

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240
FORM APPROVED
OMB No. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOGS, NM 88240
NM19623

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No. NMNM104037X		
2. Name of Operator EOG RESOURCES, INC.			8. Lease Name and Well No. RED HILLS NORTH UNIT 307H		
3. Address P. O. BOX 2267 MIDLAND, TX 79702			9. API Well No. 30-025-35639		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SENE 1980FNL 990FEL At top prod interval reported below SENE 2100FSL 1600FEL At total depth BHL: D-18-25s-34e, 780/N & 490/W			10. Field and Pool, or Exploratory RED HILLS; BONE SPRING		
14. Date Spudded 08/12/2001			15. Date T.D. Reached 09/23/2001		
16. Date Completed ☐ D & A ☒ Ready to Prod. 10/12/2001			17. Elevations (DF, KB, RT, GL)* 3351 GL		
18. Total Depth: MD 13930 TVD 12400		19. Plug Back T.D.: MD 13880 TVD 11742		20. Depth Bridge Plug Set: MD 13875 TVD 13875	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR-DSN W/CALIPER; GR/N/D/LL			22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)		

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
17.500	13.375 J55	48.0		674		500	24	0	0
12.250	9.625 J55	40.0		5031		1450	21	0	0
8.750	7.000 P110	26.0		12356		950	27	4500	0
Liner	4.50	11.6#	11670	13930					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	11670							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	12750	13870	12758 TO 13840	3.375	10	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
12758 TO 13840	FRAC W/142,000 GAL 30# DELTA FRAC 200 & 180,000# 20/40 ECONOPROP.

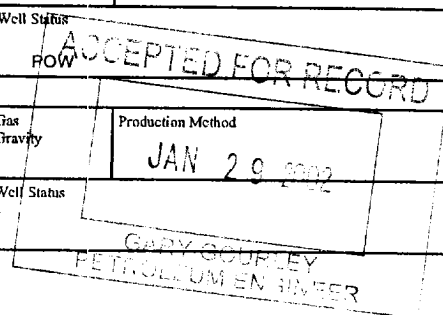
28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/12/2001	01/17/2002	24	→	207.0	281.0	17.0			ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	180	90.0	→					POW	

28a. 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
			→						JAN 29 2002
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)



J
C
K
BLM-7 CED-1 W1-5 LH Rev

MAR 28 2003

BUREAU OF LAND MGMT.
ROSSELL OFFICE

2002 JAN 24 AM 8:40

RECEIVED

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.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of 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
RUSTLER	1096			RUSTLER	1096
DELAWARE	5180			DELAWARE	5180
BONE SPRING	9270			BONE SPRING	9270
3RD BS	1190			3RD BS	11900
WOLFCAMP	12290			WOLFCAMP	12290
STRAWN	14139			STRAWN	14139
ATOKA	14330			ATOKA	14330
ATOKA CARB.	14440			ATOKA CARB	14440

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

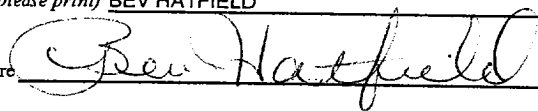
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Name (please print) BEV HATFIELD

Title

Sr. Regulatory Admin

Signature



Date 01/22/2002

Title 18 U.S.C. Section 1001 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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SCANNED

Well Name and Number: Red Hills North #307H

Location: Sec. 13, T25S, R33E, Lea County, NM

Operator: EOG Resources, Inc.

Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth		Degrees @ Depth		Degrees @ Depth	
1	258	$\frac{3}{4}$	6547	52	12315
$\frac{1}{2}$	670	$\frac{3}{4}$	7053	65	12403
$\frac{1}{2}$	1164	1	7561	76	12467
$\frac{1}{2}$	1640	$1 \frac{1}{4}$	8068	88	12561
$\frac{1}{2}$	2147	$1 \frac{1}{4}$	8606	$91 \frac{1}{2}$	12657
$\frac{3}{4}$	2654	1	9113	91	12910
1	3129	$\frac{3}{4}$	9620	$91 \frac{1}{2}$	13130
$1 \frac{3}{4}$	3635	1	10131	92	13164
$2 \frac{1}{4}$	3826	1	10613	$92 \frac{3}{4}$	13354
$1 \frac{3}{4}$	4047	$1 \frac{1}{2}$	11156	91	13841
$1 \frac{3}{4}$	4333	$1 \frac{1}{2}$	11672	$91 \frac{1}{2}$	13737
$2 \frac{3}{4}$	4807	$1 \frac{3}{4}$	12151	90	13864
$2 \frac{3}{4}$	5031	$26 \frac{3}{4}$	12061	90	13927
$\frac{3}{4}$	5531	39	12189		
1	6039	46	12252		

Drilling Contractor: McVay Drilling Company

By: Jan Klyne Jr.

