

Oxy
Planning Report

30.015-44508

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: CORRAL FLY 02-01 STATE
Well: CORRAL FLY 02-01 STATE 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 22H
TVD Reference: Datum @ 3022.20ft
MD Reference: Datum @ 3022.20ft
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 22H			
Well Position	+N/-S	-35.00 ft	Northing:	423,252.19 usft
	+E/-W	0.01 ft	Easting:	655,836.98 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft
			Ground Level:	2,995.70 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	89.70

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	
7,395.00	0.00	0.00	7,395.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,831.87	8.74	270.61	7,830.18	0.35	-33.24	2.00	2.00	0.00	270.61	
7,855.02	8.74	270.61	7,853.06	0.39	-36.76	0.00	0.00	0.00	0.00	
8,291.89	0.00	89.70	8,288.24	0.74	-70.01	2.00	-2.00	0.00	180.00	CF_02-01_STATE_
9,181.89	89.00	89.70	8,861.11	3.67	492.95	10.00	10.00	0.00	89.70	
18,988.03	89.04	89.70	9,029.20	54.77	10,297.51	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
2,900.00	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
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,395.00	0.00	0.00	7,395.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.10	270.61	7,400.00	0.00	0.00	0.00	2.00	2.00	0.00
7,500.00	2.10	270.61	7,499.98	0.02	-1.92	-1.92	2.00	2.00	0.00
7,600.00	4.10	270.61	7,599.83	0.08	-7.33	-7.33	2.00	2.00	0.00
7,700.00	6.10	270.61	7,699.42	0.17	-16.22	-16.22	2.00	2.00	0.00
7,800.00	8.10	270.61	7,798.65	0.30	-28.58	-28.58	2.00	2.00	0.00
7,831.87	8.74	270.61	7,830.18	0.35	-33.24	-33.24	2.00	2.00	0.00
7,855.02	8.74	270.61	7,853.06	0.39	-36.76	-36.76	0.00	0.00	0.00
7,900.00	7.84	270.61	7,897.57	0.46	-43.24	-43.24	2.00	-2.00	0.00
8,000.00	5.84	270.61	7,996.85	0.58	-55.15	-55.14	2.00	-2.00	0.00
8,100.00	3.84	270.61	8,096.49	0.67	-63.58	-63.58	2.00	-2.00	0.00
8,200.00	1.84	270.61	8,196.36	0.72	-68.53	-68.53	2.00	-2.00	0.00
8,291.89	0.00	89.70	8,288.24	0.74	-70.01	-70.00	2.00	-2.00	0.00
8,300.00	0.81	89.70	8,296.35	0.74	-69.95	-69.94	10.00	10.00	0.00
8,400.00	10.81	89.70	8,395.71	0.79	-59.84	-59.83	10.00	10.00	0.00
8,500.00	20.81	89.70	8,491.80	0.93	-32.63	-32.62	10.00	10.00	0.00
8,600.00	30.81	89.70	8,581.71	1.16	10.86	10.86	10.00	10.00	0.00
8,700.00	40.81	89.70	8,662.71	1.47	69.29	69.30	10.00	10.00	0.00
8,800.00	50.81	89.70	8,732.32	1.84	140.91	140.91	10.00	10.00	0.00
8,900.00	60.81	89.70	8,788.44	2.27	223.52	223.53	10.00	10.00	0.00
9,000.00	70.81	89.70	8,829.37	2.74	314.62	314.63	10.00	10.00	0.00
9,100.00	80.81	89.70	8,853.85	3.25	411.45	411.46	10.00	10.00	0.00
9,181.89	89.00	89.70	8,861.11	3.67	492.95	492.96	10.00	10.00	0.00
