HOBBS OCD

DEC 04 2019

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Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM118726

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: EOG RESOURCES, INC
Contact: KAY MADDOX
E-Mail: KAY_MADDOX@EOGRESOURCES.COM

8. Lease Name and Well No.: ANTIETAM 9 FEDERAL COM 715H

3. Address: PO BOX 2267, MIDLAND, TX 79702
3a. Phone No. (include area code): Ph: 432-686-3658

9. API Well No.: 30-025-45478

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 9 T25S R33E Mer NMP NENE 1052FNL 624FEL 32.149448 N Lat, 103.570783 W Lon
At top prod interval reported below: Sec 9 T25S R33E Mer NMP NENE 462FNL 307FEL 32.151067 N Lat, 103.569757 W Lon
At total depth: Sec 16 T25S R33E Mer NMP SENE 2530FNL 331FEL 32.130866 N Lat, 103.569852 W Lon

10. Field and Pool, or Exploratory: WC025 G09 S253309P;UPPER

11. Sec., T., R., M., or Block and Survey or Area: Sec 9 T25S R33E Mer NMP

12. County or Parish: LEA
13. State: NM

14. Date Spudded: 02/11/2019
15. Date T.D. Reached: 03/02/2019
16. Date Completed ☐ D & A ☒ Ready to Prod. 06/29/2019
17. Elevations (DF, KB, RT, GL)*: 3417 GL

18. Total Depth: MD 20083 TVD 12484
19. Plug Back T.D.: MD 20049 TVD 12484
20. Depth Bridge Plug Set: MD TVD

21. Type 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 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
12.250	9.625 J55	40.0		1214		685		0	
8.750	7.625 HCP110	29.7		11832		1722		0	
6.750	5.500 ICYP110	20.0		20066		820		6370	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	WOLFCAMP	12720	20049	12720 TO 20049	3.250	1488	OPEN
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
12720 TO 20049	18,992,880 LBS PROPPANT; 280,147 BBLS LOAD FLUID

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
06/29/2019	07/02/2019	24	→	4311.0	8700.0	9894.0	45.0		FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
64		2356.0	→				2018	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
			→						

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 reverse side)

ELECTRONIC SUBMISSION #474049 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED**

ACCEPTED FOR RECORD
NOV 15 2019
BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

Reclamation due: 12/29/2019

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	1110		BARREN	RUSTLER	1110
T/SALT	1431		BARREN	T/SALT	1431
B/SALT	4816		BARREN	B/SALT	4816
BRUSHY CANYON	7615		OIL & GAS	BRUSHY CANYON	7615
1ST BONE SPRING SAND	10148		OIL & GAS	1ST BONE SPRING SAND	10148
2ND BONE SPRING SAND	10643		OIL & GAS	2ND BONE SPRING SAND	10643
3RD BONE SPRING SAND	11842		OIL & GAS	3RD BONE SPRING SAND	11842
WOLFCAMP	12310		OIL & GAS	WOLFCAMP	12310

32. Additional remarks (include plugging procedure):
PLEASE REFERENCE ATTACHMENTS

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):

Electronic Submission #474049 Verified by the BLM Well Information System.
For EOG RESOURCES, INC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/14/2019 ()

Name *(please print)* KAY MADDOX Title REGULATORY SPECIALIST

Signature (Electronic Submission) Date 07/18/2019

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 fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025- 45478	98180	WC-025 G-09 S253309P; Upper Wolfcamp

[4]Property Code	[5]Property Name	[6]Well Number
317131	ANTIETAM 9 FED COM	#715H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3417'

[10]Surface Location

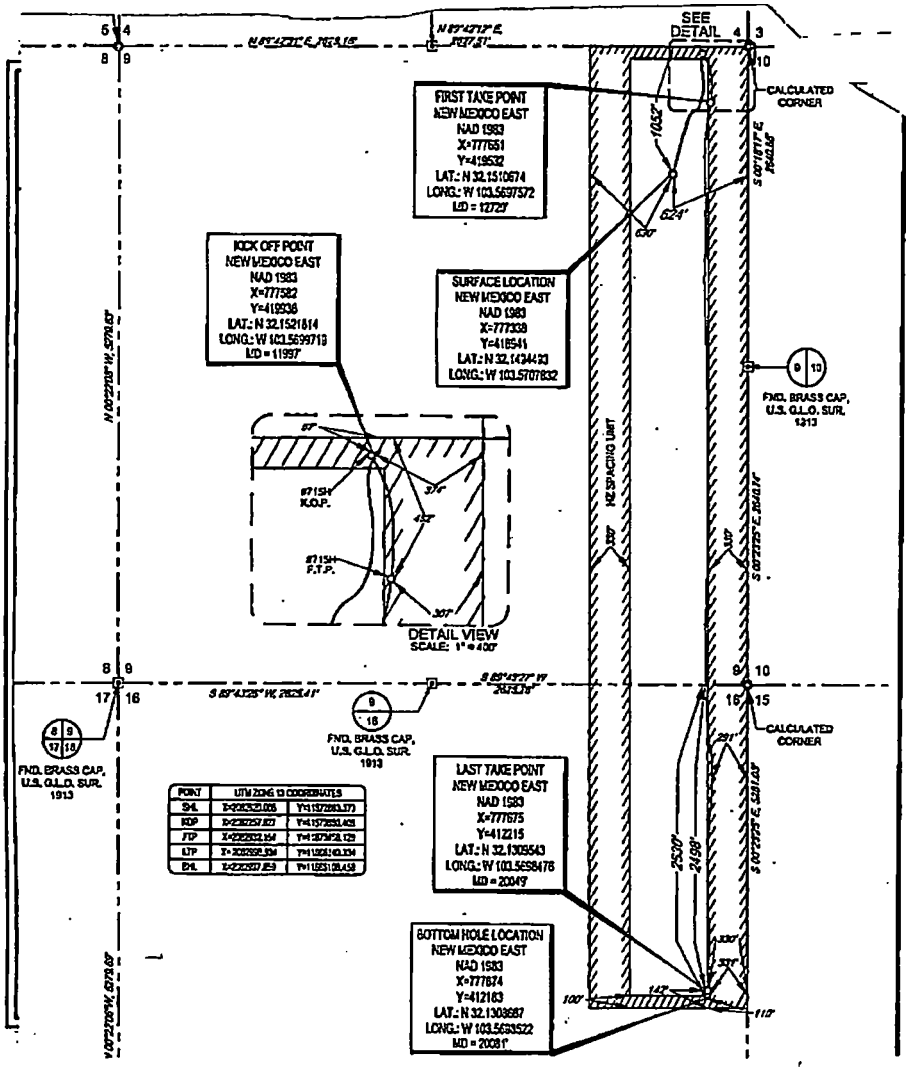
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	25-S	33-E	-	1052'	NORTH	624'	EAST	LEA

