

NSL Initial Application

Received: 05/23/19

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

RECEIVED: 05/23/19	REVIEWER: LRL	TYPE: NSL	APP NO: pLEL1914339561
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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: <u>OXY USA INC.</u>	OGRID Number: <u>16696</u>
Well Name: <u>PLATINUM MDP1 34-3 FEDERAL COM 177H</u>	API: <u>30-015-PENDING</u>
Pool: <u>PURPLE SAGE WOLFCAMP</u>	Pool Code: <u>98220</u>

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

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD
- B. Check one only for [I] or [II]
- [I] Commingling – Storage – Measurement
 DHC CTB PLC PC OLS OLM
- [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

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

SARAH CHAPMAN
 Print or Type Name

05/23/2019
 Date

(713) 350-4997
 Phone Number

Sarah Chapman
 Signature

SARAH_CHAPMAN@OXY.COM
 e-mail Address



OXY USA Inc

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

May 23, 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
Platinum MDP1 34-3 Fed Com 177H– Purple Sage Wolfcamp
Surface – 220’ FNL 2557’ FWL Unit C Sec 34 T23S R31E
First Take Point – 100’ FNL 1640’ FWL Unit C Sec 34 T23S R31E
Last Take Point – 330’ FSL 1640’ FWL Unit N Sec 3 T24S R31E
Bottom Hole – 20’ FSL 1640’ FWL Unit N Sec 3 T24S R31E
Eddy County, New Mexico***

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Platinum MDP1 34-3 Fed Com 177H well, API Number-30-015-Pending, Property Code 322245. The 177H 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 – 220’ FNL 2557’ FWL Unit C Sec 34 T23S R31E
First Take Point – 100’ FNL 1640’ FWL Unit C Sec 34 T23S R31E
Last Take Point – 330’ FSL 1640’ FWL Unit N Sec 3 T24S R31E
Bottom Hole – 20’ FSL 1640’ FWL Unit N Sec 3 T24S R31E

The adjoining units towards which the unorthodox location encroaches are located in T23S R31E, Section 27 - Units L, K, M and N.

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 713-350-4997.

Sincerely,

Sarah Chapman
Regulatory Specialist

Attachments

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

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- pending	Pool Code 98220	Pool Name Purple Sage Wolfcamp
Property Code	Property Name PLATINUM MDP1 "34_3" FEDERAL COM	Well Number 177H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3426.9'

Surface Location

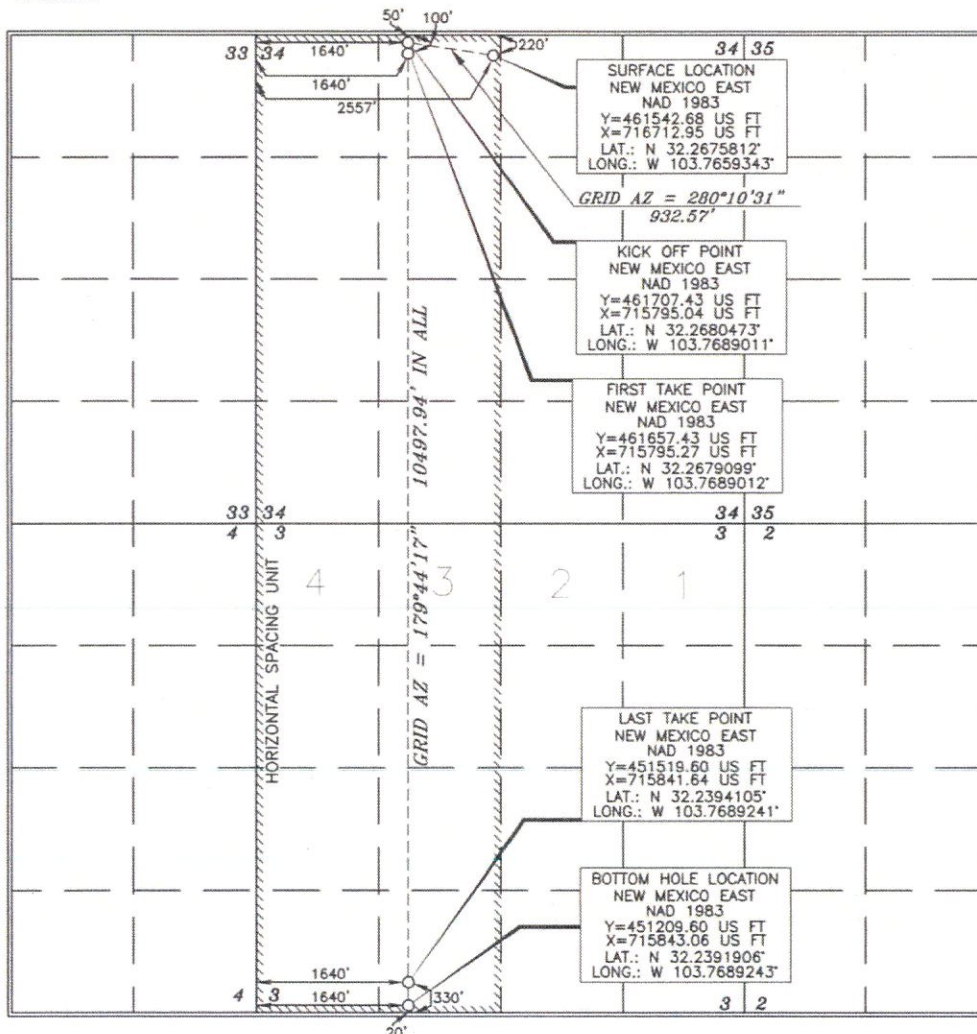
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	34	23 SOUTH	31 EAST, N.M.P.M.		220'	NORTH	2557'	WEST	EDDY

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
N	3	24 SOUTH	31 EAST, N.M.P.M.		20'	SOUTH	1640'	WEST	EDDY

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sarah Chapman 5/17/19
Signature Date

