

A Gyrodata Directional Survey

POGO PRODUCERS

Well: W.B. FEDERAL NO. 5

Location: TMBR/SHARP #23, EDDY COUNTY, NEW MEXICO

Job Number: MD0101GMW106

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 - 13000 FT. RATE GYROSCOPIC MULTISHOT SURVEY

ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO TMBR/SHARP #23 R.K.B.

100.0	0.21	19.00	N 19 0 E	0.21	100.0	0.2 19.0	0.17 N 0.06 E
200.0	0.22	285.26	N 74 45 W	0.31	200.0	0.4 351.0	0.40 N 0.06 W
300.0	0.28	160.57	S 19 26 E	0.44	300.0	0.3 322.8	0.22 N 0.16 W
400.0	0.35	35.88	N 35 53 E	0.56	400.0	0.2 22.7	0.23 N 0.10 E
500.0	0.47	13.51	N 13 31 E	0.20	500.0	1.0 22.9	0.88 N 0.37 E
600.0	0.60	351.14	N 8 51 W	0.24	600.0	1.8 12.1	1.80 N 0.39 E
700.0	0.56	350.27	N 9 44 W	0.04	700.0	2.8 4.5	2.80 N 0.22 E
800.0	0.53	349.40	N 10 36 W	0.04	800.0	3.7 0.8	3.73 N 0.05 E
900.0	0.43	356.59	N 3 25 W	0.11	900.0	4.6 359.3	4.56 N 0.05 W
1000.0	0.33	3.78	N 3 47 E	0.11	1000.0	5.2 359.4	5.22 N 0.06 W
1100.0	0.23	90.79	S 89 13 E	0.39	1100.0	5.5 1.7	5.51 N 0.16 E
1200.0	0.12	177.79	S 2 13 E	0.25	1200.0	5.4 3.8	5.40 N 0.36 E
1300.0	0.22	246.78	S 66 47 W	0.21	1300.0	5.2 2.1	5.22 N 0.19 E
1400.0	0.31	315.77	N 44 14 W	0.31	1400.0	5.3 358.1	5.34 N 0.17 W
1500.0	0.33	167.79	S 12 12 E	0.62	1500.0	5.3 356.7	5.25 N 0.30 W
1600.0	0.35	19.81	N 19 49 E	0.66	1600.0	5.3 358.5	5.26 N 0.14 W
1700.0	0.41	32.75	N 32 45 E	0.10	1700.0	5.9 1.6	5.85 N 0.16 E
1800.0	0.47	45.69	N 45 41 E	0.11	1800.0	6.5 5.8	6.44 N 0.65 E
1900.0	0.49	57.76	N 57 45 E	0.10	1900.0	7.1 10.6	6.96 N 1.31 E
2000.0	0.51	69.83	N 69 50 E	0.11	2000.0	7.6 15.9	7.34 N 2.09 E