

A Gyrodata Directional Survey

for

EOG RESOURCES

**Well: R.H.N.U. No. 904, 4-1/2" Drillpipe
Location: McVay #10, Lea County, New Mexico**

Job Number: MD1103GW312

Run Date: 11/25/2003 3:35:45 PM

Surveyor: Mike Martinez

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.134600 deg. N Longitude: 103.494300 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

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MEASURED DEPTH feet	I N C L 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 - 11,884 FT. DROP GYROSCOPIC SURVEY RUN INSIDE 4 1/2" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO McVAY #10 R.K.B.							

100.00	0.19	192.70	S 12 42 W	0.19	100.00	0.2 192.7	0.16 S 0.04 W
200.00	1.01	89.35	N 89 21 E	1.07	199.99	0.9 111.3	0.31 S 0.81 E
300.00	1.37	93.31	S 86 42 E	0.37	299.97	2.9 97.4	0.37 S 2.89 E
400.00	1.56	92.43	S 87 34 E	0.18	399.94	5.5 95.3	0.50 S 5.44 E
500.00	1.79	94.14	S 85 51 E	0.24	499.90	8.4 94.6	0.67 S 8.35 E
600.00	1.93	95.66	S 84 20 E	0.15	599.85	11.6 94.7	0.95 S 11.58 E
700.00	1.94	94.64	S 85 22 E	0.04	699.79	15.0 94.8	1.25 S 14.94 E
800.00	1.71	78.13	N 78 8 E	0.57	799.74	18.1 93.4	1.08 S 18.08 E
900.00	1.74	74.45	N 74 27 E	0.11	899.69	21.0 91.0	0.37 S 21.01 E
1000.00	1.84	74.85	N 74 51 E	0.10	999.64	24.0 88.9	0.46 N 24.01 E
1100.00	1.80	74.26	N 74 16 E	0.04	1099.59	27.1 87.2	1.30 N 27.07 E
1200.00	1.73	72.54	N 72 33 E	0.09	1199.55	30.1 85.8	2.18 N 30.03 E
1300.00	1.68	74.92	N 74 55 E	0.09	1299.50	33.0 84.8	3.02 N 32.89 E
1400.00	1.70	78.16	N 78 10 E	0.10	1399.46	36.0 84.1	3.71 N 35.76 E
1500.00	1.79	81.46	N 81 27 E	0.13	1499.41	39.0 83.8	4.24 N 38.76 E
1600.00	1.77	85.44	N 85 27 E	0.13	1599.36	42.1 83.7	4.60 N 41.85 E
1700.00	1.74	84.49	N 84 29 E	0.04	1699.32	45.2 83.8	4.87 N 44.90 E
1800.00	1.49	91.37	S 88 38 E	0.31	1799.28	48.0 84.0	4.98 N 47.72 E
1900.00	1.51	95.02	S 84 59 E	0.10	1899.24	50.6 84.5	4.83 N 50.33 E
2000.00	1.41	94.08	S 85 55 E	0.10	1999.21	53.1 85.0	4.63 N 52.88 E

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2100.00	1.41	93.96	S 86 2 E	0.00	2099.18	55.5 85.4	4.46 N 55.34 E
2200.00	1.66	94.10	S 85 54 E	0.24	2199.14	58.2 85.8	4.27 N 58.01 E
2300.00	1.70	95.22	S 84 47 E	0.05	2299.10	61.1 86.2	4.03 N 60.93 E
2400.00	1.87	90.38	S 89 37 E	0.23	2399.05	64.2 86.5	3.89 N 64.03 E
2500.00	1.86	90.34	S 89 40 E	0.01	2499.00	67.4 86.7	3.86 N 67.29 E
2600.00	1.92	89.76	N 89 45 E	0.07	2598.94	70.7 86.9	3.86 N 70.59 E
2700.00	1.78	84.70	N 84 42 E	0.21	2698.89	73.9 86.9	4.01 N 73.81 E
2800.00	1.78	94.56	S 85 27 E	0.31	2798.84	77.0 87.0	4.03 N 76.91 E
2900.00	2.02	84.54	N 84 32 E	0.41	2898.79	80.3 87.1	4.08 N 80.21 E
3000.00	2.19	86.24	N 86 15 E	0.19	2998.72	84.0 87.0	4.37 N 83.87 E
3100.00	2.20	88.12	N 88 7 E	0.07	3098.65	87.8 87.0	4.56 N 87.70 E
3200.00	2.18	89.71	N 89 43 E	0.06	3198.58	91.6 87.1	4.63 N 91.52 E
3300.00	1.59	90.97	S 89 2 E	0.60	3298.52	94.9 87.2	4.62 N 94.81 E
3400.00	1.56	89.15	N 89 9 E	0.06	3398.48	97.7 87.3	4.61 N 97.55 E
3500.00	1.25	89.68	N 89 41 E	0.31	3498.45	100.1 87.3	4.64 N 100.00 E
3600.00	1.20	87.59	N 87 35 E	0.07	3598.43	102.2 87.4	4.69 N 102.14 E
3700.00	1.30	84.02	N 84 1 E	0.13	3698.41	104.4 87.3	4.85 N 104.31 E
3800.00	1.18	80.92	N 80 55 E	0.14	3798.38	106.6 87.2	5.13 N 106.45 E
3900.00	1.29	83.70	N 83 42 E	0.13	3898.36	108.7 87.1	5.42 N 108.58 E
4000.00	1.17	90.62	S 89 23 E	0.19	3998.34	110.9 87.1	5.53 N 110.72 E
4100.00	0.88	110.96	S 69 2 E	0.46	4098.32	112.6 87.3	5.24 N 112.45 E
4200.00	1.09	112.52	S 67 29 E	0.20	4198.31	114.1 87.7	4.60 N 114.05 E
4300.00	1.39	119.02	S 60 59 E	0.33	4298.28	116.0 88.2	3.65 N 115.99 E
4400.00	1.54	121.88	S 58 7 E	0.17	4398.25	118.2 88.9	2.35 N 118.19 E

