

U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

<b>Well Name:</b> LLAMA MALL 26-35 FEDERAL COM	<b>Well Location:</b> T22S / R32E / SEC 26 / LOT 4 /	<b>County or Parish/State:</b> /
<b>Well Number:</b> 32H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM086149	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002550310	<b>Well Status:</b> Drilling Well	<b>Operator:</b> OXY USA INCORPORATED

**Notice of Intent**

**Sundry ID:** 2717485

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 02/23/2023

**Time Sundry Submitted:** 12:11

**Date proposed operation will begin:** 05/01/2023

**Procedure Description:** OXY USA INC. respectfully requests approval to amend the subject well AAPD, the BHL is changing from 20 FSL & 1640 FWL to 20 FSL & 1080 FWL. The updated plat is attached, along with the updated Drilling plan, and supporting drilling documents.

**NOI Attachments**

**Procedure Description**

- LlamaMall26\_35FedCom32H\_TNSWedge461\_5.500in\_20.00ppf\_P110CY\_20230223121103.pdf
- LlamaMall26\_35FedCom32H\_StandardSL1TiebackDetails\_20230223121103.pdf
- LlamaMall26\_35FedCom32H\_SpudRigData\_20230223121101.pdf
- LlamaMall26\_35FedCom32H\_OxyWellControlPlan\_20230223121101.pdf
- LlamaMall26\_35FedCom32H\_TNSWedge425\_5.500in\_20.00ppf\_P110CY\_20230223121103.pdf
- LlamaMall26\_35FedCom32H\_TNSWedge441\_5.500in\_20.00ppf\_P110CY\_20230223121103.pdf
- LlamaMall26\_35FedCom32H\_DirectPlot\_20230223121056.pdf
- LlamaMall26\_35FedCom32H\_H2S2\_20230223121057.pdf
- LlamaMall26\_35FedCom32H\_FlexHoseCert\_20230223121057.pdf
- LlamaMall26\_35FedCom32H\_H2SEmerContact\_20230223121057.pdf

Well Name: LLAMA MALL 26-35  
FEDERAL COM

Well Location: T22S / R32E / SEC 26 /  
LOT 4 /

County or Parish/State: /

Well Number: 32H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM086149

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002550310

Well Status: Drilling Well

Operator: OXY USA  
INCORPORATED

LlamaMall26\_35FedCom32H\_DrillPlan\_20230223121057.pdf

LlamaMall26\_35FedCom32H\_H2S1\_20230223121057.pdf

LlamaMall26\_35FedCom32H\_ChkManifolds\_20230223121049.pdf

LlamaMall26\_35FedCom32H\_DirectPlan\_20230223121049.pdf

LlamaMall26\_35FedCom32H\_BOP\_20230223121049.pdf

LlamaMall26\_35FedCom32H\_C102\_Update12.19.22\_20230223121049.pdf

LlamaMall26\_35FedCom32H\_13inADAPT\_10.75in\_7.625in\_10x10\_20230223121049.pdf

LlamaMall26\_35FedCom32H\_CsgCriteria\_20230223121049.pdf

**Conditions of Approval**

**Additional**

Llama\_Mall\_25\_35\_Fed\_Com\_32H\_COA\_20230530132106.pdf

**Operator**

*I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** SARAH MCKINNEY

**Signed on:** FEB 23, 2023 12:11 PM

**Name:** OXY USA INCORPORATED

**Title:** Regulatory Analyst Sr

**Street Address:** 5 GREENWAY PLAZA SUITE 110

**City:** HOUSTON **State:** TX

**Phone:** (713) 215-7295

**Email address:** SARAH\_MCKINNEY@OXY.COM

**Field**

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

Well Name: LLAMA MALL 26-35  
FEDERAL COM

Well Location: T22S / R32E / SEC 26 /  
LOT 4 /

County or Parish/State: /

Well Number: 32H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM086149

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002550310

Well Status: Drilling Well

Operator: OXY USA  
INCORPORATED

**BLM Point of Contact**

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 08/14/2023

Signature: KEITH IMMATTY

CONFIDENTIAL

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

<sup>1</sup> API Number 30-025-50310		<sup>2</sup> Pool Code 98286		<sup>3</sup> Pool Name WC-025 G-08 S223227D, UPPER WOLFCAMP	
<sup>4</sup> Property Code 332823		<sup>5</sup> Property Name LLAMA MALL 26_35 FED COM			<sup>6</sup> Well Number 32H
<sup>7</sup> OGRID No. 16696		<sup>8</sup> Operator Name OXY USA INC.			<sup>9</sup> Elevation 3686'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	22S	32E		700	NORTH	1125	WEST	LEA

<sup>11</sup> 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
M	35	22S	32E		20	SOUTH	1080	WEST	LEA

<sup>12</sup> Dedicated Acres 640.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

**CORNER COORDINATES NAD 83, SPCS NM EAST**  
A - X: 753751.39' / Y: 493740.26'  
B - X: 753788.57' / Y: 488458.40'  
C - X: 751147.37' / Y: 488431.01'  
D - X: 751111.54' / Y: 493713.52'  
E - X: 751074.78' / Y: 498995.88'  
F - X: 753712.06' / Y: 499022.42'

