

A Gyrodata Directional Survey

Yates Petroleum
 Well: ARREGUY NO. 1, 2-7/8" DRILLPIPE
 Location: PATTERSON #49, LEA COUNTY, NEW MEXICO
 Job Number: MD0800GMW223

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
0.0	0.00	0.00	N 0 0 E	0.00	0.0	0.0	0.0	0.00 N 0.00 E

0 - 11900 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 2-7/8" DRILLPIPE								
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON #49 R.K.B.								

200.0	0.34	16.17	N 16 10 E	0.17	200.0	0.6	16.2	0.57 N 0.17 E
400.0	1.01	46.87	N 46 52 E	0.37	400.0	2.8	34.5	2.35 N 1.61 E
600.0	1.36	44.78	N 44 47 E	0.18	599.9	7.0	41.1	5.24 N 4.57 E
800.0	1.92	50.57	N 50 34 E	0.29	799.9	12.6	44.3	9.05 N 8.83 E
1000.0	2.24	58.29	N 58 17 E	0.21	999.7	19.8	48.1	13.23 N 14.75 E
1200.0	1.60	59.37	N 59 22 E	0.32	1199.6	26.4	50.8	16.71 N 20.48 E
1400.0	0.81	46.15	N 46 9 E	0.42	1399.6	30.6	51.3	19.12 N 23.90 E
1600.0	0.52	37.90	N 37 54 E	0.15	1599.6	32.9	50.8	20.82 N 25.48 E
1800.0	0.37	357.16	N 2 50 W	0.17	1799.5	34.2	49.6	22.18 N 26.01 E
2000.0	0.50	327.66	N 32 20 W	0.13	1999.5	34.7	47.3	23.55 N 25.52 E
2200.0	0.47	328.83	N 31 10 W	0.01	2199.5	35.1	44.6	24.99 N 24.62 E
2400.0	0.92	40.13	N 40 8 E	0.44	2399.5	36.9	43.1	26.92 N 25.23 E
2600.0	1.30	49.46	N 49 27 E	0.21	2599.5	40.8	43.4	29.63 N 27.99 E
2800.0	1.46	61.27	N 61 16 E	0.16	2799.4	45.5	44.7	32.34 N 31.96 E
3000.0	1.06	59.00	N 59 0 E	0.20	2999.4	49.7	46.0	34.52 N 35.79 E
3200.0	0.72	72.38	N 72 23 E	0.20	3199.4	52.7	47.1	35.86 N 38.58 E
3400.0	0.40	89.51	N 89 31 E	0.18	3399.3	54.3	48.2	36.24 N 40.48 E
3600.0	0.38	93.42	S 86 35 E	0.02	3599.3	55.3	49.1	36.21 N 41.84 E
3800.0	0.45	105.18	S 74 49 E	0.06	3799.3	56.3	50.3	35.97 N 43.26 E
4000.0	0.35	112.18	S 67 49 E	0.06	3999.3	57.0	51.4	35.53 N 44.58 E