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4500.00	1.71	124.19	S 55 48 E	0.18	4498.21	120.6 89.6	0.80 N 120.57 E
4600.00	2.04	124.27	S 55 44 E	0.33	4598.16	123.3 90.5	1.04 S 123.28 E
4700.00	2.18	125.24	S 54 46 E	0.14	4698.09	126.3 91.4	3.14 S 126.30 E
4800.00	1.46	123.41	S 56 35 E	0.72	4798.04	129.0 92.2	4.94 S 128.92 E
4900.00	1.72	127.48	S 52 31 E	0.29	4898.00	131.3 92.9	6.55 S 131.17 E
5000.00	1.86	124.96	S 55 3 E	0.16	4997.95	134.0 93.6	8.39 S 133.69 E
5100.00	1.23	124.68	S 55 19 E	0.63	5097.91	136.3 94.2	9.94 S 135.91 E
5200.00	0.88	137.48	S 42 31 E	0.42	5197.90	137.8 94.6	11.12 S 137.31 E
5300.00	0.65	154.74	S 25 16 E	0.33	5297.89	138.6 95.0	12.20 S 138.07 E
5400.00	0.73	152.81	S 27 12 E	0.08	5397.88	139.2 95.5	13.27 S 138.60 E
5500.00	0.68	157.32	S 22 41 E	0.08	5497.87	139.9 95.9	14.38 S 139.12 E
5600.00	0.64	155.01	S 24 59 E	0.05	5597.87	140.4 96.3	15.43 S 139.58 E
5700.00	0.44	143.69	S 36 19 E	0.23	5697.86	141.0 96.6	16.24 S 140.05 E
5800.00	0.37	156.21	S 23 48 E	0.11	5797.86	141.4 96.8	16.85 S 140.40 E
5900.00	0.23	177.61	S 2 23 E	0.17	5897.86	141.6 97.0	17.35 S 140.54 E
6000.00	0.33	175.48	S 4 31 E	0.09	5997.86	141.7 97.2	17.84 S 140.57 E
6100.00	0.31	178.48	S 1 31 E	0.02	6097.85	141.8 97.5	18.40 S 140.60 E
6200.00	0.29	155.06	S 24 56 E	0.12	6197.85	142.0 97.6	18.90 S 140.72 E
6300.00	0.40	184.45	S 4 27 W	0.20	6297.85	142.1 97.9	19.48 S 140.80 E
6400.00	0.30	180.97	S 0 58 W	0.10	6397.85	142.2 98.1	20.09 S 140.77 E
6500.00	0.30	166.56	S 13 27 E	0.08	6497.85	142.3 98.3	20.61 S 140.82 E
6600.00	0.34	169.19	S 10 49 E	0.04	6597.85	142.5 98.5	21.16 S 140.94 E
6700.00	0.34	165.08	S 14 55 E	0.02	6697.85	142.7 98.8	21.73 S 141.07 E
6800.00	0.39	160.67	S 19 20 E	0.06	6797.84	143.0 99.0	22.33 S 141.26 E

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
6900.00	0.43	166.15	S 13 51 E	0.06	6897.84	143.3 99.2	23.01 S 141.46 E
7000.00	0.36	183.53	S 3 32 W	0.14	6997.84	143.5 99.5	23.69 S 141.53 E
7100.00	0.35	177.44	S 2 34 E	0.04	7097.84	143.6 99.7	24.30 S 141.52 E
7200.00	0.29	180.06	S 0 4 W	0.06	7197.83	143.7 100.0	24.86 S 141.54 E
7300.00	0.46	175.02	S 4 59 E	0.17	7297.83	143.9 100.2	25.51 S 141.57 E
7400.00	0.52	186.55	S 6 33 W	0.12	7397.83	144.0 100.6	26.36 S 141.55 E
7500.00	0.55	188.05	S 8 3 W	0.03	7497.82	144.0 100.9	27.29 S 141.43 E
7600.00	0.71	185.68	S 5 41 W	0.17	7597.82	144.1 101.4	28.39 S 141.31 E
7700.00	0.65	175.06	S 4 56 E	0.14	7697.81	144.4 101.8	29.58 S 141.29 E
7800.00	0.73	194.54	S 14 32 W	0.25	7797.80	144.5 102.3	30.76 S 141.18 E
7900.00	0.60	185.34	S 5 21 W	0.17	7897.80	144.5 102.7	31.89 S 140.97 E
8000.00	0.67	180.17	S 0 10 W	0.09	7997.79	144.7 103.2	33.00 S 140.92 E
8100.00	0.63	180.80	S 0 48 W	0.04	8097.79	145.0 103.6	34.13 S 140.91 E
8200.00	0.75	179.15	S 0 51 E	0.12	8197.78	145.3 104.1	35.33 S 140.92 E
8300.00	0.62	184.69	S 4 42 W	0.14	8297.77	145.5 104.5	36.52 S 140.88 E
8400.00	0.60	187.29	S 7 17 W	0.03	8397.77	145.7 104.9	37.58 S 140.77 E
8500.00	0.54	188.48	S 8 29 W	0.06	8497.76	145.8 105.3	38.56 S 140.63 E
8600.00	0.58	172.15	S 7 51 E	0.16	8597.76	146.1 105.7	39.53 S 140.63 E
8700.00	0.65	182.00	S 2 0 W	0.13	8697.75	146.4 106.1	40.60 S 140.68 E
8800.00	0.49	184.54	S 4 32 W	0.16	8797.74	146.7 106.5	41.59 S 140.63 E
8900.00	0.28	176.74	S 3 15 E	0.22	8897.74	146.8 106.7	42.26 S 140.61 E
8983.72	0.43	179.15	S 0 51 E	0.19	8981.46	147.0 106.9	42.77 S 140.63 E
9078.72	0.67	171.06	S 8 56 E	0.27	9076.46	147.3 107.2	43.68 S 140.72 E
9173.72	0.83	174.83	S 5 10 E	0.18	9171.45	147.9 107.7	44.92 S 140.87 E

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLE SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
9268.72	0.67	180.56	S 0 33 W	0.19	9266.44	148.3 108.1	46.16 S 140.92 E
9363.72	0.56	175.64	S 4 22 E	0.12	9361.43	148.6 108.5	47.18 S 140.95 E
9458.72	0.49	175.48	S 4 31 E	0.08	9456.43	149.0 108.8	48.05 S 141.02 E
9553.72	0.50	176.53	S 3 29 E	0.01	9551.43	149.3 109.1	48.87 S 141.08 E
9648.72	0.54	175.81	S 4 12 E	0.05	9646.42	149.6 109.4	49.73 S 141.14 E
9743.72	0.50	166.18	S 13 49 E	0.10	9741.42	150.1 109.7	50.58 S 141.27 E
9838.72	0.59	155.16	S 24 51 E	0.14	9836.41	150.6 110.0	51.43 S 141.57 E
9933.72	0.72	115.65	S 64 21 E	0.48	9931.41	151.6 110.1	52.13 S 142.32 E
10028.72	1.13	115.37	S 64 38 E	0.44	10026.40	153.1 110.2	52.79 S 143.70 E
10123.72	0.81	116.07	S 63 56 E	0.34	10121.38	154.7 110.2	53.49 S 145.16 E
10218.72	0.83	124.63	S 55 22 E	0.13	10216.37	156.0 110.3	54.18 S 146.33 E
10313.72	0.83	121.16	S 58 50 E	0.05	10311.36	157.4 110.4	54.93 S 147.48 E
10408.72	1.06	122.86	S 57 8 E	0.25	10406.35	158.9 110.5	55.76 S 148.81 E
10503.72	1.08	118.86	S 61 8 E	0.08	10501.33	160.7 110.7	56.67 S 150.34 E
10598.72	0.90	124.07	S 55 56 E	0.22	10596.32	162.3 110.8	57.52 S 151.74 E
10693.72	0.92	114.57	S 65 26 E	0.16	10691.31	163.8 110.8	58.25 S 153.05 E
10788.72	0.54	99.95	S 80 3 E	0.44	10786.30	165.0 110.8	58.65 S 154.19 E
10883.72	0.69	88.96	N 88 57 E	0.19	10881.29	165.9 110.7	58.72 S 155.20 E
10978.72	0.41	70.54	N 70 33 E	0.34	10976.29	166.7 110.6	58.59 S 156.10 E
11073.72	0.24	52.84	N 52 50 E	0.21	11071.29	167.1 110.4	58.36 S 156.58 E
11168.72	0.22	336.65	N 23 21 W	0.30	11166.29	167.1 110.3	58.07 S 156.67 E
11263.72	0.11	273.33	N 86 40 W	0.20	11261.29	166.9 110.3	57.90 S 156.51 E
11358.72	0.52	101.36	S 78 38 E	0.66	11356.29	167.2 110.3	57.98 S 156.83 E
11453.72	0.73	93.41	S 86 35 E	0.24	11451.28	168.2 110.2	58.10 S 157.86 E

