

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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 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 30-01547531 47534	Pool Code 98220	Pool Name PURPLE SAGE WOLFCAMP
Property Code 320631	Property Name CORRAL CANYON 36_25 FEDERAL COM	Well Number 331H
OGRID No. 16696	Operator Name OXY USA, INC.	Elevation 3117.6'

Surface Location

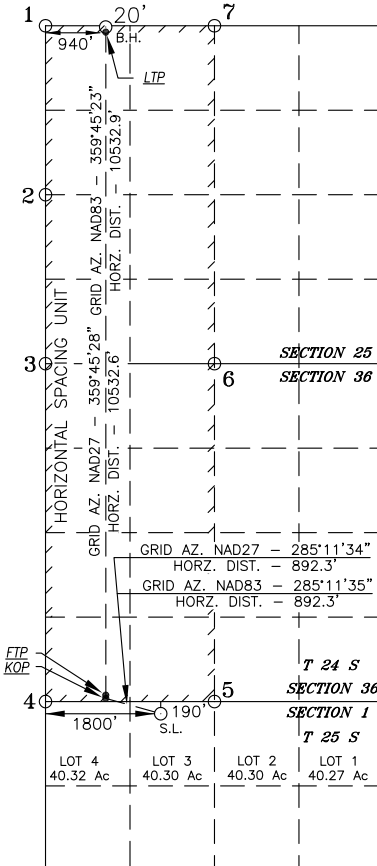
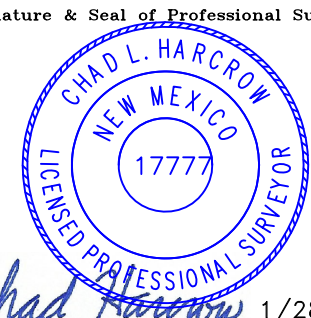
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	1	25-S	29-E		190	NORTH	1800	WEST	EDDY

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
D	25	24-S	29-E		20	NORTH	940	WEST	EDDY

Dedicated Acres 640	Joint or Infill Y	Consolidation Code	Order No.
-------------------------------	-----------------------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<u>PROPOSED BOTTOM HOLE LOCATION NAD83</u> Y=435124.1 N X=661898.2 E LAT.=32.195633° N LONG.=103.943584° W <u>LTP NAD83</u> 100' FNL & 940' FWL Y=435044.1 N X=661898.6 E LAT.=32.195413° N LONG.=103.943584° W POINT LEGEND NAD83 <table><tr><td>1</td><td>Y=435145.6 N X=660958.3 E</td></tr><tr><td>2</td><td>Y=432494.9 N X=660952.7 E</td></tr><tr><td>3</td><td>Y=429843.1 N X=660947.8 E</td></tr><tr><td>4</td><td>Y=424534.6 N X=661003.6 E</td></tr><tr><td>5</td><td>Y=424553.6 N X=663654.8 E</td></tr><tr><td>6</td><td>Y=429846.2 N X=663620.3 E</td></tr><tr><td>7</td><td>Y=435141.4 N X=663609.4 E</td></tr></table> <u>FTP NAD83</u> 100' FSL & 940' FWL Y=424641.3 N X=661942.8 E LAT.=32.166817° N LONG.=103.943563° W <u>KOP NAD83</u> 50' FSL & 940' FWL Y=424591.3 N X=661943.0 E LAT.=32.166679° N LONG.=103.943563° W <u>SURFACE LOCATION NAD83</u> Y=424357.5 N X=662804.2 E LAT.=32.166028° N LONG.=103.940783° W	1	Y=435145.6 N X=660958.3 E	2	Y=432494.9 N X=660952.7 E	3	Y=429843.1 N X=660947.8 E	4	Y=424534.6 N X=661003.6 E	5	Y=424553.6 N X=663654.8 E	6	Y=429846.2 N X=663620.3 E	7	Y=435141.4 N X=663609.4 E	 <u>PROPOSED BOTTOM HOLE LOCATION NAD27</u> Y=435065.4 N X=620714.0 E LAT.=32.195510° N LONG.=103.943098° W <u>LTP NAD27</u> 100' FNL & 940' FWL Y=434985.4 N X=620714.4 E LAT.=32.195290° N LONG.=103.943097° W POINT LEGEND NAD27 <table><tr><td>1</td><td>Y=435086.9 N X=619774.1 E</td></tr><tr><td>2</td><td>Y=432436.2 N X=619768.4 E</td></tr><tr><td>3</td><td>Y=429784.5 N X=619763.5 E</td></tr><tr><td>4</td><td>Y=424476.1 N X=619819.1 E</td></tr><tr><td>5</td><td>Y=424495.1 N X=622470.3 E</td></tr><tr><td>6</td><td>Y=429787.6 N X=622435.9 E</td></tr><tr><td>7</td><td>Y=435082.7 N X=622425.2 E</td></tr></table> <u>FTP NAD27</u> 100' FSL & 940' FWL Y=424582.8 N X=620758.3 E LAT.=32.166693° N LONG.=103.943077° W <u>KOP NAD27</u> 50' FSL & 940' FWL Y=424532.8 N X=620758.6 E LAT.=32.166556° N LONG.=103.943077° W <u>SURFACE LOCATION NAD27</u> Y=424299.0 N X=621619.7 E LAT.=32.165904° N LONG.=103.940297° W	1	Y=435086.9 N X=619774.1 E	2	Y=432436.2 N X=619768.4 E	3	Y=429784.5 N X=619763.5 E	4	Y=424476.1 N X=619819.1 E	5	Y=424495.1 N X=622470.3 E	6	Y=429787.6 N X=622435.9 E	7	Y=435082.7 N X=622425.2 E	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stephen Janacek</i> 03/17/2020 Signature Date Stephen Janacek Printed Name Stephen_Janacek@oxy.com E-mail Address 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. JANUARY 23, 2020 Date of Survey Signature & Seal of Professional Surveyor  <i>Chad Harcrow</i> 1/28/20 Certificate No. CHAD HARCROW 17777 W.O. #20-127 DRAWN BY: AH
1	Y=435145.6 N X=660958.3 E																													
2	Y=432494.9 N X=660952.7 E																													
3	Y=429843.1 N X=660947.8 E																													
4	Y=424534.6 N X=661003.6 E																													
5	Y=424553.6 N X=663654.8 E																													
6	Y=429846.2 N X=663620.3 E																													
7	Y=435141.4 N X=663609.4 E																													
1	Y=435086.9 N X=619774.1 E																													
2	Y=432436.2 N X=619768.4 E																													
3	Y=429784.5 N X=619763.5 E																													
4	Y=424476.1 N X=619819.1 E																													
5	Y=424495.1 N X=622470.3 E																													
6	Y=429787.6 N X=622435.9 E																													
7	Y=435082.7 N X=622425.2 E																													

