

MARATHON OIL COMPANY
Hansen State #9, slot #1
Monument North, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Gyro/MWD
Last revised : 15-Jul-1999

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 E	0.00	0.00
99.70	0.22	17.58	99.70	0.06 E	0.22	0.18
200.80	0.24	279.17	200.80	0.09 W	0.34	0.40
300.20	0.18	272.08	300.20	0.45 W	0.07	0.44
400.60	0.26	256.22	400.60	0.83 W	0.10	0.39
500.10	0.27	261.21	500.10	1.28 W	0.03	0.30
600.40	0.33	277.62	600.40	1.80 W	0.10	0.30
700.20	0.34	278.14	700.19	2.38 W	0.01	0.38
800.10	0.31	299.89	800.09	2.91 W	0.13	0.56
900.40	0.12	269.12	900.39	3.25 W	0.22	0.69
1000.80	0.05	239.18	1000.79	3.39 W	0.08	0.67
1100.80	0.21	171.64	1100.79	3.40 W	0.20	0.47
1200.30	0.35	177.22	1200.29	3.36 W	0.14	-0.02
1301.10	0.30	207.58	1301.09	3.47 W	0.18	-0.56
1400.70	0.33	218.42	1400.69	3.77 W	0.07	-1.01
1500.80	0.25	249.26	1500.79	4.15 W	0.17	-1.32
1601.60	0.17	283.25	1601.58	4.50 W	0.14	-1.36
1700.30	0.21	345.87	1700.28	4.69 W	0.20	-1.15
1800.60	0.35	30.73	1800.58	4.58 W	0.25	-0.71
1900.80	0.63	45.81	1900.78	4.03 W	0.31	-0.06
2000.30	1.03	57.80	2000.27	2.88 W	0.44	0.79
2101.20	1.33	62.88	2101.15	1.07 W	0.31	1.81
2200.20	1.51	68.89	2200.12	1.17 E	0.24	2.80
2300.60	1.90	80.16	2300.47	4.05 E	0.51	3.57
2401.20	2.07	86.88	2401.01	7.50 E	0.29	3.95

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1814.50 on azimuth 356.73 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 0.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