

Oxy
Planning Report

30-015-44509

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 23H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 23H
TVD Reference: Datum @ 3022.00ft
MD Reference: Datum @ 3022.00ft
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 23H					
Well Position	+N/-S	-70.01 ft	Northing:	423,217.19 usft	Latitude:	32° 9' 46.660297 N
	+E/-W	0.02 ft	Easting:	655,836.99 usft	Longitude:	103° 57' 47.919929 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	2,995.50 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/27/2017	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	94.48

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	
2,887.00	0.00	0.00	2,887.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,386.82	10.00	184.63	3,384.29	-43.35	-3.51	2.00	2.00	0.00	184.63	
7,858.16	10.00	184.63	7,787.75	-816.99	-66.16	0.00	0.00	0.00	0.00	
8,357.99	0.00	89.70	8,285.04	-860.34	-69.68	2.00	-2.00	0.00	180.00	CF_02-01_STATE_
9,247.99	89.00	89.70	8,857.91	-857.40	493.28	10.00	10.00	0.00	89.70	
19,058.39	89.01	89.70	9,028.00	-806.28	10,302.07	0.00	0.00	0.00	0.00	CF_02-01_STATE_

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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
2,887.00	0.00	0.00	2,887.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.26	184.63	2,900.00	-0.03	0.00	0.00	2.00	2.00	0.00
3,000.00	2.26	184.63	2,999.97	-2.22	-0.18	-0.01	2.00	2.00	0.00
3,100.00	4.26	184.63	3,099.80	-7.89	-0.64	-0.02	2.00	2.00	0.00
3,200.00	6.26	184.63	3,199.38	-17.03	-1.38	-0.05	2.00	2.00	0.00
3,300.00	8.26	184.63	3,298.57	-29.62	-2.40	-0.08	2.00	2.00	0.00
3,386.82	10.00	184.63	3,384.29	-43.35	-3.51	-0.12	2.00	2.00	0.00
3,400.00	10.00	184.63	3,397.27	-45.63	-3.70	-0.12	0.00	0.00	0.00
3,500.00	10.00	184.63	3,495.75	-62.93	-5.10	-0.17	0.00	0.00	0.00
3,600.00	10.00	184.63	3,594.23	-80.23	-6.50	-0.22	0.00	0.00	0.00
3,700.00	10.00	184.63	3,692.71	-97.54	-7.90	-0.26	0.00	0.00	0.00
3,800.00	10.00	184.63	3,791.20	-114.84	-9.30	-0.31	0.00	0.00	0.00
3,900.00	10.00	184.63	3,889.68	-132.14	-10.70	-0.36	0.00	0.00	0.00
4,000.00	10.00	184.63	3,988.16	-149.44	-12.10	-0.41	0.00	0.00	0.00
4,100.00	10.00	184.63	4,086.64	-166.74	-13.50	-0.45	0.00	0.00	0.00
4,200.00	10.00	184.63	4,185.12	-184.05	-14.91	-0.50	0.00	0.00	0.00
4,300.00	10.00	184.63	4,283.60	-201.35	-16.31	-0.55	0.00	0.00	0.00
4,400.00	10.00	184.63	4,382.09	-218.65	-17.71	-0.59	0.00	0.00	0.00
4,500.00	10.00	184.63	4,480.57	-235.95	-19.11	-0.64	0.00	0.00	0.00
4,600.00	10.00	184.63	4,579.05	-253.26	-20.51	-0.69	0.00	0.00	0.00
4,700.00	10.00	184.63	4,677.53	-270.56	-21.91	-0.73	0.00	0.00	0.00
4,800.00	10.00	184.63	4,776.01	-287.86	-23.31	-0.78	0.00	0.00	0.00
4,900.00	10.00	184.63	4,874.50	-305.16	-24.71	-0.83	0.00	0.00	0.00
5,000.00	10.00	184.63	4,972.98	-322.46	-26.12	-0.88	0.00	0.00	0.00
