

A Gyrodata Directional Survey

for

EOG RESOURCES

Well: R.H.N.U. # 807, 5-1/2" Casing
Location: Well Head, Lea County, New Mexico

Job Number: MD1103GW310

Run Date: 11/24/2003 2:41:50 PM

Surveyor: Lee Adams

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 31.125790 deg. N Longitude: 103.515890 deg. W

Azimuth Correction:

Gyro: -0.42000 deg West to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

SUR: M-18-25s-34w, 991/S & 330/W
BHL: I -18-25s-34e, 2594/S & 4214/W
API # 30-025-34659

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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	
0.00	0.00	0.00	N 0 0 E	0.00	0.00	0.0	0.0	0.00 N	0.00 E
0 - 12000 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 5-1/2" CASING ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO GROUND LEVEL									
100.00	0.12	331.91	N 28 5 W	0.12	100.00	0.1	331.9	0.09 N	0.05 W
200.00	0.18	353.86	N 6 9 W	0.08	200.00	0.4	341.1	0.34 N	0.12 W
300.00	0.08	14.36	N 14 21 E	0.10	300.00	0.6	348.4	0.56 N	0.12 W
400.00	0.15	28.09	N 28 5 E	0.07	400.00	0.7	357.1	0.74 N	0.04 W
500.00	0.09	29.59	N 29 35 E	0.06	500.00	0.9	3.7	0.92 N	0.06 E
600.00	0.10	104.41	S 75 35 E	0.11	600.00	1.0	10.4	0.97 N	0.18 E
700.00	0.23	122.20	S 57 48 E	0.14	700.00	0.9	26.9	0.84 N	0.43 E
800.00	0.32	145.63	S 34 22 E	0.14	800.00	0.9	56.2	0.50 N	0.75 E
900.00	0.40	141.81	S 38 11 E	0.08	900.00	1.1	90.1	0.00 S	1.13 E
1000.00	0.37	145.02	S 34 59 E	0.04	999.99	1.6	109.5	0.54 S	1.53 E
1100.00	0.42	144.57	S 35 26 E	0.05	1099.99	2.2	119.9	1.11 S	1.93 E
1200.00	0.48	158.89	S 21 6 E	0.12	1199.99	2.9	128.1	1.79 S	2.29 E
1300.00	0.45	150.13	S 29 52 E	0.08	1299.98	3.6	133.7	2.52 S	2.63 E
1400.00	0.40	151.75	S 28 15 E	0.05	1399.98	4.4	136.6	3.16 S	2.99 E
1500.00	0.47	160.61	S 19 23 E	0.10	1499.98	5.1	139.5	3.86 S	3.29 E
1600.00	0.51	144.52	S 35 29 E	0.14	1599.98	5.9	141.3	4.60 S	3.69 E
1700.00	0.48	162.94	S 17 4 E	0.16	1699.97	6.7	142.9	5.37 S	4.07 E
1800.00	0.57	140.77	S 39 14 E	0.22	1799.97	7.6	143.8	6.15 S	4.50 E
1900.00	0.53	165.36	S 14 38 E	0.24	1899.96	8.6	144.8	6.99 S	4.93 E
2000.00	0.55	151.12	S 28 53 E	0.14	1999.96	9.5	146.1	7.86 S	5.28 E

