

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

S

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other _____

2. Name of Operator
LCX Energy, LLC.

3. Address
110 North Marienfeld, Suite 200 Midland TX 79701

3.a. Phone No. (Include area code)
(432)262-4014

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At Surface 760 FSL & 760 FEL UL: P, Sec:31, T:16S, R: 25E

At top prod. interval reported below 972 FSL & 760 FEL

At total depth 753 FNL & 846 FEL Sec:31, T:16S, R:25E

JUL - 8 2008
OCD-ARTESIA

14. Date Spudded

03/01/2008

15. Date T.D. Reached

03/19/2008

16. Date Completed

☐ D & A ☒ Ready to Prod.
04/29/2008

18. Total Depth: MD 8372
TVD 5090

19. Plug Back T.D.: MD 8327
TVD 4398

20. Depth Bridge Plug Set. MD 4656
TVD 4656

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8	48	0	359		448 Class C	108	SURFACE	Circ 212
12 1/4	9 5/8	40	0	1103		475 Class C	164	SURFACE	Circ 26 sx
8 3/4	7	26	0	5090		487 Class C	175	2010'	CBL
6 1/4	4 1/2	11.6	0	8372		200 PVL		4200	CBL

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8	4663	4654						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) Wolfcamp	5245	8325	5245-6005		50	Open
B)			6170-6765		50	Open
C)			6890-7493		50	Open
D)			7701-8325		50	Open

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5245-8325	Frac w/8475 bbls water, 71601# sand, 581 Tons CO2

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
5/1/08	5/2/08	24	→	0	1559	25		.6908	Flowing
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
24/64	SI 900		→	0	1559	25		Producing	

Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas. Depth
San Andres	569				
Glorieta	1706				
Tubb	3189				
Lower Abo	4912				
Wolfcamp	4890				

32. Additional remarks (include plugging procedure):

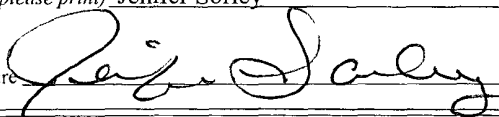
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geological Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
☐ Core Analysis
☐ Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Jenifer SorleyTitle Regulatory Analyst

Signature


Date 07/07/2008

Title 18 U.S.C. Section 101 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

APR 18 08 04:01p

WILDCAT MEAS & KELTIC SER

(505) 748-9852

p.2

Wildcat Measurement Service
P.O.Box 1836
416 East Main Street
Artesia, NM 88211-1836

4/18/2008 3:38 PM
Phone: 575-748-3481
888-421-8453

Fax: 575-748-9852

dnorman@wildcatms.com

GAS ANALYSIS REPORT

Analysis For: LCX ENERGY

Field Name:

Well Name: THAMES FEDERAL "31" #1

Station Number:

Purpose: SPOT

Sample Deg. F:

Volume/Day:

Formation:

Line PSIG: 130.0

Line PSIA: 143.2

Run No: 280418-02

Date Run: 04/18/2008

Date Sampled: 04/18/2008

Producer: LCX ENERGY

County: EDDY

State: NM

Sampled By: MIKE SARRACINO

Atmos Deg. F:

Pressure Base: 14.730

Real BTU Dry: 1065.757

Real BTU Wet: 1049.674

GAS COMPONENTS			
		MOL%	GPM
Oxygen	O2:	0.0000	
Carbon Dioxide	CO2:	0.0589	
Nitrogen	N2:	0.6312	
Hydrogen Sulfide	H2S:	0.0000	
Methane	C1:	84.3495	
Ethane	C2:	5.3871	1.4365
Propane	C3:	1.9467	0.5347
Iso-Butane	IC4:	0.3026	0.0987
Nor-Butane	NC4:	0.5368	0.1687
Iso-Pentane	IC5:	0.1746	0.0637
Nor-Pentane	NC5:	0.1543	0.0558
Hexanes Plus	C6+:	0.4586	0.1989
Totals		100.0000	2.5571

Calc. Ideal Gravity: 0.6908

Calc. Real Gravity: 0.6925

Field Gravity:

Standard Pressure: 14.696

BTU Dry: 1083.322

BTU Wet: 1044.820

Z Factor: 0.9971

Average Mol Weight: 20.0053

Average CuFt/Gal: 57.2260

26 lb. Product: 0.5025

Ethane+ GPM: 2.5571

Propane+ GPM: 1.1207

Butane+ GPM: 0.5859

Pentane+ GPM: 0.3184

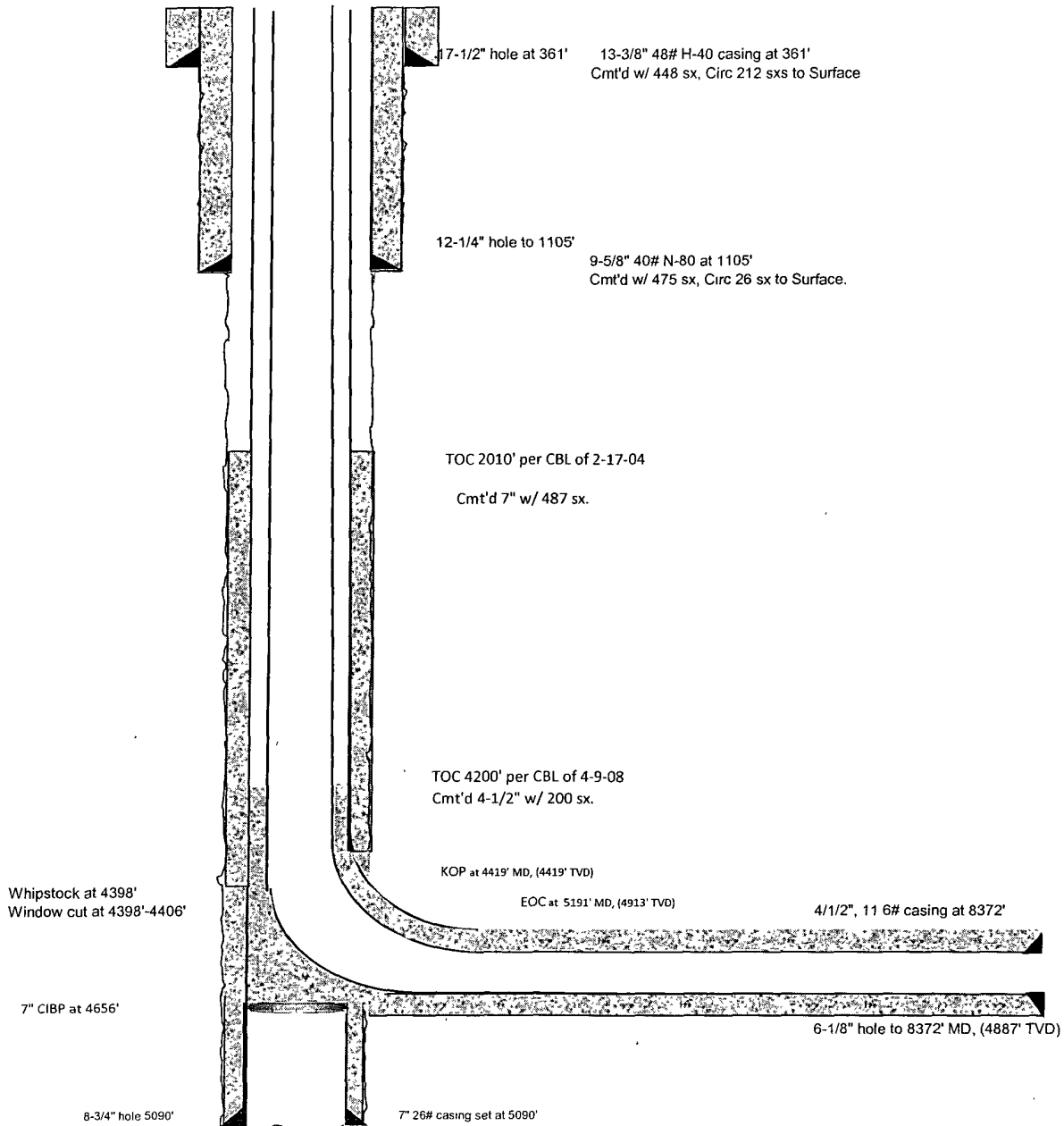
Remarks:

H2S IN GAS STREAM ON LOCATION: NONE DETECTED

Analysis By: Don Norman

LCX Energy, LLC
Thames 31 Federal #1
As Completed
4/25/2008

API# 30-015-33139
Surface Location 760' FSL & 780' FEL Sec 31 T-16S, R25E, N M P M Survey, Eddy Co, NM



A Gyrodata Directional Survey

for

LCX ENERGY

Lease: Thames "31" Federal Well: No. 1, 4-1/2 Drillpipe
Location: Big Dog 2, Eddy County, New Mexico

Job Number: MD0308GW135

Run Date: 02 Mar 2008

Surveyor: Oscar Velasquez; James King

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.873889 deg. N Longitude: 104.518056 deg. W

Azimuth Correction:

Gyro: 0.10000 deg East to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

LCX Energy

Lease: Thames "31" Federal Well: No. 1, 4-1/2 Drillpipe

Location: Big Dog 2, Eddy County, New Mexico

Job Number: MD0308GW135

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 - 4315 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 3-1/2 DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO BIG DOG RIG 2 RKB(+11 ft)							