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Corral Canyon 36-25 Fed Com

Corral Canyon 36_25 Federal Com 331H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

11 March, 2020

Oxy Inc.

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Canyon 36_25 Federal Com 331H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3144.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3144.10ft
Site:	Corral Canyon 36-25 Fed Com	North Reference:	Grid
Well:	Corral Canyon 36_25 Federal Com 331H	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	Corral Canyon 36-25 Fed Com		
Site Position:		Northing:	424,164.47 usft
From:	Map	Easting:	662,497.64 usft
Position Uncertainty:	50.00 ft	Slot Radius:	13.200 in
		Latitude:	32° 9' 55.801317 N
		Longitude:	103° 56' 30.391750 W
		Grid Convergence:	0.21 °

Well	Corral Canyon 36_25 Federal Com 331H		
Well Position	+N/-S	193.04 ft	Northing: 424,357.50 usft
	+E/-W	306.58 ft	Easting: 662,804.20 usft
Position Uncertainty		1.00 ft	Wellhead Elevation: 0.00 ft
			Latitude: 32° 9' 57.700476 N
			Longitude: 103° 56' 26.817033 W
			Ground Level: 3,117.60 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	3/11/2020	6.77	59.80	47,801.10000000

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	355.19

Plan Survey Tool Program	Date	3/11/2020		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,370.92	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM
				OWSG MWD + HRGM

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	
4,780.00	0.00	0.00	4,780.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,780.48	10.00	249.38	5,775.40	-30.68	-81.55	1.00	1.00	0.00	249.38	
9,954.13	10.00	249.38	9,885.58	-286.04	-760.18	0.00	0.00	0.00	0.00	
10,887.19	89.84	359.76	10,485.10	283.82	-861.47	10.00	8.56	11.83	110.12	FTP (Corral Canyon
21,370.92	89.84	359.76	10,515.10	10,767.42	-906.07	0.00	0.00	0.00	0.00	PBHL (Corral

Oxy Inc.
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Canyon 36_25 Federal Com 331H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3144.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3144.10ft
Site:	Corral Canyon 36-25 Fed Com	North Reference:	Grid
Well:	Corral Canyon 36_25 Federal Com 331H	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
3,800.00	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
4,780.00	0.00	0.00	4,780.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.20	249.38	4,800.00	-0.01	-0.03	-0.01	1.00	1.00	0.00
4,900.00	1.20	249.38	4,899.99	-0.44	-1.18	-0.34	1.00	1.00	0.00
5,000.00	2.20	249.38	4,999.95	-1.49	-3.95	-1.15	1.00	1.00	0.00
5,100.00	3.20	249.38	5,099.83	-3.15	-8.36	-2.43	1.00	1.00	0.00

