

A Gyrodata Directional Survey

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VOLUME PETROLIUM

WELL: LOWE STAPLES AWR FED #1, 7 1/2" CASING
Location: PATTERSON/UTI #512, EDDY COUNTY N.M.
Job Number: MD0601GMW228

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL DEPTH feet	H O R I Z O N T A L C O O R D I N A T E S feet		DOGLEG SEVERITY deg. / 100 ft.
0.0	0.00	0.00	0.0	0.00 N	0.00 E	0.00

RATE GYROSCOPIC MULTISHOT RUN INSIDE 7 1/2" CASING
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON/UTI #512

100.0	.47	276.87	100.0	.05 N	.40 W	.47
200.0	.55	271.00	200.0	.11 N	1.28 W	.10
300.0	.26	252.40	300.0	.05 N	1.97 W	.31
400.0	.27	212.02	400.0	.22 S	2.32 W	.18
500.0	.50	182.40	500.0	.86 S	2.46 W	.29
600.0	.56	147.92	600.0	1.71 S	2.22 W	.32
700.0	.95	126.41	700.0	2.62 S	1.29 W	.48
800.0	.10	79.77	800.0	3.09 S	.54 W	.89
900.0	.12	156.79	900.0	3.18 S	.41 W	.14
1000.0	.33	168.23	1000.0	3.56 S	.31 W	.21
1100.0	.14	216.77	1100.0	3.93 S	.32 W	.26
1200.0	.22	19.57	1200.0	3.85 S	.33 W	.36
1300.0	.52	353.39	1300.0	3.22 S	.32 W	.33
1400.0	.48	357.89	1400.0	2.35 S	.39 W	.05
1500.0	.56	354.20	1500.0	1.44 S	.45 W	.08
1600.0	.52	352.00	1600.0	.51 S	.56 W	.05
1700.0	.41	331.65	1700.0	.25 N	.79 W	.19
1800.0	.34	297.12	1799.9	.70 N	1.23 W	.23
1900.0	.69	281.28	1899.9	.95 N	2.09 W	.37
2000.0	1.09	283.91	1999.9	1.30 N	3.60 W	.41
2100.0	1.20	282.98	2099.9	1.76 N	5.55 W	.11
2200.0	1.18	288.26	2199.9	2.32 N	7.55 W	.11
2300.0	1.07	284.23	2299.9	2.87 N	9.43 W	.14
2400.0	.87	290.37	2399.9	3.36 N	11.04 W	.23
2500.0	.90	290.16	2499.8	3.90 N	12.48 W	.04
2600.0	.77	292.54	2599.8	4.43 N	13.84 W	.14
2700.0	.63	295.55	2699.8	4.92 N	14.95 W	.14
2800.0	.52	308.63	2799.8	5.44 N	15.80 W	.17
2900.0	.33	309.28	2899.8	5.90 N	16.38 W	.19
3000.0	.38	306.21	2999.8	6.28 N	16.87 W	.06
3100.0	.41	301.30	3099.8	6.67 N	17.44 W	.04
3200.0	.43	327.39	3199.8	7.16 N	17.95 W	.19
3300.0	.31	301.17	3299.8	7.62 N	18.38 W	.20
3400.0	.27	323.90	3399.8	7.95 N	18.75 W	.12
3500.0	.23	282.89	3499.8	8.19 N	19.08 W	.18
3600.0	.13	272.10	3599.8	8.24 N	19.39 W	.11
3700.0	.04	280.44	3699.8	8.28 N	19.71 W	.12