**CORNER COORDINATES NAD 27, SPCS NM EAST**  
A - X: 712568.60' / Y: 493680.10'  
B - X: 712605.64' / Y: 488398.39'  
C - X: 709964.45' / Y: 488371.00'  
D - X: 709928.76' / Y: 493653.36'  
E - X: 709892.14' / Y: 498935.58'  
F - X: 712529.41' / Y: 498962.11'

**SURFACE HOLE LOCATION**  
700' FNL 1125' FWL, SECTION 26  
NAD 83, SPCS NM EAST  
X:752204.58' / Y:498307.25'  
LAT:32.36806664N / LON:103.65035529W  
NAD 27, SPCS NM EAST  
X:711021.91' / Y:498246.88'  
LAT:32.36794354N / LON:103.64986945W

**KICK OFF POINT**  
50' FNL 1080' FWL, SECTION 26  
NAD 83, SPCS NM EAST  
X:752155.08' / Y:498956.75'  
LAT:32.36985298N / LON:103.65050214W  
NAD 27, SPCS NM EAST  
X:710972.44' / Y:498896.45'  
LAT:32.36972988N / LON:103.65001624W

**FIRST TAKE POINT**  
100' FNL 1080' FWL, SECTION 26  
NAD 83, SPCS NM EAST  
X:752155.43' / Y:498906.75'  
LAT:32.36971554N / LON:103.65050205W  
NAD 27, SPCS NM EAST  
X:710972.78' / Y:498846.45'  
LAT:32.36959244N / LON:103.65001615W

**LAST TAKE POINT**  
100' FSL 1080' FWL, SECTION 35  
NAD 83, SPCS NM EAST  
X:752226.64' / Y:488542.21'  
LAT:32.34122576N / LON:103.65048553W  
NAD 27, SPCS NM EAST  
X:711043.72' / Y:488482.20'  
LAT:32.34110255N / LON:103.65000065W

**BOTTOM HOLE LOCATION**  
20' FSL 1080' FWL, SECTION 35  
NAD 83, SPCS NM EAST  
X:752227.18' / Y:488462.21'  
LAT:32.34100586N / LON:103.65048542W  
NAD 27, SPCS NM EAST  
X:711044.26' / Y:488402.20'  
LAT:32.34088265N / LON:103.65000055W

**<sup>17</sup> 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.

*Roni Mathew* 12/19/2022  
Signature Date

Roni Mathew  
Printed Name

roni\_mathew@oxy.com  
E-mail Address

**<sup>18</sup> 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.

NOVEMBER 8, 2022  
Date of Survey

Signature and Seal of Professional Surveyor:  
*Lloyd P. Short*  
LLOYD P. SHORT 21653  
Certificate Number

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977917 Convergence Angle: 0°21'16.050"

# **OXY**

**PRD NM DIRECTIONAL PLANS (NAD 1983)**

**Llama Mall 26\_35 Fed Com**

**Llama Mall 26\_35 Fed Com 32H**

**Wellbore #1**

**Plan: Permitting Plan**

## **Standard Planning Report**

**19 December, 2022**

# OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Llama Mall 26_35 Fed Com 32H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Site:</b>	Llama Mall 26_35 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Llama Mall 26_35 Fed Com 32H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Permitting Plan		

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

<b>Site</b> Llama Mall 26_35 Fed Com			
<b>Site Position:</b>		<b>Northing:</b>	500,005.64 usft
<b>From:</b>	Map	<b>Easting:</b>	754,955.75 usft
<b>Position Uncertainty:</b>	1.00 ft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	32.372687
		<b>Longitude:</b>	-103.641410

<b>Well</b> Llama Mall 26_35 Fed Com 32H						
<b>Well Position</b>	+N/-S	0.00 ft	<b>Northing:</b>	498,307.25 usf	<b>Latitude:</b>	32.368067
	+E/-W	0.00 ft	<b>Easting:</b>	752,204.58 usf	<b>Longitude:</b>	-103.650356
<b>Position Uncertainty</b>		2.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	3,686.00 ft
<b>Grid Convergence:</b>		0.37 °				

<b>Wellbore</b> Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/3/2020	6.52	60.05	47,892.40000000

<b>Design</b> Permitting Plan					
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	179.87	

<b>Plan Survey Tool Program</b>		<b>Date</b> 12/19/2022			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	22,553.47 Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM OWSG MWD + HRGM		

<b>Plan Sections</b>										
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	
5,115.00	0.00	0.00	5,115.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,015.44	9.00	357.06	6,011.74	70.52	-3.63	1.00	1.00	0.00	357.06	
11,374.30	9.00	357.06	11,304.56	908.13	-46.69	0.00	0.00	0.00	0.00	
12,353.84	88.96	179.61	11,966.99	352.62	-47.46	10.00	8.16	-18.12	-177.43	
22,553.84	88.96	179.61	12,152.50	-9,845.45	22.60	0.00	0.00	0.00	0.00	PBHL (Llama Mall)

# OXY

## Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Llama Mall 26_35 Fed Com 32H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Site:</b>	Llama Mall 26_35 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Llama Mall 26_35 Fed Com 32H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,115.00	0.00	0.00	5,115.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.85	357.06	5,200.00	0.63	-0.03	-0.63	1.00	1.00	0.00
5,300.00	1.85	357.06	5,299.97	2.98	-0.15	-2.98	1.00	1.00	0.00