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2100.00	0.56	150.69	S 29 19 E	0.01	2099.95	10.4 146.5	8.71 S 5.76 E
2200.00	0.57	153.12	S 26 53 E	0.03	2199.95	11.4 147.0	9.58 S 6.22 E
2300.00	0.63	152.16	S 27 50 E	0.06	2299.94	12.5 147.5	10.51 S 6.70 E
2400.00	0.58	156.69	S 23 19 E	0.07	2399.94	13.5 148.0	11.46 S 7.16 E
2500.00	0.53	156.71	S 23 18 E	0.06	2499.93	14.5 148.6	12.36 S 7.55 E
2600.00	0.51	139.79	S 40 12 E	0.15	2599.93	15.4 148.6	13.12 S 8.02 E
2700.00	0.50	124.14	S 55 51 E	0.14	2699.93	16.2 147.7	13.70 S 8.67 E
2800.00	0.59	118.82	S 61 11 E	0.10	2799.92	17.1 146.3	14.20 S 9.48 E
2900.00	0.66	99.55	S 80 27 E	0.22	2899.91	17.9 144.2	14.54 S 10.50 E
3000.00	0.77	91.38	S 88 37 E	0.15	2999.91	18.8 141.3	14.65 S 11.73 E
3100.00	0.95	76.76	N 76 46 E	0.29	3099.90	19.6 137.6	14.48 S 13.21 E
3200.00	1.29	81.40	N 81 24 E	0.35	3199.88	20.7 133.0	14.12 S 15.13 E
3300.00	1.54	80.54	N 80 32 E	0.25	3299.85	22.3 128.0	13.73 S 17.57 E
3400.00	1.73	72.67	N 72 40 E	0.29	3399.81	24.2 122.7	13.06 S 20.33 E
3500.00	1.82	80.08	N 80 5 E	0.25	3499.76	26.4 117.9	12.34 S 23.33 E
3600.00	1.81	76.34	N 76 20 E	0.12	3599.71	28.9 113.9	11.69 S 26.43 E
3700.00	1.84	75.91	N 75 55 E	0.03	3699.66	31.5 110.3	10.93 S 29.52 E
3800.00	1.50	71.85	N 71 51 E	0.35	3799.61	33.9 107.4	10.13 S 32.32 E
3900.00	1.54	57.67	N 57 40 E	0.38	3899.58	35.9 104.5	9.01 S 34.70 E
4000.00	1.56	49.80	N 49 48 E	0.21	3999.54	37.6 101.4	7.41 S 36.87 E
4100.00	1.39	42.51	N 42 31 E	0.25	4099.51	39.1 98.3	5.63 S 38.74 E
4200.00	1.36	35.58	N 35 35 E	0.17	4199.48	40.4 95.4	3.77 S 40.25 E
4300.00	1.29	28.44	N 28 26 E	0.18	4299.45	41.5 92.5	1.82 S 41.47 E
4400.00	1.40	28.18	N 28 11 E	0.11	4399.43	42.6 89.7	0.25 N 42.59 E

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4500.00	1.69	39.06	N 39 4 E	0.41	4499.39	44.2 86.8	2.47 N 44.09 E
4600.00	1.76	43.86	N 43 51 E	0.16	4599.35	46.3 84.1	4.73 N 46.09 E
4700.00	1.79	51.42	N 51 25 E	0.24	4699.30	48.9 82.0	6.81 N 48.38 E
4800.00	1.84	55.68	N 55 41 E	0.14	4799.25	51.7 80.3	8.69 N 50.92 E
4900.00	1.95	69.65	N 69 39 E	0.47	4899.19	54.8 79.3	10.19 N 53.84 E
5000.00	1.95	73.37	N 73 23 E	0.13	4999.14	58.2 78.8	11.26 N 57.07 E
5100.00	1.14	83.94	N 83 56 E	0.86	5099.10	60.9 78.8	11.85 N 59.68 E
5200.00	0.69	68.24	N 68 14 E	0.51	5199.09	62.4 78.7	12.18 N 61.24 E
5300.00	0.25	74.82	N 74 49 E	0.44	5299.08	63.3 78.6	12.47 N 62.01 E
5400.00	0.24	61.89	N 61 53 E	0.06	5399.08	63.7 78.6	12.62 N 62.41 E
5500.00	0.26	76.57	N 76 34 E	0.07	5499.08	64.1 78.5	12.77 N 62.81 E
5600.00	0.17	37.25	N 37 15 E	0.17	5599.08	64.4 78.4	12.94 N 63.12 E
5700.00	0.16	62.67	N 62 40 E	0.07	5699.08	64.7 78.3	13.12 N 63.34 E
5800.00	0.08	79.38	N 79 23 E	0.09	5799.08	64.9 78.3	13.20 N 63.53 E
5900.00	0.13	105.87	S 74 8 E	0.07	5899.08	65.1 78.3	13.18 N 63.71 E
6000.00	0.11	86.72	N 86 43 E	0.05	5999.08	65.3 78.4	13.16 N 63.92 E
6100.00	0.10	90.95	S 89 3 E	0.01	6099.08	65.4 78.4	13.16 N 64.11 E
6200.00	0.09	107.29	S 72 43 E	0.03	6199.08	65.6 78.5	13.13 N 64.28 E
6300.00	0.08	135.19	S 44 48 E	0.04	6299.08	65.7 78.5	13.06 N 64.40 E
6400.00	0.00	189.02	S 9 1 W	0.08	6399.08	65.8 78.6	13.01 N 64.45 E
6500.00	0.01	195.41	S 15 25 W	0.01	6499.08	65.7 78.6	12.99 N 64.45 E
6600.00	0.01	117.06	S 62 57 E	0.01	6599.08	65.7 78.6	12.98 N 64.45 E
6700.00	0.08	143.93	S 36 4 E	0.07	6699.08	65.8 78.7	12.92 N 64.50 E
6800.00	0.09	154.84	S 25 10 E	0.02	6799.08	65.8 78.8	12.80 N 64.58 E

