

Oxy Planning Report

30-015-44507

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 21H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 21H
TVD Reference: Datum @ 3023.10ft
MD Reference: Datum @ 3023.10ft
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 21H					
Well Position	+N/-S	0.00 ft	Northing:	423,287.19 usft	Latitude:	32° 9' 47.353015 N
	+E/-W	0.00 ft	Easting:	655,836.97 usft	Longitude:	103° 57' 47.917362 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	2,996.60 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/26/2017	7.03	59.92	48,071

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	85.48

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,465.00	0.00	0.00	3,465.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,965.21	10.00	354.71	3,962.67	43.37	-4.01	2.00	2.00	0.00	354.71	
7,856.07	10.00	354.71	7,794.37	716.42	-66.27	0.00	0.00	0.00	0.00	
8,356.28	0.00	89.70	8,292.04	759.80	-70.29	2.00	-2.00	0.00	180.00	CORRAL_FLY_02-0
9,246.28	89.00	89.70	8,864.91	762.73	492.67	10.00	10.00	0.00	89.70	
19,048.61	89.07	89.70	9,030.00	813.82	10,293.47	0.00	0.00	0.00	0.00	CORRAL_FLY_02-0

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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
3,465.00	0.00	0.00	3,465.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.70	354.71	3,500.00	0.21	-0.02	0.00	2.00	2.00	0.00
3,600.00	2.70	354.71	3,599.95	3.17	-0.29	-0.04	2.00	2.00	0.00
3,700.00	4.70	354.71	3,699.74	9.59	-0.89	-0.13	2.00	2.00	0.00
3,800.00	6.70	354.71	3,799.24	19.48	-1.80	-0.26	2.00	2.00	0.00
3,900.00	8.70	354.71	3,898.33	32.82	-3.04	-0.44	2.00	2.00	0.00
3,965.21	10.00	354.71	3,962.67	43.37	-4.01	-0.58	2.00	2.00	0.00
4,000.00	10.00	354.71	3,996.93	49.39	-4.57	-0.66	0.00	0.00	0.00
4,100.00	10.00	354.71	4,095.41	66.69	-6.17	-0.89	0.00	0.00	0.00
4,200.00	10.00	354.71	4,193.89	83.99	-7.77	-1.13	0.00	0.00	0.00
4,300.00	10.00	354.71	4,292.37	101.29	-9.37	-1.36	0.00	0.00	0.00
4,400.00	10.00	354.71	4,390.85	118.59	-10.97	-1.59	0.00	0.00	0.00
4,500.00	10.00	354.71	4,489.33	135.88	-12.57	-1.82	0.00	0.00	0.00
4,600.00	10.00	354.71	4,587.81	153.18	-14.17	-2.05	0.00	0.00	0.00
4,700.00	10.00	354.71	4,686.29	170.48	-15.77	-2.28	0.00	0.00	0.00
4,800.00	10.00	354.71	4,784.77	187.78	-17.37	-2.52	0.00	0.00	0.00
4,900.00	10.00	354.71	4,883.25	205.08	-18.97	-2.75	0.00	0.00	0.00
5,000.00	10.00	354.71	4,981.73	222.37	-20.57	-2.98	0.00	0.00	0.00
5,100.00	10.00	354.71	5,080.21	239.67	-22.17	-3.21	0.00	0.00	0.00