9,200.00	89.00	89.70	8,861.43	3.77	511.05	511.06	0.00	0.00	0.00
9,300.00	89.00	89.70	8,863.17	4.29	611.03	611.05	0.00	0.00	0.00
9,400.00	89.00	89.70	8,864.92	4.81	711.02	711.03	0.00	0.00	0.00
9,500.00	89.00	89.70	8,866.66	5.33	811.00	811.02	0.00	0.00	0.00
9,600.00	89.00	89.70	8,868.40	5.85	910.98	911.00	0.00	0.00	0.00
9,700.00	89.00	89.70	8,870.15	6.37	1,010.97	1,010.99	0.00	0.00	0.00
9,800.00	89.00	89.70	8,871.89	6.90	1,110.95	1,110.97	0.00	0.00	0.00
9,900.00	89.00	89.70	8,873.63	7.42	1,210.93	1,210.96	0.00	0.00	0.00
10,000.00	89.00	89.70	8,875.37	7.94	1,310.92	1,310.94	0.00	0.00	0.00
10,100.00	89.00	89.70	8,877.11	8.46	1,410.90	1,410.93	0.00	0.00	0.00
10,200.00	89.00	89.70	8,878.85	8.98	1,510.88	1,510.91	0.00	0.00	0.00

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10,300.00	89.00	89.70	8,880.59	9.50	1,610.87	1,610.89	0.00	0.00	0.00
10,400.00	89.00	89.70	8,882.32	10.02	1,710.85	1,710.88	0.00	0.00	0.00
10,500.00	89.00	89.70	8,884.06	10.54	1,810.83	1,810.86	0.00	0.00	0.00
10,600.00	89.01	89.70	8,885.80	11.06	1,910.82	1,910.85	0.00	0.00	0.00
10,700.00	89.01	89.70	8,887.53	11.58	2,010.80	2,010.83	0.00	0.00	0.00
10,800.00	89.01	89.70	8,889.27	12.11	2,110.78	2,110.82	0.00	0.00	0.00
10,900.00	89.01	89.70	8,891.00	12.63	2,210.77	2,210.80	0.00	0.00	0.00
11,000.00	89.01	89.70	8,892.74	13.15	2,310.75	2,310.79	0.00	0.00	0.00
11,100.00	89.01	89.70	8,894.47	13.67	2,410.74	2,410.77	0.00	0.00	0.00
11,200.00	89.01	89.70	8,896.20	14.19	2,510.72	2,510.76	0.00	0.00	0.00
11,300.00	89.01	89.70	8,897.94	14.71	2,610.70	2,610.74	0.00	0.00	0.00
11,400.00	89.01	89.70	8,899.67	15.23	2,710.69	2,710.73	0.00	0.00	0.00
11,500.00	89.01	89.70	8,901.40	15.75	2,810.67	2,810.71	0.00	0.00	0.00
11,600.00	89.01	89.70	8,903.13	16.27	2,910.65	2,910.70	0.00	0.00	0.00
11,700.00	89.01	89.70	8,904.86	16.80	3,010.64	3,010.68	0.00	0.00	0.00
11,800.00	89.01	89.70	8,906.59	17.32	3,110.62	3,110.67	0.00	0.00	0.00
11,900.00	89.01	89.70	8,908.32	17.84	3,210.61	3,210.65	0.00	0.00	0.00
12,000.00	89.01	89.70	8,910.04	18.36	3,310.59	3,310.64	0.00	0.00	0.00
12,100.00	89.01	89.70	8,911.77	18.88	3,410.57	3,410.62	0.00	0.00	0.00
12,200.00	89.01	89.70	8,913.50	19.40	3,510.56	3,510.61	0.00	0.00	0.00
12,300.00	89.01	89.70	8,915.22	19.92	3,610.54	3,610.59	0.00	0.00	0.00
12,400.00	89.01	89.70	8,916.95	20.44	3,710.52	3,710.58	0.00	0.00	0.00
12,500.00	89.01	89.70	8,918.67	20.96	3,810.51	3,810.57	0.00	0.00	0.00
12,600.00	89.01	89.70	8,920.40	21.49	3,910.49	3,910.55	0.00	0.00	0.00
12,700.00	89.01	89.70	8,922.12	22.01	4,010.48	4,010.54	0.00	0.00	0.00
12,800.00	89.01	89.70	8,923.84	22.53	4,110.46	4,110.52	0.00	0.00	0.00
12,900.00	89.01	89.70	8,925.56	23.05	4,210.44	4,210.51	0.00	0.00	0.00
13,000.00	89.01	89.70	8,927.29	23.57	4,310.43	4,310.49	0.00	0.00	0.00