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<b>Site:</b>	Llama Mall 26_35 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Llama Mall 26_35 Fed Com 32H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
5,400.00	2.85	357.06	5,399.88	7.08	-0.36	-7.08	1.00	1.00	0.00	
5,500.00	3.85	357.06	5,499.71	12.91	-0.66	-12.91	1.00	1.00	0.00	
5,600.00	4.85	357.06	5,599.42	20.49	-1.05	-20.49	1.00	1.00	0.00	
5,700.00	5.85	357.06	5,698.98	29.80	-1.53	-29.80	1.00	1.00	0.00	
5,800.00	6.85	357.06	5,798.37	40.84	-2.10	-40.85	1.00	1.00	0.00	
5,900.00	7.85	357.06	5,897.55	53.62	-2.76	-53.63	1.00	1.00	0.00	
6,000.00	8.85	357.06	5,996.49	68.12	-3.50	-68.13	1.00	1.00	0.00	
6,015.44	9.00	357.06	6,011.74	70.52	-3.63	-70.52	1.00	1.00	0.00	
6,100.00	9.00	357.06	6,095.26	83.73	-4.30	-83.74	0.00	0.00	0.00	
6,200.00	9.00	357.06	6,194.02	99.36	-5.11	-99.38	0.00	0.00	0.00	
6,300.00	9.00	357.06	6,292.79	114.99	-5.91	-115.01	0.00	0.00	0.00	
6,400.00	9.00	357.06	6,391.56	130.62	-6.72	-130.64	0.00	0.00	0.00	
6,500.00	9.00	357.06	6,490.33	146.26	-7.52	-146.27	0.00	0.00	0.00	
6,600.00	9.00	357.06	6,589.09	161.89	-8.32	-161.90	0.00	0.00	0.00	
6,700.00	9.00	357.06	6,687.86	177.52	-9.13	-177.54	0.00	0.00	0.00	
6,800.00	9.00	357.06	6,786.63	193.15	-9.93	-193.17	0.00	0.00	0.00	
6,900.00	9.00	357.06	6,885.40	208.78	-10.73	-208.80	0.00	0.00	0.00	
7,000.00	9.00	357.06	6,984.16	224.41	-11.54	-224.43	0.00	0.00	0.00	
7,100.00	9.00	357.06	7,082.93	240.04	-12.34	-240.07	0.00	0.00	0.00	
7,200.00	9.00	357.06	7,181.70	255.67	-13.14	-255.70	0.00	0.00	0.00	
7,300.00	9.00	357.06	7,280.47	271.30	-13.95	-271.33	0.00	0.00	0.00	
7,400.00	9.00	357.06	7,379.24	286.93	-14.75	-286.96	0.00	0.00	0.00	
7,500.00	9.00	357.06	7,478.00	302.56	-15.55	-302.59	0.00	0.00	0.00	
7,600.00	9.00	357.06	7,576.77	318.19	-16.36	-318.23	0.00	0.00	0.00	
7,700.00	9.00	357.06	7,675.54	333.82	-17.16	-333.86	0.00	0.00	0.00	
7,800.00	9.00	357.06	7,774.31	349.45	-17.97	-349.49	0.00	0.00	0.00	
7,900.00	9.00	357.06	7,873.07	365.08	-18.77	-365.12	0.00	0.00	0.00	
8,000.00	9.00	357.06	7,971.84	380.71	-19.57	-380.75	0.00	0.00	0.00	
8,100.00	9.00	357.06	8,070.61	396.34	-20.38	-396.39	0.00	0.00	0.00	
8,200.00	9.00	357.06	8,169.38	411.97	-21.18	-412.02	0.00	0.00	0.00	
8,300.00	9.00	357.06	8,268.14	427.60	-21.98	-427.65	0.00	0.00	0.00	
8,400.00	9.00	357.06	8,366.91	443.23	-22.79	-443.28	0.00	0.00	0.00	
8,500.00	9.00	357.06	8,465.68	458.86	-23.59	-458.92	0.00	0.00	0.00	
8,600.00	9.00	357.06	8,564.45	474.49	-24.39	-474.55	0.00	0.00	0.00	
8,700.00	9.00	357.06	8,663.21	490.12	-25.20	-490.18	0.00	0.00	0.00	
8,800.00	9.00	357.06	8,761.98	505.75	-26.00	-505.81	0.00	0.00	0.00	
8,900.00	9.00	357.06	8,860.75	521.38	-26.80	-521.44	0.00	0.00	0.00	
9,000.00	9.00	357.06	8,959.52	537.02	-27.61	-537.08	0.00	0.00	0.00	
9,100.00	9.00	357.06	9,058.29	552.65	-28.41	-552.71	0.00	0.00	0.00	
9,200.00	9.00	357.06	9,157.05	568.28	-29.22	-568.34	0.00	0.00	0.00	
9,300.00	9.00	357.06	9,255.82	583.91	-30.02	-583.97	0.00	0.00	0.00	
9,400.00	9.00	357.06	9,354.59	599.54	-30.82	-599.61	0.00	0.00	0.00	
9,500.00	9.00	357.06	9,453.36	615.17	-31.63	-615.24	0.00	0.00	0.00	
9,600.00	9.00	357.06	9,552.12	630.80	-32.43	-630.87	0.00	0.00	0.00	
9,700.00	9.00	357.06	9,650.89	646.43	-33.23	-646.50	0.00	0.00	0.00	
9,800.00	9.00	357.06	9,749.66	662.06	-34.04	-662.13	0.00	0.00	0.00	
9,900.00	9.00	357.06	9,848.43	677.69	-34.84	-677.77	0.00	0.00	0.00	
10,000.00	9.00	357.06	9,947.19	693.32	-35.64	-693.40	0.00	0.00	0.00	
10,100.00	9.00	357.06	10,045.96	708.95	-36.45	-709.03	0.00	0.00	0.00	
10,200.00	9.00	357.06	10,144.73	724.58	-37.25	-724.66	0.00	0.00	0.00	
10,300.00	9.00	357.06	10,243.50	740.21	-38.05	-740.30	0.00	0.00	0.00	
10,400.00	9.00	357.06	10,342.26	755.84	-38.86	-755.93	0.00	0.00	0.00	
10,500.00	9.00	357.06	10,441.03	771.47	-39.66	-771.56	0.00	0.00	0.00	
10,600.00	9.00	357.06	10,539.80	787.10	-40.47	-787.19	0.00	0.00	0.00	
10,700.00	9.00	357.06	10,638.57	802.73	-41.27	-802.82	0.00	0.00	0.00	



## OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Llama Mall 26_35 Fed Com 32H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Site:</b>	Llama Mall 26_35 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Llama Mall 26_35 Fed Com 32H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
10,800.00	9.00	357.06	10,737.33	818.36	-42.07	-818.46	0.00	0.00	0.00
10,900.00	9.00	357.06	10,836.10	833.99	-42.88	-834.09	0.00	0.00	0.00
11,000.00	9.00	357.06	10,934.87	849.62	-43.68	-849.72	0.00	0.00	0.00
11,100.00	9.00	357.06	11,033.64	865.25	-44.48	-865.35	0.00	0.00	0.00
11,200.00	9.00	357.06	11,132.41	880.88	-45.29	-880.99	0.00	0.00	0.00
11,300.00	9.00	357.06	11,231.17	896.51	-46.09	-896.62	0.00	0.00	0.00
11,374.30	9.00	357.06	11,304.56	908.13	-46.69	-908.23	0.00	0.00	0.00
11,400.00	6.44	356.03	11,330.02	911.57	-46.89	-911.68	10.00	-9.99	-4.00
11,500.00	3.60	186.02	11,429.86	914.05	-47.61	-914.16	10.00	-2.84	-170.01
11,600.00	13.58	181.27	11,528.62	899.16	-48.20	-899.27	10.00	9.98	-4.75
11,700.00	23.58	180.52	11,623.28	867.34	-48.64	-867.45	10.00	10.00	-0.74
11,800.00	33.58	180.21	11,710.99	819.57	-48.92	-819.68	10.00	10.00	-0.32
11,900.00	43.58	180.02	11,789.07	757.29	-49.04	-757.40	10.00	10.00	-0.18
12,000.00	53.58	179.90	11,855.15	682.41	-48.98	-682.52	10.00	10.00	-0.13
12,100.00	63.58	179.80	11,907.22	597.18	-48.75	-597.29	10.00	10.00	-0.10
12,200.00	73.57	179.72	11,943.70	504.21	-48.35	-504.32	10.00	10.00	-0.08
12,300.00	83.57	179.64	11,963.49	406.32	-47.81	-406.43	10.00	10.00	-0.07
12,353.84	88.96	179.61	11,966.99	352.62	-47.46	-352.73	10.00	10.00	-0.07
12,400.00	88.96	179.61	11,967.83	306.46	-47.14	-306.57	0.00	0.00	0.00
12,500.00	88.96	179.61	11,969.65	206.48	-46.45	-206.59	0.00	0.00	0.00
12,600.00	88.96	179.61	11,971.47	106.50	-45.77	-106.61	0.00	0.00	0.00
12,700.00	88.96	179.61	11,973.29	6.52	-45.08	-6.62	0.00	0.00	0.00
12,800.00	88.96	179.61	11,975.11	-93.46	-44.39	93.36	0.00	0.00	0.00
12,900.00	88.96	179.61	11,976.92	-193.44	-43.70	193.34	0.00	0.00	0.00
13,000.00	88.96	179.61	11,978.74	-293.42	-43.02	293.32	0.00	0.00	0.00
13,100.00	88.96	179.61	11,980.56	-393.40	-42.33	393.31	0.00	0.00	0.00
13,200.00	88.96	179.61	11,982.38	-493.39	-41.64	493.29	0.00	0.00	0.00
13,300.00	88.96	179.61	11,984.20	-593.37	-40.96	593.27	0.00	0.00	0.00
13,400.00	88.96	179.61	11,986.02	-693.35	-40.27	693.25	0.00	0.00	0.00
13,500.00	88.96	179.61	11,987.84	-793.33	-39.58	793.24	0.00	0.00	0.00
13,600.00	88.96	179.61	11,989.66	-893.31	-38.90	893.22	0.00	0.00	0.00
13,700.00	88.96	179.61	11,991.47	-993.29	-38.21	993.20	0.00	0.00	0.00
13,800.00	88.96	179.61	11,993.29	-1,093.27	-37.52	1,093.18	0.00	0.00	0.00
13,900.00	88.96	179.61	11,995.11	-1,193.25	-36.84	1,193.17	0.00	0.00	0.00
14,000.00	88.96	179.61	11,996.93	-1,293.23	-36.15	1,293.15	0.00	0.00	0.00
14,100.00	88.96	179.61	11,998.75	-1,393.22	-35.46	1,393.13	0.00	0.00	0.00
14,200.00	88.96	179.61	12,000.57	-1,493.20	-34.78	1,493.11	0.00	0.00	0.00
14,300.00	88.96	179.61	12,002.39	-1,593.18	-34.09	1,593.10	0.00	0.00	0.00
14,400.00	88.96	179.61	12,004.21	-1,693.16	-33.40	1,693.08	0.00	0.00	0.00
14,500.00	88.96	179.61	12,006.02	-1,793.14	-32.72	1,793.06	0.00	0.00	0.00
14,600.00	88.96	179.61	12,007.84	-1,893.12	-32.03	1,893.04	0.00	0.00	0.00
14,700.00	88.96	179.61	12,009.66	-1,993.10	-31.34	1,993.03	0.00	0.00	0.00
14,800.00	88.96	179.61	12,011.48	-2,093.08	-30.65	2,093.01	0.00	0.00	0.00
14,900.00	88.96	179.61	12,013.30	-2,193.06	-29.97	2,192.99	0.00	0.00	0.00
15,000.00	88.96	179.61	12,015.12	-2,293.05	-29.28	2,292.97	0.00	0.00	0.00
15,100.00	88.96	179.61	12,016.94	-2,393.03	-28.59	2,392.95	0.00	0.00	0.00
15,200.00	88.96	179.61	12,018.76	-2,493.01	-27.91	2,492.94	0.00	0.00	0.00
15,300.00	88.96	179.61	12,020.57	-2,592.99	-27.22	2,592.92	0.00	0.00	0.00
15,400.00	88.96	179.61	12,022.39	-2,692.97	-26.53	2,692.90	0.00	0.00	0.00
15,500.00	88.96	179.61	12,024.21	-2,792.95	-25.85	2,792.88	0.00	0.00	0.00
15,600.00	88.96	179.61	12,026.03	-2,892.93	-25.16	2,892.87	0.00	0.00	0.00
15,700.00	88.96	179.61	12,027.85	-2,992.91	-24.47	2,992.85	0.00	0.00	0.00
15,800.00	88.96	179.61	12,029.67	-3,092.89	-23.79	3,092.83	0.00	0.00	0.00
15,900.00	88.96	179.61	12,031.49	-3,192.88	-23.10	3,192.81	0.00	0.00	0.00
16,000.00	88.96	179.61	12,033.30	-3,292.86	-22.41	3,292.80	0.00	0.00	0.00

## OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Llama Mall 26_35 Fed Com 32H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Site:</b>	Llama Mall 26_35 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Llama Mall 26_35 Fed Com 32H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
16,100.00	88.96	179.61	12,035.12	-3,392.84	-21.73	3,392.78	0.00	0.00	0.00
16,200.00	88.96	179.61	12,036.94	-3,492.82	-21.04	3,492.76	0.00	0.00	0.00
16,300.00	88.96	179.61	12,038.76	-3,592.80	-20.35	3,592.74	0.00	0.00	0.00
16,400.00	88.96	179.61	12,040.58	-3,692.78	-19.67	3,692.73	0.00	0.00	0.00
16,500.00	88.96	179.61	12,042.40	-3,792.76	-18.98	3,792.71	0.00	0.00	0.00
16,600.00	88.96	179.61	12,044.22	-3,892.74	-18.29	3,892.69	0.00	0.00	0.00
16,700.00	88.96	179.61	12,046.04	-3,992.72	-17.61	3,992.67	0.00	0.00	0.00
16,800.00	88.96	179.61	12,047.85	-4,092.71	-16.92	4,092.66	0.00	0.00	0.00
16,900.00	88.96	179.61	12,049.67	-4,192.69	-16.23	4,192.64	0.00	0.00	0.00
17,000.00	88.96	179.61	12,051.49	-4,292.67	-15.54	4,292.62	0.00	0.00	0.00
17,100.00	88.96	179.61	12,053.31	-4,392.65	-14.86	4,392.60	0.00	0.00	0.00
17,200.00	88.96	179.61	12,055.13	-4,492.63	-14.17	4,492.59	0.00	0.00	0.00
17,300.00	88.96	179.61	12,056.95	-4,592.61	-13.48	4,592.57	0.00	0.00	0.00
17,400.00	88.96	179.61	12,058.77	-4,692.59	-12.80	4,692.55	0.00	0.00	0.00
17,500.00	88.96	179.61	12,060.59	-4,792.57	-12.11	4,792.53	0.00	0.00	0.00
17,600.00	88.96	179.61	12,062.40	-4,892.55	-11.42	4,892.52	0.00	0.00	0.00
17,700.00	88.96	179.61	12,064.22	-4,992.54	-10.74	4,992.50	0.00	0.00	0.00
17,800.00	88.96	179.61	12,066.04	-5,092.52	-10.05	5,092.48	0.00	0.00	0.00
17,900.00	88.96	179.61	12,067.86	-5,192.50	-9.36	5,192.46	0.00	0.00	0.00
18,000.00	88.96	179.61	12,069.68	-5,292.48	-8.68	5,292.44	0.00	0.00	0.00
18,100.00	88.96	179.61	12,071.50	-5,392.46	-7.99	5,392.43	0.00	0.00	0.00
18,200.00	88.96	179.61	12,073.32	-5,492.44	-7.30	5,492.41	0.00	0.00	0.00
18,300.00	88.96	179.61	12,075.14	-5,592.42	-6.62	5,592.39	0.00	0.00	0.00
18,400.00	88.96	179.61	12,076.95	-5,692.40	-5.93	5,692.37	0.00	0.00	0.00
18,500.00	88.96	179.61	12,078.77	-5,792.38	-5.24	5,792.36	0.00	0.00	0.00
18,600.00	88.96	179.61	12,080.59	-5,892.37	-4.56	5,892.34	0.00	0.00	0.00
18,700.00	88.96	179.61	12,082.41	-5,992.35	-3.87	5,992.32	0.00	0.00	0.00
18,800.00	88.96	179.61	12,084.23	-6,092.33	-3.18	6,092.30	0.00	0.00	0.00
18,900.00	88.96	179.61	12,086.05	-6,192.31	-2.49	6,192.29	0.00	0.00	0.00
19,000.00	88.96	179.61	12,087.87	-6,292.29	-1.81	6,292.27	0.00	0.00	0.00
19,100.00	88.96	179.61	12,089.68	-6,392.27	-1.12	6,392.25	0.00	0.00	0.00
19,200.00	88.96	179.61	12,091.50	-6,492.25	-0.43	6,492.23	0.00	0.00	0.00
19,300.00	88.96	179.61	12,093.32	-6,592.23	0.25	6,592.22	0.00	0.00	0.00
19,400.00	88.96	179.61	12,095.14	-6,692.21	0.94	6,692.20	0.00	0.00	0.00
19,500.00	88.96	179.61	12,096.96	-6,792.20	1.63	6,792.18	0.00	0.00	0.00
19,600.00	88.96	179.61	12,098.78	-6,892.18	2.31	6,892.16	0.00	0.00	0.00
19,700.00	88.96	179.61	12,100.60	-6,992.16	3.00	6,992.15	0.00	0.00	0.00
19,800.00	88.96	179.61	12,102.42	-7,092.14	3.69	7,092.13	0.00	0.00	0.00
19,900.00	88.96	179.61	12,104.23	-7,192.12	4.37	7,192.11	0.00	0.00	0.00
20,000.00	88.96	179.61	12,106.05	-7,292.10	5.06	7,292.09	0.00	0.00	0.00
20,100.00	88.96	179.61	12,107.87	-7,392.08	5.75	7,392.08	0.00	0.00	0.00
20,200.00	88.96	179.61	12,109.69	-7,492.06	6.43	7,492.06	0.00	0.00	0.00
20,300.00	88.96	179.61	12,111.51	-7,592.04	7.12	7,592.04	0.00	0.00	0.00
20,400.00	88.96	179.61	12,113.33	-7,692.03	7.81	7,692.02	0.00	0.00	0.00
20,500.00	88.96	179.61	12,115.15	-7,792.01	8.49	7,792.01	0.00	0.00	0.00
20,600.00	88.96	179.61	12,116.97	-7,891.99	9.18	7,891.99	0.00	0.00	0.00
20,700.00	88.96	179.61	12,118.78	-7,991.97	9.87	7,991.97	0.00	0.00	0.00
20,800.00	88.96	179.61	12,120.60	-8,091.95	10.56	8,091.95	0.00	0.00	0.00
20,900.00	88.96	179.61	12,122.42	-8,191.93	11.24	8,191.93	0.00	0.00	0.00
21,000.00	88.96	179.61	12,124.24	-8,291.91	11.93	8,291.92	0.00	0.00	0.00
21,100.00	88.96	179.61	12,126.06	-8,391.89	12.62	8,391.90	0.00	0.00	0.00
21,200.00	88.96	179.61	12,127.88	-8,491.87	13.30	8,491.88	0.00	0.00	0.00
21,300.00	88.96	179.61	12,129.70	-8,591.86	13.99	8,591.86	0.00	0.00	0.00
21,400.00	88.96	179.61	12,131.52	-8,691.84	14.68	8,691.85	0.00	0.00	0.00
21,500.00	88.96	179.61	12,133.33	-8,791.82	15.36	8,791.83	0.00	0.00	0.00