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5,200.00	10.00	354.71	5,178.69	256.97	-23.77	-3.44	0.00	0.00	0.00
5,300.00	10.00	354.71	5,277.17	274.27	-25.37	-3.68	0.00	0.00	0.00
5,400.00	10.00	354.71	5,375.65	291.57	-26.97	-3.91	0.00	0.00	0.00
5,500.00	10.00	354.71	5,474.13	308.87	-28.57	-4.14	0.00	0.00	0.00
5,600.00	10.00	354.71	5,572.61	326.16	-30.17	-4.37	0.00	0.00	0.00
5,700.00	10.00	354.71	5,671.08	343.46	-31.77	-4.60	0.00	0.00	0.00
5,800.00	10.00	354.71	5,769.56	360.76	-33.37	-4.83	0.00	0.00	0.00
5,900.00	10.00	354.71	5,868.04	378.06	-34.97	-5.07	0.00	0.00	0.00
6,000.00	10.00	354.71	5,966.52	395.36	-36.57	-5.30	0.00	0.00	0.00
6,100.00	10.00	354.71	6,065.00	412.66	-38.17	-5.53	0.00	0.00	0.00
6,200.00	10.00	354.71	6,163.48	429.95	-39.77	-5.76	0.00	0.00	0.00
6,300.00	10.00	354.71	6,261.96	447.25	-41.37	-5.99	0.00	0.00	0.00
6,400.00	10.00	354.71	6,360.44	464.55	-42.97	-6.23	0.00	0.00	0.00
6,500.00	10.00	354.71	6,458.92	481.85	-44.57	-6.46	0.00	0.00	0.00
6,600.00	10.00	354.71	6,557.40	499.15	-46.17	-6.69	0.00	0.00	0.00
6,700.00	10.00	354.71	6,655.88	516.45	-47.77	-6.92	0.00	0.00	0.00
6,800.00	10.00	354.71	6,754.36	533.74	-49.37	-7.15	0.00	0.00	0.00
6,900.00	10.00	354.71	6,852.84	551.04	-50.97	-7.38	0.00	0.00	0.00
7,000.00	10.00	354.71	6,951.32	568.34	-52.57	-7.62	0.00	0.00	0.00
7,100.00	10.00	354.71	7,049.80	585.64	-54.17	-7.85	0.00	0.00	0.00
7,200.00	10.00	354.71	7,148.28	602.94	-55.77	-8.08	0.00	0.00	0.00
7,300.00	10.00	354.71	7,246.76	620.24	-57.38	-8.31	0.00	0.00	0.00
7,400.00	10.00	354.71	7,345.24	637.53	-58.98	-8.54	0.00	0.00	0.00
7,500.00	10.00	354.71	7,443.72	654.83	-60.58	-8.78	0.00	0.00	0.00
7,600.00	10.00	354.71	7,542.19	672.13	-62.18	-9.01	0.00	0.00	0.00
7,700.00	10.00	354.71	7,640.67	689.43	-63.78	-9.24	0.00	0.00	0.00
7,800.00	10.00	354.71	7,739.15	706.73	-65.38	-9.47	0.00	0.00	0.00
7,856.07	10.00	354.71	7,794.37	716.42	-66.27	-9.60	0.00	0.00	0.00
7,900.00	9.13	354.71	7,837.69	723.69	-66.95	-9.70	2.00	-2.00	0.00
8,000.00	7.13	354.71	7,936.68	737.77	-68.25	-9.89	2.00	-2.00	0.00
8,100.00	5.13	354.71	8,036.11	748.39	-69.23	-10.03	2.00	-2.00	0.00
8,200.00	3.13	354.71	8,135.84	755.56	-69.89	-10.13	2.00	-2.00	0.00
8,300.00	1.13	354.71	8,235.77	759.25	-70.23	-10.18	2.00	-2.00	0.00
8,356.28	0.00	89.70	8,292.04	759.80	-70.29	-10.18	2.00	-2.00	0.00
8,400.00	4.37	89.70	8,335.72	759.81	-68.62	-8.52	10.00	10.00	0.00
8,500.00	14.37	89.70	8,434.26	759.89	-52.35	7.70	10.00	10.00	0.00
8,600.00	24.37	89.70	8,528.48	760.07	-19.23	40.74	10.00	10.00	0.00
8,700.00	34.37	89.70	8,615.51	760.32	29.76	89.59	10.00	10.00	0.00
8,800.00	44.37	89.70	8,692.72	760.65	93.11	152.77	10.00	10.00	0.00
8,900.00	54.37	89.70	8,757.75	761.05	168.91	228.37	10.00	10.00	0.00
9,000.00	64.37	89.70	8,808.63	761.49	254.85	314.07	10.00	10.00	0.00
9,100.00	74.37	89.70	8,843.82	761.98	348.32	407.29	10.00	10.00	0.00
9,200.00	84.37	89.70	8,862.24	762.49	446.48	505.18	10.00	10.00	0.00
9,246.28	89.00	89.70	8,864.91	762.73	492.67	551.25	10.00	10.00	0.00
9,300.00	89.00	89.70	8,865.85	763.01	546.38	604.82	0.00	0.00	0.00
9,400.00	89.00	89.70	8,867.59	763.53	646.36	704.53	0.00	0.00	0.00
9,500.00	89.00	89.70	8,869.34	764.06	746.34	804.24	0.00	0.00	0.00
9,600.00	89.00	89.70	8,871.08	764.58	846.33	903.96	0.00	0.00	0.00
9,700.00	89.00	89.70	8,872.82	765.10	946.31	1,003.67	0.00	0.00	0.00
9,800.00	89.00	89.70	8,874.56	765.62	1,046.29	1,103.38	0.00	0.00	0.00
9,900.00	89.00	89.70	8,876.30	766.14	1,146.28	1,203.10	0.00	0.00	0.00
10,000.00	89.01	89.70	8,878.03	766.66	1,246.26	1,302.81	0.00	0.00	0.00
10,100.00	89.01	89.70	8,879.77	767.18	1,346.25	1,402.52	0.00	0.00	0.00
10,200.00	89.01	89.70	8,881.50	767.70	1,446.23	1,502.24	0.00	0.00	0.00

