

Marathon Oil Company
Indian Hills Unit No. 30, #30 ST1
Indian Basin, EDDY COUNTY, NM.

SURVEY LISTING Page 2
Your ref : ST1 BHI MWD 6142'-7981'
Last revised : 23-Aug-2001

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	
3961.00	16.00	19.50	3874.85	581.66 N	222.79 E	0.66	622.87	
4023.00	16.20	19.10	3934.42	597.89 N	228.47 E	0.37	640.05	
4084.00	16.10	18.40	3993.01	613.96 N	233.92 E	0.36	657.01	
4146.00	15.70	16.70	4052.64	630.15 N	239.05 E	0.99	673.97	
4208.00	15.80	15.60	4112.31	646.32 N	243.73 E	0.51	690.74	
4270.00	16.20	15.20	4171.91	662.79 N	248.27 E	0.67	707.76	
4334.00	18.10	18.40	4233.06	680.84 N	253.75 E	3.31	726.56	
4397.00	19.90	20.90	4292.63	700.15 N	260.66 E	3.14	747.08	
4492.00	22.10	20.90	4381.31	731.95 N	272.80 E	2.32	781.13	
4554.00	21.10	19.80	4438.96	753.35 N	280.75 E	1.74	803.95	
4616.00	18.60	21.90	4497.27	773.02 N	288.21 E	4.19	824.99	
4677.00	15.60	30.40	4555.58	789.13 N	296.00 E	6.39	842.81	
4739.00	14.20	40.60	4615.50	802.10 N	305.17 E	4.79	858.19	
4802.00	14.00	36.30	4676.60	814.11 N	314.71 E	1.69	872.80	
4866.00	15.70	27.20	4738.47	828.05 N	323.25 E	4.50	888.86	
4928.00	17.20	20.90	4797.94	844.08 N	330.36 E	3.76	906.36	
4989.00	18.50	17.40	4856.00	861.74 N	336.47 E	2.76	925.05	
5052.00	17.00	13.80	4916.00	880.22 N	341.65 E	2.95	944.17	
5115.00	14.60	11.40	4976.62	896.95 N	345.42 E	3.95	961.15	
5178.00	12.70	14.20	5037.84	911.45 N	348.69 E	3.19	975.87	
5240.00	13.20	23.30	5098.27	924.56 N	353.16 E	3.38	989.71	
5302.00	14.80	26.80	5158.42	938.13 N	359.53 E	2.92	1004.66	
5365.00	16.80	26.10	5219.04	953.49 N	367.17 E	3.19	1021.73	
5456.00	19.30	23.30	5305.56	979.12 N	378.90 E	2.91	1049.85	
5549.00	18.70	21.20	5393.49	1007.13 N	390.37 E	0.98	1080.11	
5612.00	18.70	20.20	5453.17	1026.03 N	397.51 E	0.51	1100.31	
5675.00	19.80	18.76	5512.64	1045.61 N	404.43 E	1.90	1121.07	
5737.00	21.18	17.36	5570.72	1066.24 N	411.15 E	2.36	1142.75	
5831.00	21.60	17.40	5658.24	1098.96 N	421.39 E	0.45	1176.97	
5893.00	21.90	18.10	5715.83	1120.84 N	428.40 E	0.64	1199.91	
5956.00	20.80	19.80	5774.51	1142.54 N	435.84 E	2.00	1222.84	
6018.00	19.30	22.30	5832.75	1162.37 N	443.45 E	2.79	1244.09	
6082.00	17.10	24.40	5893.54	1180.73 N	451.36 E	3.59	1264.05	ST1 TIED TO OH BHI MWD AT MD:6082'
6142.00	14.90	29.30	5951.22	1195.49 N	458.78 E	4.30	1280.49	ST1 BHI MWD 6142'-7981'
6180.00	13.00	38.80	5988.10	1203.09 N	463.85 E	7.82	1289.38	
6210.00	12.50	45.50	6017.36	1207.99 N	468.28 E	5.20	1295.54	
6242.00	12.40	50.40	6048.61	1212.61 N	473.39 E	3.31	1301.67	
6272.00	12.20	53.60	6077.92	1216.54 N	478.43 E	2.37	1307.13	
6304.00	12.60	53.20	6109.18	1220.64 N	483.94 E	1.28	1312.91	
6367.00	12.90	49.00	6170.62	1229.37 N	494.75 E	1.55	1324.91	
6430.00	13.90	40.20	6231.91	1239.77 N	504.95 E	3.60	1338.24	
6492.00	14.90	33.50	6291.97	1252.10 N	514.15 E	3.13	1353.03	
6553.00	15.30	29.30	6350.87	1265.66 N	522.42 E	1.91	1368.64	
6614.00	15.60	29.30	6409.66	1279.83 N	530.37 E	0.49	1384.71	
6676.00	15.90	30.00	6469.33	1294.46 N	538.70 E	0.57	1401.33	
6737.00	16.20	28.20	6527.96	1309.19 N	546.90 E	0.95	1418.02	
6799.00	16.60	27.60	6587.43	1324.66 N	555.09 E	0.70	1435.39	
6860.00	17.20	25.80	6645.80	1340.51 N	563.05 E	1.31	1453.02	
6923.00	18.00	25.90	6705.85	1357.65 N	571.36 E	1.27	1471.99	
6985.00	18.30	24.04	6764.76	1375.16 N	579.51 E	1.05	1491.25	

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1787.64 on azimuth 23.11 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 20.73 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