Subscribed and sworn to before me this 28th day of September, 2001

Jana Hlender
Notary Public

My Commission Expires: 8-16-01

Lea County, New Mexico

District I
PO Box 1900, Hobbs, NM 88241-1900

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code		*Pool Name	
				Red Hills Bone Spring	
*Property Code		*Property Name			*Well Number
		RED HILLS NORTH UNIT			307
*OGRND No.		*Operator Name			*Elevation
7377		EOG RESOURCES INC.			3351

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	13	25-S	33-E		1980	NORTH	990	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

*Dedicated Acres	*Joint or Infill	*Consolidation Code	*Order No.
80			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 EOG RESOURCES INC. RED HILLS NORTH UNIT No. 307 ELEV.=3351' Y=412770.88 X=751897.22 LAT.=32°07'55.96" LONG.=103°31'12.85" 1980' 990' HORIZONTAL DRILLING DIRECTION				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Mike Francis</i> Signature Mike Francis Printed Name Agent Title 5/7/01 Date	
¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to best of my belief. MARCH 28, 2001 Date of Survey Signature and Seal of Professional Surveyor: JAMES E. TOMPKINS REGISTERED PROFESSIONAL SURVEYOR NEW MEXICO 14729 14729					

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-35639		2 Pool Code 51020		3 Pool Name Red Hills; Bone Spring	
4 Property Code 26406		5 Property Name Red Hills North Unit			6 Well Number 307
7 OGRID No. 7377		8 Operator Name EOG Resources, Inc.			9 Elevation 3351

10 Surface Location

UL, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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11 Bottom Hole Location If Different From Surface

UL, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
8 0	18	25S	34E		780	North	940	West	Lea
12 Dedicated Acres 40		13 Joint or Infill		14 Consolidation Code		15 Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Stan Wagner Printed Name Regulatory Analyst Title 3/26/2003 Date
				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

gyrodata

Gyrodata Incorporated
3811 S. Co. Rd. 1285
Odessa, TX. 79765

915/561-8458
Fax: 915/563-7982

TD 13930

100
125400

SURVEY REPORT
EOG RESOURCES
RED HILLS NORTH UNIT #307H
MCVAY #10
LEA COUNTY, NEW MEXICO
MD0801GMW336

AUGUST 30, 2001

 **ORIGINAL**



Gyrodata Incorporated
3811 S. Co. Rd. 1285
Odessa, TX. 79765

915/561-8458
Fax: 915/563-7982

August 31, 2001

Attn: Jeff Gordon
EOG Resources
4000 N Big Spring St. Rm 500
Midland, Texas 79705

Re: **Red Hills North Unit #307H**
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,

A handwritten signature in cursive script that reads "Jena Tisdale".

Jena Tisdale
Operations

A Gyrodata Directional Survey

for

EOG RESOURCES

Location: McVAY #10, LEA COUNTY, NEW MEXICO
Well: RED HILLS NORTH UNIT #307H, 4-1/2" DRILLPIPE

Job Number: MD0801GMW336

Run Date: 8/30/01 12:02:16 PM

Surveyor: Tom Morren

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.132180 deg. N

Azimuth Correction:

Gyro: -0.43000 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

A Gyrodata Directional Survey

EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H, 4-1/2" DRILLPIPE

Location: McVAY #10, LEA COUNTY, NEW MEXICO

Job Number: MD0801GMW336

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
0.0	0.00	0.00	N 0 0 E	0.00	0.0	0.0 0.0	0.00 N 0.00 E
0 - 12400 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO McVAY #10 R.K.B.							
100.0	0.48	151.45	S 28 33 E	0.48	100.0	0.4 151.4	0.37 S 0.20 E
200.0	0.48	136.11	S 43 54 E	0.13	200.0	1.3 146.4	1.04 S 0.69 E
300.0	0.58	149.22	S 30 47 E	0.16	300.0	2.2 145.1	1.78 S 1.24 E
400.0	0.47	150.85	S 29 9 E	0.11	400.0	3.1 146.5	2.58 S 1.71 E
500.0	0.52	164.62	S 15 23 E	0.13	500.0	3.9 149.0	3.38 S 2.03 E
600.0	0.39	160.71	S 19 18 E	0.13	600.0	4.7 151.3	4.13 S 2.26 E
700.0	0.17	174.38	S 5 37 E	0.22	700.0	5.2 152.6	4.60 S 2.39 E
800.0	0.21	179.69	S 0 18 E	0.04	800.0	5.5 154.1	4.94 S 2.40 E
900.0	0.24	176.63	S 3 22 E	0.03	900.0	5.8 155.6	5.33 S 2.41 E
1000.0	0.18	203.93	S 23 56 W	0.11	1000.0	6.1 157.4	5.67 S 2.36 E
1100.0	0.21	201.40	S 21 24 W	0.03	1100.0	6.4 159.6	5.99 S 2.23 E
1200.0	0.24	202.19	S 22 11 W	0.03	1200.0	6.7 161.8	6.35 S 2.09 E
1300.0	0.20	200.76	S 20 45 W	0.04	1300.0	7.0 163.8	6.70 S 1.95 E
1400.0	0.15	193.13	S 13 8 W	0.05	1400.0	7.2 165.1	6.99 S 1.86 E
1500.0	0.16	216.30	S 36 18 W	0.06	1500.0	7.4 166.4	7.23 S 1.74 E
1600.0	0.16	196.20	S 16 12 W	0.06	1600.0	7.7 167.8	7.48 S 1.62 E
1700.0	0.12	201.18	S 21 11 W	0.05	1700.0	7.9 168.7	7.72 S 1.54 E
1800.0	0.19	162.85	S 17 9 E	0.12	1800.0	8.1 169.0	7.98 S 1.56 E
1900.0	0.22	178.42	S 1 35 E	0.06	1900.0	8.5 169.1	8.33 S 1.61 E
2000.0	0.21	193.25	S 13 15 W	0.06	2000.0	8.8 169.8	8.70 S 1.57 E