[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
H	16	25-S	33-E	-	2540'	NORTH	330'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
240.00			

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.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox 7/15/19
Signature Date

KAY MADDOX
Printed Name

E-mail Address

[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 to the best of my belief.

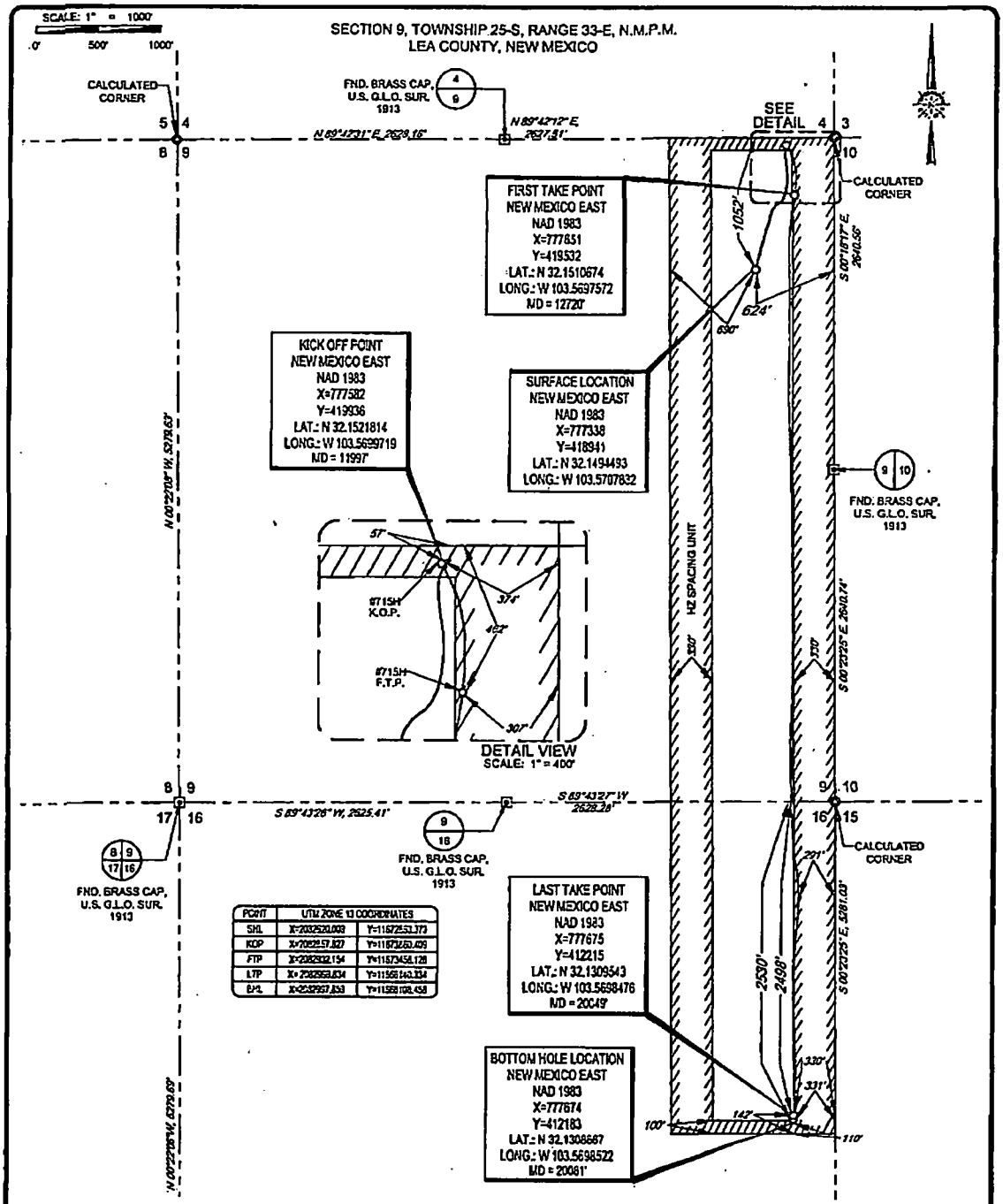
04/30/2018
Date of Survey

Signature and Seal of Professional Surveyor

MICHAEL BROWN
NEW MEXICO
16329
PROFESSIONAL SURVEYOR

Certificate Number

LO_ANTIETAM9FEDCOM_715H_REV1.DWG 7/10/2018 11:12:04 AM csmith



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2032520.008	Y=11572553.373
KOP	X=2032557.827	Y=11573050.409
FTP	X=2032932.154	Y=11573456.128
LTP	X=2032968.834	Y=11585140.334
BHL	X=2032967.853	Y=11585188.458