Sarah Chapman
Printed Name

Sarah.Chapman@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

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

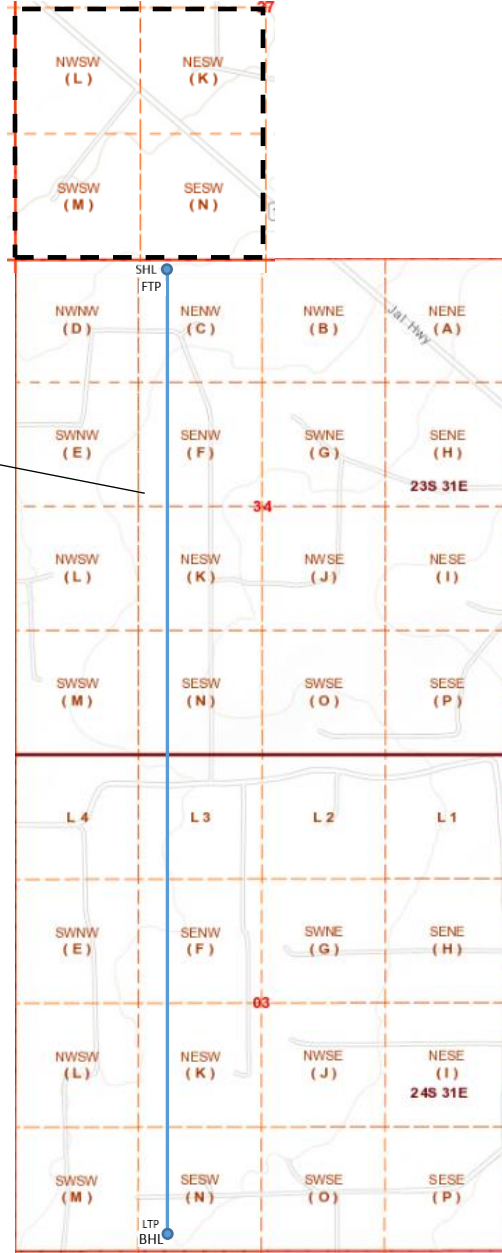
TERRY J. ADAMS
Date of Survey
15079
AUGUST 30 2018

Signature and Seal of Professional Surveyor

Terry J. Adams 5/16/19
Certificate Number 15079

OXY USA Inc.
Platinum MDP1 34-3 Federal Com 177H
Section 27 Township 23 South, Range 31 East
Eddy County, New Mexico

Platinum MDP1 34-3 Federal Com 177H



Application Non-Standard Location - Service List**OXY USA Inc.****Platinum MDP1 34-3 Federal Com 177H**

New Mexico Oil Conservation Division
811 S. First St.
Artesia, NM 88210
7017 0530 0000 6129 0520

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. Green Street
Carlsbad, NM 88220-6262
7017 0530 0000 6129 0674

T23S-R31E**Working Interest Ownership: Section 27 - Units L, K, M and N**

Devon Energy Production CO, LP
333 W. Sheridan Ave.
Oklahoma City, OK 73102
7017 0530 0000 6129 0940

Copies of this application were mailed to the following individuals, companies and organizations on or before May 23, 2019.



Sarah Chapman
OXY USA Inc.



Occidental Oil and Gas Corporation
ATTN: Amjad Abdelrahman
5 Greenway Plaza, Suite 110
Houston, TX 77046
713-366-5198
amjad_abdelrahman@oxy.com

May 17, 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.
Platinum MDP1 34-3 Federal Com 177H
T23S R31E Section 27 – Units L, K, 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 Platinum MDP1 33-4 Federal Com 177H 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 well's effective lateral length by 230 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 black ink that reads "Amjad" followed by a stylized flourish.

Amjad Abdelrahman, P.E.
Sr. Reservoir Engineer

Intent As Drilled

API # 30-015-Pending		
Operator Name: oxy USA Inc.	Property Name: Platinum MDPI 34-3 Federal Com	Well Number 177H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	34	235	31E		50	NORTH	1640	WEST	EDDY
Latitude 32.2680473					Longitude -103.7689011			NAD NAD83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	34	235	31E		100	NORTH	1640	WEST	EDDY
Latitude 32.2679099					Longitude -103.7689012			NAD NAD83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	3	245	31E		330	South	1640	WEST	EDDY
Latitude 32.2394105					Longitude -103.7689241			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

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		
2. Name of Operator OXY USA INCORPORATED		9. API Well No.
3a. Address 5 Greenway Plaza, Suite 110 Houston TX 77046	3b. Phone No. (include area code) (713)366-5716	10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP / WOLFCAM
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface NENW / 220 FNL / 2557 FWL / LAT 32.2675812 / LONG -103.7659343 At proposed prod. zone SESW / 20 FSL / 2200 FWL / LAT 32.2391927 / LONG -103.7671131		11. Sec., T. R. M. or Blk. and Survey or Area SEC 34 / T23S / R31E / NMP
14. Distance in miles and direction from nearest town or post office* 8 miles		12. County or Parish EDDY
		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 20 feet	16. No of acres in lease 640	17. Spacing Unit dedicated to this well 640
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 35 feet	19. Proposed Depth 11631 feet / 22464 feet	20. BLM/BIA Bond No. in file FED: ESB000226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3427 feet	22. Approximate date work will start* 05/21/2019	23. Estimated duration 20 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|--|
| <p>1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
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).</p> | <p>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.</p> |
|--|--|

25. Signature (Electronic Submission)	Name (Printed/Typed) David Stewart / Ph: (713)366-5716	Date 12/19/2018
Title Sr. Regulatory Advisor		
Approved by (Signature)	Name (Printed/Typed)	Date
Title Office CARLSBAD		

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

Conditions of approval, if any, are attached.

