



Gyrodata Incorporated
1682 W. Sam Houston Pkwy. N.
Houston, Texas 77043

713/461-3146
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SURVEY REPORT
YATES PETROLEUM
R.L. BURNS ATL, WELL #1
UTI DRILLING CO. #158
LEA COUNTY, NEW MEXICO
MD0200GMW124

FEBRUARY 28, 2000

Unit P-11-165-35e
Sur: 330/S & 330/E
BHL: 303/S & 302/E
3D-D25-24559

COPY

Serving the Worldwide Energy Industry with Precision Survey Instrumentation



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Houston, Texas 77043

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March 1, 2000

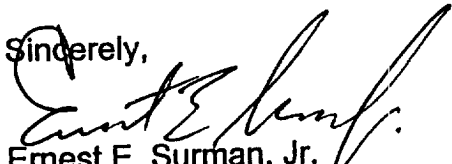
Mr. Jim Krogman
Yates Petroleum
105 South 4th
Artesia, NM 88210

Re: **R.L. Burns Atl, Well #1**
Lea County, New Mexico

Enclosed, please find one (1) original, four (4) copies, and one (1) disk of the completed survey of the above referenced well.

We would like to take this opportunity to thank you for using Gyrodata, and we look forward to serving you in the future.

Sincerely,



Ernest E. Surman, Jr.
Assistant Operations Manager

EES:lnr

A Gyrodata Directional Survey

for

Yates Petroleum

Well: R.L. BURNS ATL NO. 1, 4-1/2" DRILLPIPE

Location: UTI DRILLING CO. #158, LEA COUNTY, NEW MEXICO

Job Number: MD0200GMW124

Run Date: 2/28/00 3:42:07 PM

Surveyor: Ruben Clemence Mike Shepherd

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.920000 deg. N

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

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Location: UTI DRILLING CO. #158, LEA COUNTY, NEW MEXICO

Job Number: MD0200GMW124

MEASURED DEPTH feet	INCL deg.	AZMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg/ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZMUTH 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
0 - 11845 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO UTI DRILLING COMPANY #158 R.K.B.							
200.0	0.38	332.81	N 27 12 W	0.19	200.0	0.7 332.8	0.59 N 0.30 W
400.0	0.29	220.77	S 40 46 W	0.28	400.0	1.2 310.6	0.80 N 0.93 W
600.0	0.29	60.05	N 60 3 E	0.28	600.0	1.1 309.5	0.67 N 0.81 W
800.0	0.23	329.38	N 30 37 W	0.19	800.0	1.4 335.5	1.28 N 0.58 W
1000.0	0.22	83.44	N 83 27 E	0.19	1000.0	1.7 346.4	1.67 N 0.40 W
1200.0	0.14	315.58	N 44 25 W	0.16	1200.0	1.9 354.4	1.89 N 0.18 W
1400.0	0.52	189.31	S 9 19 W	0.30	1400.0	1.3 336.8	1.16 N 0.50 W
1600.0	0.25	176.60	S 3 24 E	0.14	1600.0	0.6 255.3	0.16 S 0.62 W
1800.0	0.34	133.01	S 47 0 E	0.12	1800.0	1.0 188.9	1.00 S 0.16 W
2000.0	0.24	294.35	N 65 39 W	0.29	2000.0	1.2 184.7	1.23 S 0.10 W
2200.0	0.34	165.72	S 14 17 E	0.26	2200.0	1.7 191.7	1.64 S 0.34 W
2400.0	0.27	91.85	S 88 9 E	0.18	2400.0	2.2 172.9	2.22 S 0.28 E
2600.0	0.31	286.27	N 73 44 W	0.29	2600.0	2.1 173.8	2.09 S 0.23 E
2800.0	0.24	359.34	N 0 40 W	0.17	2800.0	1.5 191.0	1.52 S 0.30 W
3000.0	0.39	100.12	S 79 53 E	0.25	3000.0	1.3 163.0	1.23 S 0.37 E
3200.0	0.77	24.66	N 24 40 E	0.39	3200.0	1.6 94.4	0.12 S 1.61 E
3400.0	0.18	272.19	N 87 49 W	0.43	3400.0	2.2 59.0	1.11 N 1.85 E
3600.0	0.47	91.70	S 88 18 E	0.33	3600.0	2.6 65.0	1.10 N 2.36 E
3800.0	0.30	158.09	S 21 55 E	0.22	3800.0	3.4 80.3	0.58 N 3.39 E
4000.0	0.42	24.39	N 24 24 E	0.33	4000.0	4.0 79.0	0.75 N 3.89 E

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Location: UTI DRILLING CO. #158, LEA COUNTY, NEW MEXICO