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EOG Resources

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Location: McVay #10, Lea County, New Mexico

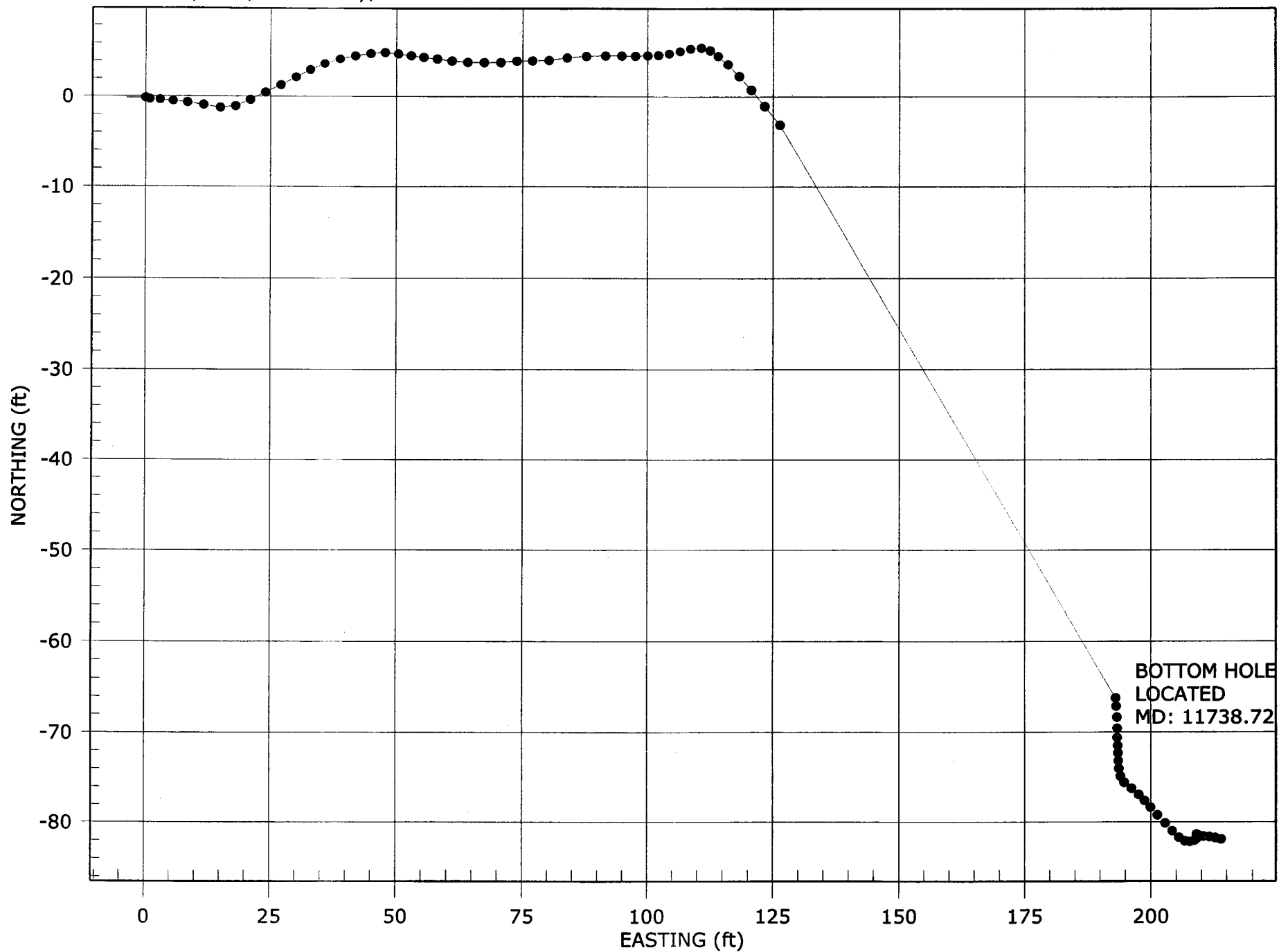
Job Number: MD1103GW312

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
11548.72	0.73	93.28	S 86. 43 E	0.00	11546.27	169.4 110.1	58.17 S 159.06 E
11643.72	0.69	97.64	S 82 22 E	0.07	11641.27	170.5 110.0	58.28 S 160.23 E
11738.72	0.74	98.51	S 81 29 E	0.06	11736.26	171.7 109.9	58.45 S 161.41 E

Final Station Closure: Distance: 171.67 ft Az: 109.91 deg.