5,100.00	10.00	184.63	5,071.46	-339.77	-27.52	-0.92	0.00	0.00	0.00

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5,200.00	10.00	184.63	5,169.94	-357.07	-28.92	-0.97	0.00	0.00	0.00
5,300.00	10.00	184.63	5,268.42	-374.37	-30.32	-1.02	0.00	0.00	0.00
5,400.00	10.00	184.63	5,366.90	-391.67	-31.72	-1.06	0.00	0.00	0.00
5,500.00	10.00	184.63	5,465.39	-408.97	-33.12	-1.11	0.00	0.00	0.00
5,600.00	10.00	184.63	5,563.87	-426.28	-34.52	-1.16	0.00	0.00	0.00
5,700.00	10.00	184.63	5,662.35	-443.58	-35.92	-1.20	0.00	0.00	0.00
5,800.00	10.00	184.63	5,760.83	-460.88	-37.32	-1.25	0.00	0.00	0.00
5,900.00	10.00	184.63	5,859.31	-478.18	-38.73	-1.30	0.00	0.00	0.00
6,000.00	10.00	184.63	5,957.80	-495.49	-40.13	-1.34	0.00	0.00	0.00
6,100.00	10.00	184.63	6,056.28	-512.79	-41.53	-1.39	0.00	0.00	0.00
6,200.00	10.00	184.63	6,154.76	-530.09	-42.93	-1.44	0.00	0.00	0.00
6,300.00	10.00	184.63	6,253.24	-547.39	-44.33	-1.49	0.00	0.00	0.00
6,400.00	10.00	184.63	6,351.72	-564.69	-45.73	-1.53	0.00	0.00	0.00
6,500.00	10.00	184.63	6,450.21	-582.00	-47.13	-1.58	0.00	0.00	0.00
6,600.00	10.00	184.63	6,548.69	-599.30	-48.53	-1.63	0.00	0.00	0.00
6,700.00	10.00	184.63	6,647.17	-616.60	-49.94	-1.67	0.00	0.00	0.00
6,800.00	10.00	184.63	6,745.65	-633.90	-51.34	-1.72	0.00	0.00	0.00
6,900.00	10.00	184.63	6,844.13	-651.20	-52.74	-1.77	0.00	0.00	0.00
7,000.00	10.00	184.63	6,942.61	-668.51	-54.14	-1.81	0.00	0.00	0.00
7,100.00	10.00	184.63	7,041.10	-685.81	-55.54	-1.86	0.00	0.00	0.00
7,200.00	10.00	184.63	7,139.58	-703.11	-56.94	-1.91	0.00	0.00	0.00
7,300.00	10.00	184.63	7,238.06	-720.41	-58.34	-1.96	0.00	0.00	0.00
7,400.00	10.00	184.63	7,336.54	-737.71	-59.74	-2.00	0.00	0.00	0.00
7,500.00	10.00	184.63	7,435.02	-755.02	-61.15	-2.05	0.00	0.00	0.00
7,600.00	10.00	184.63	7,533.51	-772.32	-62.55	-2.10	0.00	0.00	0.00
7,700.00	10.00	184.63	7,631.99	-789.62	-63.95	-2.14	0.00	0.00	0.00
7,800.00	10.00	184.63	7,730.47	-806.92	-65.35	-2.19	0.00	0.00	0.00
7,858.16	10.00	184.63	7,787.75	-816.99	-66.16	-2.22	0.00	0.00	0.00
7,900.00	9.16	184.63	7,829.00	-823.93	-66.73	-2.24	2.00	-2.00	0.00
8,000.00	7.16	184.63	7,927.99	-838.07	-67.87	-2.27	2.00	-2.00	0.00
8,100.00	5.16	184.63	8,027.40	-848.77	-68.74	-2.30	2.00	-2.00	0.00
8,200.00	3.16	184.63	8,127.13	-856.00	-69.32	-2.32	2.00	-2.00	0.00
8,300.00	1.16	184.63	8,227.06	-859.75	-69.63	-2.33	2.00	-2.00	0.00
8,357.99	0.00	89.70	8,285.04	-860.34	-69.68	-2.33	2.00	-2.00	0.00
8,400.00	4.20	89.70	8,327.02	-860.33	-68.14	-0.80	10.00	10.00	0.00
8,500.00	14.20	89.70	8,425.60	-860.25	-52.17	15.11	10.00	10.00	0.00
8,600.00	24.20	89.70	8,519.92	-860.07	-19.32	47.85	10.00	10.00	0.00
8,700.00	34.20	89.70	8,607.10	-859.82	29.41	96.40	10.00	10.00	0.00
8,800.00	44.20	89.70	8,684.50	-859.49	92.53	159.31	10.00	10.00	0.00
8,900.00	54.20	89.70	8,749.75	-859.10	168.13	234.65	10.00	10.00	0.00
9,000.00	64.20	89.70	8,800.89	-858.65	253.92	320.14	10.00	10.00	0.00
