

A Gyrodata Directional Survey

Yates Petroleum

Well: KOALA AXZ STATE #1, 4-1/2" DRILLPIPE

Location: PATTERSON-UTI #504, LEA COUNTY, NEW MEXICO

Job Number: MD0801GMW305

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet 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 - 13211 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON-UTI #504 R.K.B.							
200.0	0.59	251.23	S 71 14 W	0.29	200.0	1.0 251.2	0.33 S 0.97 W
400.0	0.58	246.10	S 66 6 W	0.03	400.0	3.1 249.5	1.07 S 2.87 W
600.0	0.67	256.78	S 76 47 W	0.07	600.0	5.2 250.5	1.75 S 4.95 W
800.0	0.55	254.65	S 74 39 W	0.06	800.0	7.4 252.0	2.27 S 7.01 W
1000.0	0.38	276.70	N 83 18 W	0.12	1000.0	8.9 254.1	2.45 S 8.59 W
1200.0	0.29	256.93	S 76 56 W	0.07	1200.0	10.1 255.7	2.49 S 9.74 W
1400.0	0.38	287.08	N 72 55 W	0.10	1399.9	11.1 257.5	2.41 S 10.87 W
1600.0	0.20	279.28	N 80 43 W	0.09	1599.9	12.0 259.7	2.16 S 11.85 W
1800.0	0.17	333.93	N 26 4 W	0.09	1799.9	12.5 261.5	1.84 S 12.33 W
2000.0	0.27	248.99	S 69 0 W	0.15	1999.9	13.0 262.3	1.74 S 12.90 W
2200.0	0.07	168.92	S 11 5 E	0.13	2199.9	13.5 261.3	2.04 S 13.31 W
2400.0	0.23	112.64	S 67 22 E	0.10	2399.9	13.1 259.8	2.32 S 12.91 W
2600.0	0.07	183.37	S 3 22 W	0.11	2599.9	12.8 258.3	2.60 S 12.53 W
2800.0	0.16	276.41	N 83 35 W	0.09	2799.9	13.1 258.1	2.69 S 12.82 W
3000.0	0.27	301.47	N 58 32 W	0.07	2999.9	13.7 259.9	2.42 S 13.49 W
3200.0	0.40	78.69	N 78 41 E	0.31	3199.9	13.4 261.3	2.03 S 13.22 W
3400.0	0.34	41.21	N 41 12 E	0.12	3399.9	12.2 263.2	1.44 S 12.15 W
3600.0	0.22	129.94	S 50 4 E	0.20	3599.9	11.5 263.8	1.24 S 11.45 W
3800.0	0.39	207.27	S 27 16 W	0.20	3799.9	11.7 259.6	2.10 S 11.47 W
4000.0	0.38	196.08	S 16 5 W	0.04	3999.9	12.4 254.4	3.35 S 11.97 W