

MARATHON OIL COMPANY
 North Indian Basin Unit No. 11, slot #1
 NIBU, Eddy County New Mexico

SURVEY LISTING Page 1
 Your ref : MWD Survey
 Last revised : 19-Nov-98

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
7600.00	2.18	83.82	7596.87	121.67 N 103.55 W	0.00	12.81
7666.00	5.30	44.00	7662.73	124.00 N 100.18 W	5.89	16.84
7681.00	9.20	59.70	7677.61	125.10 N 98.67 W	28.93	18.69
7696.00	14.10	82.20	7692.30	125.96 N 95.82 W	43.97	21.31
7713.00	19.80	82.70	7708.56	126.60 N 90.91 W	33.54	25.24
7728.00	25.90	70.80	7722.38	128.01 N 85.28 W	50.83	30.21
7745.00	33.00	68.40	7737.18	130.94 N 77.46 W	42.33	37.81
7760.00	39.10	62.40	7749.30	134.64 N 69.46 W	46.95	46.08
7776.00	45.10	53.50	7761.18	140.35 N 60.42 W	52.82	56.52
7791.00	49.90	44.20	7771.32	147.64 N 52.14 W	55.74	67.53
7807.00	55.20	40.50	7781.05	157.03 N 43.59 W	37.86	80.21
7822.00	58.90	47.50	7789.21	166.06 N 34.85 W	46.26	92.78
7838.00	63.60	45.60	7796.91	175.71 N 24.67 W	31.16	106.80
7853.00	67.80	43.70	7803.08	185.44 N 15.07 W	30.28	120.47
7870.00	72.50	49.80	7808.85	196.37 N 3.43 W	43.62	136.44
7885.00	76.70	48.90	7812.84	205.79 N 7.54 E	28.59	150.85
7900.00	80.10	48.30	7815.85	215.51 N 18.56 E	23.00	165.51
7906.00	81.20	50.30	7816.83	219.37 N 23.05 E	37.65	171.42
7911.00	82.50	50.30	7817.54	222.53 N 26.86 E	26.00	176.35
7916.00	83.20	49.30	7818.16	225.73 N 30.65 E	24.29	181.29
7921.00	84.30	47.10	7818.70	229.05 N 34.35 E	48.96	186.25
7925.00	85.00	46.00	7819.08	231.78 N 37.24 E	32.49	190.23
7931.00	85.90	45.90	7819.55	235.94 N 41.54 E	15.09	196.21
7950.00	91.60	51.30	7819.97	248.49 N 55.78 E	41.31	215.16
7962.00	91.80	54.10	7819.61	255.76 N 65.32 E	23.38	227.04

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 1504.56 on azimuth 44.84 degrees from wellhead.
 Vertical section is from wellhead on azimuth 45.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