# OXY Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Llama Mall 26_35 Fed Com 32H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Site:</b>	Llama Mall 26_35 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Llama Mall 26_35 Fed Com 32H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
21,600.00	88.96	179.61	12,135.15	-8,891.80	16.05	8,891.81	0.00	0.00	0.00	
21,700.00	88.96	179.61	12,136.97	-8,991.78	16.74	8,991.79	0.00	0.00	0.00	
21,800.00	88.96	179.61	12,138.79	-9,091.76	17.42	9,091.78	0.00	0.00	0.00	
21,900.00	88.96	179.61	12,140.61	-9,191.74	18.11	9,191.76	0.00	0.00	0.00	
22,000.00	88.96	179.61	12,142.43	-9,291.72	18.80	9,291.74	0.00	0.00	0.00	
22,100.00	88.96	179.61	12,144.25	-9,391.70	19.48	9,391.72	0.00	0.00	0.00	
22,200.00	88.96	179.61	12,146.07	-9,491.68	20.17	9,491.71	0.00	0.00	0.00	
22,300.00	88.96	179.61	12,147.88	-9,591.67	20.86	9,591.69	0.00	0.00	0.00	
22,400.00	88.96	179.61	12,149.70	-9,691.65	21.54	9,691.67	0.00	0.00	0.00	
22,500.00	88.96	179.61	12,151.52	-9,791.63	22.23	9,791.65	0.00	0.00	0.00	
22,553.84	88.96	179.61	12,152.50	-9,845.45	22.60	9,845.48	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 (Llama Mall) - hit/miss target - Shape - Point	0.00	0.00	11,962.50	599.53	-49.15	498,906.75	752,155.43	32.369716	-103.650502	- plan misses target center by 51.03ft at 12118.03ft MD (11914.99 TVD, 580.91 N, -48.69 E)
PBHL (Llama Mall) - plan hits target center - Point	0.00	0.00	12,152.50	-9,845.45	22.60	488,462.21	752,227.18	32.341006	-103.650486	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
916.50	916.50	RUSTLER				
1,483.50	1,483.50	SALADO				
3,436.50	3,436.50	CASTILE				
4,773.50	4,773.50	DELAWARE				
4,833.50	4,833.50	BELL CANYON				
5,674.39	5,673.50	CHERRY CANYON				
6,980.09	6,964.50	BRUSHY CANYON				
8,627.39	8,591.50	BONE SPRING				
9,755.29	9,705.50	BONE SPRING 1ST				
10,452.89	10,394.50	BONE SPRING 2ND				
11,569.20	11,498.50	BONE SPRING 3RD				
12,026.71	11,870.50	WOLFCAMP				

