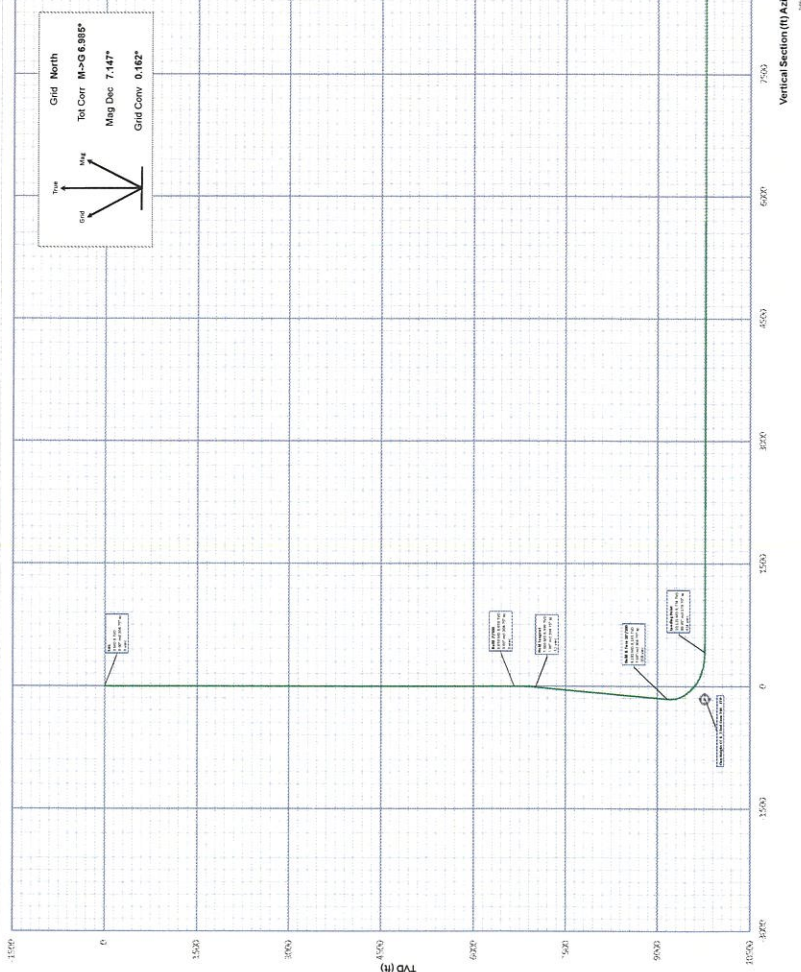
Wolfcamp XY

GRAVITY & MAGNETICS PARAMETERS		SURFACE LOCATION		MAD03 New Mexico State Plane, Eastern Zone, US Feet	
Model GARM	Dip 80.033°	Date 08-Aug-16	Lat N 32°15'12.99"	Northing 456,115.88 NUS	Grid Conv 0.162°
MagDec 7.147°	FS 47,289.450mT	Gravity FS 998.471mgal (9.80665 Base)	Lon W 104°1'08.16"	Easting 635,008.82 NUS	Scale Fact 0.99991514

MISCELLANEOUS

TwdRef RKB

Slot	Plan	Height CC 6_7 Fed Com 31H Rev0	MD	Incl	Azim	TVD	VSEC	NS	EW	DLS
SHL			0.00	0.00	304.75	0.00	0.00	0.00	0.00	0.00
Build 27100			6.650.00	0.00	304.75	6.650.00	0.00	0.00	0.00	0.00
Held Tangent			6.999.92	7.00	304.75	6.999.05	-11.75	12.17	-17.54	2.00
Build & Turn 107100			9.181.63	7.00	304.75	9.164.51	-159.13	163.68	-236.95	0.00
Landing Point			10.121.27	89.95	179.70	9.774.49	414.45	-407.69	-294.21	10.00
Height CC 6_7 Fed Com 31H FBHL			20.087.69	89.95	179.70	9.783.00	10.376.81	-10,373.98	-242.14	0.00





Height CC 6_7 Fed Com 31H Rev0 Proposal Geodetic Report

(Non-Def Plan)