A Gyrodata Directional Survey

EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H, 4-1/2" DRILLPIPE

Location: McVAY #10, LEA COUNTY, NEW MEXICO

Job Number: MD0801GMW336

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
2100.0	0.19	168.63	S 11 22 E	0.09	2100.0	9.2 170.2	9.04 S
2200.0	0.13	187.49	S 7 30 W	0.08	2200.0	9.5 170.4	9.32 S
2300.0	0.08	131.63	S 48 22 E	0.11	2300.0	9.6 170.3	9.48 S
2400.0	0.25	155.73	S 24 16 E	0.18	2400.0	9.9 169.8	9.72 S
2500.0	0.32	122.71	S 57 18 E	0.18	2500.0	10.3 168.3	10.07 S
2600.0	0.37	113.65	S 66 21 E	0.07	2600.0	10.7 165.9	10.35 S
2700.0	0.37	100.13	S 79 52 E	0.09	2700.0	11.0 163.0	10.53 S
2800.0	0.55	103.06	S 76 56 E	0.18	2800.0	11.4 159.5	10.70 S
2900.0	0.49	102.00	S 78 0 E	0.06	2900.0	11.9 155.8	10.89 S
3000.0	0.61	94.80	S 85 12 E	0.14	3000.0	12.5 152.1	11.03 S
3100.0	0.83	99.01	S 81 0 E	0.22	3099.9	13.2 147.7	11.18 S
3200.0	1.09	99.65	S 80 21 E	0.26	3199.9	14.4 142.7	11.46 S
3300.0	1.08	102.90	S 77 6 E	0.06	3299.9	15.9 138.2	11.83 S
3400.0	1.18	99.82	S 80 11 E	0.12	3399.9	17.5 134.3	12.21 S
3500.0	1.27	104.64	S 75 22 E	0.14	3499.9	19.3 130.9	12.67 S
3600.0	1.53	121.12	S 58 53 E	0.48	3599.8	21.7 129.0	13.64 S
3700.0	1.98	135.90	S 44 6 E	0.63	3699.8	24.7 129.1	15.57 S
3800.0	2.12	136.88	S 43 7 E	0.15	3799.7	28.2 130.0	18.16 S
3900.0	2.04	140.15	S 39 51 E	0.14	3899.7	31.8 131.0	20.88 S
4000.0	1.99	142.02	S 37 59 E	0.09	3999.6	35.3 132.0	23.61 S
4100.0	1.84	141.31	S 38 41 E	0.15	4099.5	38.6 132.8	26.23 S
4200.0	1.91	139.97	S 40 2 E	0.08	4199.5	41.8 133.4	28.76 S
4300.0	1.89	134.99	S 45 1 E	0.17	4299.4	45.1 133.7	31.20 S
4400.0	2.10	122.08	S 57 56 E	0.50	4399.4	48.6 133.3	33.34 S
							28.32 E
							30.39 E
							32.63 E
							35.35 E

A Gyrodata Directional Survey

EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H, 4-1/2" DRILLPIPE

Location: McVAY #10, LEA COUNTY, NEW MEXICO

Job Number: MD0801GMW336

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
4500.0	2.23	113.57	S 66 26 E	0.35	4499.3	52.2 132.2	35.09 S 38.69 E
4600.0	2.21	109.28	S 70 43 E	0.17	4599.2	55.9 130.8	36.51 S 42.30 E
4700.0	2.40	108.69	S 71 19 E	0.19	4699.2	59.6 129.4	37.81 S 46.10 E
4800.0	2.74	109.33	S 70 40 E	0.35	4799.0	63.9 128.0	39.28 S 50.35 E
4900.0	2.77	112.61	S 67 23 E	0.16	4898.9	68.5 126.8	41.00 S 54.84 E
5000.0	2.54	110.77	S 69 14 E	0.24	4998.8	73.0 125.8	42.71 S 59.14 E
5100.0	1.66	113.37	S 66 38 E	0.89	5098.8	76.5 125.2	44.08 S 62.54 E
5200.0	0.92	130.30	S 49 42 E	0.83	5198.7	78.7 125.0	45.17 S 64.49 E
5300.0	0.92	138.12	S 41 53 E	0.13	5298.7	80.3 125.2	46.29 S 65.64 E
5400.0	0.86	135.80	S 44 12 E	0.07	5398.7	81.8 125.4	47.43 S 66.70 E
5500.0	0.84	139.35	S 40 39 E	0.06	5498.7	83.3 125.6	48.52 S 67.70 E
5600.0	0.74	137.15	S 42 51 E	0.10	5598.7	84.6 125.8	49.55 S 68.61 E
5700.0	0.78	141.63	S 38 22 E	0.07	5698.7	85.9 126.0	50.56 S 69.48 E
5800.0	0.73	142.80	S 37 12 E	0.05	5798.7	87.2 126.3	51.60 S 70.28 E
5900.0	0.63	138.31	S 41 41 E	0.11	5898.7	88.3 126.5	52.52 S 71.04 E
6000.0	0.61	143.56	S 36 27 E	0.06	5998.7	89.4 126.6	53.36 S 71.72 E
6100.0	0.48	147.25	S 32 45 E	0.14	6098.7	90.3 126.8	54.13 S 72.26 E
6200.0	0.47	142.73	S 37 16 E	0.04	6198.6	91.1 127.0	54.81 S 72.73 E
6300.0	0.45	141.43	S 38 34 E	0.02	6298.6	91.9 127.1	55.45 S 73.23 E
6400.0	0.46	143.72	S 36 17 E	0.02	6398.6	92.6 127.3	56.08 S 73.71 E
6500.0	0.42	153.88	S 26 7 E	0.09	6498.6	93.3 127.4	56.74 S 74.12 E
6600.0	0.42	152.20	S 27 48 E	0.01	6598.6	94.0 127.6	57.40 S 74.45 E
6700.0	0.32	151.01	S 29 0 E	0.10	6698.6	94.6 127.8	57.97 S 74.76 E
6800.0	0.29	168.80	S 11 12 E	0.10	6798.6	95.0 128.0	58.46 S 74.94 E