13,100.00	89.01	89.70	8,929.01	24.09	4,410.41	4,410.48	0.00	0.00	0.00
13,200.00	89.01	89.70	8,930.73	24.61	4,510.39	4,510.46	0.00	0.00	0.00
13,300.00	89.01	89.70	8,932.45	25.13	4,610.38	4,610.45	0.00	0.00	0.00
13,400.00	89.02	89.70	8,934.16	25.65	4,710.36	4,710.43	0.00	0.00	0.00
13,500.00	89.02	89.70	8,935.88	26.18	4,810.35	4,810.42	0.00	0.00	0.00
13,600.00	89.02	89.70	8,937.60	26.70	4,910.33	4,910.40	0.00	0.00	0.00
13,700.00	89.02	89.70	8,939.32	27.22	5,010.31	5,010.39	0.00	0.00	0.00
13,800.00	89.02	89.70	8,941.03	27.74	5,110.30	5,110.37	0.00	0.00	0.00
13,900.00	89.02	89.70	8,942.75	28.26	5,210.28	5,210.36	0.00	0.00	0.00
14,000.00	89.02	89.70	8,944.46	28.78	5,310.27	5,310.34	0.00	0.00	0.00
14,100.00	89.02	89.70	8,946.18	29.30	5,410.25	5,410.33	0.00	0.00	0.00
14,200.00	89.02	89.70	8,947.89	29.82	5,510.23	5,510.31	0.00	0.00	0.00
14,300.00	89.02	89.70	8,949.60	30.34	5,610.22	5,610.30	0.00	0.00	0.00
14,400.00	89.02	89.70	8,951.32	30.87	5,710.20	5,710.28	0.00	0.00	0.00
14,500.00	89.02	89.70	8,953.03	31.39	5,810.19	5,810.27	0.00	0.00	0.00
14,600.00	89.02	89.70	8,954.74	31.91	5,910.17	5,910.26	0.00	0.00	0.00
14,700.00	89.02	89.70	8,956.45	32.43	6,010.15	6,010.24	0.00	0.00	0.00
14,800.00	89.02	89.70	8,958.16	32.95	6,110.14	6,110.23	0.00	0.00	0.00
14,900.00	89.02	89.70	8,959.87	33.47	6,210.12	6,210.21	0.00	0.00	0.00
15,000.00	89.02	89.70	8,961.58	33.99	6,310.11	6,310.20	0.00	0.00	0.00
15,100.00	89.02	89.70	8,963.29	34.51	6,410.09	6,410.18	0.00	0.00	0.00
15,200.00	89.02	89.70	8,964.99	35.03	6,510.07	6,510.17	0.00	0.00	0.00
15,300.00	89.02	89.70	8,966.70	35.56	6,610.06	6,610.15	0.00	0.00	0.00
15,400.00	89.02	89.70	8,968.41	36.08	6,710.04	6,710.14	0.00	0.00	0.00
15,500.00	89.02	89.70	8,970.11	36.60	6,810.03	6,810.12	0.00	0.00	0.00
15,600.00	89.02	89.70	8,971.82	37.12	6,910.01	6,910.11	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 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 22H
TVD Reference: Datum @ 3022.20ft
MD Reference: Datum @ 3022.20ft
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	89.02	89.70	8,973.52	37.64	7,009.99	7,010.10	0.00	0.00	0.00
15,800.00	89.02	89.70	8,975.22	38.16	7,109.98	7,110.08	0.00	0.00	0.00
15,900.00	89.02	89.70	8,976.93	38.68	7,209.96	7,210.07	0.00	0.00	0.00
16,000.00	89.02	89.70	8,978.63	39.20	7,309.95	7,310.05	0.00	0.00	0.00
16,100.00	89.03	89.70	8,980.33	39.72	7,409.93	7,410.04	0.00	0.00	0.00
16,200.00	89.03	89.70	8,982.03	40.25	7,509.91	7,510.02	0.00	0.00	0.00
16,300.00	89.03	89.70	8,983.73	40.77	7,609.90	7,610.01	0.00	0.00	0.00
16,400.00	89.03	89.70	8,985.43	41.29	7,709.88	7,709.99	0.00	0.00	0.00
16,500.00	89.03	89.70	8,987.13	41.81	7,809.87	7,809.98	0.00	0.00	0.00