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

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
 Site: PLATINUM MDP1 34-3 FED COM
 Well: PLATINUM MDP1 34-3 FED COM 177H
 Wellbore: Wellbore #1
 Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Azimuths to Grid North
 True North: -0.30°
 Magnetic North: 6.46°

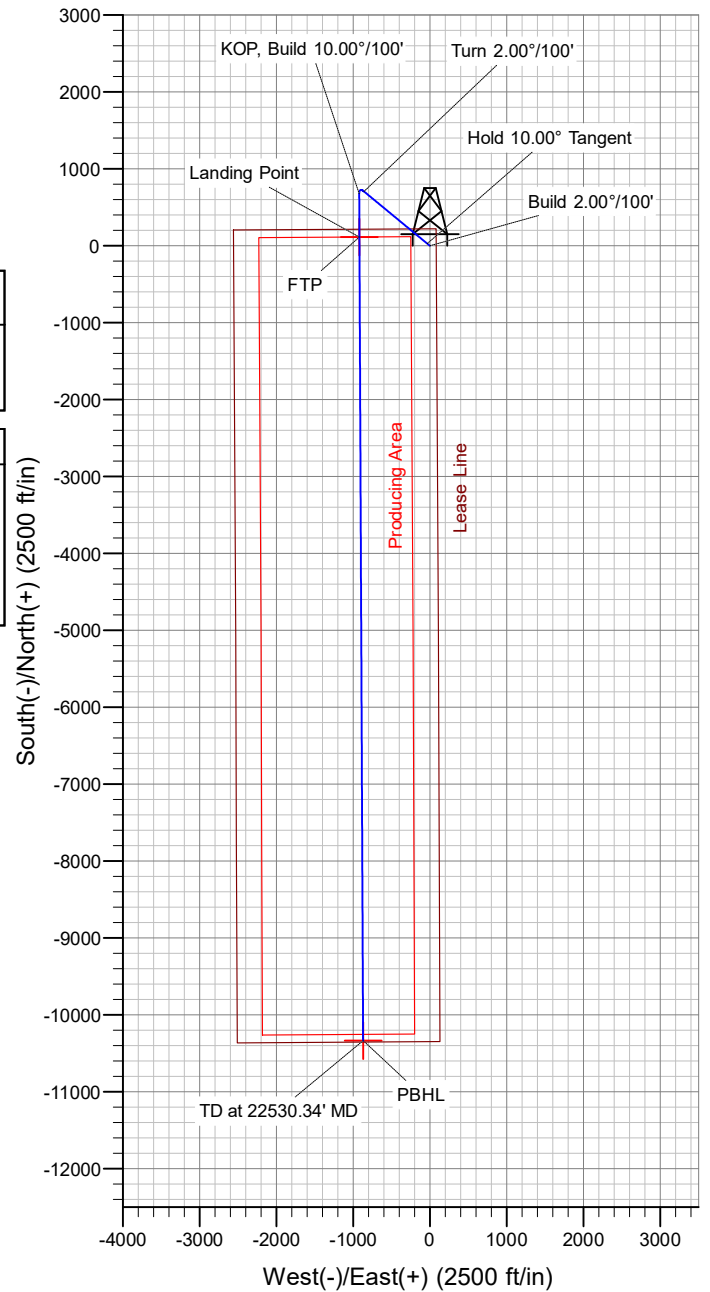
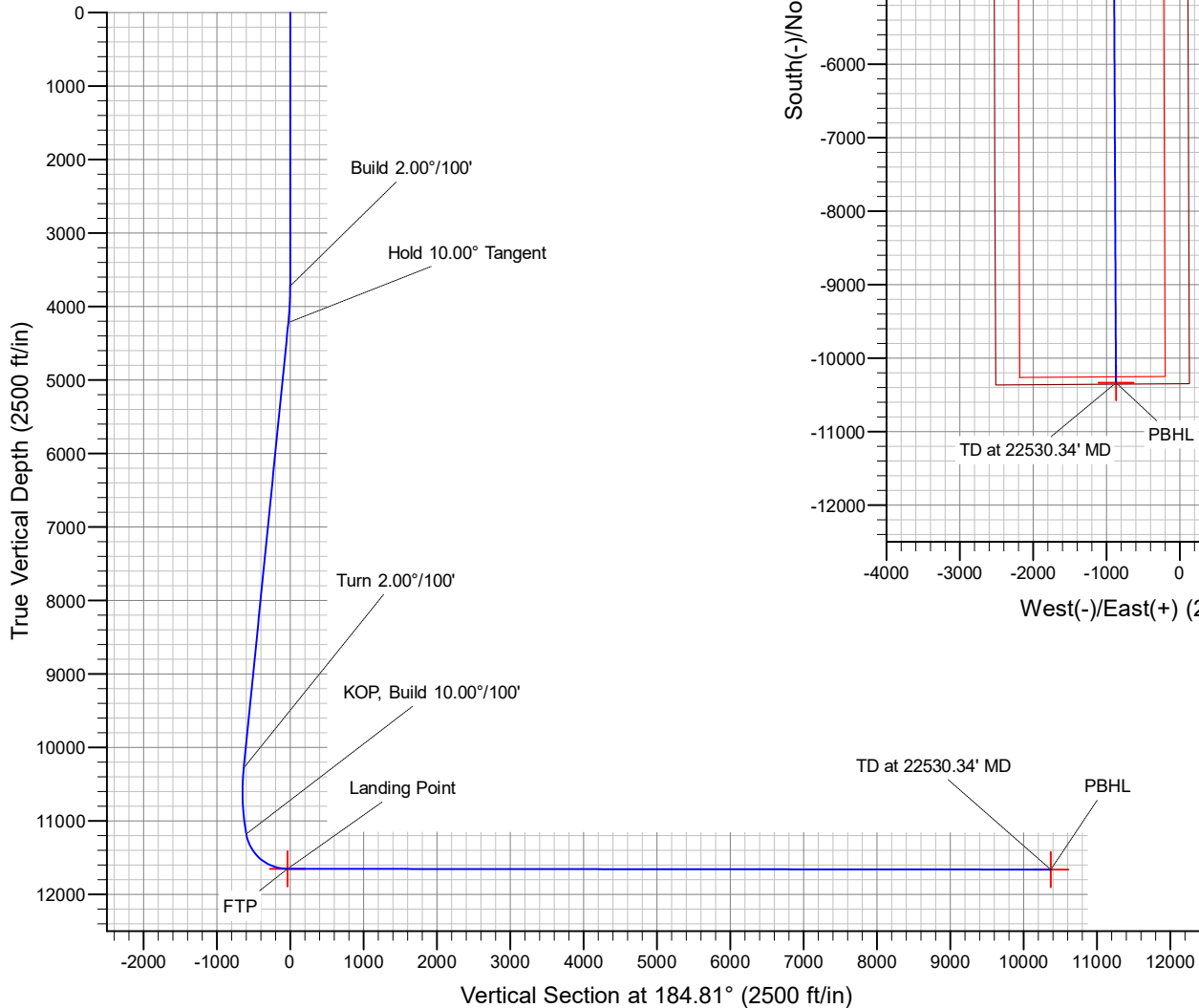
Magnetic Field
 Strength: 47954.1snT
 Dip Angle: 59.97°
 Date: 5/20/2019
 Model: HDGM