A Gyrodata Directional Survey

EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H, 4-1/2" DRILLPIPE

Location: McVAY #10, LEA COUNTY, NEW MEXICO

Job Number: MD0801GMW336

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
6900.0	0.34	163.55	S 16 27 E	0.06	6898.6	95.5 128.2	58.99 S 75.07 E
7000.0	0.34	164.45	S 15 33 E	0.01	6998.6	96.0 128.4	59.55 S 75.24 E
7100.0	0.29	174.15	S 5 51 E	0.07	7098.6	96.4 128.6	60.09 S 75.34 E
7200.0	0.43	183.75	S 3 45 W	0.15	7198.6	96.8 128.9	60.72 S 75.34 E
7300.0	0.39	181.12	S 1 7 W	0.05	7298.6	97.2 129.2	61.43 S 75.31 E
7400.0	0.48	183.63	S 3 38 W	0.10	7398.6	97.6 129.6	62.18 S 75.28 E
7500.0	0.60	188.33	S 8 20 W	0.13	7498.6	98.2 130.0	63.12 S 75.18 E
7600.0	0.75	197.12	S 17 7 W	0.18	7598.6	98.7 130.6	64.27 S 74.91 E
7700.0	0.78	198.72	S 18 43 W	0.04	7698.6	99.2 131.3	65.54 S 74.50 E
7800.0	0.89	201.32	S 21 19 W	0.11	7798.6	99.8 132.1	66.90 S 74.00 E
7900.0	0.90	202.03	S 22 2 W	0.02	7898.6	100.3 133.0	68.35 S 73.42 E
8000.0	1.00	193.27	S 13 16 W	0.18	7998.6	101.0 133.8	69.93 S 72.93 E
8100.0	0.95	190.51	S 10 30 W	0.07	8098.5	101.9 134.6	71.59 S 72.57 E
8200.0	0.91	192.19	S 12 11 W	0.04	8198.5	102.8 135.4	73.18 S 72.26 E
8300.0	0.92	190.15	S 10 9 W	0.03	8298.5	103.8 136.1	74.75 S 71.95 E
8400.0	0.97	180.11	S 0 7 W	0.17	8398.5	104.8 136.8	76.39 S 71.80 E
8500.0	0.95	176.48	S 3 31 E	0.06	8498.5	106.1 137.4	78.06 S 71.85 E
8600.0	0.88	174.19	S 5 48 E	0.07	8598.5	107.4 137.9	79.65 S 71.98 E
8700.0	0.94	177.61	S 2 23 E	0.08	8698.5	108.6 138.4	81.23 S 72.09 E
8800.0	0.89	167.45	S 12 33 E	0.17	8798.5	109.9 138.9	82.81 S 72.29 E
8900.0	0.89	169.57	S 10 26 E	0.03	8898.4	111.3 139.3	84.33 S 72.60 E
9000.0	0.90	170.65	S 9 21 E	0.02	8998.4	112.6 139.7	85.87 S 72.87 E
9100.0	0.90	168.63	S 11 22 E	0.03	9098.4	114.0 140.1	87.42 S 73.15 E
9200.0	0.98	165.88	S 14 7 E	0.08	9198.4	115.4 140.4	89.01 S 73.52 E

A Gyrodata Directional Survey

EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H, 4-1/2" DRILLPIPE

Location: McVAY #10, LEA COUNTY, NEW MEXICO

Job Number: MD0801GMW336

MEASURED DEPTH feet	IN 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
9300.0	1.00	169.32	S 10 41 E	0.06	9298.4	117.0 140.8	90.69 S 73.89 E
9400.0	0.90	165.41	S 14 35 E	0.11	9398.4	118.5 141.2	92.31 S 74.25 E
9500.0	0.83	149.28	S 30 43 E	0.25	9498.4	119.9 141.4	93.70 S 74.81 E
9600.0	0.91	146.91	S 33 5 E	0.09	9598.4	121.4 141.5	94.98 S 75.61 E
9700.0	0.84	144.40	S 35 36 E	0.08	9698.3	122.9 141.5	96.24 S 76.47 E
9800.0	0.83	156.38	S 23 37 E	0.17	9798.3	124.4 141.6	97.50 S 77.19 E
9900.0	0.86	165.61	S 14 23 E	0.14	9898.3	125.7 141.9	98.89 S 77.67 E
10000.0	1.08	163.98	S 16 1 E	0.23	9998.3	127.3 142.2	100.53 S 78.12 E
10100.0	1.12	162.79	S 17 13 E	0.04	10098.3	129.1 142.5	102.37 S 78.67 E
10200.0	1.00	155.72	S 24 17 E	0.18	10198.3	130.9 142.7	104.09 S 79.31 E
10300.0	0.93	160.29	S 19 43 E	0.10	10298.3	132.5 142.9	105.65 S 79.94 E
10400.0	1.02	163.55	S 16 27 E	0.10	10398.2	134.1 143.1	107.27 S 80.47 E
10500.0	1.25	159.16	S 20 50 E	0.25	10498.2	136.0 143.4	109.14 S 81.11 E
10600.0	1.42	164.93	S 15 4 E	0.22	10598.2	138.2 143.7	111.36 S 81.82 E
10700.0	1.35	165.38	S 14 37 E	0.08	10698.2	140.4 144.1	113.70 S 82.44 E
10800.0	1.28	169.94	S 10 4 E	0.12	10798.1	142.5 144.4	115.93 S 82.93 E
10900.0	1.17	178.57	S 1 26 E	0.21	10898.1	144.4 144.8	118.06 S 83.15 E
11000.0	1.22	187.83	S 7 50 W	0.20	10998.1	146.0 145.3	120.13 S 83.03 E
11100.0	1.33	192.78	S 12 47 W	0.15	11098.1	147.6 146.0	122.32 S 82.63 E
11200.0	1.71	191.53	S 11 32 W	0.39	11198.0	149.5 146.7	124.91 S 82.08 E
11300.0	1.81	190.26	S 10 16 W	0.11	11298.0	151.7 147.5	127.92 S 81.50 E
11400.0	1.72	190.71	S 10 43 W	0.09	11397.9	153.9 148.3	130.95 S 80.94 E
11500.0	1.72	192.39	S 12 24 W	0.05	11497.9	156.1 149.0	133.89 S 80.34 E
11600.0	1.54	201.72	S 21 43 W	0.32	11597.9	158.1 149.8	136.61 S 79.52 E