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10,300.00	89.01	89.70	8,883.23	768.23	1,546.21	1,601.95	0.00	0.00	0.00
10,400.00	89.01	89.70	8,884.97	768.75	1,646.20	1,701.67	0.00	0.00	0.00
10,500.00	89.01	89.70	8,886.70	769.27	1,746.18	1,801.38	0.00	0.00	0.00
10,600.00	89.01	89.70	8,888.42	769.79	1,846.16	1,901.09	0.00	0.00	0.00
10,700.00	89.01	89.70	8,890.15	770.31	1,946.15	2,000.81	0.00	0.00	0.00
10,800.00	89.01	89.70	8,891.88	770.83	2,046.13	2,100.52	0.00	0.00	0.00
10,900.00	89.01	89.70	8,893.60	771.35	2,146.12	2,200.23	0.00	0.00	0.00
11,000.00	89.01	89.70	8,895.33	771.87	2,246.10	2,299.95	0.00	0.00	0.00
11,100.00	89.01	89.70	8,897.05	772.40	2,346.08	2,399.66	0.00	0.00	0.00
11,200.00	89.01	89.70	8,898.77	772.92	2,446.07	2,499.38	0.00	0.00	0.00
11,300.00	89.01	89.70	8,900.49	773.44	2,546.05	2,599.09	0.00	0.00	0.00
11,400.00	89.02	89.70	8,902.21	773.96	2,646.03	2,698.80	0.00	0.00	0.00
11,500.00	89.02	89.70	8,903.93	774.48	2,746.02	2,798.52	0.00	0.00	0.00
11,600.00	89.02	89.70	8,905.65	775.00	2,846.00	2,898.23	0.00	0.00	0.00
11,700.00	89.02	89.70	8,907.36	775.52	2,945.99	2,997.95	0.00	0.00	0.00
11,800.00	89.02	89.70	8,909.07	776.04	3,045.97	3,097.66	0.00	0.00	0.00
11,900.00	89.02	89.70	8,910.79	776.56	3,145.95	3,197.37	0.00	0.00	0.00
12,000.00	89.02	89.70	8,912.50	777.09	3,245.94	3,297.09	0.00	0.00	0.00
12,100.00	89.02	89.70	8,914.21	777.61	3,345.92	3,396.80	0.00	0.00	0.00
12,200.00	89.02	89.70	8,915.92	778.13	3,445.91	3,496.52	0.00	0.00	0.00
12,300.00	89.02	89.70	8,917.63	778.65	3,545.89	3,596.23	0.00	0.00	0.00
12,400.00	89.02	89.70	8,919.33	779.17	3,645.87	3,695.94	0.00	0.00	0.00
12,500.00	89.02	89.70	8,921.04	779.69	3,745.86	3,795.66	0.00	0.00	0.00
12,600.00	89.02	89.70	8,922.74	780.21	3,845.84	3,895.37	0.00	0.00	0.00
12,700.00	89.02	89.70	8,924.45	780.73	3,945.83	3,995.09	0.00	0.00	0.00
12,800.00	89.03	89.70	8,926.15	781.26	4,045.81	4,094.80	0.00	0.00	0.00
12,900.00	89.03	89.70	8,927.85	781.78	4,145.79	4,194.51	0.00	0.00	0.00