WELL DETAILS: PLATINUM MDP1 34-3 FED COM 177H

+N-S	+E-W	Ground Level:	3426.90
0.00	0.00	Northing	461542.68
		Easting	716712.95
		Latitude	$32^\circ 16' 3.292168\text{ N}$
		Longitude	$103^\circ 45' 57.363455\text{ W}$

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3720.00	0.00	0.00	3720.00	0.00	0.00	0.00	0.00	0.00	Build 2.00°/100'
4220.14	10.00	309.45	4217.61	27.67	-33.63	2.00	309.45	-24.75	Hold 10.00° Tangent
10377.81	10.00	309.45	10281.67	707.31	-859.50	0.00	0.00	-632.72	Turn 2.00°/100'
11282.35	10.00	179.74	11179.94	678.46	-920.31	2.00	-154.52	-598.86	KOP, Build 10.00°/100'
12081.80	89.95	179.74	11653.40	114.76	-917.73	10.00	0.00	-37.37	Landing Point
22530.34	89.95	179.74	11663.40	-10333.68	-869.94	0.00	0.00	10370.23	TD at 22530.34' MD



TD at 22530.34' MD
 PBHL

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

PLATINUM MDP1 34-3 FED COM

PLATINUM MDP1 34-3 FED COM 177H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

20 May, 2019

Oxy Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 177H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3453.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3453.40ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project PRD NM DIRECTIONAL PLANS (NAD 1983)			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site PLATINUM MDP1 34-3 FED COM			
Site Position:		Northing:	461,352.44 usft
From:	Map	Easting:	714,923.95 usft
Position Uncertainty:	50.00 ft	Slot Radius:	13.200 in
		Latitude:	32° 16' 1.502765 N
		Longitude:	103° 46' 18.211063 W
		Grid Convergence:	0.30 °

Well PLATINUM MDP1 34-3 FED COM 177H			
Well Position		Northing:	461,542.68 usft
	+N/-S	190.25 ft	Latitude:
	+E/-W	1,789.10 ft	Longitude:
Position Uncertainty	2.00 ft	Wellhead Elevation:	0.00 ft
		Ground Level:	3,426.90 ft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/20/2019	6.77	59.97	47,954

Design Permitting Plan				
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	184.81

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,720.00	0.00	0.00	3,720.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,220.14	10.00	309.45	4,217.61	27.67	-33.63	2.00	2.00	0.00	309.45	
10,377.81	10.00	309.45	10,281.67	707.31	-859.50	0.00	0.00	0.00	0.00	
11,282.35	10.00	179.74	11,179.94	678.46	-920.31	2.00	0.00	-14.34	-154.52	
12,081.80	89.95	179.74	11,653.40	114.76	-917.73	10.00	10.00	0.00	0.00	FTP (Platinum)
22,530.34	89.95	179.74	11,663.40	-10,333.68	-869.94	0.00	0.00	0.00	0.00	PBHL (Platinum)