EOG RESOURCES
Well: No. 904 4-1/2" Drillpipe
Location: McVay #10, Lea County, New Mexico

Outrun
Gyrodata
MD1103GW312 DEFINITIVE



EOG RESOURCES

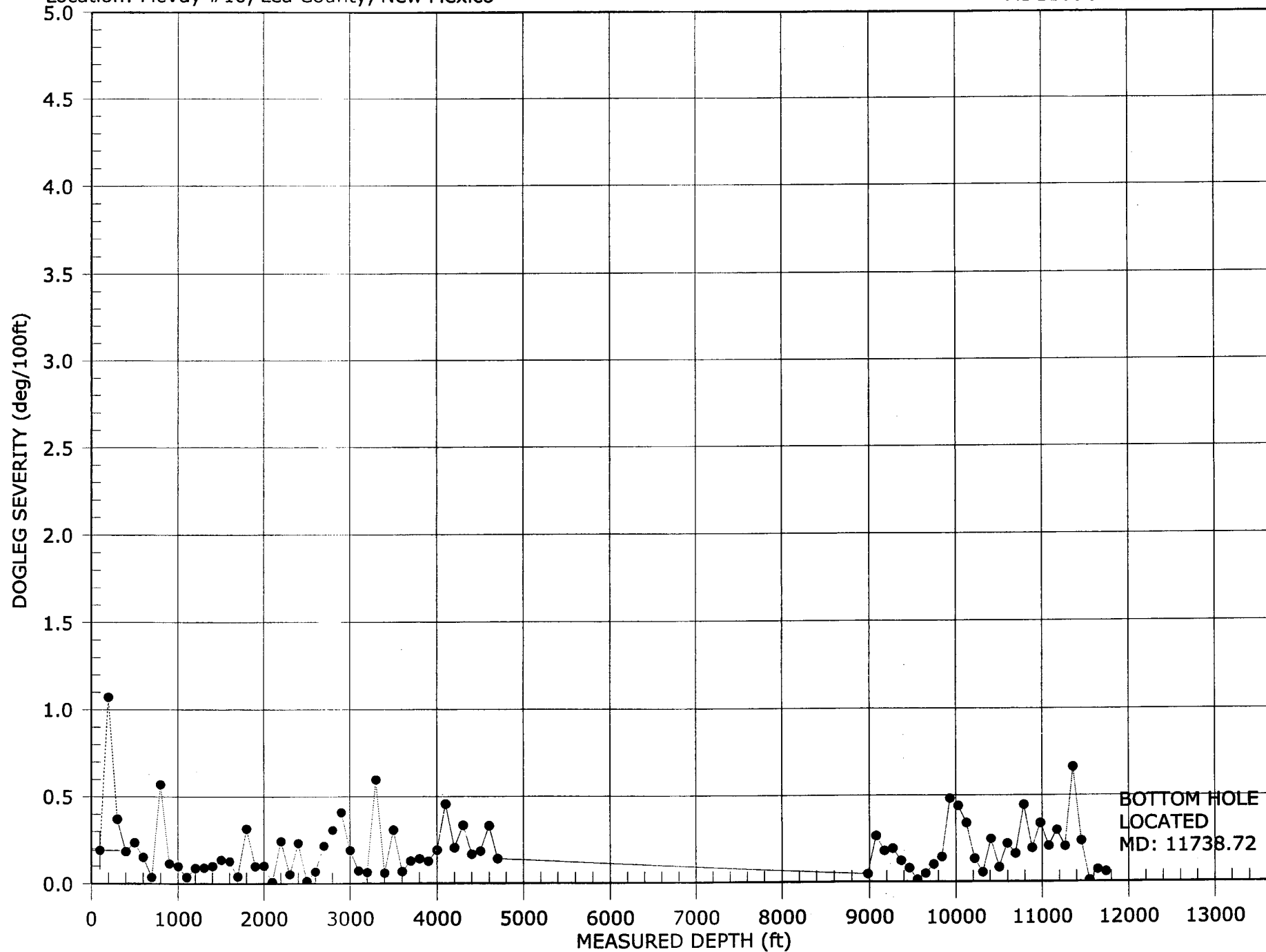
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Outrun

Gyrodata

MD1103GW312 DEFINITIVE



EOG RESOURCES

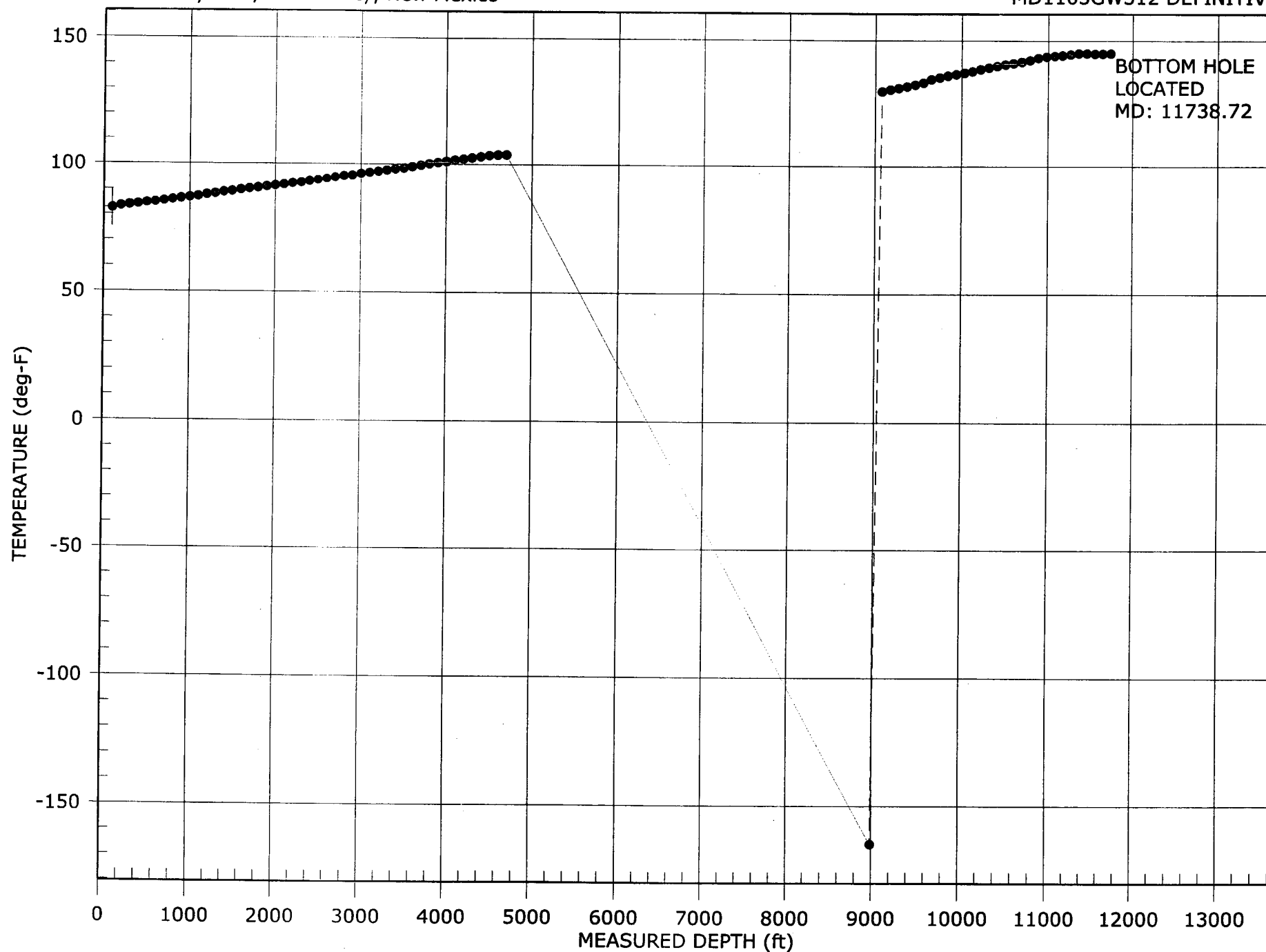
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MD1103GW312 DEFINITIVE