16,600.00	89.03	89.70	8,988.83	42.33	7,909.85	7,909.96	0.00	0.00	0.00
16,700.00	89.03	89.70	8,990.53	42.85	8,009.84	8,009.95	0.00	0.00	0.00
16,800.00	89.03	89.70	8,992.22	43.37	8,109.82	8,109.94	0.00	0.00	0.00
16,900.00	89.03	89.70	8,993.92	43.89	8,209.80	8,209.92	0.00	0.00	0.00
17,000.00	89.03	89.70	8,995.62	44.41	8,309.79	8,309.91	0.00	0.00	0.00
17,100.00	89.03	89.70	8,997.31	44.94	8,409.77	8,409.89	0.00	0.00	0.00
17,200.00	89.03	89.70	8,999.01	45.46	8,509.76	8,509.88	0.00	0.00	0.00
17,300.00	89.03	89.70	9,000.70	45.98	8,609.74	8,609.86	0.00	0.00	0.00
17,400.00	89.03	89.70	9,002.39	46.50	8,709.73	8,709.85	0.00	0.00	0.00
17,500.00	89.03	89.70	9,004.09	47.02	8,809.71	8,809.84	0.00	0.00	0.00
17,600.00	89.03	89.70	9,005.78	47.54	8,909.69	8,909.82	0.00	0.00	0.00
17,700.00	89.03	89.70	9,007.47	48.06	9,009.68	9,009.81	0.00	0.00	0.00
17,800.00	89.03	89.70	9,009.16	48.58	9,109.66	9,109.79	0.00	0.00	0.00
17,900.00	89.03	89.70	9,010.85	49.10	9,209.65	9,209.78	0.00	0.00	0.00
18,000.00	89.03	89.70	9,012.54	49.63	9,309.63	9,309.76	0.00	0.00	0.00
18,100.00	89.03	89.70	9,014.23	50.15	9,409.62	9,409.75	0.00	0.00	0.00
18,200.00	89.03	89.70	9,015.92	50.67	9,509.60	9,509.74	0.00	0.00	0.00
18,300.00	89.03	89.70	9,017.61	51.19	9,609.59	9,609.72	0.00	0.00	0.00
18,400.00	89.03	89.70	9,019.29	51.71	9,709.57	9,709.71	0.00	0.00	0.00
18,500.00	89.03	89.70	9,020.98	52.23	9,809.55	9,809.69	0.00	0.00	0.00
18,600.00	89.03	89.70	9,022.66	52.75	9,909.54	9,909.68	0.00	0.00	0.00
18,700.00	89.03	89.70	9,024.35	53.27	10,009.52	10,009.66	0.00	0.00	0.00
18,800.00	89.04	89.70	9,026.03	53.79	10,109.51	10,109.65	0.00	0.00	0.00
18,900.00	89.04	89.70	9,027.72	54.32	10,209.49	10,209.64	0.00	0.00	0.00
18,988.03	89.04	89.70	9,029.20	54.77	10,297.51	10,297.66	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
CF_02-01_STATE_22	0.00	0.00	8,288.24	0.74	-70.01	423,252.93	655,766.98	32° 9' 47.016360 N	103° 57' 48.732978
- hit/miss target									
- Shape									
- Point									
CF_02-01_STATE_22	0.00	0.00	9,029.20	54.77	10,297.51	423,306.96	666,133.69	32° 9' 47.182598 N	103° 55' 48.127278
- hit/miss target									
- Shape									
- Point									

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 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well CORRAL FLY 02-01 STATE 22H
TVD Reference: Datum @ 3022.20ft
MD Reference: Datum @ 3022.20ft
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)	
7,395.00	7,395.00	0.00	0.00	STEP OUT DLS 2.00
7,831.87	7,830.18	0.35	-33.24	HOLD 10 DEG TANGENT
7,855.02	7,853.06	0.39	-36.76	DROP BACK TO VERTICAL DLS 2.00
8,291.89	8,288.24	0.74	-70.01	BUILD CURVE 10 DEG / 100
9,181.89	8,861.11	3.67	492.95	LANDING POINT
18,988.03	9,029.20	54.77	10,297.51	TD at 18988.03