Oxy Planning Report

Database:	HOSPSP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 177H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3453.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3453.40ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,720.00	0.00	0.00	3,720.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	1.60	309.45	3,799.99	0.71	-0.86	-0.63	2.00	2.00	0.00
3,900.00	3.60	309.45	3,899.88	3.59	-4.37	-3.21	2.00	2.00	0.00
4,000.00	5.60	309.45	3,999.55	8.69	-10.56	-7.77	2.00	2.00	0.00
4,100.00	7.60	309.45	4,098.89	15.99	-19.43	-14.30	2.00	2.00	0.00
4,200.00	9.60	309.45	4,197.76	25.49	-30.98	-22.80	2.00	2.00	0.00
4,220.14	10.00	309.45	4,217.61	27.67	-33.63	-24.75	2.00	2.00	0.00
4,300.00	10.00	309.45	4,296.25	36.49	-44.34	-32.64	0.00	0.00	0.00
4,400.00	10.00	309.45	4,394.73	47.52	-57.75	-42.51	0.00	0.00	0.00
4,500.00	10.00	309.45	4,493.21	58.56	-71.16	-52.38	0.00	0.00	0.00
4,600.00	10.00	309.45	4,591.69	69.60	-84.57	-62.26	0.00	0.00	0.00
4,700.00	10.00	309.45	4,690.17	80.63	-97.98	-72.13	0.00	0.00	0.00
4,800.00	10.00	309.45	4,788.65	91.67	-111.40	-82.00	0.00	0.00	0.00
4,900.00	10.00	309.45	4,887.13	102.71	-124.81	-91.88	0.00	0.00	0.00
5,000.00	10.00	309.45	4,985.61	113.75	-138.22	-101.75	0.00	0.00	0.00
5,100.00	10.00	309.45	5,084.09	124.78	-151.63	-111.62	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 177H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3453.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3453.40ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,200.00	10.00	309.45	5,182.57	135.82	-165.05	-121.50	0.00	0.00	0.00	
5,300.00	10.00	309.45	5,281.05	146.86	-178.46	-131.37	0.00	0.00	0.00	
5,400.00	10.00	309.45	5,379.53	157.90	-191.87	-141.24	0.00	0.00	0.00	
5,500.00	10.00	309.45	5,478.01	168.93	-205.28	-151.12	0.00	0.00	0.00	
5,600.00	10.00	309.45	5,576.49	179.97	-218.69	-160.99	0.00	0.00	0.00	
5,700.00	10.00	309.45	5,674.97	191.01	-232.11	-170.86	0.00	0.00	0.00	
5,800.00	10.00	309.45	5,773.45	202.05	-245.52	-180.74	0.00	0.00	0.00	
5,900.00	10.00	309.45	5,871.93	213.08	-258.93	-190.61	0.00	0.00	0.00	
6,000.00	10.00	309.45	5,970.41	224.12	-272.34	-200.48	0.00	0.00	0.00	
6,100.00	10.00	309.45	6,068.89	235.16	-285.75	-210.36	0.00	0.00	0.00	
6,200.00	10.00	309.45	6,167.37	246.19	-299.17	-220.23	0.00	0.00	0.00	
6,300.00	10.00	309.45	6,265.85	257.23	-312.58	-230.10	0.00	0.00	0.00	
6,400.00	10.00	309.45	6,364.33	268.27	-325.99	-239.98	0.00	0.00	0.00	
6,500.00	10.00	309.45	6,462.81	279.31	-339.40	-249.85	0.00	0.00	0.00	
6,600.00	10.00	309.45	6,561.29	290.34	-352.81	-259.72	0.00	0.00	0.00	
6,700.00	10.00	309.45	6,659.77	301.38	-366.23	-269.60	0.00	0.00	0.00	
6,800.00	10.00	309.45	6,758.25	312.42	-379.64	-279.47	0.00	0.00	0.00	
6,900.00	10.00	309.45	6,856.73	323.46	-393.05	-289.34	0.00	0.00	0.00	
7,000.00	10.00	309.45	6,955.21	334.49	-406.46	-299.22	0.00	0.00	0.00	
7,100.00	10.00	309.45	7,053.69	345.53	-419.88	-309.09	0.00	0.00	0.00	
7,200.00	10.00	309.45	7,152.17	356.57	-433.29	-318.96	0.00	0.00	0.00	
7,300.00	10.00	309.45	7,250.65	367.60	-446.70	-328.84	0.00	0.00	0.00	
7,400.00	10.00	309.45	7,349.13	378.64	-460.11	-338.71	0.00	0.00	0.00	
7,500.00	10.00	309.45	7,447.61	389.68	-473.52	-348.58	0.00	0.00	0.00	
7,600.00	10.00	309.45	7,546.09	400.72	-486.94	-358.46	0.00	0.00	0.00	
7,700.00	10.00	309.45	7,644.57	411.75	-500.35	-368.33	0.00	0.00	0.00	
7,800.00	10.00	309.45	7,743.05	422.79	-513.76	-378.20	0.00	0.00	0.00	
7,900.00	10.00	309.45	7,841.53	433.83	-527.17	-388.08	0.00	0.00	0.00	
8,000.00	10.00	309.45	7,940.01	444.87	-540.58	-397.95	0.00	0.00	0.00	
8,100.00	10.00	309.45	8,038.49	455.90	-554.00	-407.82	0.00	0.00	0.00	
8,200.00	10.00	309.45	8,136.97	466.94	-567.41	-417.70	0.00	0.00	0.00	
8,300.00	10.00	309.45	8,235.45	477.98	-580.82	-427.57	0.00	0.00	0.00	
8,400.00	10.00	309.45	8,333.93	489.02	-594.23	-437.44	0.00	0.00	0.00	
8,500.00	10.00	309.45	8,432.41	500.05	-607.65	-447.32	0.00	0.00	0.00	
8,600.00	10.00	309.45	8,530.89	511.09	-621.06	-457.19	0.00	0.00	0.00	
8,700.00	10.00	309.45	8,629.37	522.13	-634.47	-467.06	0.00	0.00	0.00	
8,800.00	10.00	309.45	8,727.85	533.16	-647.88	-476.94	0.00	0.00	0.00	
8,900.00	10.00	309.45	8,826.33	544.20	-661.29	-486.81	0.00	0.00	0.00	
9,000.00	10.00	309.45	8,924.81	555.24	-674.71	-496.68	0.00	0.00	0.00	
9,100.00	10.00	309.45	9,023.29	566.28	-688.12	-506.56	0.00	0.00	0.00	
9,200.00	10.00	309.45	9,121.77	577.31	-701.53	-516.43	0.00	0.00	0.00	
9,300.00	10.00	309.45	9,220.24	588.35	-714.94	-526.30	0.00	0.00	0.00	
9,400.00	10.00	309.45	9,318.72	599.39	-728.35	-536.18	0.00	0.00	0.00	
9,500.00	10.00	309.45	9,417.20	610.43	-741.77	-546.05	0.00	0.00	0.00	
9,600.00	10.00	309.45	9,515.68	621.46	-755.18	-555.92	0.00	0.00	0.00	
9,700.00	10.00	309.45	9,614.16	632.50	-768.59	-565.80	0.00	0.00	0.00	
9,800.00	10.00	309.45	9,712.64	643.54	-782.00	-575.67	0.00	0.00	0.00	
9,900.00	10.00	309.45	9,811.12	654.57	-795.42	-585.54	0.00	0.00	0.00	
10,000.00	10.00	309.45	9,909.60	665.61	-808.83	-595.42	0.00	0.00	0.00	
10,100.00	10.00	309.45	10,008.08	676.65	-822.24	-605.29	0.00	0.00	0.00	
10,200.00	10.00	309.45	10,106.56	687.69	-835.65	-615.16	0.00	0.00	0.00	
10,300.00	10.00	309.45	10,205.04	698.72	-849.06	-625.04	0.00	0.00	0.00	
10,377.81	10.00	309.45	10,281.67	707.31	-859.50	-632.72	0.00	0.00	0.00	
10,400.00	9.60	308.31	10,303.54	709.68	-862.44	-634.84	2.00	-1.80	-5.16	