Report Date: August 08, 2018 - 04:53 PM (UTC 0)
Client: Oxy
Field: Cedar Canyon
Structure / Slot: Wolfcamp XY
Well: Height CC 6_7 Fed Com 31H
Borehole: Height CC 6_7 Fed Com 31H
UWI / API#: Unknown / Unknown
Plan Name: Height CC 6_7 Fed Com 31H Rev0
Plan Date: August 08, 2018
Tort / AHD / DDI / ERD Ratio: 100.962° / 10839.533 ft / 6.352 / 1.108
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32°15'12.90094", W 104°1'49.15487"
Location Grid N/E Y/X: N 456119.180 fUS , E 635008.520 fUS
CRS Grid Convergence Angle: 0.1517°
Grid Scale Factor: 0.99991914
Engine Version: 2018.8.0.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 181.337° (GRID North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 2991.800 ft above MSL
Seabed / Ground Elevation: 2965.300 ft above MSL
Magnetic Declination: 7.147°
Total Gravity Field Strength: 998.4711mgN (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47989.45 nT
Magnetic Dip Angle: 60.033°
Declination Date: August 08, 2018
Magnetic Declination Model: HDGM 2018
North Reference: GRID
Total Corr Mag: 6.985°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (fUS)	Easting (fUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	304.75	0.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	100.00	0.00	304.75	100.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	200.00	0.00	304.75	200.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	300.00	0.00	304.75	300.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	400.00	0.00	304.75	400.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	500.00	0.00	304.75	500.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	600.00	0.00	304.75	600.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	700.00	0.00	304.75	700.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	800.00	0.00	304.75	800.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	900.00	0.00	304.75	900.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,000.00	0.00	304.75	1,000.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,100.00	0.00	304.75	1,100.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,200.00	0.00	304.75	1,200.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,300.00	0.00	304.75	1,300.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,400.00	0.00	304.75	1,400.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,500.00	0.00	304.75	1,500.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,600.00	0.00	304.75	1,600.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,700.00	0.00	304.75	1,700.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,800.00	0.00	304.75	1,800.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	1,900.00	0.00	304.75	1,900.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,000.00	0.00	304.75	2,000.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,100.00	0.00	304.75	2,100.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,200.00	0.00	304.75	2,200.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,300.00	0.00	304.75	2,300.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,400.00	0.00	304.75	2,400.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,500.00	0.00	304.75	2,500.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,600.00	0.00	304.75	2,600.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,700.00	0.00	304.75	2,700.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,800.00	0.00	304.75	2,800.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	2,900.00	0.00	304.75	2,900.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,000.00	0.00	304.75	3,000.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,100.00	0.00	304.75	3,100.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,200.00	0.00	304.75	3,200.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,300.00	0.00	304.75	3,300.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,400.00	0.00	304.75	3,400.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,500.00	0.00	304.75	3,500.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,600.00	0.00	304.75	3,600.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,700.00	0.00	304.75	3,700.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,800.00	0.00	304.75	3,800.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	3,900.00	0.00	304.75	3,900.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,000.00	0.00	304.75	4,000.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,100.00	0.00	304.75	4,100.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,200.00	0.00	304.75	4,200.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,300.00	0.00	304.75	4,300.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,400.00	0.00	304.75	4,400.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,500.00	0.00	304.75	4,500.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,600.00	0.00	304.75	4,600.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,700.00	0.00	304.75	4,700.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,800.00	0.00	304.75	4,800.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	4,900.00	0.00	304.75	4,900.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,000.00	0.00	304.75	5,000.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,100.00	0.00	304.75	5,100.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,200.00	0.00	304.75	5,200.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,300.00	0.00	304.75	5,300.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,400.00	0.00	304.75	5,400.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,500.00	0.00	304.75	5,500.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,600.00	0.00	304.75	5,600.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,700.00	0.00	304.75	5,700.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,800.00	0.00	304.75	5,800.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	5,900.00	0.00	304.75	5,900.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	6,000.00	0.00	304.75	6,000.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	6,100.00	0.00	304.75	6,100.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	6,200.00	0.00	304.75	6,200.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	6,300.00	0.00	304.75	6,300.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	6,400.00	0.00	304.75	6,400.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52	N 32°15'12.90"	W 104°1'49.15"
	6,500.00	0.00	304.75	6,500.00	0.00	0.00	0.00	0.00	456,119.18	635,008.52</		