Job Number: MD0200GMW124

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4200.0	0.04	337.10	N 22 54 W	0.20	4200.0	4.4 70.3	1.49 N
4400.0	0.21	100.27	S 79 44 E	0.12	4400.0	4.7 71.6	1.50 N
4600.0	0.49	344.70	N 15 18 W	0.31	4599.9	5.1 63.9	2.26 N
4800.0	0.47	50.03	N 50 2 E	0.26	4799.9	6.2 54.2	3.63 N
5000.0	0.45	49.86	N 49 51 E	0.01	4999.9	7.8 53.3	4.67 N
5200.0	0.49	340.87	N 19 8 W	0.27	5199.9	8.9 47.8	5.98 N
5400.0	0.52	343.49	N 16 31 W	0.02	5399.9	9.8 38.3	7.67 N
5600.0	0.47	340.56	N 19 26 W	0.03	5599.9	10.8 30.7	9.31 N
5800.0	0.90	22.54	N 22 32 E	0.32	5799.9	12.9 26.9	11.52 N
6000.0	0.57	43.91	N 43 55 E	0.21	5999.9	15.4 27.6	13.68 N
6200.0	0.33	61.71	N 61 43 E	0.14	6199.9	16.9 29.6	14.67 N
6400.0	0.25	74.83	N 74 50 E	0.05	6399.9	17.7 31.6	15.06 N
6600.0	0.58	29.30	N 29 18 E	0.22	6599.9	19.0 32.4	16.06 N
6800.0	0.06	222.23	S 42 14 W	0.32	6799.9	19.9 32.2	16.86 N
7000.0	0.16	132.69	S 47 19 E	0.08	6999.9	19.8 32.9	16.60 N
7200.0	0.26	186.55	S 6 33 W	0.10	7199.9	19.3 34.3	15.98 N
7400.0	0.34	138.23	S 41 46 E	0.13	7399.9	18.8 36.7	15.09 N
7600.0	0.28	269.81	S 89 49 W	0.28	7599.9	18.4 37.3	14.64 N
7800.0	0.33	189.23	S 9 14 W	0.20	7799.9	17.6 36.9	14.07 N
8000.0	0.30	88.42	N 88 25 E	0.24	7999.9	17.4 39.2	13.52 N
8200.0	0.37	95.15	S 84 51 E	0.04	8199.9	18.2 42.1	13.47 N
8400.0	0.47	79.43	N 79 26 E	0.08	8399.9	19.2 45.1	13.57 N
8600.0	0.31	352.00	N 8 0 W	0.27	8599.8	20.2 45.2	14.25 N
8800.0	0.56	40.51	N 40 31 E	0.21	8799.8	21.5 43.9	15.53 N
							12.19 E
							13.63 E
							14.36 E
							14.92 E

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Location: UTI DRILLING CO. #158, LEA COUNTY, NEW MEXICO

Job Number: MD0200GMW124

MEASURED DEPTH feet	IN CL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg/ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
9000.0	0.49	111.91	S 68 6 E	0.31	8999.8	22.8 45.7	15.95 N 16.36 E
9200.0	0.41	31.62	N 31 37 E	0.29	9199.8	23.9 47.2	17.53 E
9400.0	0.63	77.44	N 77 26 E	0.23	9399.8	25.5 48.0	18.97 F
9600.0	0.60	137.75	S 42 15 E	0.31	9599.8	26.5 51.4	20.75 E
9800.0	0.59	148.97	S 31 2 E	0.06	9799.8	26.6 55.9	21.98 E
10000.0	0.31	169.76	S 10 14 E	0.16	9999.8	26.3 59.2	22.60 E
10100.0	0.60	114.35	S 65 39 E	0.49	10099.8	26.5 60.6	23.12 E
10200.0	0.43	123.35	S 56 39 E	0.18	10199.8	27.0 62.2	23.91 E
10300.0	0.49	168.95	S 11 3 E	0.36	10299.8	27.1 63.8	24.31 E
10400.0	0.58	169.23	S 10 46 E	0.10	10399.8	26.9 65.7	24.48 E
10500.0	0.78	166.35	S 13 39 E	0.20	10499.8	26.6 68.2	24.74 E
10600.0	1.50	177.05	S 2 57 E	0.75	10599.8	26.2 72.4	24.97 E
10700.0	0.99	153.83	S 26 10 E	0.71	10699.7	26.1 77.1	25.42 E
10800.0	1.02	154.39	S 25 37 E	0.04	10799.7	26.5 80.8	26.18 E
10900.0	1.18	153.75	S 26 15 E	0.16	10899.7	27.1 84.7	27.02 E
11000.0	1.67	187.13	S 7 8 W	0.94	10999.7	27.3 89.7	27.30 E
11100.0	1.77	181.00	S 1 0 W	0.21	11099.6	27.2 96.0	27.09 F
11200.0	1.35	173.22	S 6 47 E	0.46	11199.6	27.8 101.5	27.21 L
11300.0	1.71	166.95	S 13 3 E	0.40	11299.6	28.9 106.5	27.68 E
11400.0	2.23	177.03	S 2 58 E	0.62	11399.5	30.4 112.4	28.12 E
11500.0	2.01	188.62	S 8 37 W	0.48	11499.4	31.8 118.6	27.96 E
11600.0	2.31	183.44	S 3 27 W	0.36	11599.4	33.5 124.6	27.57 E
11700.0	1.77	179.40	S 0 36 E	0.56	11699.3	35.5 129.4	27.47 E
11800.0	1.76	176.73	S 3 16 E	0.08	11799.2	37.7 132.9	27.57 E