200.00	0.22	101.26	S 78 44 E	0.11	200.00	0.4 101.3	0.07 S 0.37 E
400.00	0.33	18.13	N 18 8 E	0.19	400.00	1.0 66.2	0.41 N 0.92 E
600.00	0.13	284.32	N 75 41 W	0.18	600.00	1.3 41.0	1.01 N 0.88 E
800.00	0.37	79.97	N 79 58 E	0.24	800.00	1.8 47.7	1.18 N 1.30 E
1000.00	0.32	48.75	N 48 45 E	0.10	999.99	2.9 54.8	1.66 N 2.35 E
1200.00	0.38	184.35	S 4 21 W	0.32	1199.99	3.0 63.3	1.36 N 2.71 E
1400.00	0.52	114.62	S 65 23 E	0.26	1399.99	3.5 84.6	0.33 N 3.49 E
1600.00	0.33	68.45	N 68 27 E	0.19	1599.98	4.9 88.1	0.16 N 4.85 E
1800.00	0.16	288.97	N 71 2 W	0.23	1799.98	5.1 84.9	0.46 N 5.13 E
2000.00	0.24	263.11	S 83 6 W	0.06	1999.98	4.5 83.7	0.49 N 4.45 E
2200.00	0.41	206.89	S 26 53 W	0.17	2199.98	3.7 93.1	0.20 S 3.70 E
2400.00	0.21	349.30	N 10 42 W	0.30	2399.97	3.3 98.3	0.48 S 3.30 E
2600.00	0.45	178.45	S 1 33 E	0.33	2599.97	3.4 105.6	0.91 S 3.26 E
2800.00	0.38	71.41	N 71 24 E	0.33	2799.97	4.2 110.9	1.49 S 3.90 E
3000.00	0.34	258.02	S 78 1 W	0.36	2999.97	4.2 109.5	1.40 S 3.95 E
3200.00	0.42	66.78	N 66 47 E	0.38	3199.97	4.2 107.0	1.24 S 4.05 E
3400.00	0.18	313.63	N 46 22 W	0.26	3399.96	4.6 99.3	0.74 S 4.50 E
3600.00	0.31	199.17	S 19 10 W	0.21	3599.96	4.2 104.2	1.04 S 4.10 E
3800.00	0.25	191.31	S 11 18 W	0.04	3799.96	4.3 117.4	1.98 S 3.83 E

A Gyrodata Directional Survey

LCX Energy

Lease: Thames "31" Federal Well: No. 1, 4-1/2 Drillpipe

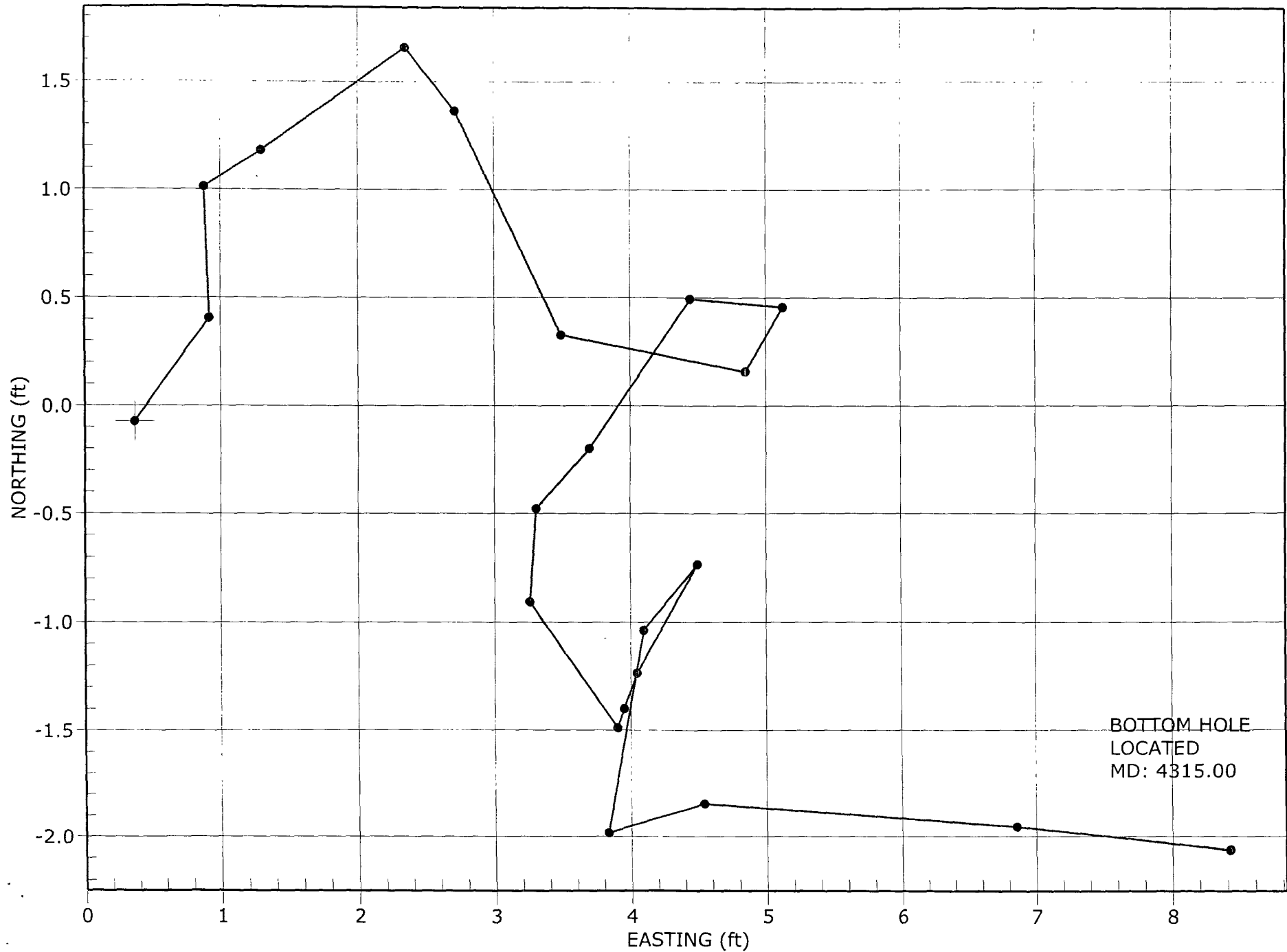
Location: Big Dog 2, Eddy County, New Mexico

