

100.0	.32	300.93	N 59 4 W	.32	100.0	.1	.3	300.9	.14 N	.24 W
200.0	.33	337.24	N 22 45 W	.20	200.0	.6	.8	313.2	.56 N	.60 W
300.0	.53	309.72	N 50 17 W	.28	300.0	1.1	1.5	316.5	1.12 N	1.06 W
400.0	.25	337.35	N 22 39 W	.33	400.0	1.6	2.2	317.1	1.62 N	1.50 W
500.0	.49	348.33	N 11 40 W	.24	500.0	2.2	2.8	323.2	2.24 N	1.67 W
600.0	.26	311.53	N 40 20 W	.32	600.0	2.8	3.4	325.5	2.80 N	1.93 W
700.0	.44	.69	N 0 42 E	.34	700.0	3.3	3.9	327.9	3.34 N	2.09 W
800.0	.10	27.71	N 27 42 E	.36	800.0	3.8	4.3	331.7	3.81 N	2.05 W
900.0	.47	7.40	N 7 24 E	.37	900.0	4.3	4.7	335.5	4.29 N	1.95 W
1000.0	.33	75.90	N 75 54 E	.46	1000.0	4.8	5.0	341.2	4.76 N	1.62 W
1100.0	.10	76.79	N 76 47 E	.23	1100.0	4.9	5.0	345.4	4.85 N	1.26 W
1200.0	.30	12.69	N 12 41 E	.27	1200.0	5.1	5.2	347.7	5.13 N	1.12 W
1300.0	.30	36.51	N 36 31 E	.12	1300.0	5.6	5.7	350.8	5.60 N	.90 W
1400.0	.08	35.89	N 35 53 E	.22	1400.0	5.9	5.9	353.1	5.87 N	.71 W
1500.0	.14	257.94	S 77 56 W	.21	1500.0	5.9	5.9	352.4	5.90 N	.79 W
1600.0	.37	249.76	S 69 45 W	.23	1600.0	5.8	5.9	348.1	5.76 N	1.21 W
1700.0	.48	201.37	S 21 22 W	.36	1700.0	5.3	5.5	342.4	5.26 N	1.66 W
1800.0	.54	218.62	S 38 37 W	.16	1800.0	4.5	5.0	334.9	4.50 N	2.11 W
1900.0	.31	282.70	N 77 18 W	.49	1900.0	4.2	5.0	327.6	4.19 N	2.67 W
2000.0	.12	83.83	N 83 50 E	.43	2000.0	4.3	5.1	326.5	4.26 N	2.82 W
2100.0	.32	265.64	S 85 38 W	.45	2100.0	4.3	5.2	324.9	4.25 N	2.99 W
2200.0	.30	242.21	S 62 13 W	.15	2200.0	4.1	5.4	318.0	4.08 N	3.57 W
2300.0	.35	223.48	S 43 29 W	.12	2300.0	3.7	5.5	312.3	3.71 N	4.07 W
2400.0	.57	196.56	S 16 33 W	.30	2400.0	3.0	5.3	304.3	3.01 N	4.42 W
2500.0	.63	233.13	S 53 8 W	.38	2500.0	2.2	5.3	293.9	2.21 N	5.00 W
2600.0	.30	260.63	S 88 38 W	.39	2600.0	1.9	6.1	288.0	1.87 N	5.77 W
2700.0	.30	292.36	N 67 30 W	.16	2700.0	2.0	6.7	287.3	1.99 N	6.40 W
2800.0	.44	302.41	N 57 35 W	.09	2799.9	2.3	7.4	288.3	2.32 N	7.02 W
2900.0	.44	309.74	N 50 15 W	.06	2899.9	2.8	8.1	289.9	2.77 N	7.64 W
3000.0	.35	316.21	N 43 47 W	.11	2999.9	3.2	8.8	291.7	3.23 N	8.15 W
3100.0	.44	13.55	N 13 33 E	.39	3099.9	3.8	9.1	294.8	3.83 N	8.27 W
3200.0	.22	318.72	N 41 17 W	.36	3199.9	4.3	9.4	297.6	4.34 N	8.30 W
3300.0	.46	17.04	N 17 50 E	.40	3299.9	4.9	9.6	300.4	4.87 N	8.31 W
3400.0	.48	63.44	N 63 27 E	.36	3399.9	5.4	9.5	304.0	5.44 N	7.01 W
3500.0	.30	59.83	N 59 2 E	.10	3499.9	5.8	9.2	308.6	5.76 N	7.22 W
3600.0	.48	62.89	N 62 53 E	.19	3599.9	6.1	9.0	312.6	6.08 N	6.62 W
3700.0	.39	61.09	N 61 53 E	.10	3699.9	6.4	8.8	317.3	6.44 N	5.95 W