Oxy Inc.
Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Corral Canyon 36_25 Federal Com 331H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3144.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3144.10ft
Site:	Corral Canyon 36-25 Fed Com	North Reference:	Grid
Well:	Corral Canyon 36_25 Federal Com 331H	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	4.20	249.38	5,199.62	-5.42	-14.40	-4.19	1.00	1.00	0.00
5,300.00	5.20	249.38	5,299.29	-8.30	-22.07	-6.42	1.00	1.00	0.00
5,400.00	6.20	249.38	5,398.79	-11.80	-31.37	-9.13	1.00	1.00	0.00
5,500.00	7.20	249.38	5,498.11	-15.91	-42.28	-12.31	1.00	1.00	0.00
5,600.00	8.20	249.38	5,597.20	-20.63	-54.83	-15.96	1.00	1.00	0.00
5,700.00	9.20	249.38	5,696.05	-25.96	-68.98	-20.08	1.00	1.00	0.00
5,780.48	10.00	249.38	5,775.40	-30.68	-81.55	-23.74	1.00	1.00	0.00
5,800.00	10.00	249.38	5,794.63	-31.88	-84.72	-24.66	0.00	0.00	0.00
5,900.00	10.00	249.38	5,893.11	-38.00	-100.98	-29.40	0.00	0.00	0.00
6,000.00	10.00	249.38	5,991.59	-44.12	-117.24	-34.13	0.00	0.00	0.00
6,100.00	10.00	249.38	6,090.06	-50.23	-133.50	-38.86	0.00	0.00	0.00
6,200.00	10.00	249.38	6,188.54	-56.35	-149.76	-43.60	0.00	0.00	0.00
6,300.00	10.00	249.38	6,287.02	-62.47	-166.02	-48.33	0.00	0.00	0.00
6,400.00	10.00	249.38	6,385.50	-68.59	-182.28	-53.06	0.00	0.00	0.00
6,500.00	10.00	249.38	6,483.98	-74.71	-198.54	-57.80	0.00	0.00	0.00
6,600.00	10.00	249.38	6,582.46	-80.83	-214.80	-62.53	0.00	0.00	0.00
6,700.00	10.00	249.38	6,680.94	-86.94	-231.06	-67.26	0.00	0.00	0.00
6,800.00	10.00	249.38	6,779.42	-93.06	-247.32	-72.00	0.00	0.00	0.00
6,900.00	10.00	249.38	6,877.90	-99.18	-263.58	-76.73	0.00	0.00	0.00
7,000.00	10.00	249.38	6,976.38	-105.30	-279.84	-81.46	0.00	0.00	0.00
7,100.00	10.00	249.38	7,074.86	-111.42	-296.10	-86.20	0.00	0.00	0.00
7,200.00	10.00	249.38	7,173.34	-117.54	-312.36	-90.93	0.00	0.00	0.00
7,300.00	10.00	249.38	7,271.82	-123.65	-328.62	-95.66	0.00	0.00	0.00
7,400.00	10.00	249.38	7,370.30	-129.77	-344.88	-100.40	0.00	0.00	0.00
7,500.00	10.00	249.38	7,468.78	-135.89	-361.14	-105.13	0.00	0.00	0.00
7,600.00	10.00	249.38	7,567.25	-142.01	-377.40	-109.86	0.00	0.00	0.00
7,700.00	10.00	249.38	7,665.73	-148.13	-393.66	-114.60	0.00	0.00	0.00
7,800.00	10.00	249.38	7,764.21	-154.25	-409.92	-119.33	0.00	0.00	0.00
7,900.00	10.00	249.38	7,862.69	-160.36	-426.18	-124.06	0.00	0.00	0.00
8,000.00	10.00	249.38	7,961.17	-166.48	-442.44	-128.80	0.00	0.00	0.00
8,100.00	10.00	249.38	8,059.65	-172.60	-458.70	-133.53	0.00	0.00	0.00
8,200.00	10.00	249.38	8,158.13	-178.72	-474.96	-138.26	0.00	0.00	0.00
8,300.00	10.00	249.38	8,256.61	-184.84	-491.22	-143.00	0.00	0.00	0.00
8,400.00	10.00	249.38	8,355.09	-190.96	-507.48	-147.73	0.00	0.00	0.00
8,500.00	10.00	249.38	8,453.57	-197.07	-523.74	-152.46	0.00	0.00	0.00
8,600.00	10.00	249.38	8,552.05	-203.19	-540.00	-157.20	0.00	0.00	0.00
8,700.00	10.00	249.38	8,650.53	-209.31	-556.26	-161.93	0.00	0.00	0.00
8,800.00	10.00	249.38	8,749.01	-215.43	-572.52	-166.66	0.00	0.00	0.00
8,900.00	10.00	249.38	8,847.49	-221.55	-588.78	-171.40	0.00	0.00	0.00
9,000.00	10.00	249.38	8,945.97	-227.67	-605.04	-176.13	0.00	0.00	0.00
9,100.00	10.00	249.38	9,044.44	-233.79	-621.30	-180.86	0.00	0.00	0.00
9,200.00	10.00	249.38	9,142.92	-239.90	-637.56	-185.60	0.00	0.00	0.00
9,300.00	10.00	249.38	9,241.40	-246.02	-653.82	-190.33	0.00	0.00	0.00
9,400.00	10.00	249.38	9,339.88	-252.14	-670.08	-195.06	0.00	0.00	0.00
9,500.00	10.00	249.38	9,438.36	-258.26	-686.34	-199.80	0.00	0.00	0.00
9,600.00	10.00	249.38	9,536.84	-264.38	-702.60	-204.53	0.00	0.00	0.00
9,700.00	10.00	249.38	9,635.32	-270.50	-718.86	-209.26	0.00	0.00	0.00
9,800.00	10.00	249.38	9,733.80	-276.61	-735.12	-214.00	0.00	0.00	0.00
9,900.00	10.00	249.38	9,832.28	-282.73	-751.38	-218.73	0.00	0.00	0.00
9,954.13	10.00	249.38	9,885.58	-286.04	-760.18	-221.29	0.00	0.00	0.00
10,000.00	9.45	276.59	9,930.82	-287.02	-767.66	-221.63	10.00	-1.20	59.31
10,100.00	14.51	320.08	10,028.79	-276.44	-783.90	-209.73	10.00	5.06	43.49
10,200.00	23.02	336.88	10,123.46	-248.78	-799.66	-180.85	10.00	8.51	16.80