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6900.00	0.07	132.55	S 47 27 E	0.04	6899.08	65.9	78.9	12.69 N	64.65 E
7000.00	0.02	203.47	S 23 28 W	0.06	6999.08	65.9	78.9	12.64 N	64.69 E
7100.00	0.03	198.02	S 18 1 W	0.01	7099.08	65.9	79.0	12.60 N	64.67 E
7200.00	0.06	236.39	S 56 23 W	0.04	7199.08	65.8	79.0	12.55 N	64.63 E
7300.00	0.08	220.02	S 40 1 W	0.03	7299.08	65.7	79.1	12.47 N	64.54 E
7400.00	0.23	215.46	S 35 28 W	0.16	7399.08	65.5	79.2	12.25 N	64.38 E
7500.00	0.24	234.65	S 54 39 W	0.08	7499.08	65.2	79.4	11.96 N	64.09 E
7600.00	0.22	225.08	S 45 5 W	0.05	7599.08	64.8	79.6	11.70 N	63.78 E
7700.00	0.20	203.16	S 23 10 W	0.08	7699.07	64.6	79.8	11.41 N	63.58 E
7800.00	0.17	227.10	S 47 6 W	0.08	7799.07	64.4	80.0	11.16 N	63.40 E
7900.00	0.36	248.89	S 68 53 W	0.22	7899.07	63.9	80.1	10.94 N	63.00 E
8000.00	0.41	251.01	S 71 1 W	0.05	7999.07	63.3	80.3	10.71 N	62.37 E
8100.00	0.48	262.30	S 82 18 W	0.11	8099.07	62.5	80.3	10.54 N	61.61 E
8200.00	0.51	253.27	S 73 16 W	0.08	8199.06	61.7	80.3	10.36 N	60.78 E
8300.00	0.55	251.56	S 71 34 W	0.05	8299.06	60.7	80.5	10.08 N	59.89 E
8400.00	0.61	253.76	S 73 46 W	0.06	8399.05	59.7	80.6	9.77 N	58.92 E
8500.00	0.60	252.45	S 72 27 W	0.02	8499.05	58.7	80.7	9.47 N	57.91 E
8600.00	0.58	264.59	S 84 35 W	0.13	8599.04	57.7	80.8	9.26 N	56.91 E
8700.00	0.66	265.41	S 85 24 W	0.08	8699.04	56.6	80.7	9.17 N	55.83 E
8800.00	0.69	261.91	S 81 54 W	0.05	8799.03	55.4	80.6	9.04 N	54.66 E
8900.00	0.63	255.74	S 75 45 W	0.09	8899.02	54.3	80.6	8.82 N	53.53 E
9000.00	0.60	244.03	S 64 2 W	0.13	8999.02	53.2	80.9	8.45 N	52.53 E
9100.00	0.71	248.44	S 68 26 W	0.12	9099.01	52.1	81.2	7.99 N	51.48 E
9200.00	0.67	243.22	S 63 13 W	0.07	9199.00	50.9	81.5	7.50 N	50.38 E