9,100.00	74.20	89.70	8,836.36	-858.16	347.28	413.18	10.00	10.00	0.00
9,200.00	84.20	89.70	8,855.07	-857.65	445.39	510.95	10.00	10.00	0.00
9,247.99	89.00	89.70	8,857.91	-857.40	493.28	558.67	10.00	10.00	0.00
9,300.00	89.00	89.70	8,858.82	-857.13	545.28	610.49	0.00	0.00	0.00
9,400.00	89.00	89.70	8,860.57	-856.61	645.26	710.13	0.00	0.00	0.00
9,500.00	89.00	89.70	8,862.31	-856.09	745.25	809.77	0.00	0.00	0.00
9,600.00	89.00	89.70	8,864.05	-855.57	845.23	909.41	0.00	0.00	0.00
9,700.00	89.00	89.70	8,865.80	-855.05	945.21	1,009.05	0.00	0.00	0.00
9,800.00	89.00	89.70	8,867.54	-854.53	1,045.20	1,108.68	0.00	0.00	0.00
9,900.00	89.00	89.70	8,869.29	-854.01	1,145.18	1,208.32	0.00	0.00	0.00
10,000.00	89.00	89.70	8,871.03	-853.48	1,245.16	1,307.96	0.00	0.00	0.00
10,100.00	89.00	89.70	8,872.77	-852.96	1,345.15	1,407.60	0.00	0.00	0.00
10,200.00	89.00	89.70	8,874.52	-852.44	1,445.13	1,507.24	0.00	0.00	0.00

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10,300.00	89.00	89.70	8,876.26	-851.92	1,545.11	1,606.87	0.00	0.00	0.00
10,400.00	89.00	89.70	8,878.00	-851.40	1,645.10	1,706.51	0.00	0.00	0.00
10,500.00	89.00	89.70	8,879.74	-850.88	1,745.08	1,806.15	0.00	0.00	0.00
10,600.00	89.00	89.70	8,881.49	-850.36	1,845.06	1,905.79	0.00	0.00	0.00
10,700.00	89.00	89.70	8,883.23	-849.84	1,945.05	2,005.43	0.00	0.00	0.00
10,800.00	89.00	89.70	8,884.97	-849.32	2,045.03	2,105.06	0.00	0.00	0.00
10,900.00	89.00	89.70	8,886.71	-848.79	2,145.01	2,204.70	0.00	0.00	0.00
11,000.00	89.00	89.70	8,888.45	-848.27	2,245.00	2,304.34	0.00	0.00	0.00
11,100.00	89.00	89.70	8,890.19	-847.75	2,344.98	2,403.98	0.00	0.00	0.00
11,200.00	89.00	89.70	8,891.94	-847.23	2,444.96	2,503.62	0.00	0.00	0.00
11,300.00	89.00	89.70	8,893.68	-846.71	2,544.95	2,603.25	0.00	0.00	0.00
11,400.00	89.00	89.70	8,895.42	-846.19	2,644.93	2,702.89	0.00	0.00	0.00
11,500.00	89.00	89.70	8,897.16	-845.67	2,744.91	2,802.53	0.00	0.00	0.00
11,600.00	89.00	89.70	8,898.90	-845.15	2,844.90	2,902.17	0.00	0.00	0.00
11,700.00	89.00	89.70	8,900.64	-844.63	2,944.88	3,001.81	0.00	0.00	0.00
11,800.00	89.00	89.70	8,902.38	-844.11	3,044.87	3,101.44	0.00	0.00	0.00
11,900.00	89.00	89.70	8,904.11	-843.58	3,144.85	3,201.08	0.00	0.00	0.00
12,000.00	89.00	89.70	8,905.85	-843.06	3,244.83	3,300.72	0.00	0.00	0.00
12,100.00	89.00	89.70	8,907.59	-842.54	3,344.82	3,400.36	0.00	0.00	0.00
12,200.00	89.00	89.70	8,909.33	-842.02	3,444.80	3,500.00	0.00	0.00	0.00
12,300.00	89.00	89.70	8,911.07	-841.50	3,544.78	3,599.63	0.00	0.00	0.00
12,400.00	89.00	89.70	8,912.81	-840.98	3,644.77	3,699.27	0.00	0.00	0.00
12,500.00	89.00	89.70	8,914.54	-840.46	3,744.75	3,798.91	0.00	0.00	0.00
12,600.00	89.00	89.70	8,916.28	-839.94	3,844.73	3,898.55	0.00	0.00	0.00
12,700.00	89.00	89.70	8,918.02	-839.42	3,944.72	3,998.19	0.00	0.00	0.00
12,800.00	89.00	89.70	8,919.76	-838.89	4,044.70	4,097.83	0.00	0.00	0.00