LEASE NAME & WELL NO.: ANTIETAM 9 FED COM #715H

SECTION 9 TWP 25-S RGE 33-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3417'

DESCRIPTION 1052' FNL & 624' FEL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

Ramon A. Dominguez, P.S. No. 24508

JUNE 05, 2019

eog resources, inc.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 140 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

ANTIETAM 9 FED COM #715H AS-COMPLETED	REVISION:
DATE: 06/05/19	
FILE: AD_ANTIETAM_9_FED_COM_715H	
DRAWN BY: JLS	
SHEET: 1 OF 1	

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

S:\SURVEYING_MIDLAND\ANTIETAM_9_FED\FINAL_PRODUCTS\AD_ANTIETAM_9_FED_COM_715H.DWG 6/5/2019 8:53:43 AM mdominguez

eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Antietam 9 Fed Com
#715H
OH

Design: OH

Midland PVA

02 March, 2019

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project Lea County, NM (NAD 83 NME)

Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Antietam 9 Fed Com

Site Position:		Northing:	419,815.00 usft	Latitude:	32° 9' 6.852 N
From:	Map	Easting:	774,698.00 usft	Longitude:	103° 34' 45.452 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well #715H

Well Position	+N/-S	0.0 usft	Northing:	418,641.00 usft	Latitude:	32° 8' 58.020 N
	+E/-W	0.0 usft	Easting:	777,338.00 usft	Longitude:	103° 34' 14.817 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,417.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/15/2018	6.83	59.98	47,783.32604609

Design OH

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	177.15

Survey Program Date 3/2/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
147.0	20,083.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
147.0	0.90	184.30	147.0	-1.2	-0.1	0.61	0.61	0.00	-1.2	0.0
325.0	1.70	182.50	324.9	-5.2	-0.3	0.45	0.45	-0.96	-5.2	-0.1
508.0	1.70	189.60	507.9	-10.6	-0.9	0.11	0.00	3.83	-10.6	0.9
695.0	1.60	191.80	694.8	-15.9	-1.9	0.06	-0.05	1.18	-15.9	1.4
881.0	1.50	201.70	880.7	-20.7	-3.3	0.15	-0.05	5.32	-20.4	4.8
1,069.0	1.90	200.60	1,068.6	-25.9	-5.3	0.21	0.21	-0.59	-26.1	4.1
1,173.0	1.80	187.60	1,172.6	-28.1	-6.1	0.41	-0.10	-12.50	-29.7	-2.2
1,330.0	2.20	25.70	1,329.5	-28.8	-5.2	2.52	0.25	-103.12	31.1	-8.3
1,516.0	6.40	11.40	1,515.0	-15.4	-1.6	2.31	2.26	-7.69	32.6	-0.2
1,704.0	9.60	7.90	1,701.1	10.7	2.7	1.83	1.81	-1.86	32.3	4.9
1,891.0	12.20	15.60	1,884.6	45.5	10.3	1.51	1.28	4.22	29.4	2.8
2,079.0	12.10	15.00	2,068.4	83.8	20.8	0.10	-0.05	-0.43	22.3	3.5
2,266.0	12.40	14.60	2,251.2	121.9	31.0	0.16	0.16	-0.05	14.8	4.1
2,454.0	12.60	14.20	2,434.7	161.3	41.2	0.13	0.11	-0.37	6.5	5.1
2,642.0	13.10	14.40	2,618.0	201.8	51.8	0.27	0.27	0.11	-2.9	6.1
2,829.0	13.40	14.00	2,800.0	243.4	62.1	0.17	0.16	-0.21	-13.7	7.0
3,016.0	12.80	15.90	2,982.1	284.5	73.0	0.35	-0.27	1.02	-23.8	8.3
3,203.0	11.70	19.60	3,164.8	322.4	85.1	0.77	-0.64	1.98	-30.8	9.1
3,391.0	12.50	22.40	3,348.7	359.2	99.3	0.53	0.43	1.49	-37.5	7.9
3,578.0	7.80	10.20	3,532.7	390.4	109.2	2.75	-2.51	-6.52	-38.6	-1.1
3,765.0	7.20	9.10	3,718.1	414.5	113.3	0.33	-0.32	-0.59	-30.7	1.8
3,953.0	6.60	19.40	3,904.7	436.3	118.8	0.73	-0.32	5.48	-19.7	7.4
4,140.0	5.50	17.40	4,090.7	455.0	125.0	0.60	-0.59	-1.07	-7.1	5.6
4,328.0	4.70	24.30	4,278.0	470.6	130.9	0.54	-0.43	3.67	9.3	2.8
4,421.0	4.60	40.60	4,370.7	476.9	134.9	1.42	-0.11	17.53	17.0	-5.5
4,609.0	8.40	33.30	4,557.4	494.1	147.3	2.06	2.02	-3.88	27.6	-13.9