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9300.00	0.63	237.79	S 57 48 W	0.07	9299.00	49.9 82.0	6.94 N 49.39 E
9400.00	0.44	234.67	S 54 40 W	0.19	9398.99	49.0 82.5	6.43 N 48.61 E
9500.00	0.35	246.19	S 66 11 W	0.12	9498.99	48.4 82.8	6.08 N 48.01 E
9600.00	0.24	233.61	S 53 37 W	0.13	9598.99	47.9 83.0	5.83 N 47.56 E
9700.00	0.24	224.11	S 44 6 W	0.04	9698.99	47.6 83.3	5.56 N 47.25 E
9800.00	0.24	214.61	S 34 36 W	0.04	9798.99	47.3 83.6	5.24 N 46.99 E
9900.00	0.17	220.39	S 40 23 W	0.08	9898.99	47.0 84.0	4.95 N 46.77 E
10000.00	0.14	207.52	S 27 31 W	0.04	9998.99	46.9 84.2	4.73 N 46.62 E
10100.00	0.17	244.96	S 64 57 W	0.10	10098.99	46.6 84.4	4.56 N 46.43 E
10200.00	0.30	266.38	S 86 23 W	0.16	10198.99	46.2 84.4	4.47 N 46.03 E
10300.00	0.42	276.63	N 83 22 W	0.13	10298.98	45.6 84.3	4.50 N 45.40 E
10400.00	0.51	293.08	N 66 55 W	0.16	10398.98	44.9 84.0	4.72 N 44.63 E
10500.00	0.43	288.64	N 71 21 W	0.08	10498.98	44.2 83.5	5.01 N 43.87 E
10600.00	0.31	283.13	N 76 52 W	0.13	10598.98	43.6 83.2	5.19 N 43.25 E
10700.00	0.21	284.87	N 75 8 W	0.10	10698.97	43.1 82.9	5.30 N 42.82 E
10800.00	0.25	275.13	N 84 52 W	0.06	10798.97	42.8 82.8	5.36 N 42.43 E
10900.00	0.09	252.62	S 72 37 W	0.17	10898.97	42.5 82.8	5.36 N 42.13 E
11000.00	0.16	260.46	S 80 28 W	0.06	10998.97	42.3 82.8	5.31 N 41.92 E
11100.00	0.39	286.28	N 73 43 W	0.25	11098.97	41.8 82.6	5.38 N 41.46 E
11200.00	0.74	257.53	S 77 32 W	0.44	11198.97	40.9 82.5	5.34 N 40.51 E
11300.00	0.63	250.57	S 70 34 W	0.14	11298.96	39.7 82.7	5.02 N 39.37 E
11400.00	0.25	198.58	S 18 35 W	0.51	11398.96	39.1 83.2	4.62 N 38.78 E
11500.00	0.61	176.14	S 3 52 E	0.39	11498.95	38.9 84.3	3.88 N 38.75 E
11600.00	0.77	155.02	S 24 59 E	0.30	11598.95	39.2 86.0	2.74 N 39.07 E