Job Number: MD0308GW135

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
4000.00	0.56	54.40	N 54 24 E	0.38	3999.96	4.9 112.1	1.84 S 4.54 E
4200.00	0.95	114.21	S 65 48 E	0.41	4199.94	7.1 105.9	1.95 S 6.86 E
4315.00	0.75	67.44	N 67 26 E	0.61	4314.93	8.7 103.7	2.06 S 8.42 E

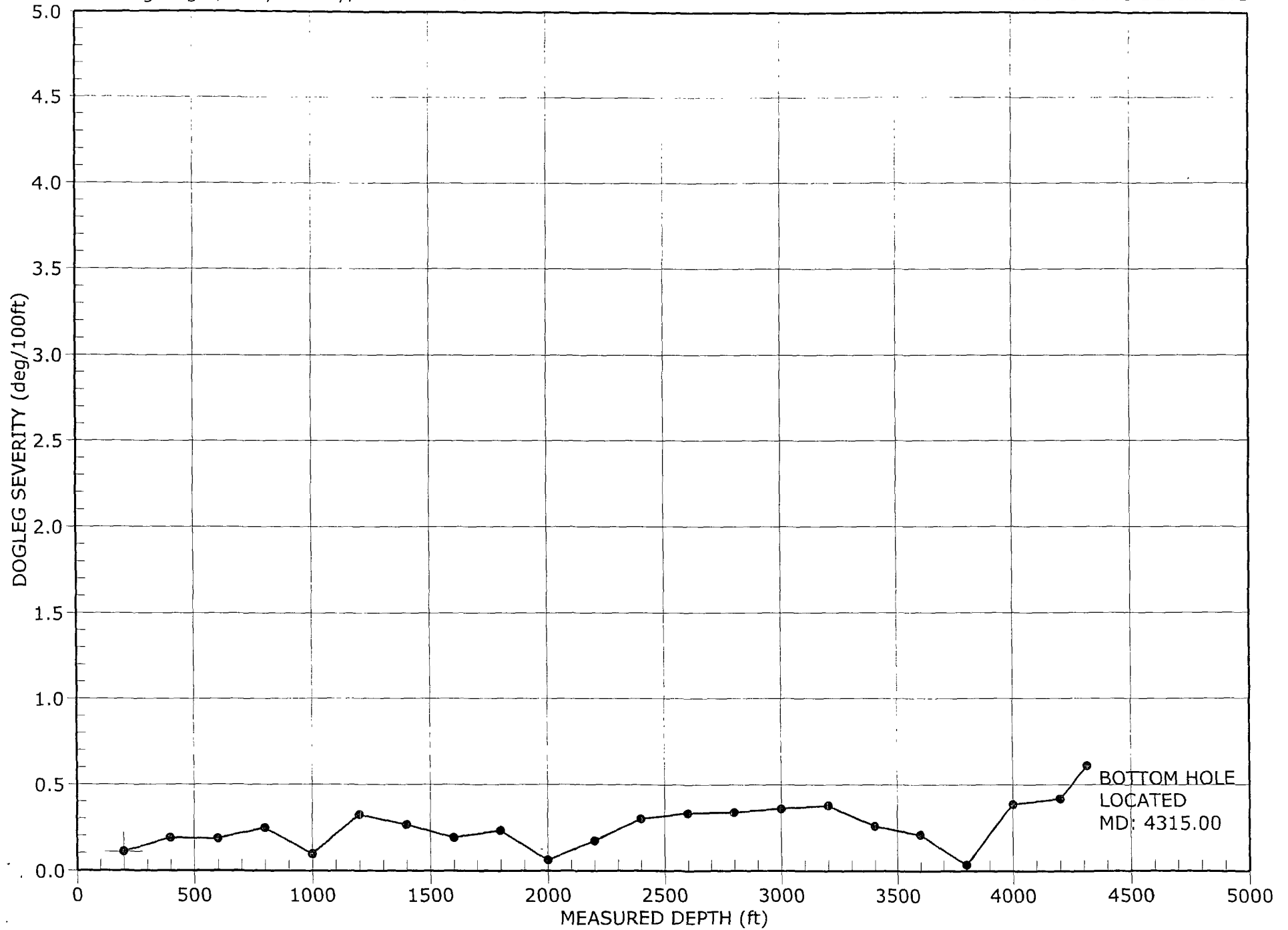
Final Station Closure: Distance: 8.67 ft Az: 103.75 deg.