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 8 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,703.0	7.60	44.80	4,650.5	504.3	155.5	1.90	-0.85	12.23	25.7	-25.6
4,890.0	6.00	60.30	4,835.8	519.5	175.5	1.14	0.21	8.29	15.6	-50.8
5,077.0	8.80	44.90	5,020.8	536.1	196.9	1.27	0.43	-8.24	30.9	-63.7
5,264.0	11.30	33.20	5,205.0	561.6	217.1	1.72	1.34	-6.26	41.8	-68.7
5,451.0	13.50	17.20	5,387.6	597.8	233.5	2.17	1.18	-8.56	51.5	-60.6
5,639.0	15.00	10.60	5,569.9	642.6	244.6	1.16	0.80	-3.40	43.7	-54.1
5,826.0	14.60	5.90	5,750.7	689.8	251.8	0.70	-0.21	-2.62	32.0	-46.8
6,014.0	13.90	359.60	5,932.9	736.0	253.8	0.90	-0.37	-3.35	21.7	-36.3
6,201.0	14.90	352.50	6,114.0	782.3	250.5	1.08	0.53	-3.80	9.0	-23.2
6,388.0	14.30	351.30	6,295.0	829.0	243.9	0.36	-0.32	-0.64	-6.4	-10.0
6,575.0	14.60	351.20	6,476.1	875.1	238.8	0.16	0.16	-0.05	-25.9	3.5
6,762.0	14.20	1.20	6,657.2	921.3	233.7	1.35	-0.21	5.35	-40.0	20.3
6,948.0	8.60	16.30	6,839.5	957.5	238.1	3.39	-3.01	8.12	-37.3	35.6
7,138.0	4.90	44.20	7,026.2	976.8	247.6	2.58	-1.97	14.84	-8.0	40.1
7,324.0	2.40	55.00	7,213.8	984.8	256.4	1.37	-1.33	5.74	12.4	22.5
7,511.0	0.40	47.00	7,400.8	987.5	260.1	1.07	-1.07	-4.28	22.8	12.8
7,699.0	0.40	158.70	7,588.8	987.3	260.8	0.35	0.00	59.41	-4.5	-30.8
7,886.0	0.50	266.10	7,775.8	988.6	260.3	0.39	0.05	57.43	-28.8	14.4
7,980.0	0.30	279.00	7,869.8	988.6	259.6	0.23	-0.21	13.72	-25.5	20.5
8,167.0	0.30	293.20	8,056.8	988.9	258.7	0.04	0.00	7.59	-20.8	26.3
8,260.0	0.30	158.20	8,149.8	988.8	258.5	0.50	0.00	-145.16	-4.1	-33.4
8,447.0	0.50	317.20	8,336.8	988.9	258.2	0.42	0.11	85.03	-8.5	32.8
8,634.0	0.20	214.30	8,523.7	987.3	257.4	0.31	-0.16	-55.03	-30.2	-16.4
8,821.0	0.80	219.90	8,710.7	986.0	256.4	0.32	0.32	2.99	-33.3	-13.3
9,008.0	0.90	235.60	8,897.7	984.2	254.4	0.13	0.05	8.40	-38.4	-3.5
9,194.0	1.00	206.10	9,083.7	981.9	252.4	0.27	0.05	-15.86	-34.6	-22.6
9,382.0	0.70	235.60	9,271.7	979.8	250.8	0.28	-0.16	15.80	-43.9	-1.7

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,570.0	1.00	101.60	9,459.7	878.8	251.4	0.83	0.16	-71.22	30.8	-31.3
9,757.0	2.00	29.30	9,648.6	881.3	254.6	1.04	0.53	-38.82	35.3	18.5
9,944.0	1.50	0.50	9,833.5	883.6	256.2	0.53	-0.27	-15.40	16.7	31.6
10,131.0	1.70	1.70	10,020.5	885.8	256.3	0.11	0.11	0.64	12.1	31.3
10,319.0	2.30	58.00	10,208.4	886.6	259.6	1.04	0.32	29.95	27.5	9.6
10,505.0	2.20	63.30	10,394.2	1,000.2	266.0	0.12	-0.05	2.85	20.9	7.4
10,692.0	1.10	43.20	10,581.1	1,003.1	270.4	0.66	-0.59	-10.75	12.0	12.9
10,878.0	0.90	24.60	10,767.1	1,005.7	272.2	0.20	-0.11	-10.00	4.1	15.5
11,067.0	1.30	306.20	10,956.1	1,008.3	271.1	0.75	0.21	-41.48	-16.8	5.7
11,254.0	1.70	274.00	11,143.0	1,009.8	268.7	0.49	0.21	-17.22	-21.8	-5.3
11,441.0	2.50	245.30	11,329.9	1,008.3	265.2	0.69	0.43	-15.35	-23.1	-16.4
11,628.0	3.20	239.60	11,516.7	1,003.9	262.0	0.40	0.37	-2.89	-30.7	-18.9
11,784.0	2.70	235.60	11,672.5	999.7	245.2	0.35	-0.32	-2.76	-37.2	-21.5
11,933.0	0.40	120.60	11,821.4	997.4	242.7	1.94	-1.54	-77.18	36.1	-27.8
12,027.0	4.90	146.30	11,915.3	993.9	245.2	4.83	4.79	27.34	18.1	-40.6
12,121.0	19.30	151.60	12,007.0	976.8	254.9	15.35	15.32	5.64	-5.3	-40.2
12,214.0	24.60	151.50	12,093.1	948.1	271.5	5.91	5.91	-0.11	-24.4	-30.8
12,262.0	28.10	154.50	12,135.8	926.8	281.4	8.39	8.96	8.25	-32.6	-21.3
12,308.0	32.40	158.00	12,175.4	905.2	290.8	9.16	7.17	7.61	-38.3	-10.7
12,355.0	37.50	164.30	12,214.0	879.8	299.4	13.28	10.85	13.40	-41.6	1.8
12,401.0	41.40	165.40	12,249.5	851.5	307.0	8.61	8.48	2.39	-42.6	10.2
12,495.0	51.00	174.00	12,314.5	784.9	318.7	12.14	10.21	9.15	-38.0	27.1
12,541.0	51.90	178.90	12,343.2	749.0	320.6	10.22	1.96	12.83	-31.6	31.2
12,588.0	55.30	181.40	12,371.1	711.2	320.2	7.68	7.23	3.19	-23.5	30.9
12,635.0	58.80	179.90	12,396.6	671.7	319.7	8.11	7.68	-3.19	-14.4	29.8
12,682.0	71.30	184.50	12,416.4	629.3	318.0	27.83	26.38	9.79	-6.3	27.8
12,775.0	91.40	189.20	12,430.3	538.6	307.0	22.18	21.61	5.05	-4.6	18.1

