

Marathon Oil Company
Indian Hills Unit No. 28, slot #1
Indian Basin, EDDY COUNTY, NM.

SURVEY LISTING Page 1
Your ref : MWD Survey
Last revised : 6-Dec-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 N	0.00 E	0.00	0.00
100.00	0.12	104.81	100.00	0.03 S	0.10 E	0.12	-0.06
200.00	0.19	181.67	200.00	0.22 S	0.20 E	0.20	0.00
300.00	0.07	306.33	300.00	0.35 S	0.14 E	0.24	0.12
400.00	0.15	224.40	400.00	0.41 S	0.00 E	0.16	0.27
500.00	0.15	203.63	500.00	0.62 S	0.14 W	0.05	0.52
600.00	0.23	158.29	600.00	0.93 S	0.12 W	0.16	0.70
700.00	0.12	181.35	700.00	1.22 S	0.05 W	0.13	0.84
800.00	0.26	194.18	800.00	1.54 S	0.11 W	0.15	1.10
900.00	0.37	198.57	900.00	2.07 S	0.26 W	0.11	1.57
1000.00	0.50	190.56	999.99	2.80 S	0.45 W	0.14	2.19
1100.00	0.49	173.12	1099.99	3.66 S	0.48 W	0.15	2.78
1200.00	0.42	197.46	1199.99	4.43 S	0.53 W	0.20	3.34
1300.00	0.53	199.37	1299.98	5.22 S	0.80 W	0.11	4.06
1400.00	0.47	191.56	1399.98	6.05 S	1.03 W	0.09	4.79
1500.00	0.55	182.91	1499.98	6.94 S	1.14 W	0.11	5.45
1600.00	0.42	185.48	1599.97	7.78 S	1.20 W	0.13	6.06
1700.00	0.35	208.73	1699.97	8.41 S	1.38 W	0.17	6.61
1800.00	0.58	248.20	1799.97	8.87 S	2.00 W	0.38	7.38
1900.00	0.55	237.60	1899.96	9.31 S	2.87 W	0.11	8.33
2000.00	0.59	243.05	1999.96	9.80 S	3.74 W	0.07	9.30
2100.00	0.71	250.73	2099.95	10.24 S	4.78 W	0.15	10.37
2200.00	0.48	262.44	2199.94	10.50 S	5.78 W	0.26	11.29
2300.00	0.53	281.49	2299.94	10.46 S	6.65 W	0.17	11.92
2400.00	0.77	272.08	2399.93	10.35 S	7.77 W	0.26	12.68
2500.00	0.62	268.99	2499.93	10.33 S	8.99 W	0.15	13.58
2600.00	0.23	286.68	2599.92	10.29 S	9.72 W	0.41	14.10
2700.00	0.44	260.88	2699.92	10.29 S	10.29 W	0.25	14.53
2800.00	0.47	267.99	2799.92	10.36 S	11.08 W	0.06	15.17
2900.00	0.28	281.18	2899.92	10.33 S	11.73 W	0.21	15.63
3000.00	0.29	234.22	2999.92	10.43 S	12.18 W	0.23	16.03
3100.00	0.42	262.08	3099.91	10.63 S	12.74 W	0.21	16.59
3200.00	0.47	262.56	3199.91	10.73 S	13.51 W	0.05	17.23
3300.00	0.46	253.96	3299.91	10.90 S	14.31 W	0.07	17.93
3400.00	0.52	258.56	3399.90	11.10 S	15.14 W	0.07	18.69
3500.00	0.63	239.44	3499.90	11.47 S	16.05 W	0.22	19.62
3600.00	0.72	240.77	3599.89	12.05 S	17.08 W	0.09	20.77
3700.00	0.98	232.86	3699.88	12.88 S	18.31 W	0.28	22.24
3800.00	1.40	236.09	3799.86	14.07 S	20.00 W	0.43	24.30
3840.00	3.70	230.60	3839.82	15.17 S	21.40 W	5.78	26.08
3875.00	4.70	227.80	3874.72	16.85 S	23.34 W	2.92	28.64
3943.00	6.50	228.90	3942.40	21.25 S	28.30 W	2.65	35.28
3968.00	7.10	230.30	3967.22	23.17 S	30.56 W	2.49	38.24
4000.00	8.00	230.30	3998.94	25.85 S	33.79 W	2.81	42.44
4029.00	8.70	231.00	4027.63	28.52 S	37.05 W	2.44	46.65
4062.00	9.60	231.70	4060.21	31.80 S	41.15 W	2.75	51.89
4091.00	10.40	231.80	4088.77	34.91 S	45.11 W	2.76	56.91
4122.00	11.20	231.30	4119.22	38.53 S	49.65 W	2.60	62.71
4152.00	12.20	231.00	4148.60	42.34 S	54.39 W	3.34	68.79
4181.00	13.10	231.00	4176.90	46.34 S	59.33 W	3.10	75.14

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1685.59 on azimuth 230.00 degrees from wellhead.
Vertical section is from wellhead on azimuth 228.46 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