

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

SURVEY LISTING Page 3
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
5000.40	1.86	206.43	4997.37	105.68 S 8.48 W	0.19	-105.68
5100.70	1.99	210.42	5097.61	108.63 S 10.09 W	0.19	-108.63
5200.50	2.15	210.72	5197.35	111.74 S 11.92 W	0.16	-111.74
5300.40	2.31	210.67	5297.17	115.08 S 13.91 W	0.16	-115.08
5401.20	2.45	210.18	5397.88	118.69 S 16.02 W	0.14	-118.69
5501.10	2.50	210.43	5497.69	122.42 S 18.20 W	0.05	-122.42
5601.10	2.46	212.68	5597.60	126.10 S 20.47 W	0.11	-126.10
5700.10	2.23	210.56	5696.51	129.55 S 22.59 W	0.25	-129.55
5800.50	1.71	209.98	5796.85	132.53 S 24.33 W	0.52	-132.53
5900.10	1.45	208.04	5896.42	134.93 S 25.67 W	0.27	-134.93
6000.50	1.24	197.14	5996.79	137.09 S 26.59 W	0.33	-137.09
6100.90	1.04	195.42	6097.17	139.00 S 27.15 W	0.20	-139.00
6200.50	0.97	193.98	6196.75	140.69 S 27.59 W	0.07	-140.69
6301.60	0.79	194.32	6297.84	142.20 S 27.97 W	0.18	-142.20
6401.20	0.80	190.49	6397.43	143.55 S 28.27 W	0.05	-143.55
6500.90	0.57	169.00	6497.13	144.72 S 28.30 W	0.34	-144.72
6601.40	0.56	166.63	6597.62	145.69 S 28.09 W	0.03	-145.69
6700.10	0.45	155.33	6696.32	146.51 S 27.82 W	0.15	-146.51
6800.00	0.42	155.16	6796.21	147.20 S 27.50 W	0.03	-147.20
6900.30	0.26	150.08	6896.51	147.73 S 27.23 W	0.16	-147.73
7000.10	0.38	149.02	6996.31	148.21 S 26.95 W	0.12	-148.21
7095.00	0.39	167.39	7091.21	148.79 S 26.72 W	0.13	-148.79
7120.00	2.60	0.00	7116.20	148.31 S 26.70 W	11.93	-148.31
7129.00	5.90	32.00	7125.18	147.71 S 26.45 W	43.81	-147.71
7140.00	11.10	32.90	7136.05	146.34 S 25.58 W	47.29	-146.34

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