

A Gyrodata Directional Survey

Yates Petroleum

Well: ALAR AYL STATE #1, 4-1/2" DRILLPIPE

Location: PATTERSON #56, LEA COUNTY, NEW MEXICO

Job Number: MD0701GMW271

MEASURED DEPTH feet	I N C L deg.	A Z I M U T H deg.	V E R T I C A L S E C T I O N feet	D O G L E G S E V E R I T Y deg./ 100 ft.	V E R T I C A L D E P T H feet	C L O S U R E D I S T . A Z I M U T H feet deg.	H O R I Z O N T A L C O O R D I N A T E S feet
4200.0	1.32	287.14	-5.7	0.11	4199.8	9.0 228.0	6.03 S 6.71 W
4400.0	1.37	284.12	-10.4	0.04	4399.8	12.2 246.9	4.78 S 11.22 W
4600.0	1.38	281.42	-15.2	0.03	4599.7	16.3 256.8	3.72 S 15.90 W
4800.0	1.47	276.60	-20.1	0.08	4799.7	21.0 262.0	2.94 S 20.81 W
5000.0	1.44	272.93	-25.2	0.05	4999.6	26.0 264.4	2.52 S 25.87 W
5200.0	1.42	280.07	-30.2	0.09	5199.5	30.9 266.4	1.96 S 30.83 W
5400.0	1.41	286.56	-35.1	0.08	5399.5	35.6 268.7	0.82 S 35.64 W
5600.0	1.46	288.41	-40.1	0.03	5599.4	40.4 271.0	0.69 N 40.42 W
5800.0	1.44	279.24	-45.1	0.12	5799.4	45.4 272.4	1.90 N 45.31 W
6000.0	1.33	271.22	-49.9	0.11	5999.3	50.2 272.7	2.35 N 50.11 W
6200.0	1.23	267.79	-54.3	0.06	6199.2	54.6 272.4	2.31 N 54.58 W
6400.0	1.02	264.56	-58.1	0.11	6399.2	58.5 272.0	2.06 N 58.50 W
6600.0	0.68	266.59	-61.0	0.17	6599.2	61.5 271.7	1.82 N 61.46 W
6800.0	0.65	278.22	-63.3	0.07	6799.2	63.8 271.7	1.92 N 63.77 W
7000.0	0.58	280.38	-65.5	0.04	6999.2	65.9 272.0	2.26 N 65.89 W
7200.0	0.52	293.13	-67.4	0.07	7199.1	67.8 272.4	2.80 N 67.72 W
7400.0	0.66	298.65	-69.3	0.08	7399.1	69.7 273.0	3.71 N 69.56 W
7600.0	0.30	323.86	-70.8	0.21	7599.1	71.0 273.8	4.68 N 70.89 W
7800.0	0.47	101.98	-70.3	0.36	7799.1	70.6 274.0	4.93 N 70.38 W
8000.0	0.77	105.07	-68.2	0.15	7999.1	68.4 273.7	4.41 N 68.27 W
8200.0	0.92	116.19	-65.3	0.11	8199.1	65.6 272.9	3.36 N 65.54 W
8400.0	1.11	119.10	-62.0	0.10	8399.1	62.4 271.6	1.71 N 62.41 W
8600.0	1.96	112.43	-56.8	0.43	8599.0	57.6 269.5	0.54 S 57.55 W
8800.0	2.07	108.57	-49.9	0.09	8798.9	51.1 266.6	3.00 S 50.97 W