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 177H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3453.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3453.40ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,500.00	7.87	301.75	10,402.38	718.46	-874.81	-642.54	2.00	-1.74	-6.56	
10,600.00	6.29	291.73	10,501.61	724.09	-885.71	-647.24	2.00	-1.58	-10.02	
10,700.00	5.01	275.91	10,601.13	726.56	-895.14	-648.91	2.00	-1.27	-15.82	
10,800.00	4.33	252.61	10,700.81	725.88	-903.09	-647.57	2.00	-0.69	-23.30	
10,900.00	4.51	226.52	10,800.52	722.05	-909.54	-643.21	2.00	0.18	-26.09	
11,000.00	5.47	206.13	10,900.15	715.07	-914.49	-635.84	2.00	0.96	-20.39	
11,100.00	6.89	192.93	10,999.57	704.95	-917.93	-625.47	2.00	1.42	-13.20	
11,200.00	8.54	184.52	11,098.67	691.70	-919.86	-612.10	2.00	1.66	-8.42	
11,282.35	10.00	179.74	11,179.94	678.46	-920.31	-598.86	2.00	1.77	-5.80	
11,300.00	11.77	179.74	11,197.27	675.12	-920.29	-595.54	10.00	10.00	0.00	
11,400.00	21.77	179.74	11,292.90	646.31	-920.16	-566.85	10.00	10.00	0.00	
11,500.00	31.77	179.74	11,382.07	601.34	-919.96	-522.05	10.00	10.00	0.00	
11,600.00	41.77	179.74	11,462.08	541.56	-919.69	-462.50	10.00	10.00	0.00	
11,700.00	51.77	179.74	11,530.49	468.80	-919.36	-390.03	10.00	10.00	0.00	
11,800.00	61.77	179.74	11,585.23	385.26	-918.98	-306.82	10.00	10.00	0.00	
11,900.00	71.77	179.74	11,624.63	293.49	-918.56	-215.40	10.00	10.00	0.00	
12,000.00	81.77	179.74	11,647.49	196.27	-918.12	-118.56	10.00	10.00	0.00	
12,081.80	89.95	179.74	11,653.40	114.76	-917.73	-37.37	10.00	10.00	0.00	
12,100.00	89.95	179.74	11,653.42	96.55	-917.65	-19.24	0.00	0.00	0.00	
12,200.00	89.95	179.74	11,653.51	-3.45	-917.19	80.37	0.00	0.00	0.00	
12,300.00	89.95	179.74	11,653.61	-103.44	-916.73	179.98	0.00	0.00	0.00	
12,400.00	89.95	179.74	11,653.70	-203.44	-916.28	279.59	0.00	0.00	0.00	
12,500.00	89.95	179.74	11,653.80	-303.44	-915.82	379.20	0.00	0.00	0.00	
12,600.00	89.95	179.74	11,653.90	-403.44	-915.36	478.80	0.00	0.00	0.00	
12,700.00	89.95	179.74	11,653.99	-503.44	-914.91	578.41	0.00	0.00	0.00	
12,800.00	89.95	179.74	11,654.09	-603.44	-914.45	678.02	0.00	0.00	0.00	
12,900.00	89.95	179.74	11,654.18	-703.44	-913.99	777.63	0.00	0.00	0.00	
13,000.00	89.95	179.74	11,654.28	-803.44	-913.53	877.24	0.00	0.00	0.00	
13,100.00	89.95	179.74	11,654.37	-903.44	-913.08	976.84	0.00	0.00	0.00	
13,200.00	89.95	179.74	11,654.47	-1,003.43	-912.62	1,076.45	0.00	0.00	0.00	
13,300.00	89.95	179.74	11,654.57	-1,103.43	-912.16	1,176.06	0.00	0.00	0.00	
13,400.00	89.95	179.74	11,654.66	-1,203.43	-911.70	1,275.67	0.00	0.00	0.00	
13,500.00	89.95	179.74	11,654.76	-1,303.43	-911.25	1,375.28	0.00	0.00	0.00	
13,600.00	89.95	179.74	11,654.85	-1,403.43	-910.79	1,474.88	0.00	0.00	0.00	
13,700.00	89.95	179.74	11,654.95	-1,503.43	-910.33	1,574.49	0.00	0.00	0.00	
13,800.00	89.95	179.74	11,655.04	-1,603.43	-909.87	1,674.10	0.00	0.00	0.00	
13,900.00	89.95	179.74	11,655.14	-1,703.43	-909.42	1,773.71	0.00	0.00	0.00	
14,000.00	89.95	179.74	11,655.24	-1,803.43	-908.96	1,873.32	0.00	0.00	0.00	
14,100.00	89.95	179.74	11,655.33	-1,903.42	-908.50	1,972.92	0.00	0.00	0.00	
14,200.00	89.95	179.74	11,655.43	-2,003.42	-908.04	2,072.53	0.00	0.00	0.00	
14,300.00	89.95	179.74	11,655.52	-2,103.42	-907.59	2,172.14	0.00	0.00	0.00	
14,400.00	89.95	179.74	11,655.62	-2,203.42	-907.13	2,271.75	0.00	0.00	0.00	
14,500.00	89.95	179.74	11,655.71	-2,303.42	-906.67	2,371.36	0.00	0.00	0.00	
14,600.00	89.95	179.74	11,655.81	-2,403.42	-906.21	2,470.97	0.00	0.00	0.00	
14,700.00	89.95	179.74	11,655.91	-2,503.42	-905.76	2,570.57	0.00	0.00	0.00	
14,800.00	89.95	179.74	11,656.00	-2,603.42	-905.30	2,670.18	0.00	0.00	0.00	
14,900.00	89.95	179.74	11,656.10	-2,703.42	-904.84	2,769.79	0.00	0.00	0.00	
15,000.00	89.95	179.74	11,656.19	-2,803.41	-904.38	2,869.40	0.00	0.00	0.00	
15,100.00	89.95	179.74	11,656.29	-2,903.41	-903.93	2,969.01	0.00	0.00	0.00	
15,200.00	89.95	179.74	11,656.38	-3,003.41	-903.47	3,068.61	0.00	0.00	0.00	
15,300.00	89.95	179.74	11,656.48	-3,103.41	-903.01	3,168.22	0.00	0.00	0.00	
15,400.00	89.95	179.74	11,656.58	-3,203.41	-902.56	3,267.83	0.00	0.00	0.00	
15,500.00	89.95	179.74	11,656.67	-3,303.41	-902.10	3,367.44	0.00	0.00	0.00	
15,600.00	89.95	179.74	11,656.77	-3,403.41	-901.64	3,467.05	0.00	0.00	0.00	