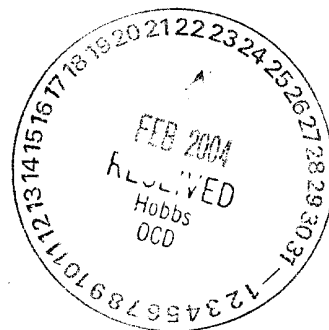
DIRECTIONAL SURVEY REPORT

EOG RESOURCES

RHNU #904

LEA COUNTY, NEW MEXICO

PREPARED BY: ROCK BRUNET



PathFinder Energy Services, Inc.
3329 West Pinhook Road, Lafayette, LA 70508
(337) 233-3982

PATHFINDER
ENERGY SERVICES

3329 West Pinhook Road • Lafayette, LA 70508 • Phone: 337-233-3982 or 800-377-3982 • Fax: 337-234-2988

January 16, 2004

EOG RESOURCES, INC.
4000 N. Big Springs Suite 500
Midland, TX 79705

RE: EOG RESOURCES
RHNU #904
LEA COUNTY, NEW MEXICO
RIG: MCVAY #10
APL NO.: 30-025-36237-00
FILENAME: J-WT-0311-0076

Dear Sir:

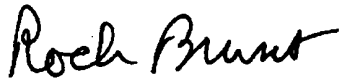
We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

SURVEY DATA

- 1 - Original survey report**
- 2 - Survey report copies**

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (337) 233-3982.

Sincerely,

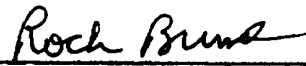

Rock Brunet
Service Coordinator
PathFinder Energy Services

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY: A) DAVID SCOTT
B) CHANCE HODGES
C) SANDON ROATH
3. POSITION OF SAID PERSON(S): (A-C) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 11/28/03 TO 12/20/03
5. STATE IN WHICH SURVEY WAS PERFORMED: ONSHORE, NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY, NEW MEXICO
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

EOG RESOURCES
RHNU #904
LEA COUNTY, NEW MEXICO
RIG: MCVAY #10
9. SURVEY CERTIFIED FROM: 11,851 TO 14,370 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 2,171.56 FEET ON A BEARING OF 265.15 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT AN INTERPOLATED BIT DEPTH OF 14,430
FEET ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



ROCK BRUNET
SERVICE COORDINATOR

Pathfinder

BHL Report

Page 1
Job No: J-WT-0311-0076
Date: 1/6/2004
Time: 1:36 pm
Wellpath ID: RHNU #904
Date Created: 11/25/2003
Last Revision: 1/6/2004

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 264.68 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

EOG RESOURCES
RHNU #904
LEA COUNTY, N.M.
RIG: McVAY #10

DECL: 8.0° EAST TO GRID
KBH: 20 FT ROTARY TO GROUND LEVEL

PATHFINDER OFFICE SUPERVISOR:
GLENN COYLE

PATHFINDER ENGINEERS:
D. SCOTT / C. HODGES / SANDON ROATH / TROY PAREDEZ

Measured Depth	14430.00	(ft)
Inclination	88.50	(deg)
Azimuth	261.00	(deg)
True Vertical Depth	12286.88	(ft)
Vertical Section	2171.48	(ft)
Rectangular Offsets		
North/South	183.51 S	(ft)
East/West	2163.79W	(ft)
Closure Dist & Dir	2171.56 @ 265.15	(deg)
Dogleg Severity	4.06	(deg/100ft)
Build Rate	1.23	(deg/100ft)
Walk Rate	-3.87	(deg/100ft)

Pathfinder

Survey Report

Page 1
Job No: J-WT-0311-0076
Date: 1/6/2004
Time: 1:36 pm
Wellpath ID: RHNU #904
Date Created: 11/25/2003
Last Revision: 1/6/2004

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 284.68 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

EOG RESOURCES
RHNU #904
LEA COUNTY, N.M.
RIG: McVAY #10

DECL: 8.0° EAST TO GRID
KBH: 20 FT ROTARY TO GROUND LEVEL

PATHFINDER OFFICE SUPERVISOR:
GLENN COYLE
PATHFINDER ENGINEERS:
D. SCOTT / C. HODGES / SANDON ROATH / TROY PAREDEZ

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
TIED INTO GYRODATA GYRO SURVEY @ 11738.71' MD.								
11739.00	0.74	98.51	11736.26	0.00	-155.30	58.45 S 161.41 E	171.67@109.91	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.								
11851.00	0.35	31.45	11848.26	112.00	-156.20	58.27 S 162.30 E	172.45@109.75	0.61
11915.00	3.69	276.77	11912.21	64.00	-154.30	57.86 S 160.36 E	170.48@109.84	6.01
11948.00	9.32	275.27	11944.99	33.00	-150.64	57.48 S 156.64 E	166.86@110.15	17.07
11980.00	16.09	274.31	11976.19	32.00	-143.71	56.91 S 149.63 E	160.06@110.82	21.17
12012.00	23.48	271.67	12006.28	32.00	-133.00	56.39 S 138.82 E	149.84@112.11	23.28
12043.00	29.46	271.67	12034.01	31.00	-119.29	55.99 S 125.02 E	136.98@114.13	19.29
12076.00	33.15	274.05	12062.21	33.00	-102.32	55.12 S 107.90 E	121.16@117.06	11.79
12108.00	37.64	274.92	12068.28	32.00	-84.07	53.66 S 89.43 E	104.26@120.97	14.12
12139.00	42.30	274.75	12112.04	31.00	-64.47	51.98 S 69.59 E	86.86@126.76	15.04
12170.00	46.89	274.57	12134.14	31.00	-43.08	50.22 S 47.94 E	69.43@136.33	14.17
12201.00	50.47	274.84	12154.65	31.00	-20.19	48.31 S 24.78 E	54.29@152.85	12.21
12234.00	53.82	275.01	12174.90	33.00	5.45	46.07 S 1.18W	46.06@181.47	10.16
12266.00	57.07	274.84	12193.04	32.00	31.38	43.81 S 27.43W	51.66@212.05	10.17
12298.00	60.67	274.22	12209.58	32.00	58.36	41.65 S 54.74W	68.78@232.73	11.37
12330.00	63.49	273.34	12224.57	32.00	86.28	39.79 S 82.95W	92.00@244.37	9.14
12362.00	66.13	272.38	12238.19	32.00	114.94	38.35 S 111.86W	118.26@251.08	8.69
12394.00	68.85	271.23	12250.44	32.00	144.27	37.42 S 141.41W	146.28@255.18	9.13
12426.00	72.02	270.27	12261.15	32.00	174.25	37.03 S 171.55W	175.50@257.82	10.30
12458.00	74.74	269.91	12270.30	32.00	204.77	36.98 S 202.21W	205.57@259.64	8.57
12490.00	77.47	270.18	12277.99	32.00	235.70	36.96 S 233.27W	236.18@261.00	8.57
12522.00	80.37	270.27	12284.14	32.00	266.95	36.83 S 264.67W	267.23@262.08	9.07
12563.00	83.62	270.53	12289.84	41.00	307.34	36.55 S 305.27W	307.45@263.17	7.95
12663.00	87.05	271.85	12297.98	100.00	406.35	34.48 S 404.90W	406.36@265.13	3.67
12695.00	87.49	269.56	12299.50	32.00	438.14	34.08 S 436.86W	438.16@265.54	7.28