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,868.0	91.40	169.10	12,426.0	446.7	292.2	0.11	0.00	-0.11	-7.0	0.7
12,962.0	90.30	167.50	12,426.6	353.7	278.7	2.07	-1.17	-1.70	-8.4	-13.4
13,055.0	90.20	163.00	12,426.2	261.1	270.1	4.84	-0.11	-4.84	-8.8	-22.5
13,149.0	90.40	179.20	12,425.7	167.1	268.3	4.05	0.21	-4.04	-9.3	-24.8
13,242.0	88.50	178.10	12,426.6	74.2	270.5	2.36	-2.04	-1.18	-8.4	-23.3
13,336.0	89.10	178.90	12,428.6	-19.8	273.0	1.06	0.64	0.85	-6.6	-21.4
13,429.0	88.90	178.90	12,430.2	-112.7	274.8	0.22	-0.22	0.00	-6.5	-20.2
13,522.0	89.40	179.30	12,431.6	-205.7	276.2	0.69	0.54	0.43	-6.6	-19.4
13,617.0	90.20	179.00	12,431.9	-300.7	277.6	0.90	0.84	-0.32	-7.8	-18.6
13,710.0	88.10	178.80	12,433.3	-393.7	279.3	2.26	-2.26	-0.11	-7.8	-17.5
13,804.0	88.70	181.30	12,435.9	-487.6	279.2	2.63	0.64	2.55	-6.7	-16.2
13,898.0	87.50	178.80	12,439.0	-581.6	279.1	2.95	-1.28	-2.66	-5.1	-16.9
13,992.0	91.30	182.30	12,440.0	-675.5	278.2	5.50	4.04	3.72	-5.4	-20.4
14,085.0	90.40	181.70	12,438.6	-768.5	275.0	1.16	-0.97	-0.65	-7.7	-24.2
14,179.0	90.50	180.60	12,437.9	-862.4	273.1	1.18	0.11	-1.17	-9.4	-26.7
14,272.0	88.40	178.50	12,438.8	-955.4	273.8	3.19	-2.26	-2.26	-9.5	-26.6
14,366.0	90.20	179.70	12,440.0	-1,049.4	275.3	2.30	1.91	1.28	-8.3	-25.7
14,460.0	87.20	176.70	12,442.1	-1,143.3	278.2	4.51	-3.19	-3.19	-8.1	-23.3
14,553.0	87.30	177.70	12,446.5	-1,236.1	282.8	1.08	0.11	1.08	-4.8	-19.4
14,647.0	87.50	178.00	12,450.6	-1,329.9	286.3	0.38	0.21	0.32	-1.3	-16.4
14,740.0	90.40	178.40	12,452.5	-1,422.9	289.2	3.15	3.12	0.43	-0.6	-14.1
14,834.0	87.00	179.10	12,454.6	-1,516.8	291.3	3.69	-3.62	0.74	0.6	-12.7
14,928.0	87.40	179.20	12,459.2	-1,610.7	292.6	0.44	0.43	0.11	4.2	-11.9
15,021.0	91.20	178.10	12,460.4	-1,703.6	294.8	4.25	4.09	-1.18	4.4	-10.3
15,115.0	91.10	177.70	12,458.5	-1,797.5	298.3	0.44	-0.11	-0.43	1.6	-7.4
15,208.0	92.90	179.50	12,455.2	-1,890.4	300.6	2.74	1.94	1.94	-2.6	-5.7
15,301.0	89.10	178.70	12,453.6	-1,983.4	302.0	4.19	-4.09	-0.86	-5.2	-4.8