12,900.00	89.00	89.70	8,921.49	-838.37	4,144.68	4,197.46	0.00	0.00	0.00
13,000.00	89.01	89.70	8,923.23	-837.85	4,244.67	4,297.10	0.00	0.00	0.00
13,100.00	89.01	89.70	8,924.97	-837.33	4,344.65	4,396.74	0.00	0.00	0.00
13,200.00	89.01	89.70	8,926.70	-836.81	4,444.63	4,496.38	0.00	0.00	0.00
13,300.00	89.01	89.70	8,928.44	-836.29	4,544.62	4,596.02	0.00	0.00	0.00
13,400.00	89.01	89.70	8,930.17	-835.77	4,644.60	4,695.65	0.00	0.00	0.00
13,500.00	89.01	89.70	8,931.91	-835.25	4,744.59	4,795.29	0.00	0.00	0.00
13,600.00	89.01	89.70	8,933.64	-834.73	4,844.57	4,894.93	0.00	0.00	0.00
13,700.00	89.01	89.70	8,935.38	-834.20	4,944.55	4,994.57	0.00	0.00	0.00
13,800.00	89.01	89.70	8,937.11	-833.68	5,044.54	5,094.21	0.00	0.00	0.00
13,900.00	89.01	89.70	8,938.85	-833.16	5,144.52	5,193.84	0.00	0.00	0.00
14,000.00	89.01	89.70	8,940.58	-832.64	5,244.50	5,293.48	0.00	0.00	0.00
14,100.00	89.01	89.70	8,942.32	-832.12	5,344.49	5,393.12	0.00	0.00	0.00
14,200.00	89.01	89.70	8,944.05	-831.60	5,444.47	5,492.76	0.00	0.00	0.00
14,300.00	89.01	89.70	8,945.78	-831.08	5,544.45	5,592.40	0.00	0.00	0.00
14,400.00	89.01	89.70	8,947.52	-830.56	5,644.44	5,692.03	0.00	0.00	0.00
14,500.00	89.01	89.70	8,949.25	-830.04	5,744.42	5,791.67	0.00	0.00	0.00
14,600.00	89.01	89.70	8,950.98	-829.51	5,844.41	5,891.31	0.00	0.00	0.00
14,700.00	89.01	89.70	8,952.72	-828.99	5,944.39	5,990.95	0.00	0.00	0.00
14,800.00	89.01	89.70	8,954.45	-828.47	6,044.37	6,090.59	0.00	0.00	0.00
14,900.00	89.01	89.70	8,956.18	-827.95	6,144.36	6,190.23	0.00	0.00	0.00
15,000.00	89.01	89.70	8,957.91	-827.43	6,244.34	6,289.86	0.00	0.00	0.00
15,100.00	89.01	89.70	8,959.64	-826.91	6,344.32	6,389.50	0.00	0.00	0.00
15,200.00	89.01	89.70	8,961.37	-826.39	6,444.31	6,489.14	0.00	0.00	0.00
15,300.00	89.01	89.70	8,963.11	-825.87	6,544.29	6,588.78	0.00	0.00	0.00
15,400.00	89.01	89.70	8,964.84	-825.35	6,644.27	6,688.42	0.00	0.00	0.00
15,500.00	89.01	89.70	8,966.57	-824.83	6,744.26	6,788.05	0.00	0.00	0.00
15,600.00	89.01	89.70	8,968.30	-824.30	6,844.24	6,887.69	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 23H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 23H
TVD Reference: Datum @ 3022.00ft
MD Reference: Datum @ 3022.00ft
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	89.01	89.70	8,970.03	-823.78	6,944.23	6,987.33	0.00	0.00	0.00
15,800.00	89.01	89.70	8,971.76	-823.26	7,044.21	7,086.97	0.00	0.00	0.00
15,900.00	89.01	89.70	8,973.49	-822.74	7,144.19	7,186.61	0.00	0.00	0.00
16,000.00	89.01	89.70	8,975.22	-822.22	7,244.18	7,286.25	0.00	0.00	0.00
16,100.00	89.01	89.70	8,976.95	-821.70	7,344.16	7,385.88	0.00	0.00	0.00
16,200.00	89.01	89.70	8,978.68	-821.18	7,444.14	7,485.52	0.00	0.00	0.00
16,300.00	89.01	89.70	8,980.40	-820.66	7,544.13	7,585.16	0.00	0.00	0.00
16,400.00	89.01	89.70	8,982.13	-820.14	7,644.11	7,684.80	0.00	0.00	0.00
