

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

CORRAL FLY 02-01 STATE

CORRAL FLY 02-01 STATE 25H

30-015-44512

WB00

Plan: Permitting Plan

Standard Planning Report

27 September, 2017

Oxy

Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 25H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 25H
TVD Reference: Datum @ 3054.10ft
MD Reference: Datum @ 3054.10ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 FLY 02-01 STATE			
Site Position:		Northing:	423,287.19 usft	Latitude:	32° 9' 47.353015 N
From:	Map	Easting:	655,836.97 usft	Longitude:	103° 57' 47.917362 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.20 °

Well	CORRAL FLY 02-01 STATE 25H					
Well Position	+N/-S	-2,828.96 ft	Northing:	420,458.45 usft	Latitude:	32° 9' 19.349680 N
	+E/-W	300.64 ft	Easting:	656,137.59 usft	Longitude:	103° 57' 44.533436 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	3,027.60 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/27/2017	7.03	59.92	48,065

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	88.84

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	
5,570.00	0.00	0.00	5,570.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,070.51	10.01	290.64	6,067.96	15.37	-40.81	2.00	2.00	0.00	290.64	
7,843.61	10.01	290.64	7,814.08	124.03	-329.23	0.00	0.00	0.00	0.00	
8,344.12	0.00	89.65	8,312.04	139.40	-370.04	2.00	-2.00	0.00	180.00	CF_02-01_STATE_
9,234.12	89.00	89.65	8,884.91	142.79	192.91	10.00	10.00	0.00	89.65	
19,053.23	88.97	89.65	9,059.00	201.93	10,010.30	0.00	0.00	0.00	-180.00	CF_02-01_STATE_

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Survey Calculation Method: Minimum Curvature

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
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