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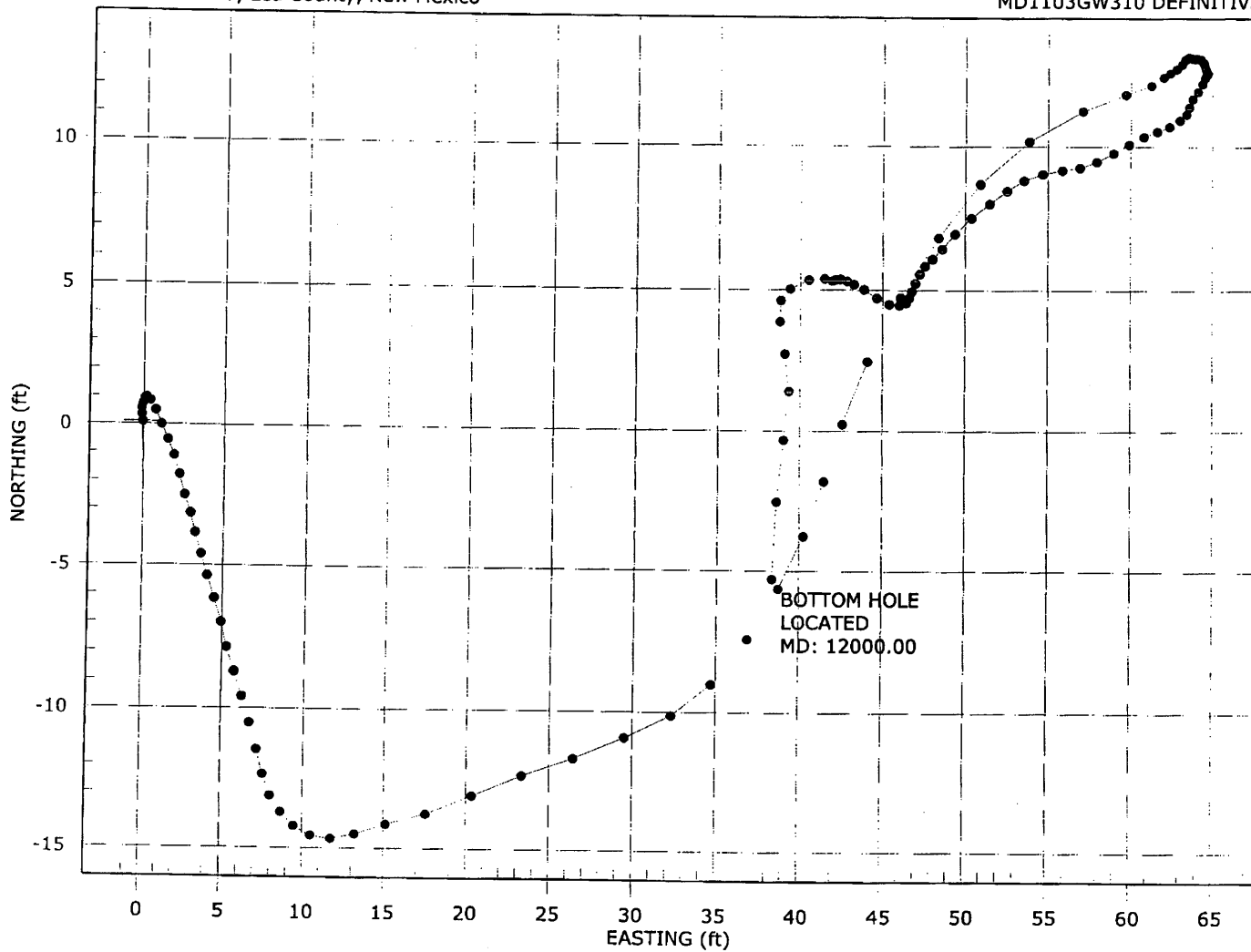
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11700.00	0.84	182.77	S 2 46 W	0.39	11698.94	39.3	88.0	1.41 N	39.31 E
11800.00	1.20	194.55	S 14 33 W	0.42	11798.92	39.0	90.5	0.33 S	39.01 E
11900.00	1.38	187.22	S 7 13 W	0.25	11898.90	38.7	93.8	2.54 S	38.60 E
12000.00	1.77	183.66	S 3 40 W	0.40	11998.86	38.7	97.8	5.28 S	38.35 E

Final Station Closure: Distance: 38.71 ft Az: 97.84 deg.

