

A Gyrodata Directional Survey

30-034-27001

for

CONOCO INC.

Location: BLUE JET MAST UNIT, RIO ARRIBA CO. NM.
Well: SAN JUAN 28-7 #128G, 4 1/2" CASING

Job Number: MD0702GME187

Run Date: 7/28/02 10:55:54 AM

Surveyor: JERRY GAY

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 36.586880 deg. N Longitude: 107.525890 deg. E

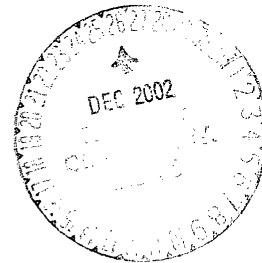
Azimuth Correction:

Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference



Surface: 1890/S 2280/W
B/L 577/S 2306/E

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MEASURED I N C L DEPTH feet	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
500.0	0.72	66.60	N 66 36 E	0.14	500.0	3.1 66.6	1.24 N 2.87 E
1000.0	1.15	69.00	N 69 0 E	0.09	999.9	11.2 67.7	4.27 N 10.40 E
1500.0	9.95	155.61	S 24 23 E	1.99	1497.4	46.9 135.3	33.36 S 32.95 E
2000.0	27.95	151.10	S 28 54 E	3.61	1968.3	206.9 148.5	176.46 S 108.04 E
2500.0	32.49	151.43	S 28 34 E	0.91	2400.3	458.4 150.0	397.10 S 228.94 E
3000.0	30.64	148.74	S 31 15 E	0.47	2826.3	720.0 150.1	623.96 S 359.28 E
3500.0	29.45	150.05	S 29 57 E	0.27	3259.1	970.3 149.9	839.37 S 486.75 E
4000.0	21.01	149.54	S 30 27 E	1.69	3711.0	1183.2 149.9	1023.46 S 593.74 E
4500.0	6.99	140.70	S 39 18 E	2.83	4195.0	1303.5 149.6	1124.79 S 658.77 E
5000.0	3.41	127.73	S 52 16 E	0.75	4692.9	1347.4 149.2	1157.46 S 689.83 E
5500.0	1.19	141.53	S 38 28 E	0.45	5192.5	1366.4 148.9	1170.63 S 704.82 E
6000.0	1.63	176.47	S 3 32 E	0.19	5692.3	1377.9 149.1	1181.81 S 708.49 E
6500.0	2.35	177.35	S 2 39 E	0.14	6192.0	1393.3 149.4	1199.15 S 709.40 E
7000.0	6.10	174.81	S 5 12 E	0.75	6690.6	1426.4 150.0	1235.86 S 712.29 E
7500.0	4.09	171.13	S 8 52 E	0.41	7188.6	1467.3 150.7	1279.94 S 717.44 E
7995.0	3.79	158.12	S 21 53 E	0.19	7682.4	1500.1 151.0	1312.54 S 726.26 E

Final Station Closure: Distance: 1500.07 ft Az: 151.04 deg.