

A Gyrodata Directional Survey

Yates Petroleum

Well: GRAHM AKB STATE #4, 2-7/8" TUBING

Location: KEY #283, LEA COUNTY, NEW MEXICO

Job Number: MD0901GMW342

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4200.0	1.71	352.09	N 7 55 W	0.73	4196.8	86.8 22.0	80.48 N 32.58 E
4400.0	1.26	14.64	N 14 38 E	0.37	4396.7	91.6 20.9	85.56 N 32.72 E
4600.0	1.00	19.19	N 19 12 E	0.14	4596.7	95.5 20.8	89.32 N 33.85 E
4800.0	0.98	17.32	N 17 19 E	0.02	4796.6	99.0 20.7	92.59 N 34.92 E
5000.0	0.81	11.29	N 11 17 E	0.09	4996.6	102.1 20.5	95.61 N 35.71 E
5200.0	0.67	2.90	N 2 54 E	0.09	5196.6	104.6 20.2	98.15 N 36.04 E
5400.0	0.55	349.26	N 10 45 W	0.09	5396.6	106.5 19.7	100.26 N 35.92 E
5600.0	0.56	348.39	N 11 37 W	0.01	5596.6	108.2 19.2	102.17 N 35.55 E
5800.0	0.49	338.11	N 21 54 W	0.06	5796.6	109.7 18.6	103.92 N 35.03 E
6000.0	0.54	337.46	N 22 32 W	0.03	5996.6	111.0 18.0	105.58 N 34.35 E
6200.0	0.48	319.01	N 40 59 W	0.09	6196.5	112.2 17.3	107.09 N 33.44 E
6400.0	0.49	318.38	N 41 37 W	0.00	6396.5	113.1 16.6	108.37 N 32.31 E
6600.0	0.63	313.43	N 46 34 W	0.08	6596.5	114.0 15.7	109.77 N 30.94 E
6800.0	0.68	285.18	N 74 49 W	0.16	6796.5	114.6 14.7	110.84 N 28.99 E
7000.0	0.93	284.18	N 75 49 W	0.13	6996.5	114.6 13.2	111.55 N 26.26 E
7200.0	1.01	290.66	N 69 21 W	0.07	7196.5	114.9 11.6	112.57 N 23.03 E
7400.0	0.78	274.83	N 85 10 W	0.17	7396.4	115.1 10.0	113.31 N 20.02 E
7600.0	0.81	266.67	S 86 40 W	0.06	7596.4	114.6 8.7	113.35 N 17.25 E
7700.0	0.91	272.14	N 87 51 W	0.13	7696.4	114.4 7.9	113.33 N 15.75 E

Final Station Closure: Distance: 114.42 ft Az: 7.91 deg.