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5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,570.00	0.00	0.00	5,570.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.60	290.64	5,600.00	0.06	-0.15	-0.15	2.00	2.00	0.00
5,700.00	2.60	290.64	5,699.96	1.04	-2.76	-2.74	2.00	2.00	0.00
5,800.00	4.60	290.64	5,799.75	3.25	-8.64	-8.57	2.00	2.00	0.00
5,900.00	6.60	290.64	5,899.27	6.69	-17.77	-17.63	2.00	2.00	0.00
6,000.00	8.60	290.64	5,998.39	11.36	-30.14	-29.91	2.00	2.00	0.00
6,070.51	10.01	290.64	6,067.96	15.37	-40.81	-40.49	2.00	2.00	0.00
6,100.00	10.01	290.64	6,097.01	17.18	-45.61	-45.25	0.00	0.00	0.00
6,200.00	10.01	290.64	6,195.49	23.31	-61.87	-61.39	0.00	0.00	0.00
6,300.00	10.01	290.64	6,293.96	29.44	-78.14	-77.53	0.00	0.00	0.00
6,400.00	10.01	290.64	6,392.44	35.56	-94.41	-93.67	0.00	0.00	0.00
6,500.00	10.01	290.64	6,490.92	41.69	-110.67	-109.81	0.00	0.00	0.00
6,600.00	10.01	290.64	6,589.40	47.82	-126.94	-125.95	0.00	0.00	0.00
6,700.00	10.01	290.64	6,687.88	53.95	-143.21	-142.09	0.00	0.00	0.00
6,800.00	10.01	290.64	6,786.35	60.08	-159.47	-158.23	0.00	0.00	0.00
6,900.00	10.01	290.64	6,884.83	66.20	-175.74	-174.37	0.00	0.00	0.00
7,000.00	10.01	290.64	6,983.31	72.33	-192.00	-190.51	0.00	0.00	0.00
7,100.00	10.01	290.64	7,081.79	78.46	-208.27	-206.65	0.00	0.00	0.00
7,200.00	10.01	290.64	7,180.26	84.59	-224.54	-222.79	0.00	0.00	0.00
7,300.00	10.01	290.64	7,278.74	90.72	-240.80	-238.92	0.00	0.00	0.00
7,400.00	10.01	290.64	7,377.22	96.84	-257.07	-255.06	0.00	0.00	0.00
7,500.00	10.01	290.64	7,475.70	102.97	-273.34	-271.20	0.00	0.00	0.00
7,600.00	10.01	290.64	7,574.17	109.10	-289.60	-287.34	0.00	0.00	0.00
7,700.00	10.01	290.64	7,672.65	115.23	-305.87	-303.48	0.00	0.00	0.00
7,800.00	10.01	290.64	7,771.13	121.35	-322.13	-319.62	0.00	0.00	0.00
7,843.61	10.01	290.64	7,814.08	124.03	-329.23	-326.66	0.00	0.00	0.00
7,900.00	8.88	290.64	7,869.70	127.29	-337.89	-335.25	2.00	-2.00	0.00
8,000.00	6.88	290.64	7,968.75	132.12	-350.72	-347.99	2.00	-2.00	0.00
8,100.00	4.88	290.64	8,068.22	135.74	-360.31	-357.50	2.00	-2.00	0.00
8,200.00	2.88	290.64	8,167.98	138.12	-366.65	-363.79	2.00	-2.00	0.00
8,300.00	0.88	290.64	8,267.93	139.28	-369.72	-366.84	2.00	-2.00	0.00
8,344.12	0.00	89.65	8,312.04	139.40	-370.04	-367.15	2.00	-2.00	0.00
8,400.00	5.59	89.65	8,367.84	139.42	-367.32	-364.43	10.00	10.00	0.00
8,500.00	15.59	89.65	8,466.01	139.53	-348.96	-346.08	10.00	10.00	0.00
8,600.00	25.59	89.65	8,559.50	139.74	-313.85	-310.96	10.00	10.00	0.00
8,700.00	35.59	89.65	8,645.48	140.05	-263.02	-260.15	10.00	10.00	0.00
8,800.00	45.59	89.65	8,721.32	140.44	-198.05	-195.17	10.00	10.00	0.00
8,900.00	55.59	89.65	8,784.73	140.90	-120.89	-118.02	10.00	10.00	0.00
9,000.00	65.59	89.65	8,833.78	141.43	-33.89	-31.03	10.00	10.00	0.00
9,100.00	75.59	89.65	8,866.97	141.99	60.31	63.16	10.00	10.00	0.00
9,200.00	85.59	89.65	8,883.30	142.59	158.83	161.68	10.00	10.00	0.00
9,234.12	89.00	89.65	8,884.91	142.79	192.91	195.75	10.00	10.00	0.00
9,300.00	89.00	89.65	8,886.06	143.19	258.78	261.61	0.00	0.00	0.00
9,400.00	89.00	89.65	8,887.81	143.79	358.76	361.59	0.00	0.00	0.00
9,500.00	89.00	89.65	8,889.55	144.39	458.75	461.56	0.00	0.00	0.00
9,600.00	89.00	89.65	8,891.30	145.00	558.73	561.54	0.00	0.00	0.00
9,700.00	89.00	89.65	8,893.05	145.60	658.71	661.51	0.00	0.00	0.00
9,800.00	89.00	89.65	8,894.80	146.20	758.69	761.49	0.00	0.00	0.00
9,900.00	89.00	89.65	8,896.55	146.80	858.68	861.46	0.00	0.00	0.00
10,000.00	89.00	89.65	8,898.30	147.40	958.66	961.44	0.00	0.00	0.00
10,100.00	89.00	89.65	8,900.05	148.01	1,058.64	1,061.41	0.00	0.00	0.00
10,200.00	89.00	89.65	8,901.80	148.61	1,158.63	1,161.39	0.00	0.00	0.00