A Gyrodata Directional Survey

DATE/DATE/

WELL: AND CON, 4 1/2"

Page 2

Location: UTI #164, LEB COUNTY, NEW MEXICO

Job Number: MD010106124

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	VERTICAL SECTION feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
3800.0	.26	98.20	S 81 43 E	.24	3799.9	6.6	8.5 320.4	6.56 N 5.42 W
3900.0	.26	227.78	S 47 47 W	.47	3899.9	6.4	8.3 319.9	6.38 N 5.37 W
4000.0	.25	309.62	N 50 23 W	.33	3999.9	6.4	8.6 318.2	6.37 N 5.70 W
4100.0	.25	271.42	N 00 35 W	.17	4099.9	6.5	8.9 316.9	6.52 N 6.05 W
4200.0	.22	332.05	N 27 9 W	.24	4199.9	6.7	9.3 316.3	6.69 N 6.40 W
4300.0	.19	262.45	S 82 27 W	.24	4299.9	6.8	9.5 315.0	6.85 N 6.66 W
4400.0	.31	275.90	N 04 6 W	.13	4399.9	6.9	9.9 314.0	6.85 N 7.09 W
4500.0	.26	293.15	N 66 51 W	.10	4499.9	7.0	10.3 312.7	6.97 N 7.36 W
4600.0	.27	300.41	N 59 35 W	.03	4599.9	7.2	10.7 312.0	7.18 N 7.97 W
4700.0	.27	252.28	S 72 17 W	.22	4699.9	7.2	11.1 310.7	7.22 N 8.39 W
4800.0	.17	61.55	N 61 33 E	.44	4799.9	7.2	11.1 310.4	7.22 N 8.49 W
4900.0	.16	128.63	S 51 22 E	.10	4899.9	7.2	11.0 311.1	7.20 N 8.25 W
5000.0	.24	38.21	N 38 13 E	.29	4999.9	7.3	10.8 312.3	7.28 N 8.01 W
5100.0	.20	87.05	N 87 3 E	.19	5099.9	7.5	10.7 314.1	7.46 N 7.71 W
5200.0	.27	239.30	S 59 23 W	.46	5199.9	7.3	10.7 313.5	7.33 N 7.74 W
5300.0	.31	336.79	N 23 13 W	.44	5299.9	7.5	11.0 312.9	7.47 N 8.05 W
5400.0	.34	326.02	N 33 59 W	.07	5399.9	8.0	11.5 313.8	7.97 N 8.32 W
5500.0	.20	7.66	N 7 40 E	.24	5499.9	8.4	11.9 314.8	8.40 N 8.47 W
5600.0	.13	22.25	N 22 15 E	.00	5599.9	8.7	12.1 315.9	8.68 N 8.40 W
5700.0	.44	284.06	N 75 56 W	.40	5699.9	8.9	12.5 315.3	8.88 N 8.73 W
5800.0	.63	264.59	S 04 35 W	.26	5799.9	8.9	13.1 312.0	8.92 N 9.65 W
5900.0	.77	254.20	S 70 17 W	.12	5899.9	8.7	17.0 290.0	8.74 N 10.84 W