

MARATHON OIL COMPANY
Indian Hills Unit No.24,slot #1
Indian Basin,EDDY COUNTY, NM.

SURVEY LISTING Page 1
Your ref : Gyro/MWD/FMI
Last revised : 24-Aug-2000

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 E	0.00	0.00
100.00	0.57	113.02	100.00	0.46 E	0.57	-0.14
200.00	0.67	108.76	199.99	1.47 E	0.11	-0.41
300.00	0.65	132.27	299.99	2.43 E	0.27	-0.87
400.00	0.61	105.94	399.98	3.36 E	0.29	-1.29
500.00	0.52	120.02	499.98	4.27 E	0.16	-1.56
600.00	0.72	116.10	599.97	5.22 E	0.20	-1.96
700.00	0.49	119.11	699.96	6.16 E	0.22	-2.34
800.00	0.41	114.67	799.96	6.86 E	0.09	-2.62
900.00	0.37	105.02	899.96	7.50 E	0.08	-2.78
1000.00	0.14	166.37	999.96	7.84 E	0.33	-2.95
1100.00	0.34	204.97	1099.96	7.74 E	0.25	-3.35
1200.00	0.08	126.51	1199.96	7.67 E	0.34	-3.67
1300.00	0.16	98.38	1299.96	7.87 E	0.10	-3.71
1400.00	0.13	178.49	1399.96	8.02 E	0.19	-3.83
1500.00	0.08	231.01	1499.96	7.97 E	0.10	-3.99
1600.00	0.09	40.73	1599.96	7.96 E	0.17	-3.97
1700.00	0.30	109.10	1699.95	8.26 E	0.28	-3.97 Tie on to gyro w/ MWD
1774.00	0.80	33.00	1773.95	8.73 E	1.06	-3.55
1805.00	1.30	7.60	1804.95	8.90 E	2.17	-3.01
1832.00	2.10	6.00	1831.93	8.99 E	2.97	-2.20
1868.00	3.20	2.60	1867.90	9.10 E	3.09	-0.54
1899.00	4.20	1.60	1898.83	9.17 E	3.23	1.45
1931.00	5.30	1.00	1930.72	9.23 E	3.44	4.09
1962.00	6.40	1.40	1961.56	9.30 E	3.55	7.24

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2687.07 on azimuth 6.80 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 6.24 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