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10,300.00	89.00	89.65	8,903.55	149.21	1,258.61	1,261.36	0.00	0.00	0.00
10,400.00	89.00	89.65	8,905.30	149.81	1,358.59	1,361.34	0.00	0.00	0.00
10,500.00	89.00	89.65	8,907.05	150.42	1,458.57	1,461.31	0.00	0.00	0.00
10,600.00	89.00	89.65	8,908.80	151.02	1,558.56	1,561.29	0.00	0.00	0.00
10,700.00	89.00	89.65	8,910.56	151.62	1,658.54	1,661.26	0.00	0.00	0.00
10,800.00	88.99	89.65	8,912.31	152.22	1,758.52	1,761.24	0.00	0.00	0.00
10,900.00	88.99	89.65	8,914.06	152.82	1,858.51	1,861.21	0.00	0.00	0.00
11,000.00	88.99	89.65	8,915.82	153.43	1,958.49	1,961.18	0.00	0.00	0.00
11,100.00	88.99	89.65	8,917.58	154.03	2,058.47	2,061.16	0.00	0.00	0.00
11,200.00	88.99	89.65	8,919.33	154.63	2,158.45	2,161.13	0.00	0.00	0.00
11,300.00	88.99	89.65	8,921.09	155.23	2,258.44	2,261.11	0.00	0.00	0.00
11,400.00	88.99	89.65	8,922.84	155.84	2,358.42	2,361.08	0.00	0.00	0.00
11,500.00	88.99	89.65	8,924.60	156.44	2,458.40	2,461.06	0.00	0.00	0.00
11,600.00	88.99	89.65	8,926.36	157.04	2,558.38	2,561.03	0.00	0.00	0.00
11,700.00	88.99	89.65	8,928.12	157.64	2,658.37	2,661.01	0.00	0.00	0.00
11,800.00	88.99	89.65	8,929.88	158.24	2,758.35	2,760.98	0.00	0.00	0.00
11,900.00	88.99	89.65	8,931.64	158.85	2,858.33	2,860.96	0.00	0.00	0.00
12,000.00	88.99	89.65	8,933.40	159.45	2,958.32	2,960.93	0.00	0.00	0.00
12,100.00	88.99	89.65	8,935.16	160.05	3,058.30	3,060.90	0.00	0.00	0.00
12,200.00	88.99	89.65	8,936.92	160.65	3,158.28	3,160.88	0.00	0.00	0.00
12,300.00	88.99	89.65	8,938.68	161.26	3,258.26	3,260.85	0.00	0.00	0.00
12,400.00	88.99	89.65	8,940.45	161.86	3,358.25	3,360.83	0.00	0.00	0.00
12,500.00	88.99	89.65	8,942.21	162.46	3,458.23	3,460.80	0.00	0.00	0.00
12,600.00	88.99	89.65	8,943.98	163.06	3,558.21	3,560.78	0.00	0.00	0.00
12,700.00	88.99	89.65	8,945.74	163.66	3,658.19	3,660.75	0.00	0.00	0.00
12,800.00	88.99	89.65	8,947.50	164.27	3,758.18	3,760.73	0.00	0.00	0.00
12,900.00	88.99	89.65	8,949.27	164.87	3,858.16	3,860.70	0.00	0.00	0.00