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Location: UTI DRILLING CO. #158, LEA COUNTY, NEW MEXICO

Job Number: MD0200GMW124

MEASURED DEPTH feet	INCL deg.	AZMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
11845.0	1.58	162.79	S 17 13 E	0.99	11844.2	38.7 134.1	26.93' S 27.79 E

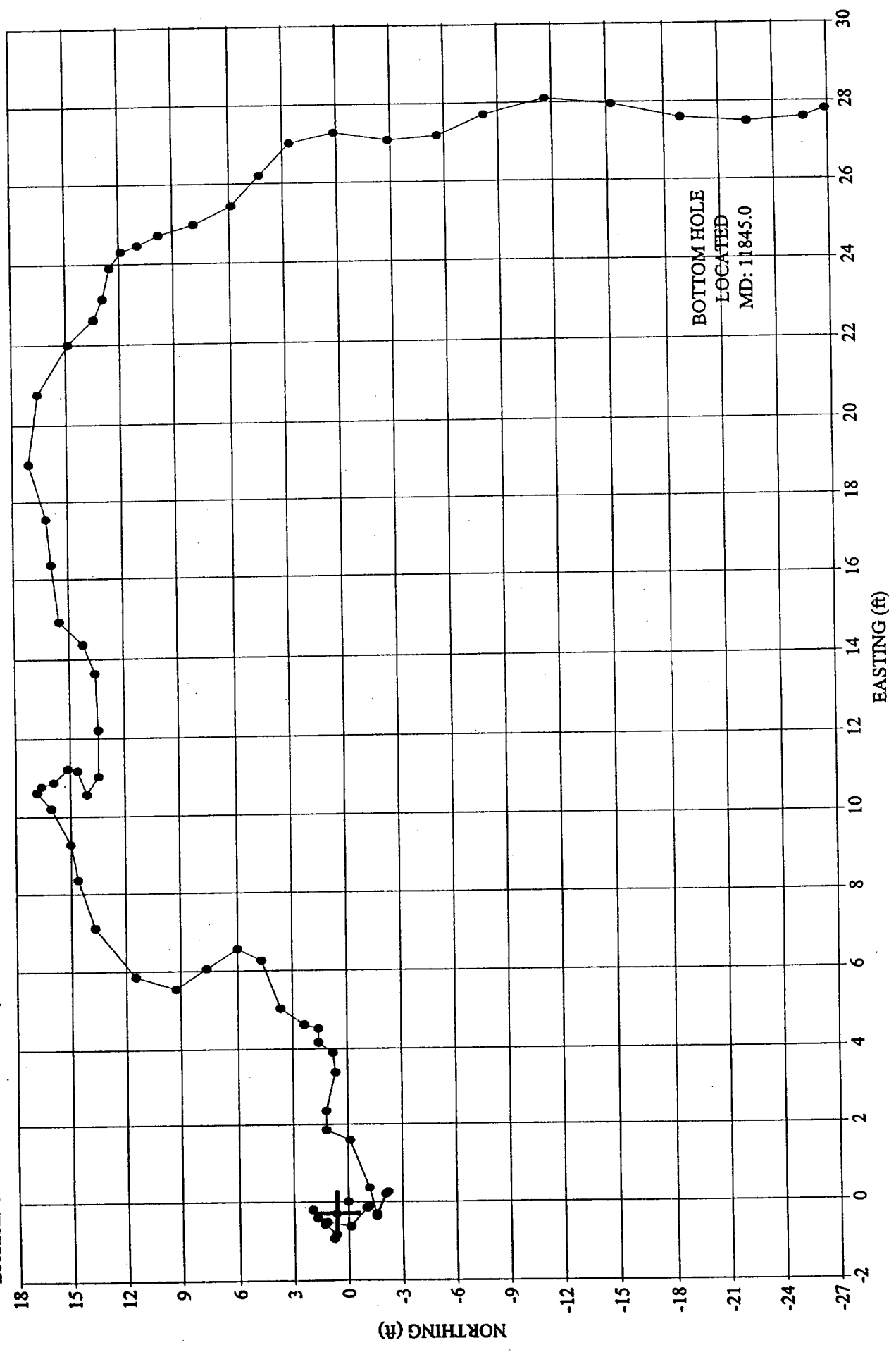
From surface hole

Final Station Closure: Distance: 38.70 ft Az: 134.09 deg.

