

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

SURVEY LISTING Page 5
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
7602.00	96.70	357.40	7225.65	256.92 N	1.97	256.92
7633.00	96.50	357.30	7222.08	287.68 N	0.72	287.68
7664.00	96.70	356.90	7218.52	318.44 N	1.43	318.44
7695.00	96.80	357.10	7214.88	349.18 N	0.72	349.18
7726.00	96.50	356.80	7211.29	379.93 N	1.36	379.93
7757.00	96.00	356.50	7207.91	410.69 N	1.88	410.69
7788.00	95.10	356.00	7204.91	441.48 N	3.32	441.48
7819.00	95.30	355.80	7202.10	472.27 N	0.91	472.27
7850.00	95.40	356.11	7199.21	503.06 N	1.05	503.06
7882.00	95.50	356.10	7196.17	534.84 N	0.31	534.84
7913.00	96.60	356.20	7192.91	565.60 N	3.56	565.60
7944.00	96.10	355.70	7189.48	596.33 N	2.27	596.33
7976.00	95.70	355.00	7186.19	628.06 N	2.51	628.06
8007.00	97.10	355.10	7182.73	658.75 N	4.53	658.75
8039.00	97.20	358.00	7178.75	690.44 N	9.00	690.44
8070.00	96.80	357.80	7174.97	721.19 N	1.44	721.19
8101.00	96.70	357.90	7171.33	751.95 N	0.45	751.95
8133.00	98.70	359.40	7167.04	783.65 N	7.79	783.65
8165.00	98.50	358.70	7162.25	815.29 N	2.25	815.29
8196.00	98.70	358.20	7157.62	845.93 N	1.72	845.93
8228.00	98.40	358.50	7152.86	877.56 N	1.32	877.56
8259.00	97.50	358.30	7148.57	908.25 N	2.97	908.25
8291.00	96.50	357.80	7144.67	939.99 N	3.49	939.99
8322.00	96.00	357.40	7141.30	970.78 N	2.06	970.78
8354.00	95.90	357.30	7137.98	1002.57 N	0.44	1002.57

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