13,000.00	88.99	89.65	8,951.04	165.47	3,958.14	3,960.67	0.00	0.00	0.00
13,100.00	88.99	89.65	8,952.80	166.07	4,058.12	4,060.65	0.00	0.00	0.00
13,200.00	88.99	89.65	8,954.57	166.68	4,158.11	4,160.62	0.00	0.00	0.00
13,300.00	88.99	89.65	8,956.34	167.28	4,258.09	4,260.60	0.00	0.00	0.00
13,400.00	88.99	89.65	8,958.11	167.88	4,358.07	4,360.57	0.00	0.00	0.00
13,500.00	88.99	89.65	8,959.88	168.48	4,458.05	4,460.55	0.00	0.00	0.00
13,600.00	88.99	89.65	8,961.65	169.08	4,558.04	4,560.52	0.00	0.00	0.00
13,700.00	88.99	89.65	8,963.42	169.69	4,658.02	4,660.49	0.00	0.00	0.00
13,800.00	88.99	89.65	8,965.19	170.29	4,758.00	4,760.47	0.00	0.00	0.00
13,900.00	88.98	89.65	8,966.96	170.89	4,857.98	4,860.44	0.00	0.00	0.00
14,000.00	88.98	89.65	8,968.73	171.49	4,957.97	4,960.42	0.00	0.00	0.00
14,100.00	88.98	89.65	8,970.50	172.10	5,057.95	5,060.39	0.00	0.00	0.00
14,200.00	88.98	89.65	8,972.28	172.70	5,157.93	5,160.37	0.00	0.00	0.00
14,300.00	88.98	89.65	8,974.05	173.30	5,257.91	5,260.34	0.00	0.00	0.00
14,400.00	88.98	89.65	8,975.82	173.90	5,357.90	5,360.31	0.00	0.00	0.00
14,500.00	88.98	89.65	8,977.60	174.50	5,457.88	5,460.29	0.00	0.00	0.00
14,600.00	88.98	89.65	8,979.37	175.11	5,557.86	5,560.26	0.00	0.00	0.00
14,700.00	88.98	89.65	8,981.15	175.71	5,657.84	5,660.24	0.00	0.00	0.00
14,800.00	88.98	89.65	8,982.92	176.31	5,757.83	5,760.21	0.00	0.00	0.00
14,900.00	88.98	89.65	8,984.70	176.91	5,857.81	5,860.19	0.00	0.00	0.00
15,000.00	88.98	89.65	8,986.48	177.52	5,957.79	5,960.16	0.00	0.00	0.00
15,100.00	88.98	89.65	8,988.26	178.12	6,057.77	6,060.13	0.00	0.00	0.00
15,200.00	88.98	89.65	8,990.04	178.72	6,157.76	6,160.11	0.00	0.00	0.00
15,300.00	88.98	89.65	8,991.82	179.32	6,257.74	6,260.08	0.00	0.00	0.00
15,400.00	88.98	89.65	8,993.59	179.92	6,357.72	6,360.06	0.00	0.00	0.00
15,500.00	88.98	89.65	8,995.38	180.53	6,457.70	6,460.03	0.00	0.00	0.00
15,600.00	88.98	89.65	8,997.16	181.13	6,557.69	6,560.01	0.00	0.00	0.00