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (RUS °'")	Longitude (RUS °'")
	7,800.00	7.00	304.75	7,793.17	-65.43	67.73	-87.63	0.00	456,166.91	634,910.89	N 32°15'13.57"	W 104°15'50.29"
	7,950.00	7.00	304.75	7,892.42	-72.14	74.68	-107.65	0.00	456,193.85	634,900.88	N 32°15'13.64"	W 104°15'50.41"
	8,000.00	7.00	304.75	7,991.68	-78.85	81.62	-117.66	0.00	456,200.79	634,890.87	N 32°15'13.71"	W 104°15'50.52"
	8,100.00	7.00	304.75	8,090.93	-85.56	88.57	-127.67	0.00	456,207.74	634,880.86	N 32°15'13.78"	W 104°15'50.64"
	8,200.00	7.00	304.75	8,190.19	-92.27	95.51	-137.68	0.00	456,214.68	634,870.85	N 32°15'13.85"	W 104°15'50.75"
	8,300.00	7.00	304.75	8,289.44	-98.98	102.46	-147.69	0.00	456,221.63	634,860.84	N 32°15'13.92"	W 104°15'50.87"
	8,400.00	7.00	304.75	8,388.70	-105.69	109.40	-157.70	0.00	456,228.57	634,850.83	N 32°15'13.99"	W 104°15'50.99"
	8,500.00	7.00	304.75	8,487.95	-112.40	116.35	-167.71	0.00	456,235.52	634,840.82	N 32°15'14.06"	W 104°15'51.10"
	8,600.00	7.00	304.75	8,587.21	-119.11	123.29	-177.72	0.00	456,242.46	634,830.81	N 32°15'14.13"	W 104°15'51.22"
	8,700.00	7.00	304.75	8,686.46	-125.82	130.24	-187.73	0.00	456,249.40	634,820.80	N 32°15'14.19"	W 104°15'51.34"
	8,800.00	7.00	304.75	8,785.72	-132.53	137.18	-197.74	0.00	456,256.35	634,810.79	N 32°15'14.26"	W 104°15'51.45"
	8,900.00	7.00	304.75	8,884.97	-139.24	144.13	-207.75	0.00	456,263.29	634,800.78	N 32°15'14.33"	W 104°15'51.57"
	9,000.00	7.00	304.75	8,984.23	-145.95	151.07	-217.77	0.00	456,270.24	634,790.77	N 32°15'14.40"	W 104°15'51.69"
	9,100.00	7.00	304.75	9,083.48	-152.66	158.02	-227.78	0.00	456,277.18	634,780.76	N 32°15'14.47"	W 104°15'51.80"
Build & Turn 10°/100	9,181.63	7.00	304.75	9,164.51	-158.13	163.68	-235.95	0.00	456,282.85	634,772.59	N 32°15'14.53"	W 104°15'51.90"
	9,200.00	6.14	290.50	9,182.76	-159.07	164.67	-237.79	10.00	456,283.63	634,770.75	N 32°15'14.54"	W 104°15'51.92"
	9,300.00	9.69	215.74	9,282.01	-153.87	159.69	-247.74	10.00	456,278.86	634,760.80	N 32°15'14.49"	W 104°15'52.03"
	9,400.00	18.70	196.97	9,378.90	-131.43	137.47	-257.36	10.00	456,256.64	634,751.19	N 32°15'14.27"	W 104°15'52.15"
	9,500.00	28.36	190.42	9,470.49	-92.44	98.68	-265.30	10.00	456,217.86	634,742.19	N 32°15'13.88"	W 104°15'52.25"
	9,600.00	38.19	187.03	9,554.00	-38.09	44.50	-274.46	10.00	456,163.68	634,734.08	N 32°15'13.35"	W 104°15'52.35"
	9,700.00	48.08	184.87	9,626.89	29.98	-23.42	-281.42	10.00	456,095.76	634,727.12	N 32°15'12.68"	W 104°15'52.43"
	9,800.00	58.00	183.30	9,686.93	109.70	-103.03	-287.03	10.00	456,016.16	634,721.51	N 32°15'11.89"	W 104°15'52.50"
	9,900.00	67.94	182.03	9,732.32	198.64	-191.90	-291.12	10.00	455,927.29	634,717.42	N 32°15'11.01"	W 104°15'52.55"
	10,000.00	77.89	180.93	9,761.66	294.11	-287.33	-293.56	10.00	455,831.87	634,714.98	N 32°15'10.07"	W 104°15'52.58"
	10,100.00	87.83	179.91	9,774.08	393.19	-386.43	-294.28	10.00	455,732.78	634,714.26	N 32°15'09.07"	W 104°15'52.59"