Inrun
Gyrodata
MD0308GW135 DEFINITIVE



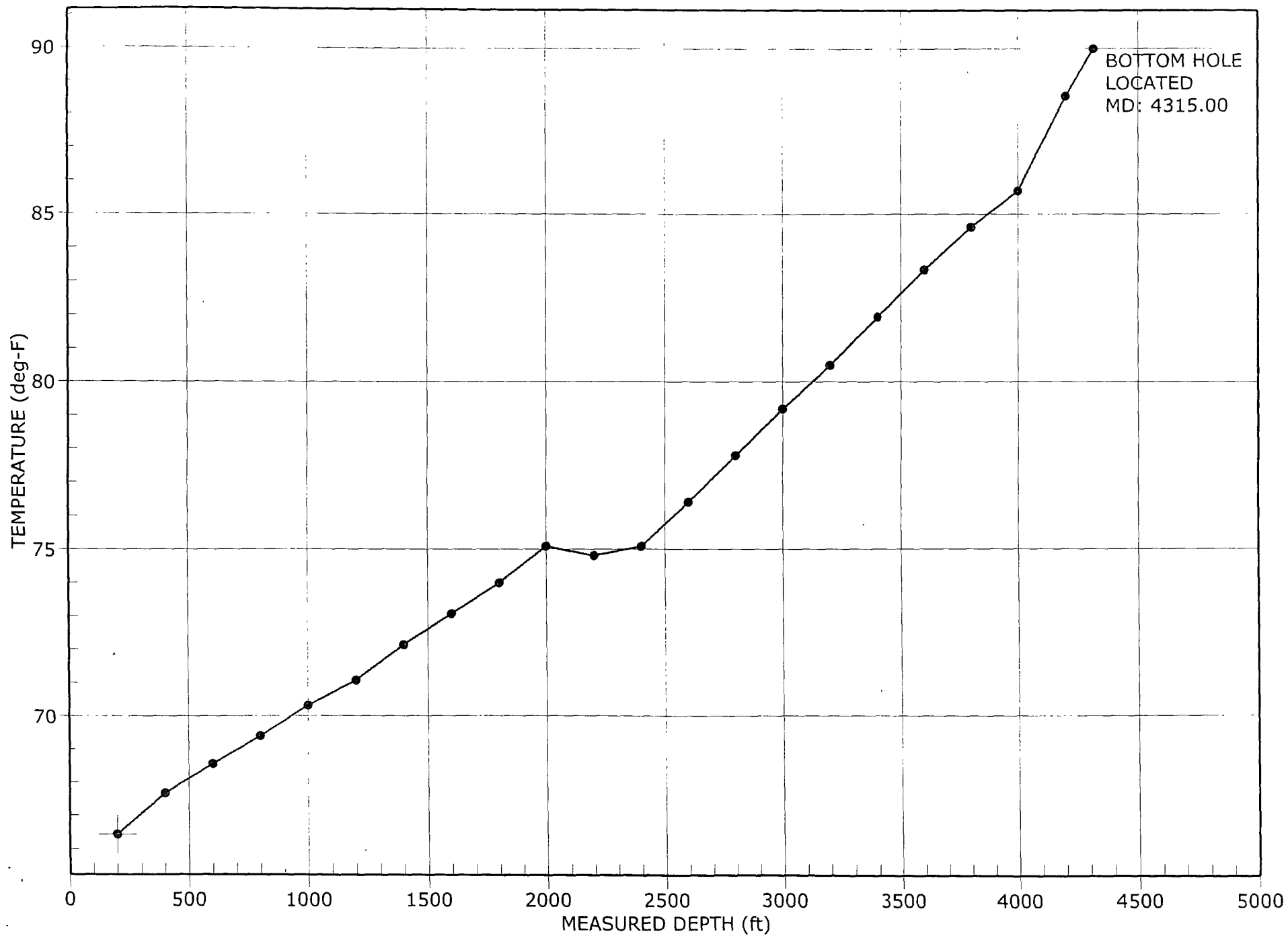
LCX Energy
Well: Thames "31" Federal No. 1 4-1/2 Drillpipe
Location: Big Dog 2, Eddy County, New Mexico