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,395.0	88.80	178.80	12,455.3	-2,077.4	304.0	0.30	-0.21	0.21	-4.5	-3.5
15,488.0	89.50	178.10	12,456.8	-2,170.3	306.4	1.08	0.85	-0.86	-4.2	-1.6
15,582.0	89.10	178.20	12,457.7	-2,264.3	309.5	0.44	-0.43	0.11	-4.0	0.8
15,675.0	88.50	178.50	12,459.7	-2,357.2	312.1	0.72	-0.65	0.32	-3.0	2.9
15,768.0	87.30	179.30	12,463.1	-2,450.1	313.9	1.55	-1.29	0.86	-0.5	4.1
15,861.0	86.40	179.40	12,468.2	-2,543.0	315.0	0.97	-0.97	0.11	3.6	4.6
15,954.0	88.00	178.80	12,472.7	-2,635.9	316.4	1.84	1.72	-0.65	7.1	5.5
16,047.0	89.90	179.50	12,474.4	-2,728.8	317.8	2.18	2.04	0.75	7.5	6.2
16,141.0	89.50	179.10	12,474.9	-2,822.8	319.0	0.60	-0.43	-0.43	6.7	6.8
16,234.0	93.00	180.70	12,472.9	-2,915.8	319.1	4.14	3.76	1.72	3.3	6.4
16,328.0	92.40	181.70	12,468.5	-3,009.8	317.1	1.24	-0.64	1.06	-2.4	3.8
16,421.0	90.20	181.40	12,466.3	-3,102.8	314.6	2.39	-2.37	-0.32	-5.8	0.7
16,515.0	89.90	181.20	12,466.3	-3,196.8	312.5	0.38	-0.32	-0.21	-7.2	-2.0
16,608.0	88.70	180.10	12,467.4	-3,289.5	311.4	1.75	-1.29	-1.18	-7.3	-3.6
16,702.0	91.90	181.40	12,466.9	-3,383.5	310.2	3.67	3.40	1.38	-9.1	-5.5
16,796.0	88.70	181.70	12,466.4	-3,477.5	307.7	3.42	-3.40	0.32	-10.9	-8.6
16,890.0	88.60	182.10	12,468.6	-3,571.4	304.6	0.44	-0.11	0.43	-10.0	-12.3
16,983.0	87.60	182.10	12,471.7	-3,664.3	301.2	1.08	-1.08	0.00	-8.2	-16.3
17,077.0	87.30	179.50	12,475.9	-3,758.2	299.8	2.78	-0.32	-2.77	-5.3	-18.2
17,171.0	88.80	178.40	12,479.1	-3,852.1	301.6	1.98	1.60	-1.17	-3.4	-17.1
17,264.0	89.00	178.90	12,480.1	-3,945.1	302.9	2.07	1.29	1.61	-3.8	-16.3
17,358.0	89.40	179.20	12,480.6	-4,039.1	303.7	0.88	0.64	-0.74	-4.6	-16.1
17,452.0	89.30	179.30	12,481.6	-4,133.1	304.9	0.15	-0.11	0.11	-4.5	-15.5
17,546.0	89.10	179.40	12,482.9	-4,227.0	306.0	0.24	-0.21	0.11	-4.1	-15.0
17,639.0	88.70	178.60	12,484.7	-4,320.0	307.6	0.96	-0.43	-0.86	-3.3	-14.0
17,733.0	89.60	177.90	12,486.0	-4,414.0	310.5	1.39	1.17	-0.74	-3.0	-11.7
17,826.0	87.80	176.10	12,487.8	-4,506.8	315.3	2.89	-2.15	-1.94	-2.0	-7.4

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 8 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,918.0	88.10	173.10	12,491.2	-4,589.3	324.1	3.24	0.32	-3.23	0.4	0.7
18,013.0	92.40	171.70	12,490.8	-4,692.5	336.5	4.81	4.57	-1.49	-0.9	12.6
18,107.0	93.10	171.60	12,488.3	-4,785.4	350.1	0.75	0.74	-0.11	-6.3	25.6
18,220.0	93.00	175.80	12,480.3	-4,897.5	362.5	3.71	-0.09	3.72	-13.5	37.3
18,313.0	91.90	181.30	12,476.3	-4,990.3	364.9	6.03	-1.18	5.91	-18.6	39.0
18,407.0	90.40	183.70	12,474.4	-5,084.2	360.8	3.01	-1.60	2.55	-21.0	34.3
18,500.0	87.90	184.60	12,475.8	-5,177.0	354.0	2.86	-2.69	0.97	-19.9	27.0
18,594.0	89.80	185.30	12,477.7	-5,270.8	345.9	2.15	2.02	0.74	-18.4	18.3
18,688.0	88.70	182.80	12,478.9	-5,364.3	339.3	2.91	-1.17	-2.66	-17.5	11.1
18,781.0	88.50	182.40	12,481.2	-5,457.2	335.1	0.48	-0.22	-0.43	-15.6	6.3
18,875.0	89.70	182.80	12,482.7	-5,551.1	330.8	1.35	1.28	0.43	-14.5	1.4
18,969.0	90.20	179.20	12,482.8	-5,645.1	329.2	3.87	0.53	-3.83	-14.8	-0.8
19,063.0	91.90	179.80	12,481.9	-5,739.0	330.0	1.92	1.81	0.64	-16.9	-0.6
19,157.0	90.00	179.90	12,479.5	-5,833.0	330.2	2.02	-2.02	0.11	-18.8	-0.9
19,250.0	86.00	176.40	12,482.7	-5,925.9	333.2	5.71	-4.30	-3.76	-18.0	1.5
19,344.0	89.50	176.60	12,486.4	-6,019.6	339.0	3.73	3.72	0.21	-12.6	6.6
19,440.0	91.30	176.30	12,485.7	-6,115.4	344.9	1.90	1.87	-0.31	-13.3	12.0
19,534.0	89.40	180.00	12,485.2	-6,209.4	347.9	4.42	-2.02	3.94	-13.8	14.4
19,628.0	88.90	180.60	12,486.6	-6,303.4	347.5	0.83	-0.53	0.64	-12.4	13.3
19,720.0	88.80	180.80	12,488.4	-6,395.3	346.5	0.11	-0.11	0.00	-10.6	11.8
19,814.0	90.60	181.30	12,488.9	-6,489.3	344.9	2.05	1.91	0.74	-10.1	9.6
19,907.0	91.30	181.70	12,487.4	-6,582.3	342.5	0.87	0.75	0.43	-11.6	6.6
20,001.0	90.60	182.40	12,485.8	-6,676.2	339.1	1.05	-0.74	0.74	-13.2	2.7
20,025.0	90.60	182.10	12,485.5	-6,700.2	338.2	1.25	0.00	-1.25	-13.5	1.6
20,083.0	90.60	182.10	12,484.9	-6,758.1	336.1	0.00	0.00	0.00	-14.1	-0.9