gyro/data

MD0200GMW124 DEFINITIVE

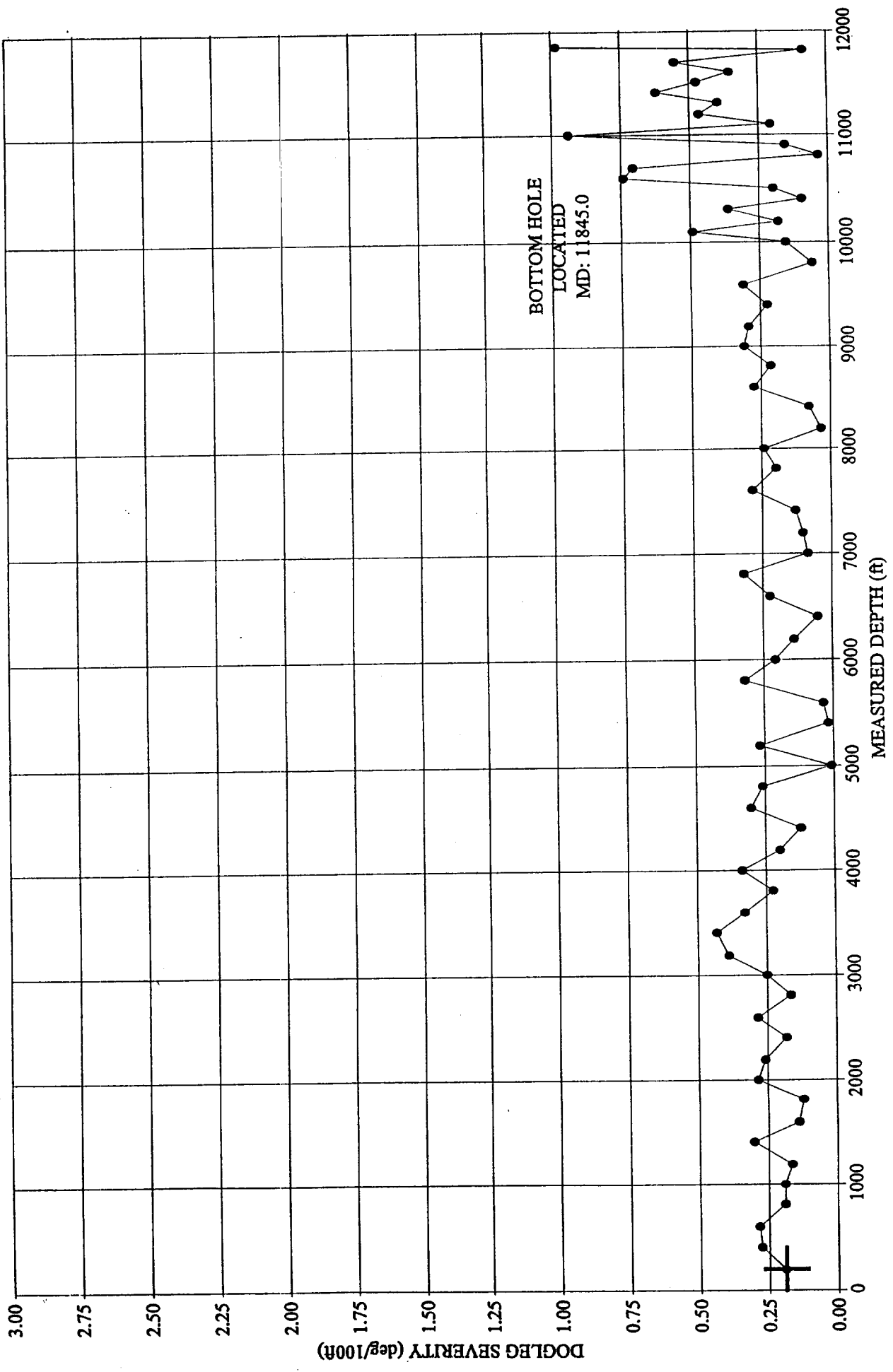
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Well: R.L. BURNS ATL NO. 1, : 4-1/2" DRILLPIPE
Location: UTI DRILLING CO. #158, LEA COUNTY, NEW MEXICO



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