Landing Point	10,121.27	89.95	179.70	9,774.49	414.45	-407.69	-294.21	10.00	455,711.52	634,714.33	N 32°15'08.87"	W 104°15'52.59"
	10,200.00	89.95	179.70	9,774.56	493.15	-486.42	-293.80	0.00	455,632.80	634,714.74	N 32°15'08.10"	W 104°15'52.59"
	10,300.00	89.95	179.70	9,774.64	593.11	-586.42	-293.28	0.00	455,532.81	634,715.26	N 32°15'07.11"	W 104°15'52.59"
	10,400.00	89.95	179.70	9,774.73	693.07	-686.42	-292.76	0.00	455,432.82	634,715.79	N 32°15'06.12"	W 104°15'52.59"
	10,500.00	89.95	179.70	9,774.81	793.03	-786.42	-292.23	0.00	455,332.82	634,716.31	N 32°15'05.13"	W 104°15'52.58"
	10,600.00	89.95	179.70	9,774.90	892.98	-886.42	-291.71	0.00	455,232.83	634,716.83	N 32°15'04.14"	W 104°15'52.58"
	10,700.00	89.95	179.70	9,774.98	992.94	-986.42	-291.19	0.00	455,132.84	634,717.35	N 32°15'03.15"	W 104°15'52.58"
	10,800.00	89.95	179.70	9,775.07	1,092.90	-1,086.42	-290.67	0.00	455,032.85	634,717.88	N 32°15'02.16"	W 104°15'52.58"
	10,900.00	89.95	179.70	9,775.15	1,192.86	-1,186.41	-290.14	0.00	454,932.86	634,718.40	N 32°15'01.17"	W 104°15'52.57"
	11,000.00	89.95	179.70	9,775.24	1,292.82	-1,286.41	-289.62	0.00	454,832.87	634,718.92	N 32°15'00.18"	W 104°15'52.57"
	11,100.00	89.95	179.70	9,775.32	1,392.78	-1,386.41	-289.10	0.00	454,732.88	634,719.44	N 32°14'59.19"	W 104°15'52.57"
	11,200.00	89.95	179.70	9,775.41	1,492.74	-1,486.41	-288.58	0.00	454,632.89	634,719.97	N 32°14'58.20"	W 104°15'52.56"
	11,300.00	89.95	179.70	9,775.50	1,592.70	-1,586.41	-288.05	0.00	454,532.90	634,720.49	N 32°14'57.21"	W 104°15'52.56"
	11,400.00	89.95	179.70	9,775.58	1,692.66	-1,686.41	-287.53	0.00	454,432.91	634,721.01	N 32°14'56.22"	W 104°15'52.56"
	11,500.00	89.95	179.70	9,775.67	1,792.62	-1,786.41	-287.01	0.00	454,332.92	634,721.53	N 32°14'55.23"	W 104°15'52.56"
	11,600.00	89.95	179.70	9,775.75	1,892.58	-1,886.40	-286.49	0.00	454,232.93	634,722.06	N 32°14'54.24"	W 104°15'52.55"
	11,700.00	89.95	179.70	9,775.84	1,992.54	-1,986.40	-285.96	0.00	454,132.94	634,722.58	N 32°14'53.25"	W 104°15'52.55"
	11,800.00	89.95	179.70	9,775.92	2,092.49	-2,086.40	-285.44	0.00	454,032.95	634,723.10	N 32°14'52.26"	W 104°15'52.55"
	11,900.00	89.95	179.70	9,776.01	2,192.45	-2,186.40	-284.92	0.00	453,932.96	634,723.62	N 32°14'51.27"	W 104°15'52.54"
	12,000.00	89.95	179.70	9,776.09	2,292.41	-2,286.40	-284.40	0.00	453,832.97	634,724.15	N 32°14'50.28"	W 104°15'52.54"
	12,100.00	89.95	179.70	9,776.18	2,392.37	-2,386.40	-283.87	0.00	453,732.98	634,724.67	N 32°14'49.29"	W 104°15'52.54"
	12,200.00	89.95	179.70	9,776.26	2,492.33	-2,486.40	-283.35	0.00	453,632.99	634,725.19	N 32°14'48.30"	W 104°15'52.54"
	12,300.00	89.95	179.70	9,776.35	2,592.29	-2,586.40	-282.83	0.00	453,533.00	634,725.71	N 32°14'47.32"	W 104°15'52.53"
	12,400.00	89.95	179.70	9,776.43	2,692.25	-2,686.39	-282.31	0.00	453,433.01	634,726.24	N 32°14'46.33"	W 104°15'52.53"