Oxy

Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 25H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 25H
TVD Reference: Datum @ 3054.10ft
MD Reference: Datum @ 3054.10ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	88.98	89.65	8,998.94	181.73	6,657.67	6,659.98	0.00	0.00	0.00
15,800.00	88.98	89.65	9,000.72	182.33	6,757.65	6,759.95	0.00	0.00	0.00
15,900.00	88.98	89.65	9,002.50	182.94	6,857.63	6,859.93	0.00	0.00	0.00
16,000.00	88.98	89.65	9,004.29	183.54	6,957.62	6,959.90	0.00	0.00	0.00
16,100.00	88.98	89.65	9,006.07	184.14	7,057.60	7,059.88	0.00	0.00	0.00
16,200.00	88.98	89.65	9,007.85	184.74	7,157.58	7,159.85	0.00	0.00	0.00
16,300.00	88.98	89.65	9,009.64	185.34	7,257.56	7,259.82	0.00	0.00	0.00
16,400.00	88.98	89.65	9,011.42	185.95	7,357.54	7,359.80	0.00	0.00	0.00
16,500.00	88.98	89.65	9,013.21	186.55	7,457.53	7,459.77	0.00	0.00	0.00
16,600.00	88.98	89.65	9,015.00	187.15	7,557.51	7,559.75	0.00	0.00	0.00
16,700.00	88.98	89.65	9,016.78	187.75	7,657.49	7,659.72	0.00	0.00	0.00
16,800.00	88.98	89.65	9,018.57	188.36	7,757.47	7,759.69	0.00	0.00	0.00
16,900.00	88.98	89.65	9,020.36	188.96	7,857.46	7,859.67	0.00	0.00	0.00
17,000.00	88.97	89.65	9,022.15	189.56	7,957.44	7,959.64	0.00	0.00	0.00
17,100.00	88.97	89.65	9,023.94	190.16	8,057.42	8,059.62	0.00	0.00	0.00
17,200.00	88.97	89.65	9,025.73	190.76	8,157.40	8,159.59	0.00	0.00	0.00
17,300.00	88.97	89.65	9,027.52	191.37	8,257.38	8,259.56	0.00	0.00	0.00
17,400.00	88.97	89.65	9,029.31	191.97	8,357.37	8,359.54	0.00	0.00	0.00
17,500.00	88.97	89.65	9,031.10	192.57	8,457.35	8,459.51	0.00	0.00	0.00
17,600.00	88.97	89.65	9,032.89	193.17	8,557.33	8,559.49	0.00	0.00	0.00
17,700.00	88.97	89.65	9,034.68	193.78	8,657.31	8,659.46	0.00	0.00	0.00
17,800.00	88.97	89.65	9,036.48	194.38	8,757.29	8,759.43	0.00	0.00	0.00
17,900.00	88.97	89.65	9,038.27	194.98	8,857.28	8,859.41	0.00	0.00	0.00
18,000.00	88.97	89.65	9,040.07	195.58	8,957.26	8,959.38	0.00	0.00	0.00
18,100.00	88.97	89.65	9,041.86	196.19	9,057.24	9,059.36	0.00	0.00	0.00
18,200.00	88.97	89.65	9,043.66	196.79	9,157.22	9,159.33	0.00	0.00	0.00
18,300.00	88.97	89.65	9,045.45	197.39	9,257.20	9,259.30	0.00	0.00	0.00
18,400.00	88.97	89.65	9,047.25	197.99	9,357.19	9,359.28	0.00	0.00	0.00
18,500.00	88.97	89.65	9,049.05	198.59	9,457.17	9,459.25	0.00	0.00	0.00
18,600.00	88.97	89.65	9,050.84	199.20	9,557.15	9,559.22	0.00	0.00	0.00
18,700.00	88.97	89.65	9,052.64	199.80	9,657.13	9,659.20	0.00	0.00	0.00
18,800.00	88.97	89.65	9,054.44	200.40	9,757.12	9,759.17	0.00	0.00	0.00
18,900.00	88.97	89.65	9,056.24	201.00	9,857.10	9,859.15	0.00	0.00	0.00
19,000.00	88.97	89.65	9,058.04	201.61	9,957.08	9,959.12	0.00	0.00	0.00
19,053.23	88.97	89.65	9,059.00	201.93	10,010.30	10,012.34	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
CF_02-01_STATE_25 - plan hits target center - Point	0.00	0.00	8,312.04	139.40	-370.04	420,597.84	655,767.58	32° 9' 20.741676 N	103° 57' 48.832106
CF_02-01_STATE_25 - plan hits target center - Point	0.00	0.00	9,059.00	201.93	10,010.30	420,660.36	666,147.11	32° 9' 20.991557 N	103° 55' 48.086517

Oxy

Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 25H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 25H
TVD Reference: Datum @ 3054.10ft
MD Reference: Datum @ 3054.10ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,570.00	5,570.00	0.00	0.00	STEP OUT DLS 2.00
6,070.51	6,067.96	15.37	-40.81	HOLD 10 DEG TANGENT
7,843.61	7,814.08	124.03	-329.23	DROP BACK TO VERTICAL DLS 2.00
8,344.12	8,312.04	139.40	-370.04	BUILD CURVE 10 DEG / 100
9,234.12	8,884.91	142.79	192.91	LANDING POINT
19,053.23	9,059.00	201.93	10,010.30	TD at 19053.23