

MARATHON
 Royal State No. 1, slot #1
 UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
 Your ref :
 Last revised : 31-Jan-96

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	
3000.00	1.54	33.16	4998.19	77.21 N	73.80 E	0.23	77.21
3100.00	1.77	32.86	5098.14	79.63 N	75.38 E	0.22	79.63
3200.00	1.60	45.17	5198.10	81.91 N	77.20 E	0.40	81.91
3300.00	1.72	48.86	5298.06	83.88 N	79.33 E	0.16	83.88
3400.00	1.40	68.51	5398.02	85.32 N	81.60 E	0.62	85.32
5500.00	1.85	62.58	5497.98	86.51 N	84.17 E	0.48	86.51
5600.00	1.68	55.42	5597.94	88.09 N	86.81 E	0.28	88.09
5700.00	1.53	55.03	5697.90	89.69 N	89.11 E	0.14	89.69
5800.00	1.05	64.62	5797.87	90.85 N	91.04 E	0.53	90.85
5823.00	1.60	57.43	5820.86	91.11 N	91.50 E	2.47	91.11 GYRO F / SURFACE
5849.00	0.80	83.10	5846.86	91.33 N	91.98 E	3.62	91.33 STEERING TOOL
5885.00	0.40	171.50	5882.86	91.23 N	92.25 E	2.46	91.23
5912.00	0.90	228.00	5909.86	91.00 N	92.11 E	2.80	91.00
5946.00	2.00	244.00	5943.84	90.56 N	91.38 E	3.42	90.56
5972.00	3.00	249.50	5969.82	90.12 N	90.33 E	3.95	90.12
6072.00	4.80	270.00	6069.59	89.21 N	83.70 E	2.25	89.21 SINGLE SHOT
6172.00	5.25	268.00	6169.20	89.05 N	74.94 E	0.48	89.05
6272.00	6.00	268.00	6268.72	88.70 N	65.14 E	0.75	88.70
6442.00	6.70	268.00	6437.68	88.05 N	46.35 E	0.41	88.05
6505.00	6.70	274.00	6500.25	88.18 N	39.01 E	1.11	88.18
6550.00	6.00	269.00	6593.67	88.47 N	28.63 E	0.95	88.47
6691.00	5.50	274.00	6685.21	88.70 N	19.42 E	0.77	88.70
6783.00	5.20	272.00	6776.81	89.15 N	10.86 E	0.38	89.15
6882.00	5.00	264.00	6875.42	88.86 N	2.09 E	0.74	88.86
6940.00	4.50	274.00	6933.22	88.75 N	2.70 W	1.66	88.75

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from wellhead.
 Vertical section is from wellhead on azimuth 0.00 degrees.
 Declination is 0.00 degrees, Convergence is -0.82 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