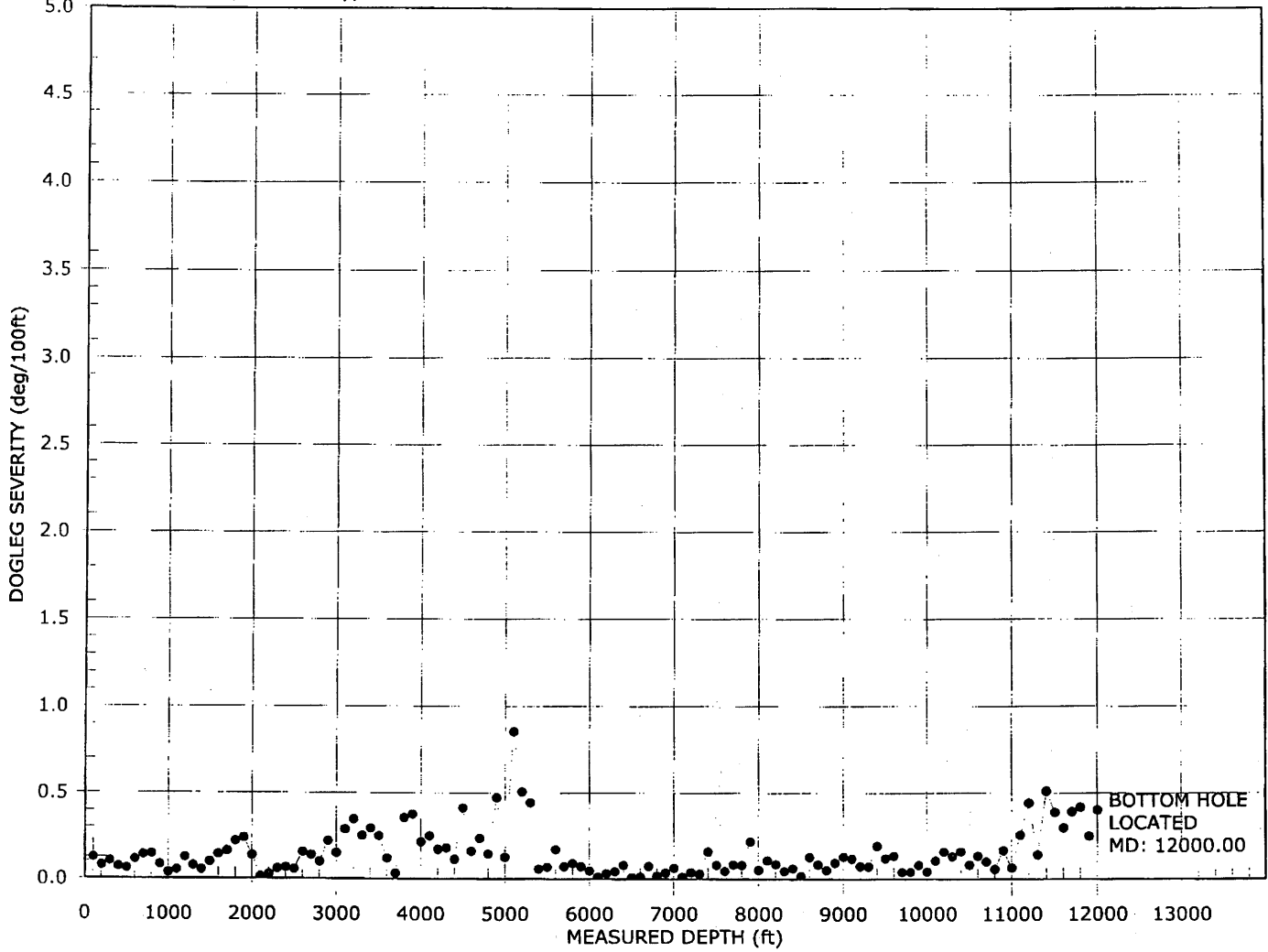
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Well: R.H.N.U. # 807 5-1/2" Casing
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Inrun
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