

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

SURVEY LISTING Page 2
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
2501.60	1.93	99.11	2501.35	3.78 N 10.98 E	0.45	3.78
2600.20	1.56	127.24	2599.91	2.71 N 13.69 E	0.93	2.71
2700.10	1.72	157.98	2699.77	0.49 N 15.34 E	0.88	0.49
2800.50	2.13	175.79	2800.11	2.77 S 16.04 E	0.72	-2.77
2900.50	2.57	181.45	2900.03	6.86 S 16.12 E	0.50	-6.86
3000.70	2.62	181.51	3000.13	11.39 S 16.00 E	0.05	-11.39
3100.70	2.70	185.41	3100.02	16.02 S 15.72 E	0.20	-16.02
3201.40	2.96	187.57	3200.60	20.96 S 15.15 E	0.28	-20.96
3300.00	3.18	188.98	3299.05	26.19 S 14.39 E	0.24	-26.19
3400.60	3.19	189.47	3399.50	31.70 S 13.49 E	0.03	-31.70
3501.10	3.06	192.76	3499.85	37.08 S 12.44 E	0.22	-37.08
3600.50	2.98	195.10	3599.11	42.16 S 11.18 E	0.15	-42.16
3700.70	3.06	195.72	3699.17	47.25 S 9.78 E	0.09	-47.25
3801.00	3.35	198.16	3799.31	52.61 S 8.14 E	0.32	-52.61
3901.10	3.51	197.89	3899.24	58.31 S 6.29 E	0.16	-58.31
4001.00	3.39	195.91	3998.95	64.06 S 4.54 E	0.17	-64.06
4100.10	3.21	194.39	4097.89	69.56 S 3.05 E	0.20	-69.56
4201.10	3.02	193.80	4198.74	74.89 S 1.71 E	0.19	-74.89
4301.60	2.67	196.21	4299.12	79.70 S 0.42 E	0.37	-79.70
4409.90	2.57	197.09	4407.30	84.45 S 0.99 W	0.10	-84.45
4500.10	2.42	198.78	4497.42	88.18 S 2.20 W	0.19	-88.18
4600.50	2.38	198.19	4597.73	92.17 S 3.54 W	0.05	-92.17
4700.10	2.25	199.54	4697.25	95.98 S 4.84 W	0.14	-95.98
4801.20	2.09	198.24	4798.28	99.60 S 6.08 W	0.17	-99.60
4901.00	1.79	201.06	4898.02	102.78 S 7.21 W	0.32	-102.78

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