**OXY**  
Planning Report

<b>Database:</b>	HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Llama Mall 26_35 Fed Com 32H
<b>Company:</b>	ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Project:</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=26.5' @ 3712.50ft
<b>Site:</b>	Llama Mall 26_35 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Llama Mall 26_35 Fed Com 32H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Permitting Plan		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,115.00	5,115.00	0.00	0.00	Build 1°/100'
6,015.00	6,011.30	70.45	-3.62	Hold 9° Tangent
11,374.30	11,304.56	908.13	-46.69	KOP, Build & Turn 10°/100'
12,353.84	11,966.99	352.61	-47.46	Landing Point
22,553.84	12,152.50	-9,845.45	22.60	TD at 22553.84' MD



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)  
 Site: Llama Mall 26\_35 Fed Com  
 Well: Llama Mall 26\_35 Fed Com 32H  
 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

WELL DETAILS: Llama Mall 26\_35 Fed Com 32H

			3686.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	498307.25	752204.58	32.368067	-103.650355

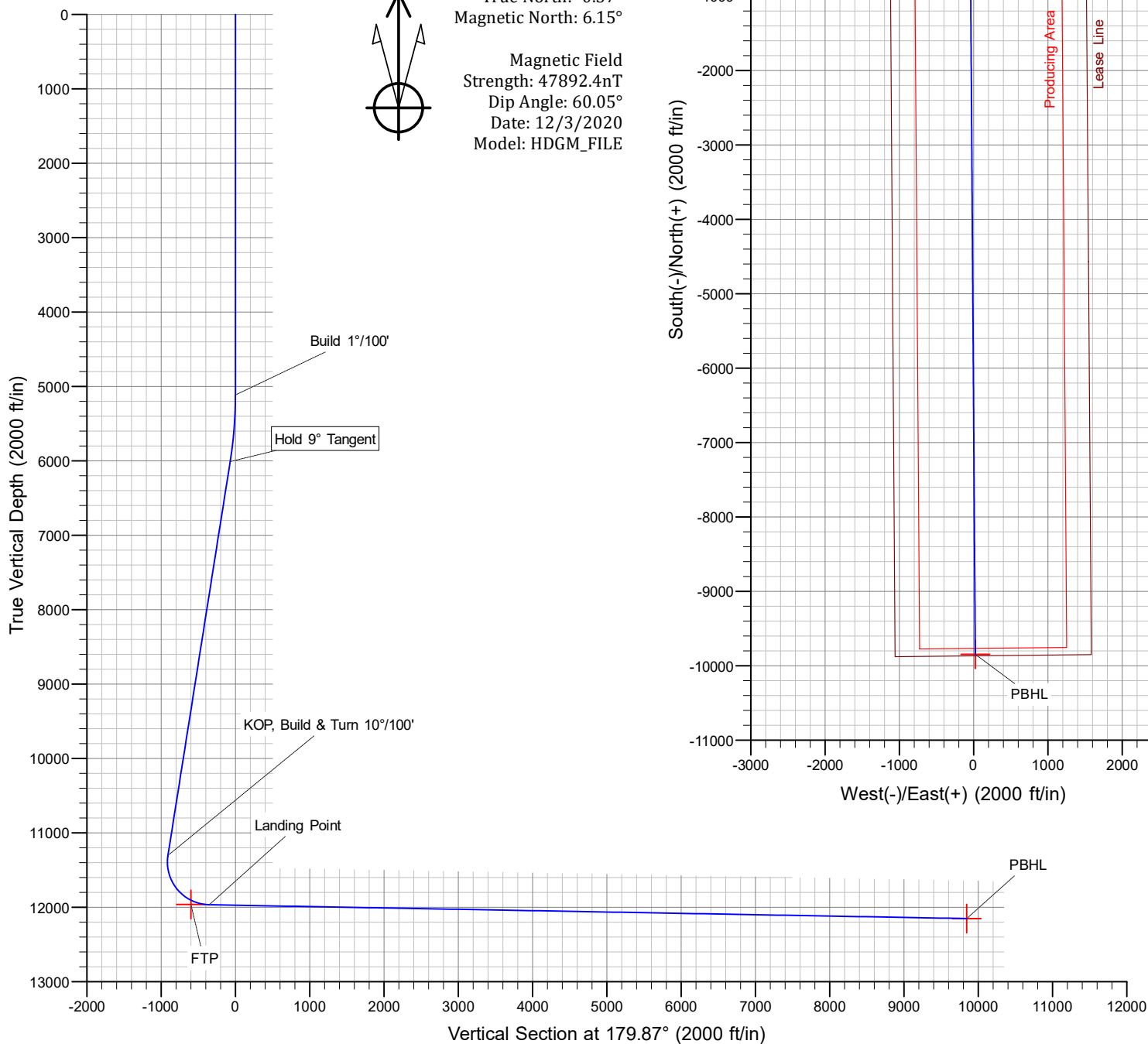
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5115.00	0.00	0.00	5115.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
6015.44	9.00	357.06	6011.74	70.52	-3.63	1.00	357.06	-70.52	Hold 9° Tangent
11374.30	9.00	357.06	11304.56	908.13	-46.69	0.00	0.00	-908.23	KOP, Build & Turn 10°/100'
12353.84	88.96	179.61	11966.99	352.62	-47.46	10.00	-177.43	-352.73	Landing Point
22553.84	88.96	179.61	12152.50	-9845.45	22.60	0.00	0.00	9845.48	TD at 22553.84' MD