A Gyrodata Directional Survey

EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H, 4-1/2" DRILLPIPE

Location: McVAY #10, LEA COUNTY, NEW MEXICO

Job Number: MD0801GMW336

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
11700.0	1.27	205.12	S 25 7 W	0.29	11697.8	159.5 150.5	138.87 S 78.55 E
11800.0	1.23	209.09	S 29 5 W	0.10	11797.8	160.8 151.2	140.81 S 77.56 E
11900.0	1.07	206.92	S 26 55 W	0.17	11897.8	161.9 151.7	142.58 S 76.61 E
12000.0	1.08	201.87	S 21 52 W	0.10	11997.8	163.0 152.3	144.28 S 75.84 E
12100.0	1.25	181.59	S 1 36 W	0.44	12097.7	164.6 152.7	146.25 S 75.46 E
12200.0	1.46	178.87	S 1 8 E	0.22	12197.7	166.7 153.1	148.61 S 75.45 E
12300.0	1.42	175.80	S 4 12 E	0.08	12297.7	169.0 153.4	151.12 S 75.57 E
12400.0	1.31	170.40	S 9 36 E	0.17	12397.7	171.2 153.7	153.48 S 75.85 E

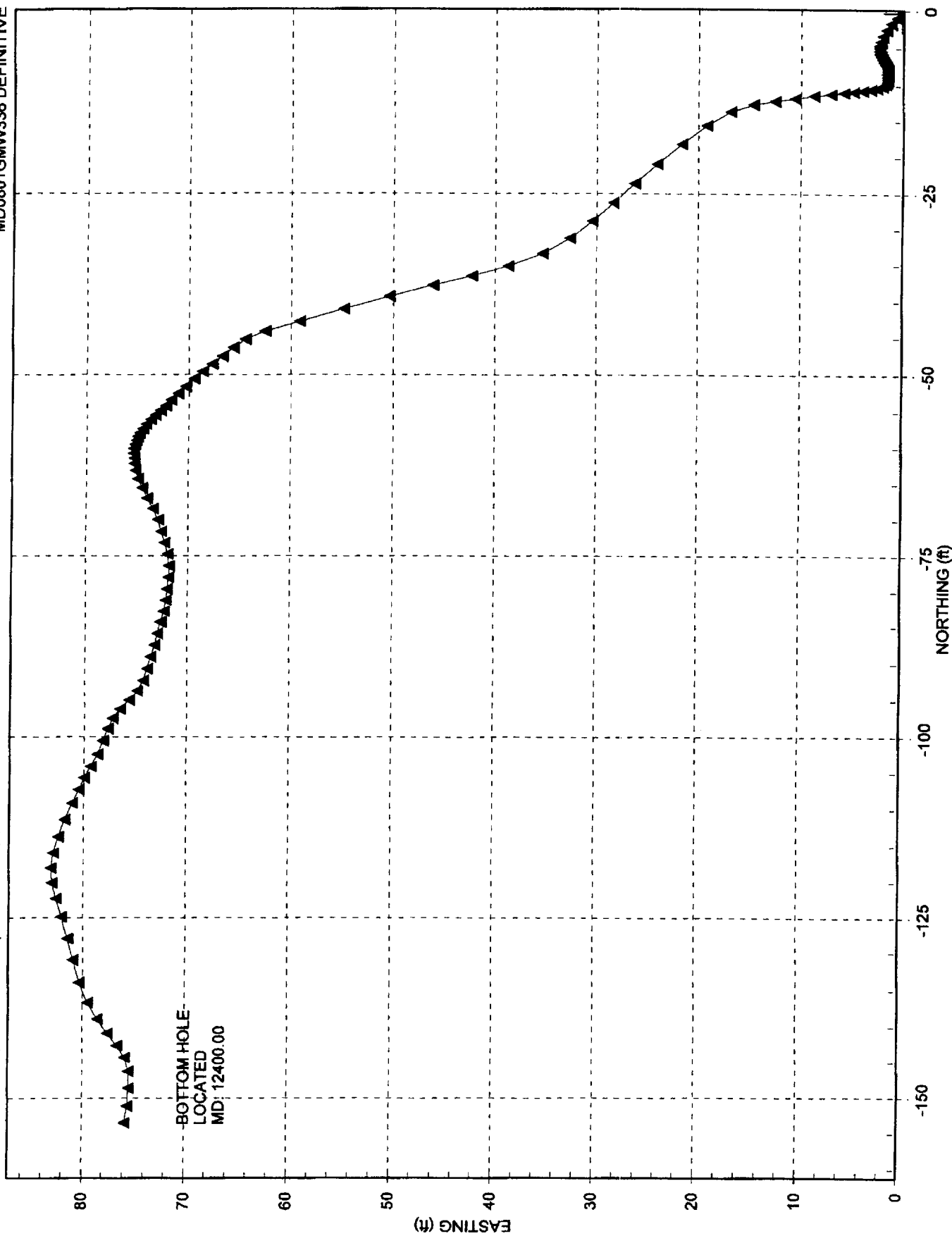
Final Station Closure: Distance: 171.20 ft Az: 153.70 deg.

EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H 4-1/2" DRILLPIPE

Location: McVAY #10, LEA COUNTY, NEW MEXICO

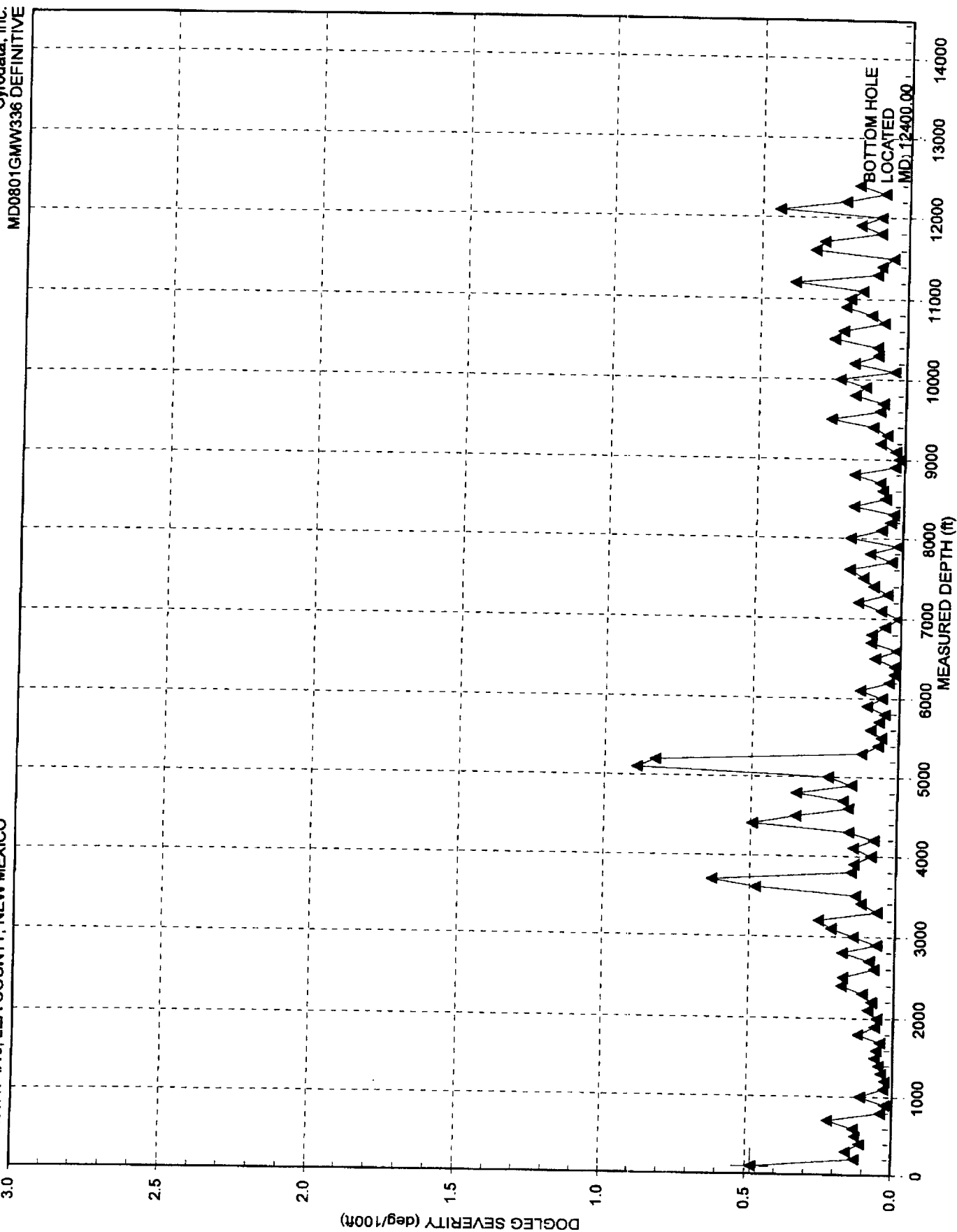
Gyrodatta, Inc.
MD0801GMW336 DEFINITIVE



EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H 4-1/2" DRILLPIPE
Location: McVAY #10, LEA COUNTY, NEW MEXICO