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
11,997.0	11,885.4	995.7	244.0	KOP, MD:11997.0', TVD:11885.4',N/S:995.7', E/W:244.0', INC:3.45
12,195.0	12,075.8	953.0	267.8	FTP Crossing, MD:12195.0', TVD:12075.8',N/S:953.0', E/W:267.8', INC:23.68
20,025.0	12,485.5	-6,700.2	336.2	Last MWD Survey (MD=20025.0')
20,083.0	12,484.9	-6,753.1	336.1	Projection to Bit (MD=20083.0')

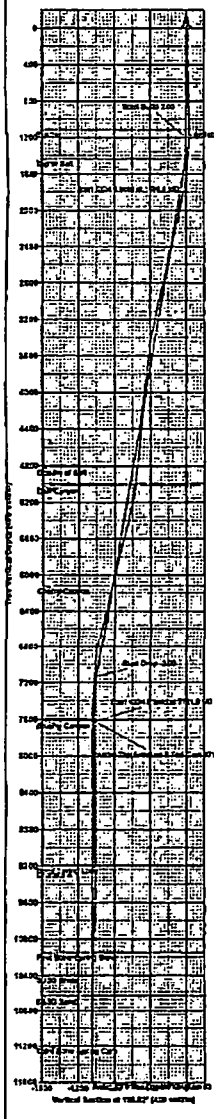
Checked By: _____ Approved By: _____ Date: _____

eog resources

Lea County, NM (NAD 83 NME)

Antietam 9 Fed Com #715H

Plan #2



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.83°

Magnetic Field
Strength: 47783.3nT
Dip Angle: 63.83°
Date: 7/13/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.43°
To convert a Magnetic Direction to a True Direction, Add 6.83° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #715H

3417.0
KB = 25 @ 3442.0usft

Northing	Easting	Latitude	Longitude
418941.00	777338.00	32° 6' 58.023 N	103° 34' 14.817 W

SECTION DETAILS

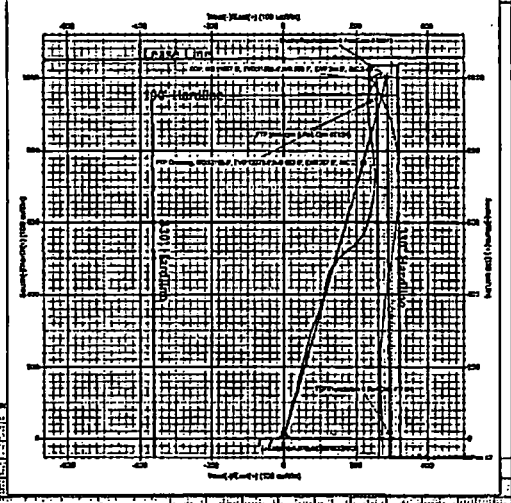
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1698.8	9.98	16.02	1696.3	41.6	12.0	2.00	16.02	-41.0	
4	7222.8	9.98	16.02	7136.7	951.4	276.0	0.00	0.00	-946.4	
5	7721.5	0.00	0.00	7633.0	1003.0	288.0	2.00	180.00	-987.4	
6	12046.0	0.00	0.00	11957.5	1003.0	288.0	0.00	0.00	-987.4	
7	12796.0	90.00	179.64	12435.0	525.8	291.0	12.00	179.64	-510.4	
8	13306.9	90.00	179.64	12435.0	14.7	294.2	0.00	0.00	0.0	TGT#1(Antietam 9 Fed Com #715H)
9	13348.9	89.09	179.63	12435.3	-27.3	294.5	2.16	-179.63	41.9	
10	13957.6	89.09	179.63	12445.0	-633.9	298.3	0.00	0.00	650.0	TGT#2(Antietam 9 Fed Com #715H)
11	13973.8	89.41	179.64	12445.2	-652.1	298.4	2.00	0.64	666.2	
12	15909.5	89.41	179.64	12465.0	-2587.7	310.7	0.00	0.00	2600.0	TGT#3(Antietam 9 Fed Com #715H)
13	15920.0	89.20	179.64	12465.1	-2598.2	310.7	2.00	-160.00	2610.4	
14	17351.1	89.20	179.64	12485.0	-4029.1	319.8	0.00	0.00	4040.0	TGT#4(Antietam 9 Fed Com #715H)
15	17391.8	89.41	179.64	12485.1	-4039.6	319.8	2.00	0.00	4050.5	
16	18327.1	89.41	179.64	12495.0	-5005.0	325.9	0.00	0.00	5015.0	TGT#5(Antietam 9 Fed Com #715H)
17	18345.1	89.77	179.64	12495.1	-5023.0	326.0	2.00	0.00	5033.0	
18	19328.0	89.77	179.64	12499.0	-6005.9	332.2	0.00	0.00	6015.0	TGT#6(Antietam 9 Fed Com #715H)
19	19339.4	90.00	179.64	12499.0	-6017.3	332.3	2.00	0.00	6025.4	
20	20081.1	90.00	179.64	12499.0	-6759.0	337.0	0.00	0.00	6767.4	PBHL (Antietam 9 Fed Com #715H)