Azimuths to Grid North  
 True North: -0.37°  
 Magnetic North: 6.15°

Magnetic Field  
 Strength: 47892.4nT  
 Dip Angle: 60.05°  
 Date: 12/3/2020  
 Model: HDGM\_FILE



# Oxy USA Inc. - Llama Mall 26\_35 Fed Com 32H

## Drill Plan

### 1. Geologic Formations

TVD of Target (ft):	12153	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22554	Deepest Expected Fresh Water (ft):	917

### Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	917	917	
Salado	1484	1484	Salt
Castile	3437	3437	Salt
Delaware	4774	4774	Oil/Gas/Brine
Bell Canyon	4834	4834	Oil/Gas/Brine
Cherry Canyon	5674	5674	Oil/Gas/Brine
Brushy Canyon	6980	6965	Losses
Bone Spring	8627	8592	Oil/Gas
Bone Spring 1st	9755	9706	Oil/Gas
Bone Spring 2nd	10453	10395	Oil/Gas
Bone Spring 3rd	11569	11499	Oil/Gas
Wolfcamp	12027	11871	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

### 2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg. Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	14.75	0	977	0	977	10.75	45.5	J-55	BTC
Intermediate	9.875	0	11274	0	11205	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22554	0	12153	5.5	20	P-110	Wedge 461

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

\*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

<i>All Casing SF Values will meet or exceed those below</i>			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.125	1.2	1.4	1.4

### Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
<b>Capitan Reef</b>	
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
<b>SOPA</b>	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
<b>R-111-P</b>	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
<b>High Cave/Karst</b>	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
<b>Critical Cave/Karst</b>	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

### 3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft <sup>3</sup> /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	817	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	553	1.65	13.2	5%	7,230	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1115	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	890	1.38	13.2	25%	10,774	Circulate	Class H+Ret., Disper., Salt



## Offline Cementing

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).

Land casing.

Fill pipe with kill weight fluid, and confirm well is static.

If well Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
2. Land casing.
3. Fill pipe with kill weight fluid, and confirm well is static.
  - a. If well is not static notify BLM and kill well.
  - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nipping up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
  - a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

### Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

### 4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	11205
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	12153
		10M	Blind Ram	✓	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			

\*Specify if additional ram is utilized

Per BLM’s Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

	Formation integrity test will be performed per Onshore Order #2.
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
	<p>A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.</p> <p>See attached schematics.</p>

**BOP Break Testing Request**

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

- 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

**Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.**

### 5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	977	0	977	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	977	11274	977	11205	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11274	22554	11205	12153	Water-Based or Oil-Based Mud	9.5 - 12.5	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
---	--------------------------------

### 6. Logging and Testing Procedures

Logging, Coring and Testing.	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Additional logs planned	Interval
No	Resistivity
No	Density
Yes	CBL Production string
Yes	Mud log Bone Spring – TD
No	PEX

### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7900 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	178°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

### 8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

**Total Estimated Cuttings Volume:** 1682 bbls

Attachments

- Directional Plan
- H2S Contingency Plan
- Flex III Attachments
- Spudder Rig Attachment
- Premium Connection Specs

### 9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Derek Adam	Drilling Engineer Supervisor	713-366-5170	916-802-8873
Casey Martin	Drilling Superintendent	713-497-2530	337-764-4278
Kevin Threadgill	Drilling Manager	713-366-5958	361-815-0788

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 252029

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 252029
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
pkautz	None	8/31/2023