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 177H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3453.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3453.40ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,700.00	89.95	179.74	11,656.86	-3,503.41	-901.18	3,566.65	0.00	0.00	0.00	
15,800.00	89.95	179.74	11,656.96	-3,603.41	-900.73	3,666.26	0.00	0.00	0.00	
15,900.00	89.95	179.74	11,657.05	-3,703.40	-900.27	3,765.87	0.00	0.00	0.00	
16,000.00	89.95	179.74	11,657.15	-3,803.40	-899.81	3,865.48	0.00	0.00	0.00	
16,100.00	89.95	179.74	11,657.25	-3,903.40	-899.35	3,965.09	0.00	0.00	0.00	
16,200.00	89.95	179.74	11,657.34	-4,003.40	-898.90	4,064.69	0.00	0.00	0.00	
16,300.00	89.95	179.74	11,657.44	-4,103.40	-898.44	4,164.30	0.00	0.00	0.00	
16,400.00	89.95	179.74	11,657.53	-4,203.40	-897.98	4,263.91	0.00	0.00	0.00	
16,500.00	89.95	179.74	11,657.63	-4,303.40	-897.52	4,363.52	0.00	0.00	0.00	
16,600.00	89.95	179.74	11,657.72	-4,403.40	-897.07	4,463.13	0.00	0.00	0.00	
16,700.00	89.95	179.74	11,657.82	-4,503.40	-896.61	4,562.74	0.00	0.00	0.00	
16,800.00	89.95	179.74	11,657.92	-4,603.39	-896.15	4,662.34	0.00	0.00	0.00	
16,900.00	89.95	179.74	11,658.01	-4,703.39	-895.69	4,761.95	0.00	0.00	0.00	
17,000.00	89.95	179.74	11,658.11	-4,803.39	-895.24	4,861.56	0.00	0.00	0.00	
17,100.00	89.95	179.74	11,658.20	-4,903.39	-894.78	4,961.17	0.00	0.00	0.00	
17,200.00	89.95	179.74	11,658.30	-5,003.39	-894.32	5,060.78	0.00	0.00	0.00	
17,300.00	89.95	179.74	11,658.39	-5,103.39	-893.86	5,160.38	0.00	0.00	0.00	
17,400.00	89.95	179.74	11,658.49	-5,203.39	-893.41	5,259.99	0.00	0.00	0.00	
17,500.00	89.95	179.74	11,658.59	-5,303.39	-892.95	5,359.60	0.00	0.00	0.00	
17,600.00	89.95	179.74	11,658.68	-5,403.39	-892.49	5,459.21	0.00	0.00	0.00	
17,700.00	89.95	179.74	11,658.78	-5,503.39	-892.03	5,558.82	0.00	0.00	0.00	
17,800.00	89.95	179.74	11,658.87	-5,603.38	-891.58	5,658.42	0.00	0.00	0.00	
17,900.00	89.95	179.74	11,658.97	-5,703.38	-891.12	5,758.03	0.00	0.00	0.00	
18,000.00	89.95	179.74	11,659.06	-5,803.38	-890.66	5,857.64	0.00	0.00	0.00	
18,100.00	89.95	179.74	11,659.16	-5,903.38	-890.21	5,957.25	0.00	0.00	0.00	
18,200.00	89.95	179.74	11,659.26	-6,003.38	-889.75	6,056.86	0.00	0.00	0.00	
18,300.00	89.95	179.74	11,659.35	-6,103.38	-889.29	6,156.46	0.00	0.00	0.00	
18,400.00	89.95	179.74	11,659.45	-6,203.38	-888.83	6,256.07	0.00	0.00	0.00	
18,500.00	89.95	179.74	11,659.54	-6,303.38	-888.38	6,355.68	0.00	0.00	0.00	
18,600.00	89.95	179.74	11,659.64	-6,403.38	-887.92	6,455.29	0.00	0.00	0.00	
18,700.00	89.95	179.74	11,659.73	-6,503.37	-887.46	6,554.90	0.00	0.00	0.00	
18,800.00	89.95	179.74	11,659.83	-6,603.37	-887.00	6,654.51	0.00	0.00	0.00	
18,900.00	89.95	179.74	11,659.93	-6,703.37	-886.55	6,754.11	0.00	0.00	0.00	
19,000.00	89.95	179.74	11,660.02	-6,803.37	-886.09	6,853.72	0.00	0.00	0.00	
19,100.00	89.95	179.74	11,660.12	-6,903.37	-885.63	6,953.33	0.00	0.00	0.00	
19,200.00	89.95	179.74	11,660.21	-7,003.37	-885.17	7,052.94	0.00	0.00	0.00	
19,300.00	89.95	179.74	11,660.31	-7,103.37	-884.72	7,152.55	0.00	0.00	0.00	
19,400.00	89.95	179.74	11,660.40	-7,203.37	-884.26	7,252.15	0.00	0.00	0.00	
19,500.00	89.95	179.74	11,660.50	-7,303.37	-883.80	7,351.76	0.00	0.00	0.00	
19,600.00	89.95	179.74	11,660.60	-7,403.36	-883.34	7,451.37	0.00	0.00	0.00	
19,700.00	89.95	179.74	11,660.69	-7,503.36	-882.89	7,550.98	0.00	0.00	0.00	
19,800.00	89.95	179.74	11,660.79	-7,603.36	-882.43	7,650.59	0.00	0.00	0.00	
19,900.00	89.95	179.74	11,660.88	-7,703.36	-881.97	7,750.19	0.00	0.00	0.00	
20,000.00	89.95	179.74	11,660.98	-7,803.36	-881.51	7,849.80	0.00	0.00	0.00	
20,100.00	89.95	179.74	11,661.07	-7,903.36	-881.06	7,949.41	0.00	0.00	0.00	
20,200.00	89.95	179.74	11,661.17	-8,003.36	-880.60	8,049.02	0.00	0.00	0.00	
20,300.00	89.95	179.74	11,661.27	-8,103.36	-880.14	8,148.63	0.00	0.00	0.00	
20,400.00	89.95	179.74	11,661.36	-8,203.36	-879.68	8,248.23	0.00	0.00	0.00	
20,500.00	89.95	179.74	11,661.46	-8,303.35	-879.23	8,347.84	0.00	0.00	0.00	
20,600.00	89.95	179.74	11,661.55	-8,403.35	-878.77	8,447.45	0.00	0.00	0.00	
20,700.00	89.95	179.74	11,661.65	-8,503.35	-878.31	8,547.06	0.00	0.00	0.00	
20,800.00	89.95	179.74	11,661.74	-8,603.35	-877.85	8,646.67	0.00	0.00	0.00	
20,900.00	89.95	179.74	11,661.84	-8,703.35	-877.40	8,746.28	0.00	0.00	0.00	
21,000.00	89.95	179.74	11,661.94	-8,803.35	-876.94	8,845.88	0.00	0.00	0.00	