Oxy Inc.
Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Corral Canyon 36_25 Federal Com 331H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3144.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3144.10ft
Site:	Corral Canyon 36-25 Fed Com	North Reference:	Grid
Well:	Corral Canyon 36_25 Federal Com 331H	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)
10,300.00	32.36	344.66	10,211.93	-204.87	-814.45	-135.85	10.00	9.34	7.78
10,400.00	41.99	349.20	10,291.53	-146.05	-827.83	-76.12	10.00	9.62	4.54
10,500.00	51.73	352.29	10,359.84	-74.12	-839.40	-3.47	10.00	9.74	3.09
10,600.00	61.54	354.64	10,414.78	8.76	-848.80	79.90	10.00	9.81	2.35
10,700.00	71.38	356.59	10,454.67	100.05	-855.74	171.46	10.00	9.84	1.95
10,800.00	81.23	358.32	10,478.32	196.99	-860.02	268.41	10.00	9.86	1.73
10,887.19	89.84	359.76	10,485.10	283.82	-861.47	355.06	10.00	9.86	1.64
10,900.00	89.84	359.76	10,485.14	296.63	-861.52	367.83	0.00	0.00	0.00
11,000.00	89.84	359.76	10,485.42	396.63	-861.95	467.51	0.00	0.00	0.00
11,100.00	89.84	359.76	10,485.71	496.63	-862.37	567.19	0.00	0.00	0.00
11,200.00	89.84	359.76	10,486.00	596.63	-862.80	666.88	0.00	0.00	0.00
11,300.00	89.84	359.76	10,486.28	696.63	-863.22	766.56	0.00	0.00	0.00
11,400.00	89.84	359.76	10,486.57	796.63	-863.65	866.24	0.00	0.00	0.00
11,500.00	89.84	359.76	10,486.85	896.63	-864.07	965.92	0.00	0.00	0.00
11,600.00	89.84	359.76	10,487.14	996.62	-864.50	1,065.60	0.00	0.00	0.00
11,700.00	89.84	359.76	10,487.43	1,096.62	-864.92	1,165.29	0.00	0.00	0.00
11,800.00	89.84	359.76	10,487.71	1,196.62	-865.35	1,264.97	0.00	0.00	0.00
11,900.00	89.84	359.76	10,488.00	1,296.62	-865.77	1,364.65	0.00	0.00	0.00
12,000.00	89.84	359.76	10,488.28	1,396.62	-866.20	1,464.33	0.00	0.00	0.00
12,100.00	89.84	359.76	10,488.57	1,496.62	-866.63	1,564.02	0.00	0.00	0.00
12,200.00	89.84	359.76	10,488.86	1,596.62	-867.05	1,663.70	0.00	0.00	0.00
12,300.00	89.84	359.76	10,489.14	1,696.61	-867.48	1,763.38	0.00	0.00	0.00
12,400.00	89.84	359.76	10,489.43	1,796.61	-867.90	1,863.06	0.00	0.00	0.00
12,500.00	89.84	359.76	10,489.72	1,896.61	-868.33	1,962.74	0.00	0.00	0.00
12,600.00	89.84	359.76	10,490.00	1,996.61	-868.75	2,062.43	0.00	0.00	0.00
12,700.00	89.84	359.76	10,490.29	2,096.61	-869.18	2,162.11	0.00	0.00	0.00
12,800.00	89.84	359.76	10,490.57	2,196.61	-869.60	2,261.79	0.00	0.00	0.00
12,900.00	89.84	359.76	10,490.86	2,296.61	-870.03	2,361.47	0.00	0.00	0.00
13,000.00	89.84	359.76	10,491.15	2,396.61	-870.45	2,461.16	0.00	0.00	0.00
13,100.00	89.84	359.76	10,491.43	2,496.60	-870.88	2,560.84	0.00	0.00	0.00
13,200.00	89.84	359.76	10,491.72	2,596.60	-871.31	2,660.52	0.00	0.00	0.00
13,300.00	89.84	359.76	10,492.00	2,696.60	-871.73	2,760.20	0.00	0.00	0.00
13,400.00	89.84	359.76	10,492.29	2,796.60	-872.16	2,859.88	0.00	0.00	0.00
13,500.00	89.84	359.76	10,492.58	2,896.60	-872.58	2,959.57	0.00	0.00	0.00
13,600.00	89.84	359.76	10,492.86	2,996.60	-873.01	3,059.25	0.00	0.00	0.00
13,700.00	89.84	359.76	10,493.15	3,096.60	-873.43	3,158.93	0.00	0.00	0.00
13,800.00	89.84	359.76	10,493.44	3,196.60	-873.86	3,258.61	0.00	0.00	0.00
13,900.00	89.84	359.76	10,493.72	3,296.59	-874.28	3,358.29	0.00	0.00	0.00
14,000.00	89.84	359.76	10,494.01	3,396.59	-874.71	3,457.98	0.00	0.00	0.00
14,100.00	89.84	359.76	10,494.29	3,496.59	-875.13	3,557.66	0.00	0.00	0.00
14,200.00	89.84	359.76	10,494.58	3,596.59	-875.56	3,657.34	0.00	0.00	0.00
14,300.00	89.84	359.76	10,494.87	3,696.59	-875.99	3,757.02	0.00	0.00	0.00
14,400.00	89.84	359.76	10,495.15	3,796.59	-876.41	3,856.71	0.00	0.00	0.00
14,500.00	89.84	359.76	10,495.44	3,896.59	-876.84	3,956.39	0.00	0.00	0.00
14,600.00	89.84	359.76	10,495.72	3,996.58	-877.26	4,056.07	0.00	0.00	0.00
14,700.00	89.84	359.76	10,496.01	4,096.58	-877.69	4,155.75	0.00	0.00	0.00
14,800.00	89.84	359.76	10,496.30	4,196.58	-878.11	4,255.43	0.00	0.00	0.00
14,900.00	89.84	359.76	10,496.58	4,296.58	-878.54	4,355.12	0.00	0.00	0.00
15,000.00	89.84	359.76	10,496.87	4,396.58	-878.96	4,454.80	0.00	0.00	0.00
15,100.00	89.84	359.76	10,497.16	4,496.58	-879.39	4,554.48	0.00	0.00	0.00
15,200.00	89.84	359.76	10,497.44	4,596.58	-879.81	4,654.16	0.00	0.00	0.00
15,300.00	89.84	359.76	10,497.73	4,696.58	-880.24	4,753.85	0.00	0.00	0.00
15,400.00	89.84	359.76	10,498.01	4,796.57	-880.67	4,853.53	0.00	0.00	0.00

