

Marathon Oil Company
IHU #36, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 1
Your ref : MWD
Last revised : 15-Feb-2002

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	0.35	285.69	100.00	0.08 N	0.29 W	0.35	-0.13
200.00	0.36	237.34	200.00	0.00 S	0.85 W	0.29	-0.55
300.00	0.32	223.21	300.00	0.38 S	1.31 W	0.09	-1.13
400.00	0.37	283.52	399.99	0.51 S	1.81 W	0.35	-1.55
500.00	0.34	21.18	499.99	0.15 S	2.02 W	0.53	-1.42
600.00	0.19	127.26	599.99	0.02 N	1.78 W	0.43	-1.13
700.00	0.29	123.19	699.99	0.22 S	1.44 W	0.10	-1.09
800.00	0.20	298.87	799.99	0.27 S	1.38 W	0.49	-1.09
900.00	0.51	217.74	899.99	0.54 S	1.80 W	0.52	-1.57
1000.00	0.24	244.37	999.99	0.98 S	2.26 W	0.31	-2.21
1100.00	0.59	250.52	1099.98	1.24 S	2.94 W	0.35	-2.84
1200.00	0.49	340.94	1199.98	1.01 S	3.56 W	0.77	-3.07
1300.00	0.73	335.73	1299.98	0.03 S	3.97 W	0.25	-2.57
1400.00	0.49	281.35	1399.97	0.64 N	4.65 W	0.60	-2.50
1500.00	0.39	246.89	1499.97	0.59 N	5.38 W	0.28	-3.01
1600.00	0.57	281.02	1599.96	0.55 N	6.18 W	0.33	-3.55
1700.00	0.90	262.98	1699.96	0.55 N	7.45 W	0.40	-4.37
1800.00	1.12	275.38	1799.94	0.55 N	9.20 W	0.31	-5.50
1900.00	0.94	267.62	1899.93	0.60 N	10.99 W	0.23	-6.61
2000.00	0.57	288.81	1999.92	0.73 N	12.28 W	0.46	-7.34
2100.00	0.71	250.88	2099.91	0.69 N	13.34 W	0.44	-8.05
2200.00	0.55	252.77	2199.90	0.34 N	14.38 W	0.16	-8.99
2326.00	0.80	226.40	2325.90	0.44 S	15.60 W	0.31	-10.37
2357.00	0.30	315.00	2356.89	0.54 S	15.81 W	2.73	-10.58
2388.00	1.00	48.50	2387.89	0.30 S	15.67 W	3.42	-10.30
2419.00	2.00	51.00	2418.88	0.22 N	15.04 W	3.23	-9.50
2450.00	3.10	45.00	2449.85	1.15 N	14.03 W	3.65	-8.14
2482.00	3.70	48.20	2481.79	2.45 N	12.65 W	1.97	-6.25
2512.00	4.50	46.80	2511.72	3.91 N	11.07 W	2.69	-4.13
2543.00	5.00	48.20	2542.61	5.64 N	9.18 W	1.66	-1.58
2574.00	5.40	48.90	2573.48	7.50 N	7.07 W	1.31	1.20
2605.00	6.00	48.90	2604.33	9.52 N	4.75 W	1.94	4.24
2636.00	6.90	48.20	2635.13	11.83 N	2.14 W	2.91	7.68
2667.00	7.70	50.30	2665.88	14.40 N	0.85 E	2.72	11.57
2706.00	8.90	49.60	2704.47	18.02 N	5.15 E	3.09	17.11
2737.00	9.60	49.90	2735.07	21.24 N	8.96 E	2.26	22.03
2768.00	10.40	48.50	2765.60	24.76 N	13.03 E	2.70	27.34
2800.00	11.30	47.80	2797.03	28.78 N	17.52 E	2.84	33.30
2831.00	12.20	46.10	2827.38	33.09 N	22.13 E	3.11	39.57
2862.00	13.10	45.00	2857.62	37.85 N	26.97 E	3.01	46.33
2893.00	14.00	43.60	2887.76	43.04 N	32.04 E	3.09	53.57
2924.00	14.80	42.90	2917.79	48.66 N	37.32 E	2.64	61.27
2986.00	15.90	42.50	2977.57	60.72 N	48.45 E	1.78	77.66
3049.00	16.20	42.20	3038.12	73.60 N	60.18 E	0.49	95.06
3112.00	15.70	41.10	3098.69	86.53 N	71.69 E	0.93	112.37
3174.00	15.70	40.40	3158.38	99.24 N	82.64 E	0.31	129.14
3237.00	15.60	40.80	3219.04	112.14 N	93.70 E	0.23	146.14
3298.00	15.40	40.60	3277.83	124.50 N	104.33 E	0.34	162.44
3358.00	15.60	40.80	3335.64	136.66 N	114.79 E	0.35	178.47

TIE INTO GYRO

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1688.15 on azimuth 40.75 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 40.02 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