

A Gyrodata Directional Survey

Marathon Oil Company
Well: INDIAN HILLS #30, 5" DRILLPIPE
Location: NABORS #311, EDDY COUNTY, NEW MEXICO
Job Number: MD0601GMO236

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2100.0	15.36	19.82	95.1	1.45	2090.2	96.0 28.4	84.43 N 45.61 E
2200.0	15.82	20.14	122.0	0.46	2186.5	122.6 26.5	109.68 N 54.80 E
2300.0	16.09	19.95	149.5	0.28	2282.7	150.0 25.4	135.51 N 64.22 E
2400.0	16.34	20.63	177.4	0.31	2378.7	177.8 24.6	161.70 N 73.90 E
2500.0	16.23	21.81	205.4	0.35	2474.7	205.8 24.1	187.84 N 84.05 E
2600.0	16.13	21.37	233.3	0.16	2570.7	233.6 23.8	213.76 N 94.30 E
2700.0	16.48	21.69	261.4	0.36	2666.7	261.7 23.6	239.88 N 104.61 E
2800.0	16.77	21.13	290.0	0.34	2762.5	290.3 23.3	266.52 N 115.06 E
2900.0	17.12	20.88	319.1	0.36	2858.2	319.4 23.1	293.74 N 125.50 E
3000.0	17.73	18.86	349.1	0.86	2953.6	349.3 22.9	321.90 N 135.67 E
3100.0	17.36	17.97	379.2	0.45	3048.9	379.4 22.5	350.50 N 145.20 E
3200.0	15.86	16.41	407.7	1.57	3144.8	407.9 22.1	377.80 N 153.66 E
3300.0	14.84	16.12	434.1	1.02	3241.2	434.2 21.8	403.21 N 161.08 E
3400.0	14.81	16.96	459.6	0.22	3337.9	459.7 21.5	427.73 N 168.36 E
3500.0	15.32	18.03	485.6	0.59	3434.4	485.6 21.3	452.52 N 176.18 E
3600.0	15.80	20.59	512.4	0.84	3530.8	512.4 21.2	477.82 N 185.05 E
3700.0	16.08	21.26	539.9	0.33	3626.9	539.9 21.2	503.47 N 194.86 E
3800.0	15.65	20.26	567.2	0.51	3723.1	567.2 21.1	529.03 N 204.55 E
3900.0	15.58	19.40	594.1	0.24	3819.4	594.1 21.1	554.35 N 213.68 E
4000.0	15.77	19.25	621.1	0.20	3915.7	621.1 21.0	579.85 N 222.63 E
4100.0	15.85	18.32	648.3	0.27	4011.9	648.3 20.9	605.64 N 231.40 E
4200.0	15.74	15.54	675.5	0.76	4108.2	675.5 20.8	631.68 N 239.33 E
4300.0	16.67	16.67	703.3	0.98	4204.2	703.3 20.6	658.48 N 247.08 E
4400.0	19.90	21.18	734.6	3.53	4299.1	734.6 20.5	688.10 N 257.34 E