

Marathon Oil Company
INDIAN HILLS UNIT 45, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 3
Your ref : MWD
Last revised : 7-Aug-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
6692.00	16.80	354.10	6588.91	707.00N	83.45W	1.08	711.90	449381.75	530171.40
6755.00	16.70	355.10	6649.24	725.07N	85.15W	0.49	730.05	449380.05	530189.47
6817.00	17.40	354.80	6708.52	743.18N	86.76W	1.14	748.22	449378.44	530207.58
6879.00	16.90	354.70	6767.76	761.39N	88.43W	0.81	766.50	449376.77	530225.79
6942.00	15.80	355.80	6828.21	779.06N	89.90W	1.81	784.22	449375.30	530243.46
7006.00	14.60	354.70	6889.97	795.78N	91.29W	1.93	800.99	449373.91	530260.18
7070.00	14.70	355.80	6951.89	811.91N	92.63W	0.46	817.16	449372.57	530276.31
7134.00	13.40	356.50	7013.97	827.41N	93.67W	2.05	832.67	449371.53	530291.81
7197.00	12.00	352.30	7075.43	841.19N	95.00W	2.66	846.51	449370.20	530305.59
7259.00	12.20	350.50	7136.05	854.04N	96.94W	0.69	859.50	449368.26	530318.44
7322.00	13.50	349.80	7197.48	867.84N	99.34W	2.08	873.49	449365.86	530332.24
7386.00	14.80	352.30	7259.53	883.29N	101.76W	2.24	889.12	449363.44	530347.69
7450.00	14.40	351.90	7321.47	899.27N	103.98W	0.64	905.25	449361.22	530363.67
7514.00	14.60	354.40	7383.43	915.18N	105.88W	1.03	921.27	449359.32	530379.58
7577.00	14.80	354.40	7444.37	931.09N	107.45W	0.32	937.26	449357.75	530395.49
7641.00	16.50	356.20	7505.99	948.30N	108.85W	2.76	954.51	449356.35	530412.70
7673.00	17.00	357.20	7536.63	957.50N	109.37W	1.80	963.71	449355.83	530421.90
7736.00	17.10	355.50	7596.87	975.94N	110.55W	0.81	982.15	449354.65	530440.34
7800.00	16.40	354.80	7658.15	994.31N	112.11W	1.14	1000.58	449353.09	530458.71
7864.00	17.10	355.10	7719.43	1012.69N	113.73W	1.10	1019.02	449351.47	530477.09
7926.00	16.30	353.40	7778.82	1030.41N	115.51W	1.51	1036.83	449349.69	530494.81
7989.00	15.30	351.60	7839.44	1047.42N	117.74W	1.77	1053.98	449347.46	530511.82
8053.00	15.70	352.60	7901.11	1064.36N	120.09W	0.75	1071.08	449345.11	530528.76
8116.00	15.40	352.60	7961.80	1081.11N	122.26W	0.48	1087.97	449342.94	530545.51
8180.00	15.30	352.60	8023.52	1097.91N	124.45W	0.16	1104.91	449340.75	530562.31
8230.00	15.30	352.60	8071.75	1110.99N	126.15W	0.00	1118.10	449339.05	530575.39

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 1118.13 on azimuth 353.52 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 353.12 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