	12,500.00	89.95	179.70	9,776.52	2,792.21	-2,786.39	-281.78	0.00	453,333.02	634,726.76	N 32°14'45.34"	W 104°15'52.53"
	12,600.00	89.95	179.70	9,776.61	2,892.17	-2,886.39	-281.26	0.00	453,233.03	634,727.28	N 32°14'44.35"	W 104°15'52.52"
	12,700.00	89.95	179.70	9,776.69	2,992.13	-2,986.39	-280.74	0.00	453,133.04	634,727.80	N 32°14'43.36"	W 104°15'52.52"
	12,800.00	89.95	179.70	9,776.78	3,092.09	-3,086.39	-280.22	0.00	453,033.05	634,728.33	N 32°14'42.37"	W 104°15'52.52"
	12,900.00	89.95	179.70	9,776.86	3,192.05	-3,186.39	-279.69	0.00	452,933.06	634,728.85	N 32°14'41.38"	W 104°15'52.52"
	13,000.00	89.95	179.70	9,776.95	3,292.00	-3,286.39	-279.17	0.00	452,833.07	634,729.37	N 32°14'40.39"	W 104°15'52.51"
	13,100.00	89.95	179.70	9,777.03	3,391.96	-3,386.38	-278.65	0.00	452,733.08	634,729.89	N 32°14'39.40"	W 104°15'52.51"
	13,200.00	89.95	179.70	9,777.12	3,491.92	-3,486.38	-278.13	0.00	452,633.09	634,730.42	N 32°14'38.41"	W 104°15'52.51"
	13,300.00	89.95	179.70	9,777.20	3,591.88	-3,586.38	-277.60	0.00	452,533.10	634,730.94	N 32°14'37.42"	W 104°15'52.50"
	13,400.00	89.95	179.70	9,777.29	3,691.84	-3,686.38	-277.08	0.00	452,433.11	634,731.46	N 32°14'36.43"	W 104°15'52.50"
	13,500.00	89.95	179.70	9,777.37	3,791.80	-3,786.38	-276.56	0.00	452,333.12	634,731.98	N 32°14'35.44"	W 104°15'52.50"
	13,600.00	89.95	179.70	9,777.46	3,891.76	-3,886.38	-276.04	0.00	452,233.13	634,732.51	N 32°14'34.45"	W 104°15'52.50"
	13,700.00	89.95	179.70	9,777.55	3,991.72	-3,986.38	-275.51	0.00	452,133.13	634,733.03	N 32°14'33.46"	W 104°15'52.49"
	13,800.00	89.95	179.70	9,777.63	4,091.68	-4,086.37	-274.99	0.00	452,033.14	634,733.55	N 32°14'32.47"	W 104°15'52.49"
	13,900.00	89.95	179.70	9,777.72	4,191.64	-4,186.37	-274.47	0.00	451,933.15	634,734.07	N 32°14'31.48"	W 104°15'52.49"
	14,000.00	89.95	179.70	9,777.80	4,291.60	-4,286.37	-273.95	0.00	451,833.16	634,734.60	N 32°14'30.49"	W 104°15'52.49"
	14,100.00	89.95	179.70	9,777.89	4,391.56	-4,386.37	-273.42	0.00	451,733.17	634,735.12	N 32°14'29.51"	W 104°15'52.48"
	14,200.00	89.95	179.70	9,777.97	4,491.51	-4,486.37	-272.89	0.00	451,633.18	634,735.64	N 32°14'28.52"	W 104°15'52.48"
	14,300.00	89.95	179.70	9,778.06	4,591.47	-4,586.37	-272.36	0.00	451,533.19	634,736.16	N 32°14'27.53"	W 104°15'52.48"
	14,400.00	89.95	179.70	9,778.14	4,691.43	-4,686.37	-271.84	0.00	451,433.20	634,736.68	N 32°14'26.54"	W 104°15'52.47"
	14,500.00	89.95	179.70	9,778.23	4,791.39	-4,786.36	-271.31	0.00	451,333.21	634,737.21	N 32°14'25.55"	W 104°15'52.47"
	14,600.00	89.95	179.70	9,778.31	4,891.35	-4,886.36	-270.79	0.00	451,233.22	634,737.73	N 32°14'24.56"	W 104°15'52.47"
	14,700.00	89.95	179.70	9,778.40	4,991.31	-4,986.36	-270.26	0.00	451,133.23	634,738.25	N 32°14'23.57"	W 104°15'52.47"
	14,800.00	89.95	179.70	9,778.48	5,091.27	-5,086.36	-269.74	0.00	451,033.24	634,738.77	N 32°14'22.58"	W 104°15'52.46"