Gyrodatta, Inc.
MD0801GMW336 DEFINITIVE

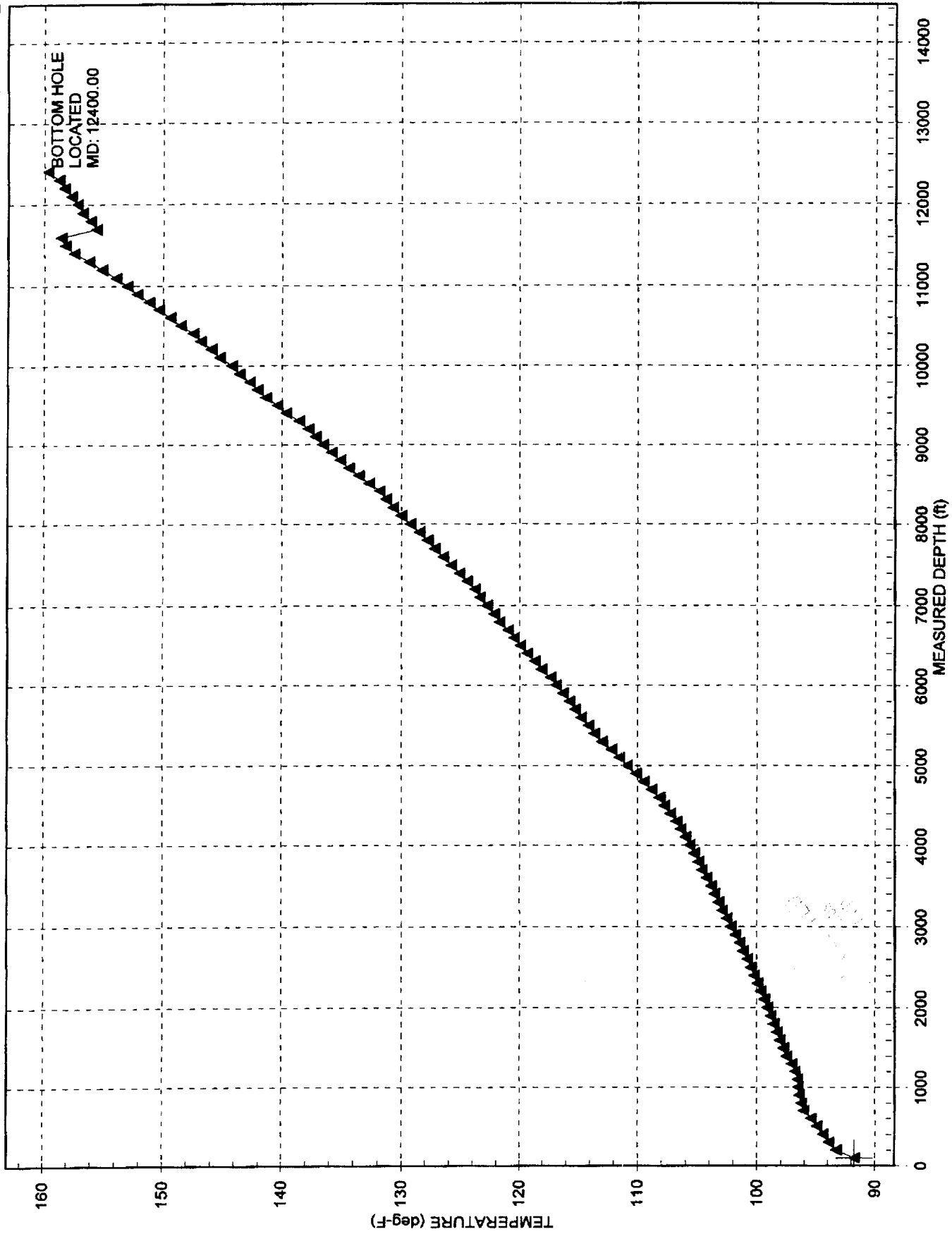


EOG RESOURCES

Well: RED HILLS NORTH UNIT #307H 4-1/2" DRILLPIPE

Location: McVAY #10, LEA COUNTY, NEW MEXICO

Gyrodatta, Inc.
MD0801GMW336 DEFINITIVE



SCANNED



MEASUREMENT WHILE DRILLING SERVICES

117000-
13992

October 10, 2001

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702

Attention: Mr. Mike Francis

Re: EOG Resources, Inc.
Red Hills North Unit 307-H
Lea County, New Mexico
McVay Drilling 10

Dear Mr. Francis:

Please find attached (2) copies of MWD Survey Report for well referenced above. Please advise if MWD Services is to file survey with any agency. If so, please forward a scaled land plat and copy of API drilling permit.

Regards,

Clyde Cormier
VP-Engineering

Enclosure



MWD SERVICES, INC.

FIELD SURVEY CALCULATIONS

DATE PRINTED: 09/21/01 MWD.REP.: L.ROBINSON
 COMPANY: EOG RESOURCES, INC. WELL_NAME: RED HILLS NORTH UNIT 307-H
 LOCATION: LEA COUNTY, NM RIG: MCVAY DRILLING 10
 FILE NAME: 01126.SRV VERT.SEC.DIR.: N 48.29 E
 CALCULATION MODEL: MINIMUM CURVATURE METHOD DEPTH DATUM: RKB
 GRID CONVERGENCE: 0.42 E MAGN.DEC.: 8.71 E MAGN.TO_MAP_CORR.: 8.29 E
 COMMENTS: SURVEY #0 = TIE IN SURVEY FROM GYRO
 SURVEY #51 = STRAIGHT LINE PROJECTED SURVEY TO BIT DEPTH
 SURVEYS CORRECTED TO GRID NORTH

===== MWD SURVEY PROGRAM Ver: 3.10 PC (4-Jun-87) =====

Date: 9/21/2001 Time: 14:48:29 PAGE: 1
 Filename: "01126.SRV" Description: "Red Hills North Unit 307-H"
 Target Coordinates: 4120.8 N 4624.0 E Target TVD: 12245.000
 Using Minimum Curvature Method.

