

A Gyrodata Directional Survey

Yates Petroleum

Well: LOWE STAPLES AWR FED #1, 7-1/2" CASING

Location: PATTERSON/UTI #512, EDDY COUNTY NEW MEXICO

Job Number: MD0601GMW228

MEASURED DEPTH feet	IN C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2100.0	1.20	282.98	N 77 1 W	0.11	2099.9	5.8 287.6	1.76 N 5.55 W
2200.0	1.18	288.26	N 71 44 W	0.11	2199.9	7.9 287.1	2.32 N 7.55 W
2300.0	1.07	284.23	N 75 46 W	0.14	2299.9	9.9 287.0	2.87 N 9.43 W
2400.0	0.87	290.37	N 69 38 W	0.23	2399.9	11.5 287.0	3.36 N 11.04 W
2500.0	0.90	290.16	N 69 50 W	0.04	2499.8	13.1 287.3	3.90 N 12.48 W
2600.0	0.77	292.54	N 67 27 W	0.14	2599.8	14.5 287.7	4.43 N 13.84 W
2700.0	0.63	295.55	N 64 27 W	0.14	2699.8	15.7 288.2	4.92 N 14.95 W
2800.0	0.52	308.63	N 51 22 W	0.17	2799.8	16.7 289.0	5.44 N 15.80 W
2900.0	0.33	309.28	N 50 43 W	0.19	2899.8	17.4 289.8	5.90 N 16.38 W
3000.0	0.38	306.21	N 53 47 W	0.06	2999.8	18.0 290.4	6.28 N 16.87 W
3100.0	0.41	301.30	N 58 42 W	0.04	3099.8	18.7 290.9	6.67 N 17.44 W
3200.0	0.43	327.39	N 32 37 W	0.19	3199.8	19.3 291.8	7.16 N 17.95 W
3300.0	0.31	301.17	N 58 50 W	0.20	3299.8	19.9 292.5	7.62 N 18.38 W
3400.0	0.27	323.90	N 36 6 W	0.12	3399.8	20.4 293.0	7.95 N 18.75 W
3500.0	0.23	282.89	N 77 6 W	0.18	3499.8	20.8 293.2	8.19 N 19.08 W
3600.0	0.13	272.10	N 87 54 W	0.11	3599.8	21.1 293.0	8.24 N 19.39 W
3700.0	0.24	280.44	N 79 33 W	0.12	3699.8	21.4 292.8	8.28 N 19.71 W
3800.0	0.33	288.70	N 71 18 W	0.10	3799.8	21.9 292.6	8.41 N 20.19 W
3900.0	0.30	253.59	S 73 35 W	0.19	3899.8	22.4 292.1	8.43 N 20.71 W
4000.0	0.21	216.16	S 36 10 W	0.18	3999.8	22.6 291.3	8.21 N 21.06 W

Final Station Closure: Distance: 22.61 ft Az: 291.29 deg.