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Eastng (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	18,400.00	89.95	179.70	9,781.56	8,689.80	-8,686.31	-250.96	0.00	447,433.59	634,757.56	N 32°13'46.96"	W 104°1'52.38"
	18,500.00	89.95	179.70	9,781.64	8,788.76	-8,786.31	-250.44	0.00	447,333.60	634,758.11	N 32°13'45.97"	W 104°1'52.36"
	18,600.00	89.95	179.70	9,781.73	8,889.72	-8,886.31	-249.91	0.00	447,233.61	634,758.63	N 32°13'44.98"	W 104°1'52.36"
	18,700.00	89.95	179.70	9,781.81	8,989.68	-8,986.31	-249.39	0.00	447,133.62	634,759.15	N 32°13'43.99"	W 104°1'52.35"
	18,800.00	89.95	179.70	9,781.90	9,089.64	-9,086.30	-248.87	0.00	447,033.63	634,759.67	N 32°13'43.00"	W 104°1'52.35"
	18,900.00	89.95	179.70	9,781.99	9,189.60	-9,186.30	-248.35	0.00	446,933.64	634,760.19	N 32°13'42.01"	W 104°1'52.35"
	19,000.00	89.95	179.70	9,782.07	9,289.56	-9,286.30	-247.82	0.00	446,833.65	634,760.72	N 32°13'41.02"	W 104°1'52.34"
	19,100.00	89.95	179.70	9,782.16	9,389.51	-9,386.30	-247.30	0.00	446,733.66	634,761.24	N 32°13'40.03"	W 104°1'52.34"
	19,200.00	89.95	179.70	9,782.24	9,489.47	-9,486.30	-246.78	0.00	446,633.67	634,761.76	N 32°13'39.04"	W 104°1'52.34"
	19,300.00	89.95	179.70	9,782.33	9,589.43	-9,586.30	-246.26	0.00	446,533.68	634,762.28	N 32°13'38.05"	W 104°1'52.34"
	19,400.00	89.95	179.70	9,782.41	9,689.39	-9,686.30	-245.73	0.00	446,433.69	634,762.81	N 32°13'37.06"	W 104°1'52.33"
	19,500.00	89.95	179.70	9,782.50	9,789.35	-9,786.29	-245.21	0.00	446,333.70	634,763.33	N 32°13'36.07"	W 104°1'52.33"
	19,600.00	89.95	179.70	9,782.58	9,889.31	-9,886.29	-244.69	0.00	446,233.71	634,763.85	N 32°13'35.08"	W 104°1'52.33"
	19,700.00	89.95	179.70	9,782.67	9,989.27	-9,986.29	-244.17	0.00	446,133.72	634,764.37	N 32°13'34.09"	W 104°1'52.33"
	19,800.00	89.95	179.70	9,782.75	10,089.23	-10,086.29	-243.64	0.00	446,033.73	634,764.90	N 32°13'33.10"	W 104°1'52.32"
	19,900.00	89.95	179.70	9,782.84	10,189.19	-10,186.29	-243.12	0.00	445,933.74	634,765.42	N 32°13'32.11"	W 104°1'52.32"
	20,000.00	89.95	179.70	9,782.93	10,289.15	-10,286.29	-242.60	0.00	445,833.75	634,765.94	N 32°13'31.12"	W 104°1'52.31"
Height CC 6_7 Fed Com 31H PBHL	20,087.69	89.95	179.70	9,783.00	10,376.81	-10,373.98	-242.14	0.00	445,746.06	634,766.40	N 32°13'30.26"	W 104°1'52.31"

