

Marathon Oil Company
Indian Hills Unit 42, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 1
Your ref : MWD
Last revised : 31-May-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	G R I D Easting	C O O R D S Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	26.96	442227.10	535039.50
50.00	0.24	26.23	50.00	0.09N	0.05E	0.48	27.03	442227.15	535039.59
100.00	0.19	0.62	100.00	0.27N	0.09E	0.21	27.12	442227.19	535039.77
150.00	0.14	4.27	150.00	0.41N	0.10E	0.10	27.17	442227.20	535039.91
200.00	0.11	337.93	200.00	0.52N	0.09E	0.13	27.18	442227.19	535040.02
250.00	0.05	345.32	250.00	0.59N	0.06E	0.12	27.18	442227.16	535040.09
300.00	0.24	359.63	300.00	0.71N	0.06E	0.38	27.21	442227.16	535040.21
350.00	0.06	330.42	350.00	0.84N	0.04E	0.38	27.23	442227.14	535040.34
400.00	0.02	41.97	400.00	0.87N	0.03E	0.11	27.23	442227.13	535040.37
450.00	0.11	186.56	450.00	0.83N	0.04E	0.25	27.22	442227.14	535040.33
500.00	0.13	201.76	500.00	0.73N	0.01E	0.07	27.17	442227.11	535040.23
550.00	0.18	207.57	550.00	0.60N	0.05W	0.10	27.08	442227.05	535040.10
600.00	0.16	200.28	600.00	0.47N	0.11W	0.06	26.98	442226.99	535039.97
650.00	0.19	183.93	650.00	0.32N	0.14W	0.12	26.91	442226.96	535039.82
700.00	0.13	208.21	700.00	0.19N	0.17W	0.18	26.84	442226.93	535039.69
750.00	0.15	219.96	750.00	0.09N	0.24W	0.07	26.75	442226.86	535039.59
800.00	0.17	218.13	800.00	0.02S	0.33W	0.04	26.64	442226.77	535039.48
850.00	0.16	235.46	850.00	0.12S	0.43W	0.10	26.51	442226.67	535039.38
900.00	0.14	232.59	900.00	0.20S	0.54W	0.04	26.39	442226.56	535039.30
950.00	0.11	233.14	950.00	0.26S	0.62W	0.06	26.28	442226.48	535039.24
1000.00	0.13	237.51	1000.00	0.32S	0.71W	0.04	26.18	442226.39	535039.18
1050.00	0.05	287.62	1050.00	0.34S	0.78W	0.21	26.11	442226.32	535039.16
1100.00	0.05	290.46	1100.00	0.33S	0.82W	0.00	26.08	442226.28	535039.17
1150.00	0.06	99.88	1150.00	0.33S	0.82W	0.22	26.08	442226.28	535039.17
1200.00	0.05	225.68	1200.00	0.35S	0.81W	0.20	26.09	442226.29	535039.15
1250.00	0.27	281.51	1250.00	0.34S	0.94W	0.49	25.96	442226.16	535039.16
1300.00	0.36	276.01	1300.00	0.30S	1.21W	0.19	25.71	442225.89	535039.20
1350.00	0.40	278.92	1349.99	0.25S	1.54W	0.09	25.41	442225.56	535039.25
1400.00	0.45	275.46	1399.99	0.21S	1.90W	0.11	25.07	442225.20	535039.29
1450.00	0.52	274.55	1449.99	0.17S	2.33W	0.14	24.67	442224.77	535039.33
1500.00	0.61	272.61	1499.99	0.14S	2.82W	0.18	24.21	442224.28	535039.36
1550.00	0.58	265.04	1549.99	0.15S	3.34W	0.17	23.71	442223.76	535039.35
1600.00	0.67	256.46	1599.98	0.24S	3.87W	0.26	23.17	442223.23	535039.26
1650.00	0.48	241.92	1649.98	0.41S	4.34W	0.48	22.67	442222.76	535039.09
1700.00	0.46	237.27	1699.98	0.62S	4.69W	0.09	22.27	442222.41	535038.88
1750.00	0.40	248.01	1749.98	0.79S	5.03W	0.20	21.91	442222.07	535038.71
1800.00	0.40	240.53	1799.98	0.94S	5.34W	0.10	21.56	442221.76	535038.56
1845.00	0.80	254.30	1844.97	1.10S	5.78W	0.94	21.10	442221.32	535038.40
1877.00	0.30	226.50	1876.97	1.22S	6.05W	1.73	20.80	442221.05	535038.28
1909.00	0.20	191.40	1908.97	1.33S	6.13W	0.56	20.70	442220.97	535038.17
1941.00	0.35	101.70	1940.97	1.41S	6.04W	1.26	20.76	442221.06	535038.09
1973.00	0.62	77.80	1972.97	1.39S	5.78W	1.04	21.02	442221.32	535038.11
2005.00	1.58	79.50	2004.96	1.28S	5.17W	3.00	21.63	442221.93	535038.22
2037.00	1.80	76.40	2036.95	1.08S	4.25W	0.74	22.57	442222.85	535038.42
2069.00	2.70	78.80	2068.93	0.81S	3.02W	2.83	23.83	442224.08	535038.69
2101.00	3.40	74.30	2100.88	0.41S	1.37W	2.31	25.53	442225.73	535039.09
2133.00	4.00	69.30	2132.81	0.24N	0.59E	2.13	27.59	442227.69	535039.74
2165.00	4.70	74.90	2164.72	0.98N	2.90E	2.56	30.01	442230.00	535040.48
2198.00	5.30	72.20	2197.60	1.80N	5.65E	1.95	32.89	442232.75	535041.30
2230.00	6.00	75.00	2229.44	2.68N	8.68E	2.35	36.04	442235.78	535042.18

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2136.28 on azimuth 74.38 degrees from wellhead.
Vertical section is from S 4.71 W 26.70 on azimuth 73.92 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