Oxy

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well PLATINUM MDP1 34-3 FED COM 177H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3453.40ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3453.40ft
Site:	PLATINUM MDP1 34-3 FED COM	North Reference:	Grid
Well:	PLATINUM MDP1 34-3 FED COM 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
21,100.00	89.95	179.74	11,662.03	-8,903.35	-876.48	8,945.49	0.00	0.00	0.00	
21,200.00	89.95	179.74	11,662.13	-9,003.35	-876.03	9,045.10	0.00	0.00	0.00	
21,300.00	89.95	179.74	11,662.22	-9,103.35	-875.57	9,144.71	0.00	0.00	0.00	
21,400.00	89.95	179.74	11,662.32	-9,203.34	-875.11	9,244.32	0.00	0.00	0.00	
21,500.00	89.95	179.74	11,662.41	-9,303.34	-874.65	9,343.92	0.00	0.00	0.00	
21,600.00	89.95	179.74	11,662.51	-9,403.34	-874.20	9,443.53	0.00	0.00	0.00	
21,700.00	89.95	179.74	11,662.61	-9,503.34	-873.74	9,543.14	0.00	0.00	0.00	
21,800.00	89.95	179.74	11,662.70	-9,603.34	-873.28	9,642.75	0.00	0.00	0.00	
21,900.00	89.95	179.74	11,662.80	-9,703.34	-872.82	9,742.36	0.00	0.00	0.00	
22,000.00	89.95	179.74	11,662.89	-9,803.34	-872.37	9,841.96	0.00	0.00	0.00	
22,100.00	89.95	179.74	11,662.99	-9,903.34	-871.91	9,941.57	0.00	0.00	0.00	
22,200.00	89.95	179.74	11,663.08	-10,003.34	-871.45	10,041.18	0.00	0.00	0.00	
22,300.00	89.95	179.74	11,663.18	-10,103.34	-870.99	10,140.79	0.00	0.00	0.00	
22,400.00	89.95	179.74	11,663.28	-10,203.33	-870.54	10,240.40	0.00	0.00	0.00	
22,500.00	89.95	179.74	11,663.37	-10,303.33	-870.08	10,340.00	0.00	0.00	0.00	
22,530.34	89.95	179.74	11,663.40	-10,333.68	-869.94	10,370.23	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (Platinum MDP1 - hit/miss target - Shape - Point)	0.00	0.00	11,653.40	114.76	-917.73	461,657.43	715,795.27	32° 16' 4.475565 N	103° 46' 8.044400	
PBHL (Platinum MDP1 - plan hits target center - Point)	0.00	0.01	11,663.40	-10,333.68	-869.94	451,209.60	715,843.06	32° 14' 21.086190 N	103° 46' 8.127517	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
3,720.00	3,720.00	0.00	0.00	Build 2.00°/100'	
4,220.14	4,217.61	27.67	-33.63	Hold 10.00° Tangent	
10,377.81	10,281.67	707.31	-859.50	Turn 2.00°/100'	
11,282.35	11,179.94	678.46	-920.31	KOP, Build 10.00°/100'	
12,081.80	11,653.40	114.76	-917.73	Landing Point	
22,530.34	11,663.40	-10,333.68	-869.94	TD at 22530.34' MD	

Lowe, Leonard, EMNRD

From: Chapman, Sarah E <Sarah_Chapman@oxy.com>
Sent: Thursday, May 23, 2019 9:08 AM
To: Lowe, Leonard, EMNRD
Subject: [EXT] Platinum MDP1 34-3 Federal Com 177H NSL Submittal
Attachments: PlatinumMDP1-34-3FdCom177H_LLSubmittal.pdf

Good morning Mr. Lowe,

Please find OXY's attached NSL Submittal for the Platinum MDP1 33-4 Federal Com 177H.

Please let me know if you have any questions or need additional information.

Thank you,

Sarah Chapman

Regulatory Specialist | Permian Resources – New Mexico

Office: (713) 350-4997 | 29.097 | Cell: (281) 642-5503

Email: Sarah_Chapman@oxy.com