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	RECTANGULAR COORDINATES (feet)	DOGLEG SEVERITY DG/100FT
0	11700.0	1.27	205.120	0.0	11697.8	-33.8	138.9 S 78.5 E	0.00
1	11743.0	1.00	206.000	43.0	11740.8	-34.5	139.6 S 78.2 E	0.63
2	11774.0	0.30	71.700	31.0	11771.8	-34.7	139.9 S 78.1 E	3.96
3	11806.0	2.60	47.600	32.0	11803.8	-33.9	139.3 S 78.8 E	7.28
4	11837.0	5.30	45.800	31.0	11834.7	-31.8	137.9 S 80.3 E	8.72
	11869.0	8.50	42.700	32.0	11866.5	-27.9	135.1 S 83.0 E	10.06
	11901.0	11.60	41.500	32.0	11898.0	-22.4	131.0 S 86.7 E	9.71
7	11933.0	14.80	40.900	32.0	11929.1	-15.1	125.4 S 91.5 E	10.01
8	11965.0	17.70	42.100	32.0	11959.8	-6.3	118.7 S 97.5 E	9.12
9	11997.0	20.80	44.000	32.0	11990.0	4.3	111.1 S 104.7 E	9.88
10	12029.0	23.70	45.200	32.0	12019.7	16.3	102.4 S 113.2 E	9.17
11	12061.0	26.70	45.000	32.0	12048.6	29.9	92.8 S 122.8 E	9.38
12	12093.0	30.00	45.100	32.0	12076.8	45.1	82.1 S 133.6 E	10.31
13	12125.0	32.90	45.600	32.0	12104.1	61.8	70.4 S 145.5 E	9.10
14	12156.0	36.30	45.500	31.0	12129.6	79.4	58.0 S 158.0 E	10.97
15	12188.0	39.40	45.900	32.0	12154.8	99.0	44.3 S 172.1 E	9.72
16	12220.0	42.90	46.000	32.0	12178.9	120.0	29.7 S 187.2 E	10.94
17	12252.0	46.10	45.500	32.0	12201.8	142.4	14.0 S 203.3 E	10.06
18	12283.0	49.40	45.000	31.0	12222.6	165.3	2.1 N 219.6 E	10.71
19	12315.0	52.70	45.400	32.0	12242.7	190.2	19.7 N 237.2 E	10.36
20	12403.0	65.20	45.500	88.0	12288.0	265.3	72.4 N 290.8 E	14.20
21	12435.0	70.50	47.000	32.0	12300.1	294.9	92.9 N 312.2 E	17.12
22	12467.0	76.00	46.300	32.0	12309.3	325.6	114.0 N 334.5 E	17.31
23	12498.0	79.30	47.000	31.0	12315.9	355.8	134.7 N 356.5 E	10.87
24	12529.0	84.40	47.600	31.0	12320.3	386.5	155.5 N 379.1 E	16.56
25	12561.0	87.90	47.200	32.0	12322.5	418.4	177.1 N 402.6 E	11.01
26	12593.0	88.80	47.700	32.0	12323.4	450.4	198.8 N 426.1 E	3.22
27	12625.0	91.70	46.700	32.0	12323.2	482.4	220.5 N 449.6 E	9.59
28	12657.0	91.50	47.600	32.0	12322.4	514.4	242.3 N 473.1 E	2.88
29	12689.0	91.70	47.100	32.0	12321.5	546.3	263.9 N 496.6 E	1.68
30	12720.0	91.30	47.400	31.0	12320.6	577.3	285.0 N 519.4 E	1.61
31	12783.0	91.30	47.000	63.0	12319.2	640.3	327.8 N 565.6 E	0.63
32	12847.0	91.40	47.000	64.0	12317.7	704.3	371.4 N 612.4 E	0.16
33	12910.0	91.30	47.100	63.0	12316.2	767.2	414.3 N 658.5 E	0.22
34	12972.0	91.10	46.700	62.0	12314.9	829.2	456.7 N 703.7 E	0.72
35	13036.0	90.70	46.300	64.0	12313.9	893.2	500.7 N 750.1 E	0.88

LINE #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	RECTANGULAR COORDINATES (feet)	DOGLEG SEVERITY DG/100FT	
36	13100.0	91.40	46.400	64.0	12312.7	957.1	544.9 N 796.4 E	1.10	
37	13164.0	91.90	47.500	64.0	12310.9	1021.1	588.6 N 843.2 E	1.89	
38	13227.0	92.20	47.700	63.0	12308.7	1084.0	631.0 N 889.7 E	0.57	
39	13291.0	92.40	47.000	64.0	12306.1	1148.0	674.3 N 936.7 E	1.14	
40	13354.0	92.70	47.100	63.0	12303.3	1210.9	717.2 N 982.8 E	0.50	
41	13418.0	90.30	47.100	64.0	12301.6	1274.8	760.8 N 1029.6 E	3.75	
42	13481.0	90.90	46.500	63.0	12300.9	1337.8	803.9 N 1075.6 E	1.35	
43	13546.0	91.90	46.300	65.0	12299.4	1402.8	848.7 N 1122.6 E	1.57	
44	13610.0	92.60	46.200	64.0	12296.8	1466.7	892.9 N 1168.8 E	1.10	
45	13674.0	93.10	46.300	64.0	12293.7	1530.6	937.1 N 1215.0 E	0.80	
46	13737.0	91.40	46.400	63.0	12291.2	1593.5	980.6 N 1260.5 E	2.70	
47	13800.0	89.50	45.500	63.0	12290.7	1656.4	1024.4 N 1305.8 E	3.34	
48	13864.0	90.00	45.500	64.0	12291.0	1720.3	1069.2 N 1351.5 E	0.78	
49	13927.0	90.20	44.800	63.0	12290.9	1783.2	1113.7 N 1396.1 E	1.16	
50	13992.0	90.20	43.800	65.0	12290.6	1848.1	1160.2 N 1441.5 E	1.54	
51	14047.0	90.20	43.800	55.0	12290.4	1902.9	1199.9 N 1479.6 E	0.00	
--- Final Closure Direction:				50.959					
--- Final Closure Distance:				1904.971 feet					