Oxy Inc.

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Canyon 36_25 Federal Com 331H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3144.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3144.10ft
Site:	Corral Canyon 36-25 Fed Com	North Reference:	Grid
Well:	Corral Canyon 36_25 Federal Com 331H	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)
15,500.00	89.84	359.76	10,498.30	4,896.57	-881.09	4,953.21	0.00	0.00	0.00
15,600.00	89.84	359.76	10,498.59	4,996.57	-881.52	5,052.89	0.00	0.00	0.00
15,700.00	89.84	359.76	10,498.87	5,096.57	-881.94	5,152.57	0.00	0.00	0.00
15,800.00	89.84	359.76	10,499.16	5,196.57	-882.37	5,252.26	0.00	0.00	0.00
15,900.00	89.84	359.76	10,499.44	5,296.57	-882.79	5,351.94	0.00	0.00	0.00
16,000.00	89.84	359.76	10,499.73	5,396.57	-883.22	5,451.62	0.00	0.00	0.00
16,100.00	89.84	359.76	10,500.02	5,496.57	-883.64	5,551.30	0.00	0.00	0.00
16,200.00	89.84	359.76	10,500.30	5,596.56	-884.07	5,650.99	0.00	0.00	0.00
16,300.00	89.84	359.76	10,500.59	5,696.56	-884.49	5,750.67	0.00	0.00	0.00
16,400.00	89.84	359.76	10,500.88	5,796.56	-884.92	5,850.35	0.00	0.00	0.00
16,500.00	89.84	359.76	10,501.16	5,896.56	-885.35	5,950.03	0.00	0.00	0.00
16,600.00	89.84	359.76	10,501.45	5,996.56	-885.77	6,049.71	0.00	0.00	0.00
16,700.00	89.84	359.76	10,501.73	6,096.56	-886.20	6,149.40	0.00	0.00	0.00
16,800.00	89.84	359.76	10,502.02	6,196.56	-886.62	6,249.08	0.00	0.00	0.00
16,900.00	89.84	359.76	10,502.31	6,296.55	-887.05	6,348.76	0.00	0.00	0.00
17,000.00	89.84	359.76	10,502.59	6,396.55	-887.47	6,448.44	0.00	0.00	0.00
17,100.00	89.84	359.76	10,502.88	6,496.55	-887.90	6,548.12	0.00	0.00	0.00
17,200.00	89.84	359.76	10,503.16	6,596.55	-888.32	6,647.81	0.00	0.00	0.00
17,300.00	89.84	359.76	10,503.45	6,696.55	-888.75	6,747.49	0.00	0.00	0.00
17,400.00	89.84	359.76	10,503.74	6,796.55	-889.17	6,847.17	0.00	0.00	0.00
17,500.00	89.84	359.76	10,504.02	6,896.55	-889.60	6,946.85	0.00	0.00	0.00
17,600.00	89.84	359.76	10,504.31	6,996.55	-890.03	7,046.54	0.00	0.00	0.00
17,700.00	89.84	359.76	10,504.60	7,096.54	-890.45	7,146.22	0.00	0.00	0.00
17,800.00	89.84	359.76	10,504.88	7,196.54	-890.88	7,245.90	0.00	0.00	0.00
17,900.00	89.84	359.76	10,505.17	7,296.54	-891.30	7,345.58	0.00	0.00	0.00
18,000.00	89.84	359.76	10,505.45	7,396.54	-891.73	7,445.26	0.00	0.00	0.00
18,100.00	89.84	359.76	10,505.74	7,496.54	-892.15	7,544.95	0.00	0.00	0.00
18,200.00	89.84	359.76	10,506.03	7,596.54	-892.58	7,644.63	0.00	0.00	0.00
18,300.00	89.84	359.76	10,506.31	7,696.54	-893.00	7,744.31	0.00	0.00	0.00
18,400.00	89.84	359.76	10,506.60	7,796.53	-893.43	7,843.99	0.00	0.00	0.00
18,500.00	89.84	359.76	10,506.88	7,896.53	-893.85	7,943.68	0.00	0.00	0.00
18,600.00	89.84	359.76	10,507.17	7,996.53	-894.28	8,043.36	0.00	0.00	0.00
18,700.00	89.84	359.76	10,507.46	8,096.53	-894.71	8,143.04	0.00	0.00	0.00
18,800.00	89.84	359.76	10,507.74	8,196.53	-895.13	8,242.72	0.00	0.00	0.00
18,900.00	89.84	359.76	10,508.03	8,296.53	-895.56	8,342.40	0.00	0.00	0.00
19,000.00	89.84	359.76	10,508.32	8,396.53	-895.98	8,442.09	0.00	0.00	0.00
19,100.00	89.84	359.76	10,508.60	8,496.53	-896.41	8,541.77	0.00	0.00	0.00
19,200.00	89.84	359.76	10,508.89	8,596.52	-896.83	8,641.45	0.00	0.00	0.00
19,300.00	89.84	359.76	10,509.17	8,696.52	-897.26	8,741.13	0.00	0.00	0.00
19,400.00	89.84	359.76	10,509.46	8,796.52	-897.68	8,840.82	0.00	0.00	0.00
19,500.00	89.84	359.76	10,509.75	8,896.52	-898.11	8,940.50	0.00	0.00	0.00
19,600.00	89.84	359.76	10,510.03	8,996.52	-898.53	9,040.18	0.00	0.00	0.00
19,700.00	89.84	359.76	10,510.32	9,096.52	-898.96	9,139.86	0.00	0.00	0.00
19,800.00	89.84	359.76	10,510.60	9,196.52	-899.39	9,239.54	0.00	0.00	0.00
19,900.00	89.84	359.76	10,510.89	9,296.52	-899.81	9,339.23	0.00	0.00	0.00
20,000.00	89.84	359.76	10,511.18	9,396.51	-900.24	9,438.91	0.00	0.00	0.00
20,100.00	89.84	359.76	10,511.46	9,496.51	-900.66	9,538.59	0.00	0.00	0.00
20,200.00	89.84	359.76	10,511.75	9,596.51	-901.09	9,638.27	0.00	0.00	0.00
20,300.00	89.84	359.76	10,512.04	9,696.51	-901.51	9,737.95	0.00	0.00	0.00
20,400.00	89.84	359.76	10,512.32	9,796.51	-901.94	9,837.64	0.00	0.00	0.00
20,500.00	89.84	359.76	10,512.61	9,896.51	-902.36	9,937.32	0.00	0.00	0.00
20,600.00	89.84	359.76	10,512.89	9,996.51	-902.79	10,037.00	0.00	0.00	0.00
20,700.00	89.84	359.76	10,513.18	10,096.50	-903.21	10,136.68	0.00	0.00	0.00