Inrun
Gyrodata
MD0308GW135 DEFINITIVE



LCX Energy
Well: Thames "31" Federal No. 1 4-1/2 Drillpipe
Location: Big Dog 2, Eddy County, New Mexico

Inrun
Gyrodata
MD0308GW135 DEFINITIVE



A Gyrodata Directional Survey

for

LCX ENERGY

Lease: Thames 31 Federal Well: No.1, 2-7/8 Drillpipe
Location: L& W Well Service, Eddy County, New Mexico

Job Number: MD1107GW392

Run Date: 3/10/2008 3:14:43 PM

Surveyor: James King; Junior Pena

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.874030 deg. N Longitude: 104.518310 deg. E

Azimuth Correction:

Gyro: 0.10000 deg East to Grid North

Proposed Well Direction: 312.000 deg

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

L C X Energy

Lease: Thames 31 Federal Well: No.1, 2-7/8 Drillpipe

Location: L& W Well Service, Eddy County, New Mexico

Job Number: MD1107GW392

MEASURED DEPTH feet	I N C L deg.	A Z I M U T H deg.	V E R T I C A L SECTION feet	D O G L E G SEVERITY deg./ 100 ft.	V E R T I C A L DEPTH feet	C L O S U R E D I S T. AZ I M U T H feet deg.	H O R I Z O N T A L C O O R D I N A T E S feet
0.00	0.00	0.00	0.0	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 - 4347 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 2-7/8 TUBING							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO GROUND LEVEL							
GYRO TOOLFACE EQUALS TO DIRECTION OF KEYWAY INSIDE UBHO SUB							
UBHO SUB PROVIDED BY BAKER WHIPSTOCK HAND							

200.00	0.16	333.40	0.3	0.08	200.00	0.3 333.4	0.25 N 0.13 W
400.00	0.40	92.41	-0.0	0.25	400.00	0.7 42.7	0.48 N 0.44 E
600.00	0.17	154.07	-0.8	0.18	600.00	1.3 81.9	0.18 N 1.27 E
800.00	0.26	147.02	-1.5	0.05	799.99	1.7 105.8	0.47 S 1.65 E
1000.00	0.28	126.70	-2.5	0.05	999.99	2.5 116.4	1.13 S 2.28 E
1200.00	0.24	104.60	-3.3	0.05	1199.99	3.4 116.4	1.53 S 3.08 E
1400.00	0.15	144.51	-3.9	0.08	1399.99	4.1 117.0	1.85 S 3.64 E
1600.00	0.19	120.48	-4.5	0.04	1599.99	4.7 118.8	2.24 S 4.08 E
1800.00	0.21	148.97	-5.2	0.05	1799.99	5.3 120.9	2.72 S 4.55 E
2000.00	0.17	157.19	-5.8	0.03	1999.99	5.9 124.3	3.31 S 4.85 E
2200.00	0.12	120.33	-6.3	0.05	2199.99	6.3 125.6	3.68 S 5.15 E
2400.00	0.20	137.19	-6.9	0.05	2399.98	6.9 126.0	4.05 S 5.58 E
2600.00	0.12	185.80	-7.3	0.08	2599.98	7.4 128.0	4.52 S 5.80 E
2800.00	0.08	144.16	-7.6	0.04	2799.98	7.6 129.7	4.86 S 5.86 E
3000.00	0.17	123.27	-8.0	0.05	2999.98	8.0 129.7	5.13 S 6.19 E
3200.00	0.09	123.62	-8.5	0.04	3199.98	8.5 129.3	5.39 S 6.58 E
3400.00	0.16	105.64	-8.9	0.04	3399.98	8.9 128.5	5.56 S 6.99 E
3600.00	0.22	118.98	-9.6	0.04	3599.98	9.6 127.4	5.82 S 7.60 E