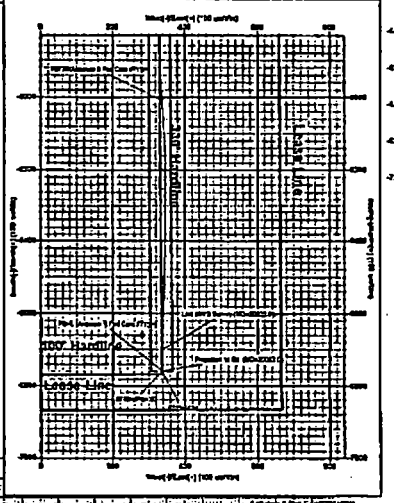
CASING DETAILS

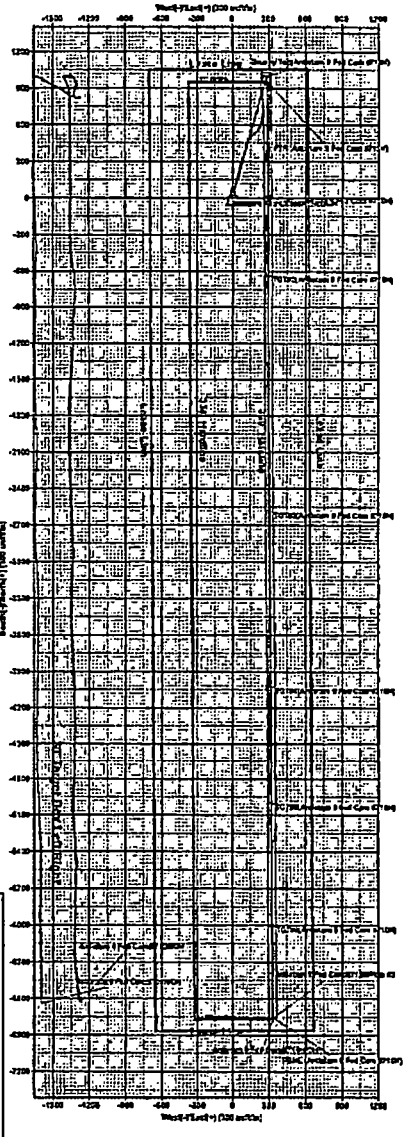
No casing data is available

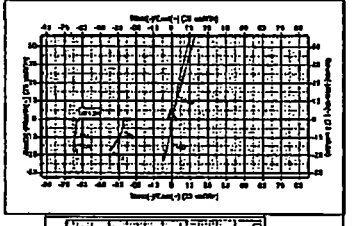
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

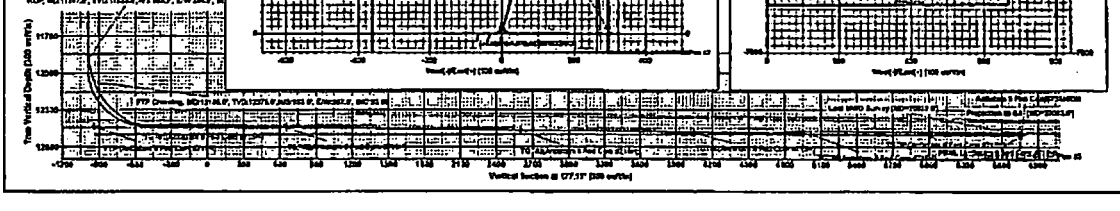
Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT#1(Antietam 9 Fed Com #715H)	12435.0	14.7	294.2	418953.70	777632.20
TGT#3(Antietam 9 Fed Com #715H)	12445.0	-633.9	298.3	418306.10	777636.51
TGT#2(Antietam 9 Fed Com #715H)	12446.0	-2587.7	310.7	416353.30	777649.57
TGT#4(Antietam 9 Fed Com #715H)	12485.0	-4029.1	319.8	414911.90	777657.77
TGT#5(Antietam 9 Fed Com #715H)	12495.0	-5005.0	325.9	413936.00	777663.93
TGT#6(Antietam 9 Fed Com #715H)	12499.0	-6025.9	332.2	412915.10	777670.25
PBHL (Antietam 9 Fed Com #715H)	12499.0	-6759.0	337.0	412182.00	777675.00
Brushy Top(Antietam 9 Fed Com #715H)	7918.0	1003.0	288.0	419944.00	777626.00
FTP (Antietam 9 Fed Com #715H)	12438.0	853.0	288.0	419794.00	777626.00
Interp @ 13401.8 (#715H-ON landing projection)	12431.8	631.8	333.1	419572.47	777671.13











Bureau of Land Management

WATER PRODUCTION & DISPOSAL INFORMATION

LEASE: ANTIETAM 9 FEDERAL COM # 713H 30-025-45476
ANTIETAM 9 FEDERAL COM # 714H 30-025-45477
ANTIETAM 9 FEDERAL COM # 715H 30-025-45478
Lease no NMNM 118726
SECTION 9, T25S, R33E

1. Name of formation producing water on lease: **WOLFCAMP**
2. Amount of water produced from all formations in barrels per day **6000-9500 BWPD**
3. How water is stored on lease **4 – 400 BBL Tanks**
4. How water is moved to disposal facility **Pipeline/Trucked**
5. Disposal Facility:
   EOG Red Hills Gathering System - 97% of water, 3% water. Majority of water is recycled

   a. Name of Operator/facility well name & number

EOG RESOURCES, INC	**EOG RESOURCES, INC**
BLACK Bear 36 State #5	**Dragon 36 State SWD #11**
30-025-40585	**30-025-41615**
H-36-25S-33E	**C-36-24S-33E**
Permit no 1359	**Permit no 1486**

Type of facility or wells **SWD**