Pathfinder Survey Report

Page 2
Date: 1/6/2004
Wellpath ID: RHNU #904

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
12727.00	88.20	267.54	12300.70	32.00	470.04	34.89 S	468.82W	470.12@	265.74	6.69
12759.00	88.99	265.87	12301.49	32.00	502.01	36.73 S	500.76W	502.10@	265.80	5.77
12790.00	89.34	264.90	12301.94	31.00	533.00	39.23 S	531.65W	533.10@	265.78	3.33
12822.00	90.40	264.99	12302.01	32.00	565.00	42.05 S	563.53W	565.10@	265.73	3.32
12854.00	90.31	264.82	12301.82	32.00	597.00	44.89 S	595.40W	597.06@	265.69	0.60
12885.00	89.60	264.38	12301.84	31.00	628.00	47.80 S	626.26W	628.06@	265.63	2.69
12917.00	89.52	264.29	12302.09	32.00	660.00	50.96 S	658.11W	660.08@	265.57	0.38
12948.00	89.69	264.64	12302.30	31.00	691.00	53.95 S	688.96W	691.07@	265.52	1.26
12980.00	89.52	264.29	12302.52	32.00	723.00	57.04 S	720.81W	723.07@	265.48	1.22
13012.00	89.52	264.02	12302.79	32.00	754.99	60.30 S	752.64W	755.06@	265.42	0.84
13044.00	90.04	263.76	12302.91	32.00	786.99	63.70 S	784.46W	787.05@	265.38	1.82
13076.00	90.04	263.76	12302.89	32.00	818.99	67.18 S	816.27W	819.03@	265.29	0.00
13107.00	89.78	263.50	12302.94	31.00	849.98	70.62 S	847.08W	850.02@	265.23	1.19
13139.00	90.22	263.15	12302.94	32.00	881.97	74.34 S	878.86W	882.00@	265.16	1.76
13169.00	90.13	263.32	12302.85	30.00	911.96	77.88 S	908.86W	911.95@	265.10	0.64
13201.00	90.75	263.94	12302.60	32.00	943.96	81.43 S	940.46W	943.96@	265.05	2.74
13233.00	91.19	264.02	12302.06	32.00	975.95	84.78 S	972.26W	975.97@	265.02	1.40
13264.00	91.10	263.50	12301.44	31.00	1006.94	88.15 S	1003.09W	1006.95@	264.98	1.70
13296.00	90.92	263.50	12300.87	32.00	1038.93	91.77 S	1034.88W	1038.94@	264.93	0.56
13327.00	91.36	263.76	12300.26	31.00	1069.91	95.21 S	1065.65W	1069.92@	264.89	1.65
13358.00	91.63	263.76	12299.45	31.00	1100.90	98.58 S	1096.48W	1100.91@	264.86	0.87
13390.00	91.36	263.50	12298.61	32.00	1132.88	102.13 S	1128.27W	1132.86@	264.83	1.17
13422.00	91.28	262.97	12297.88	32.00	1164.86	105.90 S	1160.04W	1164.87@	264.78	1.67
13454.00	91.63	263.32	12297.06	32.00	1196.84	109.71 S	1191.80W	1196.84@	264.74	1.55
13485.00	91.98	263.15	12296.09	31.00	1227.82	113.36 S	1222.57W	1227.82@	264.70	1.26
13517.00	91.80	263.06	12295.03	32.00	1259.79	117.20 S	1254.32W	1259.79@	264.66	0.63
13549.00	91.98	262.97	12293.98	32.00	1291.76	121.09 S	1286.07W	1291.76@	264.62	0.63
13581.00	91.28	263.23	12293.07	32.00	1323.73	124.94 S	1317.82W	1323.73@	264.58	2.33
13612.00	90.22	263.23	12292.66	31.00	1354.72	128.59 S	1348.61W	1354.72@	264.55	3.42
13644.00	90.04	264.46	12292.59	32.00	1386.71	132.02 S	1380.42W	1386.72@	264.54	3.88
13676.00	90.31	264.02	12292.49	32.00	1418.71	135.23 S	1412.26W	1418.72@	264.53	1.61
13707.00	90.31	263.50	12292.32	31.00	1449.71	138.60 S	1443.07W	1449.71@	264.51	1.68
13739.00	90.75	264.55	12292.03	32.00	1481.70	141.93 S	1474.90W	1481.71@	264.50	3.56
13770.00	90.84	264.73	12291.60	31.00	1512.70	144.83 S	1505.76W	1512.71@	264.51	0.65
13802.00	91.36	265.61	12290.98	32.00	1544.69	147.52 S	1537.64W	1544.70@	264.52	3.19
13834.00	91.98	266.40	12290.05	32.00	1576.67	149.75 S	1569.55W	1576.68@	264.55	3.14
13865.00	91.98	266.22	12288.98	31.00	1607.64	151.74 S	1600.47W	1607.64@	264.58	0.58
13897.00	92.24	266.22	12287.80	32.00	1639.61	153.85 S	1632.37W	1639.61@	264.62	0.81
13929.00	93.12	266.40	12286.30	32.00	1671.56	155.91 S	1664.27W	1671.56@	264.65	2.81
13960.00	93.12	266.40	12284.82	31.00	1702.50	157.85 S	1695.17W	1702.50@	264.68	0.00
13992.00	93.47	266.40	12282.78	32.00	1734.43	159.86 S	1727.05W	1734.43@	264.71	1.09
14024.00	92.77	267.19	12281.04	32.00	1766.36	161.65 S	1758.95W	1766.36@	264.75	3.30
14054.00	91.71	268.42	12279.86	30.00	1796.29	162.79 S	1788.91W	1796.30@	264.80	5.41
14085.00	92.07	268.68	12278.84	31.00	1827.21	163.58 S	1819.88W	1827.22@	264.86	1.43
14117.00	91.10	268.68	12277.96	32.00	1859.12	164.32 S	1851.86W	1859.13@	264.93	3.03