A Gyrodata Directional Survey

LCX Energy

Lease: Thames 31 Federal Well: No.1, 2-7/8 Drillpipe

Location: L& W Well Service, Eddy County, New Mexico

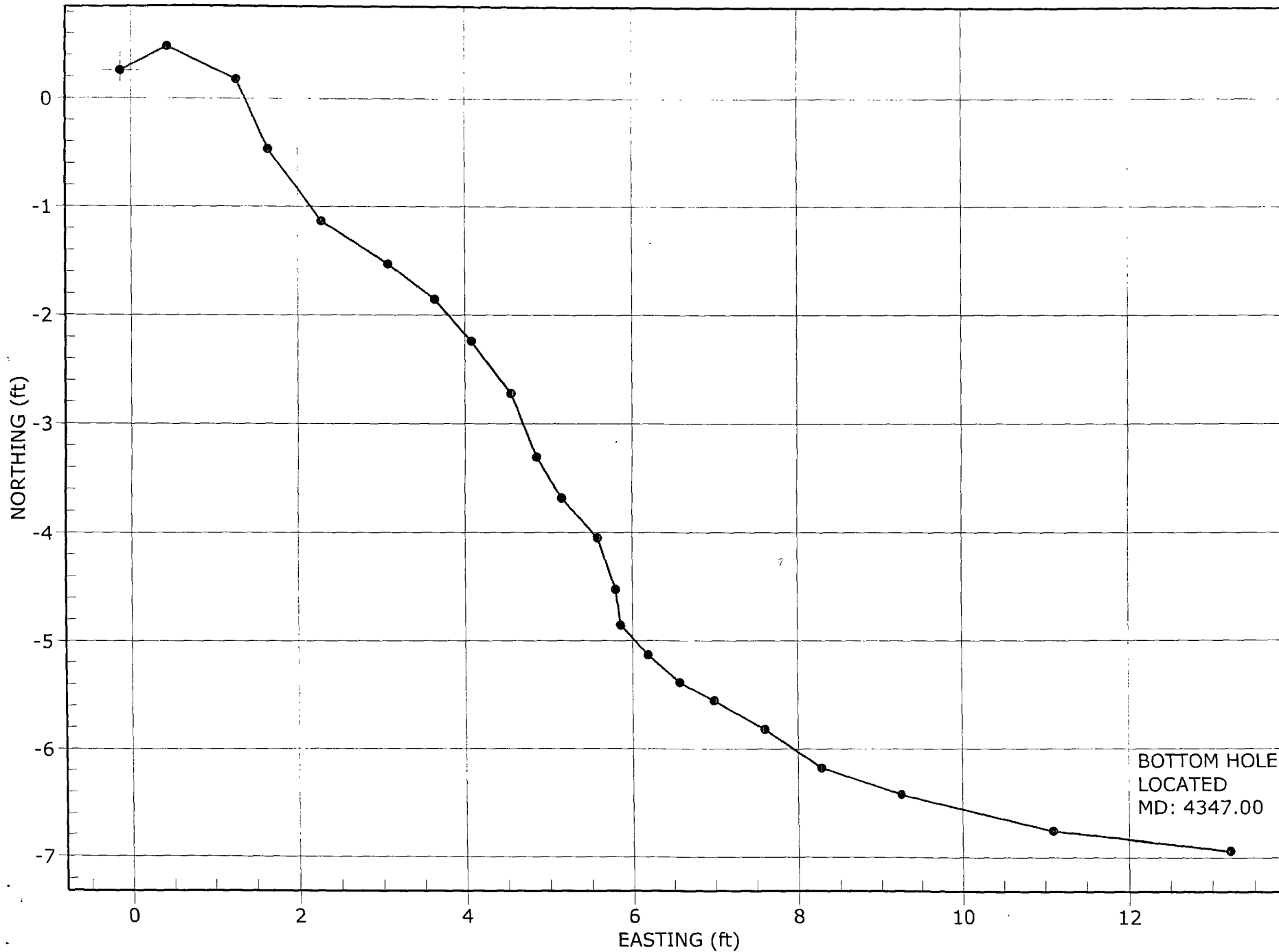
Job Number: MD1107GW392

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
3800.00	0.22	116.41	-10.3	0.01	3799.98	10.3 126.7	6.18 S 8.28 E
4000.00	0.36	97.05	-11.2	0.09	3999.98	11.3 124.8	6.42 S 9.24 E
4200.00	0.72	102.14	-12.8	0.18	4199.97	13.0 121.4	6.76 S 11.10 E
4347.00	0.95	89.25	-14.5	0.20	4346.95	14.9 117.7	6.94 S 13.22 E

Final Station Closure: Distance: 14.93 ft Az: 117.71 deg.