Oxy Inc.
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Canyon 36_25 Federal Com 331H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3144.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3144.10ft
Site:	Corral Canyon 36-25 Fed Com	North Reference:	Grid
Well:	Corral Canyon 36_25 Federal Com 331H	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)
20,800.00	89.84	359.76	10,513.47	10,196.50	-903.64	10,236.37	0.00	0.00	0.00
20,900.00	89.84	359.76	10,513.75	10,296.50	-904.07	10,336.05	0.00	0.00	0.00
21,000.00	89.84	359.76	10,514.04	10,396.50	-904.49	10,435.73	0.00	0.00	0.00
21,100.00	89.84	359.76	10,514.32	10,496.50	-904.92	10,535.41	0.00	0.00	0.00
21,200.00	89.84	359.76	10,514.61	10,596.50	-905.34	10,635.09	0.00	0.00	0.00
21,300.00	89.84	359.76	10,514.90	10,696.50	-905.77	10,734.78	0.00	0.00	0.00
21,370.92	89.84	359.76	10,515.10	10,767.42	-906.07	10,805.47	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Corral Canyon - plan hits target center - Point	0.00	0.00	10,485.10	283.82	-861.47	424,641.30	661,942.80	32° 10' 0.539922 N	103° 56' 36.826682
PBHL (Corral Canyon - plan hits target center - Point	0.00	0.00	10,515.10	10,767.42	-906.07	435,124.10	661,898.20	32° 11' 44.278287 N	103° 56' 36.903709

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,780.00	4,780.00	0.00	0.00	Build 1°/100'
5,780.48	5,775.40	-30.68	-81.55	Hold 10° Tangent
9,954.13	9,885.58	-286.04	-760.18	KOP, Build & Turn 10°/100'
10,887.19	10,485.10	283.82	-861.47	Landing Point
21,370.92	10,515.10	10,767.42	-906.07	TD at 21370.92' MD



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
 Site: Corral Canyon 36-25 Fed Com
 Well: Corral Canyon 36_25 Federal Com 331H
 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: Corral Canyon 36_25 Federal Com 331H

+N/-S	+E/-W	Northing	Ground Level: Easting	3117.60	Latitude	Longitude
0.00	0.00	424357.50	662804.20		32° 9' 57.700476 N	103° 56' 26.817033 W