13,000.00	89.03	89.70	8,929.55	782.30	4,245.78	4,294.23	0.00	0.00	0.00
13,100.00	89.03	89.70	8,931.24	782.82	4,345.76	4,393.94	0.00	0.00	0.00
13,200.00	89.03	89.70	8,932.94	783.34	4,445.75	4,493.66	0.00	0.00	0.00
13,300.00	89.03	89.70	8,934.64	783.86	4,545.73	4,593.37	0.00	0.00	0.00
13,400.00	89.03	89.70	8,936.33	784.38	4,645.72	4,693.09	0.00	0.00	0.00
13,500.00	89.03	89.70	8,938.02	784.90	4,745.70	4,792.80	0.00	0.00	0.00
13,600.00	89.03	89.70	8,939.71	785.43	4,845.68	4,892.51	0.00	0.00	0.00
13,700.00	89.03	89.70	8,941.40	785.95	4,945.67	4,992.23	0.00	0.00	0.00
13,800.00	89.03	89.70	8,943.09	786.47	5,045.65	5,091.94	0.00	0.00	0.00
13,900.00	89.03	89.70	8,944.78	786.99	5,145.64	5,191.66	0.00	0.00	0.00
14,000.00	89.03	89.70	8,946.47	787.51	5,245.62	5,291.37	0.00	0.00	0.00
14,100.00	89.03	89.70	8,948.15	788.03	5,345.61	5,391.09	0.00	0.00	0.00
14,200.00	89.04	89.70	8,949.84	788.55	5,445.59	5,490.80	0.00	0.00	0.00
14,300.00	89.04	89.70	8,951.52	789.07	5,545.58	5,590.52	0.00	0.00	0.00
14,400.00	89.04	89.70	8,953.20	789.59	5,645.56	5,690.23	0.00	0.00	0.00
14,500.00	89.04	89.70	8,954.88	790.12	5,745.54	5,789.95	0.00	0.00	0.00
14,600.00	89.04	89.70	8,956.56	790.64	5,845.53	5,889.66	0.00	0.00	0.00
14,700.00	89.04	89.70	8,958.24	791.16	5,945.51	5,989.37	0.00	0.00	0.00
14,800.00	89.04	89.70	8,959.92	791.68	6,045.50	6,089.09	0.00	0.00	0.00
14,900.00	89.04	89.70	8,961.59	792.20	6,145.48	6,188.80	0.00	0.00	0.00
15,000.00	89.04	89.70	8,963.27	792.72	6,245.47	6,288.52	0.00	0.00	0.00
15,100.00	89.04	89.70	8,964.94	793.24	6,345.45	6,388.23	0.00	0.00	0.00
15,200.00	89.04	89.70	8,966.61	793.76	6,445.44	6,487.95	0.00	0.00	0.00
15,300.00	89.04	89.70	8,968.28	794.29	6,545.42	6,587.66	0.00	0.00	0.00
15,400.00	89.04	89.70	8,969.95	794.81	6,645.41	6,687.38	0.00	0.00	0.00
15,500.00	89.04	89.70	8,971.62	795.33	6,745.39	6,787.09	0.00	0.00	0.00
15,600.00	89.05	89.70	8,973.29	795.85	6,845.38	6,886.81	0.00	0.00	0.00