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA 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	3,491.600	1/100.000	14.750			NAL_MWD_2.0_DEG	Height CC 6_7 Fed Com 31H / Height CC 6_7 Fed Com 31H Rev0
	1	3,491.600	20,087.694	1/100.000	9.875			NAL_MWD_2.0_DEG	Height CC 6_7 Fed Com 31H / Height CC 6_7 Fed Com 31H Rev0



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

December 13, 2018

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 31H
SWSW Section 31 and NWNW Section 18, T24S-R29E, Eddy County*

Dear Mr. Lowe:

Oxy USA Inc. respectfully seeks approval for a non-standard location, decreasing the first and last take point for Height CC 6_7 Fed Com 31H 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 and last take point will increase this wells effective lateral length by 460 feet, and increase the estimated ultimate recovery of the well by approximately 5%. Any increase in first and last 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 "Jennifer C. James". The signature is fluid and cursive, with the first and last names being more prominent.

Jennifer James
Development Engineer

Lowe, Leonard, EMNRD

From: Reeves, Leslie T <Leslie_Reeves@oxy.com>
Sent: Thursday, December 13, 2018 10:46 AM
To: Lowe, Leonard, EMNRD
Cc: Morris, Justin C; Stewart, David R; Reeves, Leslie T
Subject: [EXT] Height CC 6-7 Federal Com 31H - NSL Application for Approval
Attachments: Height CC 6-7 Federal Com 31H - NSL Application AsFiled 12-13-18.pdf

Hi Leonard-

Please find the attached NSL application for the Height CC 6-7 Federal Com 31H. I am only submitting this electronic copy to you for approval (no hard copy). Feel free to let me know if you have any questions or need anything further.

Thank you for the help in advance!

Leslie T. Reeves

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

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Tuesday, January 15, 2019 10:50 AM
To: 'Reeves, Leslie T'
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 6 NSLs_OXY USA INC._Height CC 6_7 Fed Com Wells_SEC 6 24S 29E

Ms. Leslie Reeves,

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-7793

API #: 30-015-45553

WELL: Height CC 6_7 Federal Com Well No. 31H

NSL-7794

API #: 30-015-45554

WELL: Height CC 6_7 Federal Com Well No. 32H

NSL-7795

API #: 30-015-45561

WELL: Height CC 6_7 Federal Com Well No. 33H

NSL-7796

API #: 30-015-45562

WELL: Height CC 6_7 Federal Com Well No. 34H

NSL-7797

API #: 30-015-45563

WELL: Height CC 6_7 Federal Com Well No. 35H

NSL-7798

API #: 30-015-45564

WELL: Height CC 6_7 Federal Com Well No. 36H

Leonard Lowe