

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 SECTION feet	D O G L E G SEVERITY deg./ 100 ft.	V E R T I C A L DEPTH 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
0.0	0.00	0.00	0.0	0.00	0.0	0.0 0.0	0.00 N 0.00 E
0 - 9800 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON #56 R.K.B.							
200.0	0.23	347.23	-0.1	0.12	200.0	0.4 347.2	0.40 N 0.09 W
400.0	0.18	177.07	-0.2	0.21	400.0	0.5 341.1	0.48 N 0.16 W
600.0	0.25	164.07	0.0	0.04	600.0	0.3 185.6	0.26 S 0.03 W
800.0	0.39	142.74	0.7	0.09	800.0	1.3 157.5	1.24 S 0.51 E
1000.0	0.52	162.63	1.6	0.10	1000.0	2.9 155.7	2.65 S 1.20 E
1200.0	0.49	201.01	1.8	0.17	1200.0	4.5 164.9	4.33 S 1.16 E
1400.0	0.60	218.96	1.1	0.10	1400.0	6.0 178.1	5.95 S 0.19 E
1600.0	0.52	211.38	0.2	0.05	1600.0	7.6 187.1	7.55 S 0.95 W
1800.0	0.40	189.85	-0.2	0.11	1800.0	9.2 189.7	9.02 S 1.54 W
2000.0	0.60	175.03	0.1	0.12	1999.9	10.9 188.3	10.76 S 1.57 W
2200.0	0.35	192.35	0.3	0.14	2199.9	12.5 187.4	12.40 S 1.61 W
2400.0	0.44	63.17	0.8	0.36	2399.9	12.7 184.8	12.65 S 1.06 W
2600.0	0.55	51.84	2.1	0.08	2599.9	11.7 178.1	11.71 S 0.38 E
2800.0	0.50	54.70	3.4	0.03	2799.9	10.8 170.1	10.60 S 1.86 E
3000.0	0.29	30.92	4.2	0.13	2999.9	10.1 163.7	9.67 S 2.83 E
3200.0	0.12	302.10	4.2	0.15	3199.9	9.6 162.4	9.13 S 2.90 E
3400.0	0.23	266.77	3.6	0.08	3399.9	9.3 165.6	9.04 S 2.32 E
3600.0	0.28	274.95	2.8	0.03	3599.9	9.1 171.0	9.02 S 1.42 E
3800.0	0.58	294.96	1.3	0.17	3799.9	8.5 179.9	8.55 S 0.02 E
4000.0	1.11	291.29	-1.6	0.27	3999.9	7.9 200.1	7.42 S 2.71 W