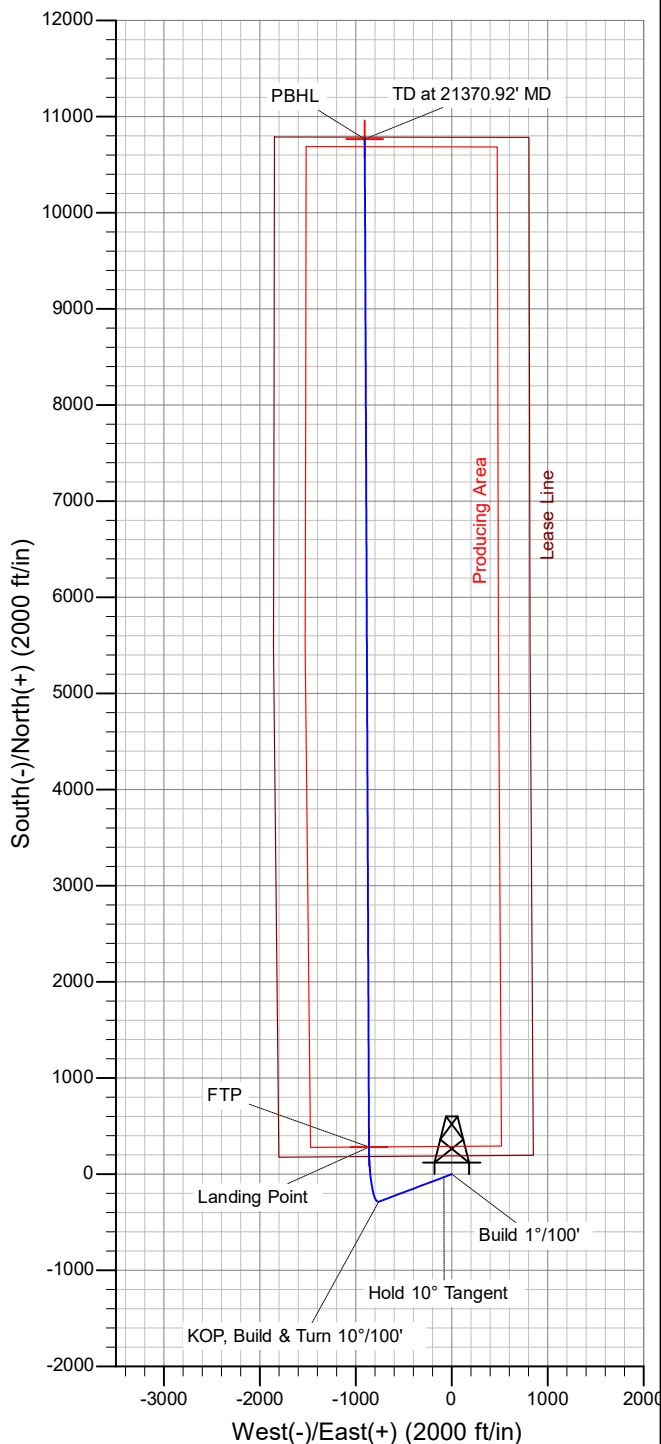
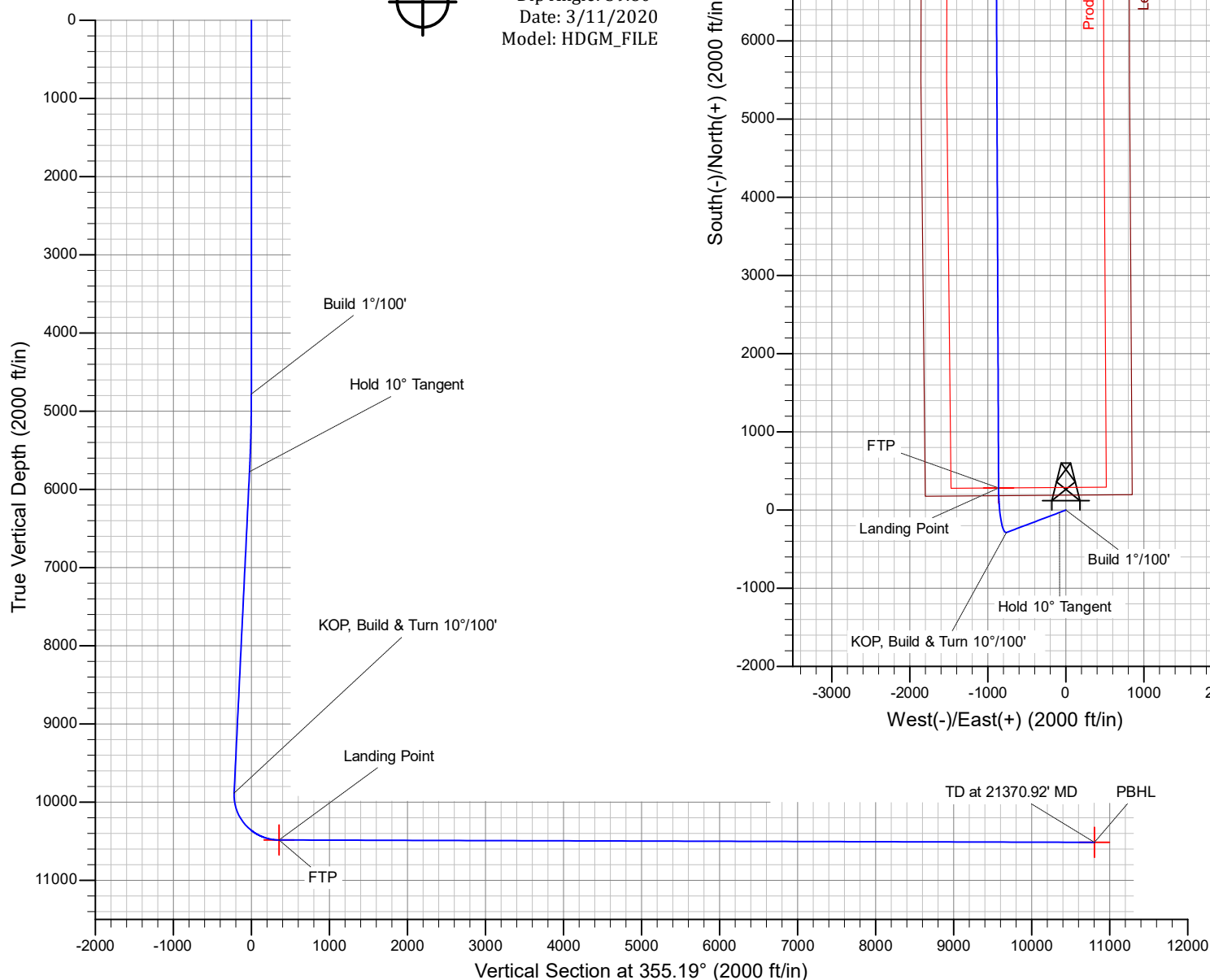
SECTION DETAILS

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	
4780.00	0.00	0.00	4780.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
5780.48	10.00	249.38	5775.40	-30.68	-81.55	1.00	249.38	-23.74	Hold 10° Tangent
9954.13	10.00	249.38	9885.58	-286.04	-760.18	0.00	0.00	-221.29	KOP, Build & Turn 10°/100'
10887.19	89.84	359.76	10485.10	283.82	-861.47	10.00	110.12	355.06	Landing Point
21370.92	89.84	359.76	10515.10	10767.42	-906.07	0.00	0.00	10805.47	TD at 21370.92' MD



Azimuths to Grid North
 True North: -0.21°
 Magnetic North: 6.56°

Magnetic Field
 Strength: 47801.1nT
 Dip Angle: 59.80°
 Date: 3/11/2020
 Model: HDGM_FILE



TD at 21370.92' MD PBHL