Oxy

Planning Report

Database: HOPSP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 21H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 21H
TVD Reference: Datum @ 3023.10ft
MD Reference: Datum @ 3023.10ft
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	89.05	89.70	8,974.95	796.37	6,945.36	6,986.52	0.00	0.00	0.00
15,800.00	89.05	89.70	8,976.61	796.89	7,045.35	7,086.24	0.00	0.00	0.00
15,900.00	89.05	89.70	8,978.28	797.41	7,145.33	7,185.95	0.00	0.00	0.00
16,000.00	89.05	89.70	8,979.94	797.93	7,245.32	7,285.67	0.00	0.00	0.00
16,100.00	89.05	89.70	8,981.60	798.46	7,345.30	7,385.38	0.00	0.00	0.00
16,200.00	89.05	89.70	8,983.26	798.98	7,445.28	7,485.10	0.00	0.00	0.00
16,300.00	89.05	89.70	8,984.92	799.50	7,545.27	7,584.81	0.00	0.00	0.00
16,400.00	89.05	89.70	8,986.57	800.02	7,645.25	7,684.53	0.00	0.00	0.00
16,500.00	89.05	89.70	8,988.23	800.54	7,745.24	7,784.24	0.00	0.00	0.00
16,600.00	89.05	89.70	8,989.88	801.06	7,845.22	7,883.96	0.00	0.00	0.00
16,700.00	89.05	89.70	8,991.54	801.58	7,945.21	7,983.67	0.00	0.00	0.00
16,800.00	89.05	89.70	8,993.19	802.10	8,045.19	8,083.39	0.00	0.00	0.00
16,900.00	89.05	89.70	8,994.84	802.62	8,145.18	8,183.10	0.00	0.00	0.00
17,000.00	89.06	89.70	8,996.49	803.15	8,245.16	8,282.82	0.00	0.00	0.00
17,100.00	89.06	89.70	8,998.14	803.67	8,345.15	8,382.53	0.00	0.00	0.00
17,200.00	89.06	89.70	8,999.78	804.19	8,445.13	8,482.25	0.00	0.00	0.00
17,300.00	89.06	89.70	9,001.43	804.71	8,545.12	8,581.96	0.00	0.00	0.00
17,400.00	89.06	89.70	9,003.07	805.23	8,645.10	8,681.68	0.00	0.00	0.00
17,500.00	89.06	89.70	9,004.72	805.75	8,745.09	8,781.39	0.00	0.00	0.00
17,600.00	89.06	89.70	9,006.36	806.27	8,845.08	8,881.11	0.00	0.00	0.00
17,700.00	89.06	89.70	9,008.00	806.79	8,945.06	8,980.82	0.00	0.00	0.00
17,800.00	89.06	89.70	9,009.64	807.32	9,045.05	9,080.54	0.00	0.00	0.00
17,900.00	89.06	89.70	9,011.28	807.84	9,145.03	9,180.25	0.00	0.00	0.00
18,000.00	89.06	89.70	9,012.91	808.36	9,245.02	9,279.97	0.00	0.00	0.00
18,100.00	89.06	89.70	9,014.55	808.88	9,345.00	9,379.68	0.00	0.00	0.00
18,200.00	89.06	89.70	9,016.18	809.40	9,444.99	9,479.40	0.00	0.00	0.00
18,300.00	89.06	89.70	9,017.81	809.92	9,544.97	9,579.11	0.00	0.00	0.00
18,400.00	89.07	89.70	9,019.45	810.44	9,644.96	9,678.83	0.00	0.00	0.00
18,500.00	89.07	89.70	9,021.08	810.96	9,744.94	9,778.54	0.00	0.00	0.00
18,600.00	89.07	89.70	9,022.71	811.49	9,844.93	9,878.26	0.00	0.00	0.00
18,700.00	89.07	89.70	9,024.33	812.01	9,944.91	9,977.98	0.00	0.00	0.00
18,800.00	89.07	89.70	9,025.96	812.53	10,044.90	10,077.69	0.00	0.00	0.00
18,900.00	89.07	89.70	9,027.59	813.05	10,144.88	10,177.41	0.00	0.00	0.00
19,000.00	89.07	89.70	9,029.21	813.57	10,244.87	10,277.12	0.00	0.00	0.00
19,048.61	89.07	89.70	9,030.00	813.82	10,293.47	10,325.59	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
CORRAL_FLY_02-01_ - plan hits target center - Point	0.00	0.00	8,292.04	759.80	-70.29	424,046.93	655,766.69	32° 9' 54.873755 N	103° 57' 48.704613
CORRAL_FLY_02-01_ - plan hits target center - Point	0.00	0.00	9,030.00	813.82	10,293.47	424,100.95	666,129.64	32° 9' 55.040004 N	103° 55' 48.139782

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 21H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 21H
TVD Reference: Datum @ 3023.10ft
MD Reference: Datum @ 3023.10ft
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)	
3,465.00	3,465.00	0.00	0.00	STEP OUT DLS 2.00
3,965.21	3,962.67	43.37	-4.01	HOLD 10 DEG TANGENT
7,856.07	7,794.37	716.42	-66.27	DROP BACK TO VERTICAL DLS 2.00
8,356.28	8,292.04	759.80	-70.29	BUILD CURVE 10 DEG / 100
9,246.28	8,864.91	762.73	492.67	LANDING POINT
19,048.61	9,030.00	813.82	10,293.47	TD at 19048.61