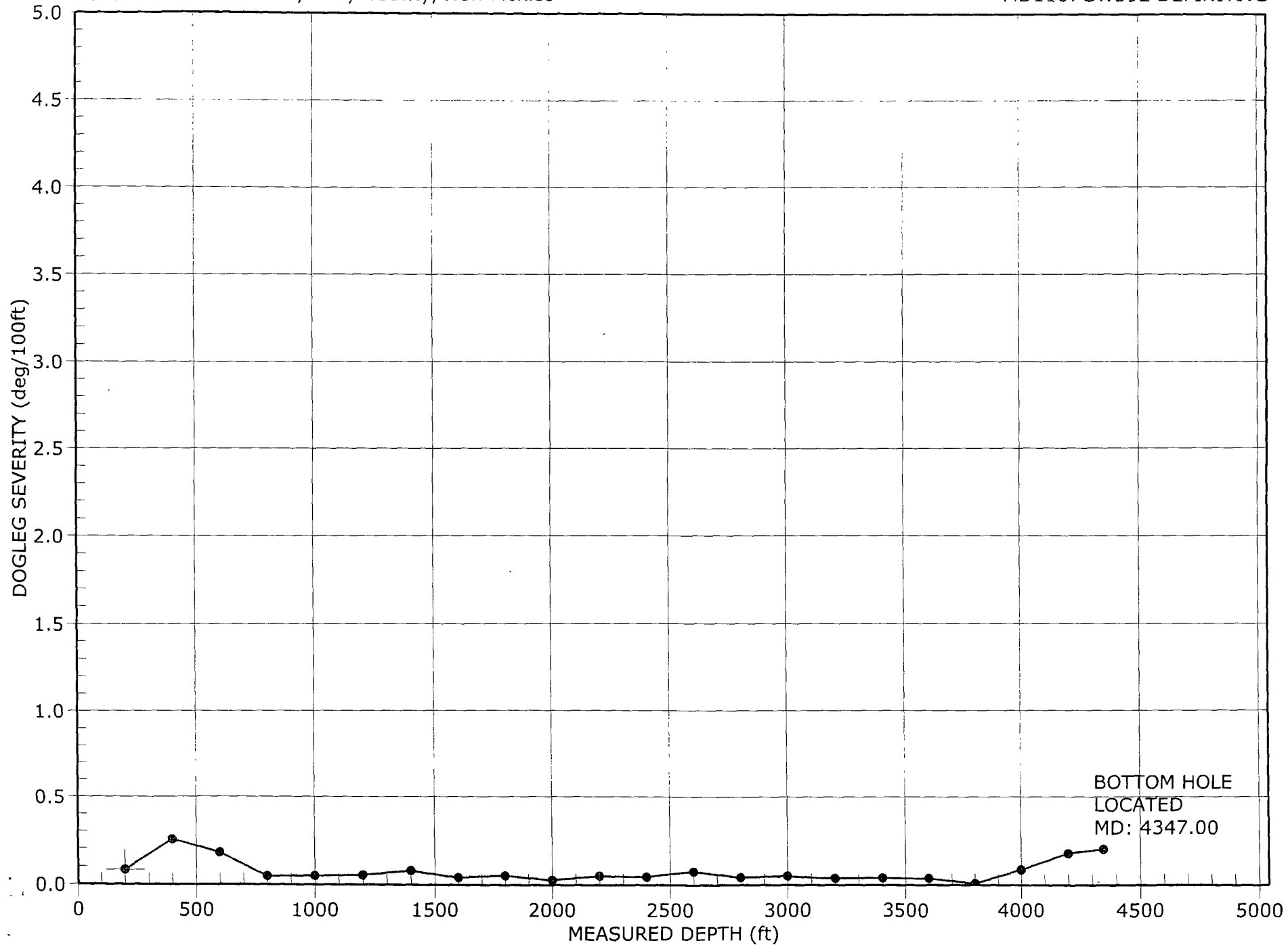
L C X Energy
Well: Thames 31 Federal No.1 2-7/8 Drillpipe
Location: L& W Well Service, Eddy County, New Mexico

Inrun
Gyrodata
MD1107GW392 DEFINITIVE



L C X Energy
Well: Thames 31 Federal No.1 2-7/8 Drillpipe
Location: L& W Well Service, Eddy County, New Mexico

Inrun
Gyrodata
MD1107GW392 DEFINITIVE



L C X Energy
Well: Thames 31 Federal No.1 2-7/8 Drillpipe
Location: L& W Well Service, Eddy County, New Mexico

Inrun
Gyrodata
MD1107GW392 DEFINITIVE

