

A Gyro data Directional Survey

Page 1

BURLINGTON RESOURCES

WELL: FEDERAL #1 (Justin's "28" Federal #4)

Location: PATTERSON 75 JUSTIS ABO, LEA CO. N.M.

Job Number: H0897GBM547

MEASURED I N C L AZIMUTH BORE HOLE DOGLEG VERTICAL				H O R I Z O N T A L			
DEPTH		BEARING		SEVERITY		DEPTH	
feet	deg.	deg.	min.	deg./	100 ft.	feet	feet
0.0	0.00	0.00	N 0 0 E	0.00	0.0	0.0	0.00 N 0.00 E

0 - 3200 FT. GYRO MULTISHOT SURVEY RUN INSIDE DRILLPIPE.							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON #75 R.K.B.							

200.0	.57	104.37	S 75 38 E	.29	200.0	1.0	104.4
400.0	.41	130.75	S 49 15 E	.14	400.0	2.7	111.3
600.0	.73	241.42	S 61 25 W	.48	600.0	2.8	137.1
800.0	.92	232.15	S 52 9 W	.12	800.0	3.7	187.8
1000.0	.89	242.68	S 62 41 W	.08	999.9	6.2	210.5

1200.0	.97	191.67	S 11 40 W	.40	1199.9	9.1	212.2
1400.0	.74	211.57	S 31 34 W	.19	1399.9	12.0	209.3
1600.0	.64	176.01	S 3 59 E	.22	1599.9	14.2	207.1
1800.0	.12	73.67	N 73 40 E	.34	1799.9	15.1	204.3
2000.0	1.77	57.14	N 57 8 E	.82	1999.8	12.5	195.8

2200.0	1.44	51.87	N 51 52 E	.18	2199.8	8.9	172.5
2400.0	1.28	44.41	N 44 24 E	.12	2399.7	7.3	140.2
2600.0	.54	40.01	N 40 1 E	.37	2599.7	7.6	115.8
2800.0	.77	18.18	N 18 11 E	.16	2799.7	8.0	99.5
3000.0	.40	33.66	N 33 40 E	.20	2999.7	8.7	86.5

3200.0	.33	7.78	N 7 47 E	.09	3199.7	9.3	79.7

Final Station Closure: Distance: 9.31 ft Az: 79.67 deg.