16,500.00	89.01	89.70	8,983.86	-819.61	7,744.10	7,784.44	0.00	0.00	0.00
16,600.00	89.01	89.70	8,985.59	-819.09	7,844.08	7,884.08	0.00	0.00	0.00
16,700.00	89.01	89.70	8,987.32	-818.57	7,944.06	7,983.71	0.00	0.00	0.00
16,800.00	89.01	89.70	8,989.05	-818.05	8,044.05	8,083.35	0.00	0.00	0.00
16,900.00	89.01	89.70	8,990.77	-817.53	8,144.03	8,182.99	0.00	0.00	0.00
17,000.00	89.01	89.70	8,992.50	-817.01	8,244.01	8,282.63	0.00	0.00	0.00
17,100.00	89.01	89.70	8,994.23	-816.49	8,344.00	8,382.27	0.00	0.00	0.00
17,200.00	89.01	89.70	8,995.95	-815.97	8,443.98	8,481.90	0.00	0.00	0.00
17,300.00	89.01	89.70	8,997.68	-815.45	8,543.96	8,581.54	0.00	0.00	0.00
17,400.00	89.01	89.70	8,999.41	-814.92	8,643.95	8,681.18	0.00	0.00	0.00
17,500.00	89.01	89.70	9,001.13	-814.40	8,743.93	8,780.82	0.00	0.00	0.00
17,600.00	89.01	89.70	9,002.86	-813.88	8,843.92	8,880.46	0.00	0.00	0.00
17,700.00	89.01	89.70	9,004.58	-813.36	8,943.90	8,980.10	0.00	0.00	0.00
17,800.00	89.01	89.70	9,006.31	-812.84	9,043.88	9,079.73	0.00	0.00	0.00
17,900.00	89.01	89.70	9,008.03	-812.32	9,143.87	9,179.37	0.00	0.00	0.00
18,000.00	89.01	89.70	9,009.76	-811.80	9,243.85	9,279.01	0.00	0.00	0.00
18,100.00	89.01	89.70	9,011.48	-811.28	9,343.84	9,378.65	0.00	0.00	0.00
18,200.00	89.01	89.70	9,013.21	-810.76	9,443.82	9,478.29	0.00	0.00	0.00
18,300.00	89.01	89.70	9,014.93	-810.23	9,543.80	9,577.93	0.00	0.00	0.00
18,400.00	89.01	89.70	9,016.66	-809.71	9,643.79	9,677.56	0.00	0.00	0.00
18,500.00	89.01	89.70	9,018.38	-809.19	9,743.77	9,777.20	0.00	0.00	0.00
18,600.00	89.01	89.70	9,020.10	-808.67	9,843.75	9,876.84	0.00	0.00	0.00
18,700.00	89.01	89.70	9,021.83	-808.15	9,943.74	9,976.48	0.00	0.00	0.00
18,800.00	89.01	89.70	9,023.55	-807.63	10,043.72	10,076.12	0.00	0.00	0.00
18,900.00	89.01	89.70	9,025.27	-807.11	10,143.71	10,175.76	0.00	0.00	0.00
19,000.00	89.01	89.70	9,026.99	-806.59	10,243.69	10,275.39	0.00	0.00	0.00
19,058.39	89.01	89.70	9,028.00	-806.28	10,302.07	10,333.58	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_23 - plan hits target center - Point	0.00	0.00	8,285.04	-860.34	-69.68	422,356.92	655,767.32	32° 9' 38.149473 N	103° 57' 48.764835
CF_02-01_STATE_23 - plan hits target center - Point	0.00	0.00	9,028.00	-806.28	10,302.07	422,410.97	666,138.26	32° 9' 38.315786 N	103° 55' 48.113169

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 23H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 23H
TVD Reference: Datum @ 3022.00ft
MD Reference: Datum @ 3022.00ft
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)	
2,887.00	2,887.00	0.00	0.00	STEP OUT DLS 2.00
3,386.82	3,384.29	-43.35	-3.51	HOLD 10 DEG TANGENT
7,858.16	7,787.75	-816.99	-66.16	DROP BACK TO VERTICAL DLS 2.00
8,357.99	8,285.04	-860.34	-69.68	BUILD CURVE 10 DEG / 100
9,247.99	8,857.91	-857.40	493.28	LANDING POINT
19,058.39	9,028.00	-806.28	10,302.07	TD at 19058.39