Pathfinder Survey Report

Page 3
Date: 1/8/2004
Wellpath ID: RHNU #904

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
14148.00	90.22	269.30	12277.80	31.00	1890.03	164.86 S	1882.85W	1890.05@265.00	3.47
14179.00	89.00	268.95	12277.81	31.00	1920.93	165.33 S	1913.85W	1920.97@265.06	4.09
14211.00	88.29	268.33	12278.57	32.00	1952.85	166.09 S	1945.83W	1952.90@265.12	2.95
14243.00	87.93	267.72	12279.62	32.00	1984.77	167.20 S	1977.79W	1984.84@265.17	2.21
14275.00	87.85	267.54	12280.80	32.00	2016.71	168.52 S	2009.74W	2016.79@265.21	0.62
14306.00	87.23	266.84	12282.13	31.00	2047.65	170.04 S	2040.68W	2047.75@265.24	3.01
14338.00	87.50	265.43	12283.60	32.00	2079.61	172.19 S	2072.57W	2079.71@265.25	4.48
14370.00	87.76	263.32	12284.93	32.00	2111.58	175.33 S	2104.38W	2111.68@265.24	6.64
Interpolated Survey to Bit Depth @ 14,430' MD.				60.00	2171.48	183.51 S	2163.79W	2171.56@265.15	4.06
14430.00	88.50	261.00	12286.88						

SUB TRACK
Lafayette
#2



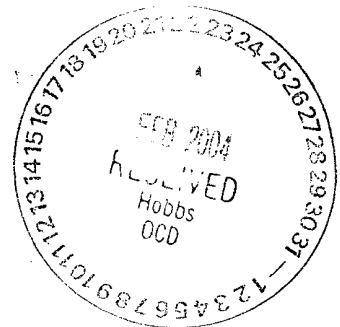
DIRECTIONAL SURVEY REPORT

EOG RESOURCES

RHNU #904 ST 01

LEA COUNTY, NEW MEXICO

PREPARED BY: ROCK BRUNET



PathFinder Energy Services, Inc.
3329 West Pinhook Road, Lafayette, LA 70508
(337) 233-3982

January 16, 2004

EOG RESOURCES, INC.
4000 N. Big Springs Suite 500
Midland, TX 79705

RE: EOG RESOURCES
RHNU #904 ST 01
LEA COUNTY, NEW MEXICO
RIG: MCVAY #10
API NO.: 30-025-36237-01
FILENAME: J-WT-0311-0076

Dear Sir:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

SURVEY DATA

- 1 - Original survey report
- 2 - Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (337) 233-3982.

Sincerely,



Rock Brunet
Service Coordinator
PathFinder Energy Services

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY: A) DAVID SCOTT
B) CHANCE HODGES
C) SANDON ROATH
D) JOEY BOUTTE
E) TROY PAREDEZ
3. POSITION OF SAID PERSON(S): (A-E) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 11/28/03 TO 01/02/04
5. STATE IN WHICH SURVEY WAS PERFORMED: ONSHORE, NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY, NEW MEXICO
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

EOG RESOURCES
RHNU #904 ST 01
LEA COUNTY, NEW MEXICO
RIG: MCVAY #10
9. SURVEY CERTIFIED FROM: 11,851 TO 13,767 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 1,588.40 FEET ON A BEARING OF 266.83 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT AN INTERPOLATED BIT DEPTH OF 13,849
FEET ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



ROCK BRUNET
SERVICE COORDINATOR

Pathfinder

BHL Report

Page 1
Job No: J-WT-0311-0076
Date: 1/15/2004
Time: 9:05 am
Wellpath ID: rhnu904
Date Created: 11/25/2003
Last Revision: 1/15/2004

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 266.42 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

EOG RESOURCES
RHNU #904 ST01
LEA CO., NM
RIG: McVAY #10

DECL: 8.0° EAST TO GRID
KBH: 20 FT ROTARY TO GROUND LEVEL

PATHFINDER OFFICE SUPERVISOR:
GLENN COYLE
PATHFINDER ENGINEERS
D. SCOTT / C. HODGES / SANDON ROATH / TROY PAREDEZ

Measured Depth	13849.00	(ft)
Inclination	89.50	(deg)
Azimuth	265.00	(deg)
True Vertical Depth	12254.74	(ft)
Vertical Section	1588.36	(ft)
Rectangular Offsets		
North/South	87.97 S	(ft)
East/West	1585.96W	(ft)
Closure Dist & Dir	1588.40@266.83	(deg)
Dogleg Severity	1.29	(deg/100ft)
Build Rate	-0.88	(deg/100ft)
Walk Rate	-0.95	(deg/100ft)

Pathfinder

Survey Report

Page 1
Job No: J-WT-0311-0076
Date: 1/15/2004
Time: 9:05 am
Wellpath ID: rhnu904
Date Created: 11/25/2003
Last Revision: 1/15/2004

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 266.42 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

EOG RESOURCES
RHNU #904 ST01
LEA CO., NM
RIG: McVAY #10

DECL: 8.0° EAST TO GRID
KBH: 20 FT ROTARY TO GROUND LEVEL

PATHFINDER OFFICE SUPERVISOR:
GLENN COYLE
PATHFINDER ENGINEERS
D. SCOTT / C. HODGES / SANDON ROATH / TROY PAREDEZ

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
TIED INTO GYRODATA GYRO SURVEY @ 11738.71' MD.									
11739.00	0.74	98.51	11736.26	0.00	-157.45	58.45 S 161.41 E	171.67@109.91		0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.									
11851.00	0.35	31.45	11848.26	112.00	-158.35	58.27 S 162.30 E	172.45@109.75		0.61
11915.00	3.69	276.77	11912.21	64.00	-156.43	57.86 S 160.36 E	170.48@109.84		6.01
11948.00	9.32	275.27	11944.99	33.00	-152.75	57.48 S 156.64 E	166.86@110.15		17.07
11980.00	16.09	274.31	11976.19	32.00	-145.79	56.91 S 149.63 E	160.09@110.82		21.17
12012.00	23.48	271.67	12006.28	32.00	-135.03	56.39 S 138.82 E	149.84@112.11		23.26
12043.00	29.46	271.67	12034.01	31.00	-121.28	55.99 S 125.02 E	136.98@114.13		19.29
12076.00	33.15	274.05	12062.21	33.00	-104.25	55.12 S 107.90 E	121.16@117.06		11.79
12108.00	37.64	274.92	12088.28	32.00	-85.90	53.66 S 89.43 E	104.29@120.97		14.12
12139.00	42.30	274.75	12112.04	31.00	-66.21	51.98 S 69.59 E	86.86@126.76		15.04
12170.00	46.69	274.57	12134.14	31.00	-44.71	50.22 S 47.94 E	69.43@136.33		14.17
12201.00	50.47	274.84	12154.65	31.00	-21.71	48.31 S 24.78 E	54.29@152.85		12.21
12234.00	53.82	275.01	12174.90	33.00	4.05	46.07 S 1.18W	46.09@181.47		10.16
12266.00	57.07	274.84	12193.04	32.00	30.12	43.81 S 27.43W	51.69@212.05		10.17
12298.00	60.67	274.22	12209.58	32.00	57.23	41.65 S 54.74W	68.78@232.73		11.37
12330.00	63.49	273.34	12224.57	32.00	85.27	39.79 S 82.95W	92.00@244.37		9.14
12362.00	66.13	272.38	12238.19	32.00	114.04	38.35 S 111.86W	118.26@251.08		8.69
12394.00	68.85	271.23	12250.44	32.00	143.47	37.42 S 141.41W	146.28@255.18		9.13
12426.00	72.02	270.27	12261.15	32.00	173.53	37.03 S 171.55W	175.50@257.82		10.30
12458.00	74.74	269.91	12270.30	32.00	204.13	36.98 S 202.21W	205.57@259.64		8.57
12490.00	77.47	270.18	12277.99	32.00	235.13	36.96 S 233.27W	236.18@261.00		8.57
12522.00	80.37	270.27	12284.14	32.00	266.46	36.83 S 264.67W	267.23@262.08		9.07
12563.00	83.62	270.53	12289.84	41.00	306.96	36.55 S 305.27W	307.45@263.17		7.95
12663.00	87.05	271.85	12297.98	100.00	406.26	34.48 S 404.90W	406.36@265.13		3.67
START OF SIDETRACK 1									
12690.00	84.59	271.23	12299.94	27.00	433.08	33.75 S 431.81W	433.13@265.53		9.39
12722.00	84.86	274.57	12302.89	32.00	464.74	32.14 S 463.63W	464.75@266.03		10.43
12753.00	87.14	274.66	12305.05	31.00	495.34	29.65 S 494.46W	495.34@266.57		7.36

Pathfinder Survey Report

Page 2
Date: 1/15/2004
Wellpath ID: rhnu904

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
12785.00	88.55	274.22	12308.25	32.00	527.01	27.18 S	526.34W	527.04@267.04	4.62
12817.00	90.80	274.10	12306.43	32.00	558.71	24.86 S	558.25W	558.80@267.45	7.04
12848.00	91.98	272.79	12305.68	31.00	589.47	22.99 S	589.18W	589.63@267.77	5.69
12880.00	92.77	271.58	12304.36	32.00	621.28	21.78 S	621.13W	621.51@267.99	4.51
12912.00	93.21	269.74	12302.69	32.00	653.15	21.41 S	653.08W	653.44@268.12	5.90
12944.00	93.21	267.89	12300.89	32.00	685.07	22.07 S	685.03W	685.38@268.15	5.77
12975.00	93.00	266.60	12299.21	31.00	716.02	23.56 S	715.94W	716.33@268.12	4.21
13007.00	93.20	266.50	12297.48	32.00	747.97	25.48 S	747.84W	748.27@268.05	0.70
13039.00	93.70	265.20	12295.56	32.00	779.91	27.79 S	779.70W	780.19@267.96	4.35
13070.00	93.70	265.10	12293.56	31.00	810.84	30.41 S	810.52W	811.09@267.85	0.32
13102.00	93.40	264.40	12291.58	32.00	842.76	33.33 S	842.33W	842.98@267.73	2.38
13133.00	92.86	264.38	12289.88	31.00	873.70	36.35 S	873.13W	873.89@267.62	1.74
13165.00	92.95	264.64	12288.26	32.00	905.64	39.41 S	904.94W	905.80@267.51	0.86
13197.00	92.86	264.90	12286.64	32.00	937.58	42.32 S	936.77W	937.73@267.41	0.86
13229.00	93.30	264.73	12284.92	32.00	969.53	45.21 S	968.59W	969.65@267.33	1.47
13261.00	93.47	265.08	12283.03	32.00	1001.46	48.05 S	1000.41W	1001.56@267.25	1.21
13292.00	94.09	265.61	12280.99	31.00	1032.39	50.56 S	1031.24W	1032.48@267.19	2.63
13324.00	94.44	265.52	12278.61	32.00	1064.29	53.03 S	1063.06W	1064.38@267.14	1.13
13356.00	93.83	265.34	12276.30	32.00	1096.20	55.57 S	1094.87W	1096.28@267.09	1.99
13387.00	93.21	265.52	12274.40	31.00	1127.14	58.04 S	1125.71W	1127.21@267.05	2.08
13419.00	93.21	265.78	12272.60	32.00	1159.09	60.46 S	1157.57W	1159.15@267.01	0.81
13451.00	93.30	265.90	12270.79	32.00	1191.04	62.78 S	1189.44W	1191.09@266.98	0.47
13482.00	93.56	266.40	12268.93	31.00	1221.98	64.85 S	1220.31W	1222.03@266.96	1.82
13514.00	95.30	266.80	12266.46	32.00	1253.88	66.75 S	1252.16W	1253.94@266.95	5.58
13546.00	96.10	267.50	12263.28	32.00	1285.72	68.33 S	1283.96W	1285.78@266.95	3.31
13578.00	96.20	267.30	12259.85	32.00	1317.53	69.77 S	1315.74W	1317.59@266.96	0.70
13610.00	93.47	266.75	12257.16	32.00	1349.41	71.43 S	1347.58W	1349.47@266.97	8.70
13641.00	90.85	266.57	12255.99	31.00	1380.39	73.23 S	1378.51W	1380.45@266.96	8.47
13672.00	90.66	266.31	12255.58	31.00	1411.39	75.16 S	1409.44W	1411.45@266.95	1.04
13704.00	90.84	266.57	12255.16	32.00	1443.38	77.14 S	1441.38W	1443.44@266.94	0.99
13736.00	90.60	266.10	12254.76	32.00	1475.38	79.19 S	1473.31W	1475.44@266.92	1.65
13767.00	90.22	265.78	12254.54	31.00	1506.38	81.38 S	1504.23W	1506.43@266.90	1.60
Interpolated Survey to Bit Depth @13,849' MD.									
13849.00	89.50	265.00	12254.74	82.00	1588.36	87.97 S	1585.96W	1588.40@266.83	1.29