

HOBBS OCD

Form 3160-4
(August 2007)

DEC 04 2019

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD

Hobbs

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

RECEIVED

WELL OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			5. Lease Serial No. NMNM118726		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator EOG RESOURCES, INC			7. Unit or CA Agreement Name and No.		
Contact: KAY MADDOX E-Mail: KAY_MADDOX@EOGRESOURCES.COM			8. Lease Name and Well No. ANTIETAM 9 FEDERAL COM 714H		
3. Address PO BOX 2267 MIDLAND, TX 79702			9. API Well No. 30-025-45477		
3a. Phone No. (include area code) Ph: 432-686-3658			10. Field and Pool, or Exploratory WC025 G09 S253309P; UPPER		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 9 T25S R33E Mer NMP At surface NENE 1052FNL 657FEL 32.149449 N Lat, 103.570889 W Lon Sec 9 T25S R33E Mer NMP At top prod interval reported below NENE 370FNL 896FEL 32.151323 N Lat, 103.571659 W Lon Sec 16 T25S R33E Mer NMP At total depth SENE 2530FNL 853FEL 32.130867 N Lat, 103.571535 W Lon			11. Sec., T., R., M., or Block and Survey or Area Sec 9 T25S R33E Mer NMP		
14. Date Spudded 02/10/2019			12. County or Parish LEA		
15. Date T.D. Reached 03/16/2019			13. State NM		
16. Date Completed ☐ D & A ☒ Ready to Prod. 06/29/2019			17. Elevations (DF, KB, RT, GL)* 3417 GL		
18. Total Depth: MD TVD 20078 12472		19. Plug Back T.D.: MD TVD 20078 124472		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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 J55	40.0		1210		685		0	
8.750	7.625 HCP110	29.7		11792		1900		0	
6.750	5.500 ICYP110	20.0		20060		820		12000	

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

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12630	20078	12630 TO 20078	3.250	1309	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
12630 TO 20078	18,697,171 LBS PROPPANT; 280,474 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	→	3942.0	8097.0	8657.0	45.0		FLOW FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	ACCEPTED FOR RECORD
64	SI	2269.0	→				2054	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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	BUREAU OF LAND MANAGEMENT ROSWELL FIELD OFFICE

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

ELECTRONIC SUBMISSION #474036 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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. 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. 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	1106		BARREN	RUSTLER	1106
T/SALT	1545		BARREN	T/SALT	1545
B/SALT	4930		BARREN	B/SALT	930
BRUSHY CANYON	7636		OIL & GAS	BRUSHY CANYON	7636
1ST BONE SPRING SAND	10087		OIL & GAS	1ST BONE SPRING SAND	10087
2ND BONE SPRING SAND	10719		OIL & GAS	2ND BONE SPRING SAND	10719
3RD BONE SPRING SAND	11850		OIL & GAS	3RD BONE SPRING SAND	11850
WOLFCAMP	12288		OIL & GAS	WOLFCAMP	12288

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 #474036 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 fraudulent 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 30-025- 45477	² Pool Code 98180	³ Pool Name WC-025 G-09 S253309P; Upper Wolfcamp
⁴ Property Code 317131	⁵ Property Name ANTIETAM 9 FED COM	⁶ Well Number #714H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3417'

¹⁰Surface Location

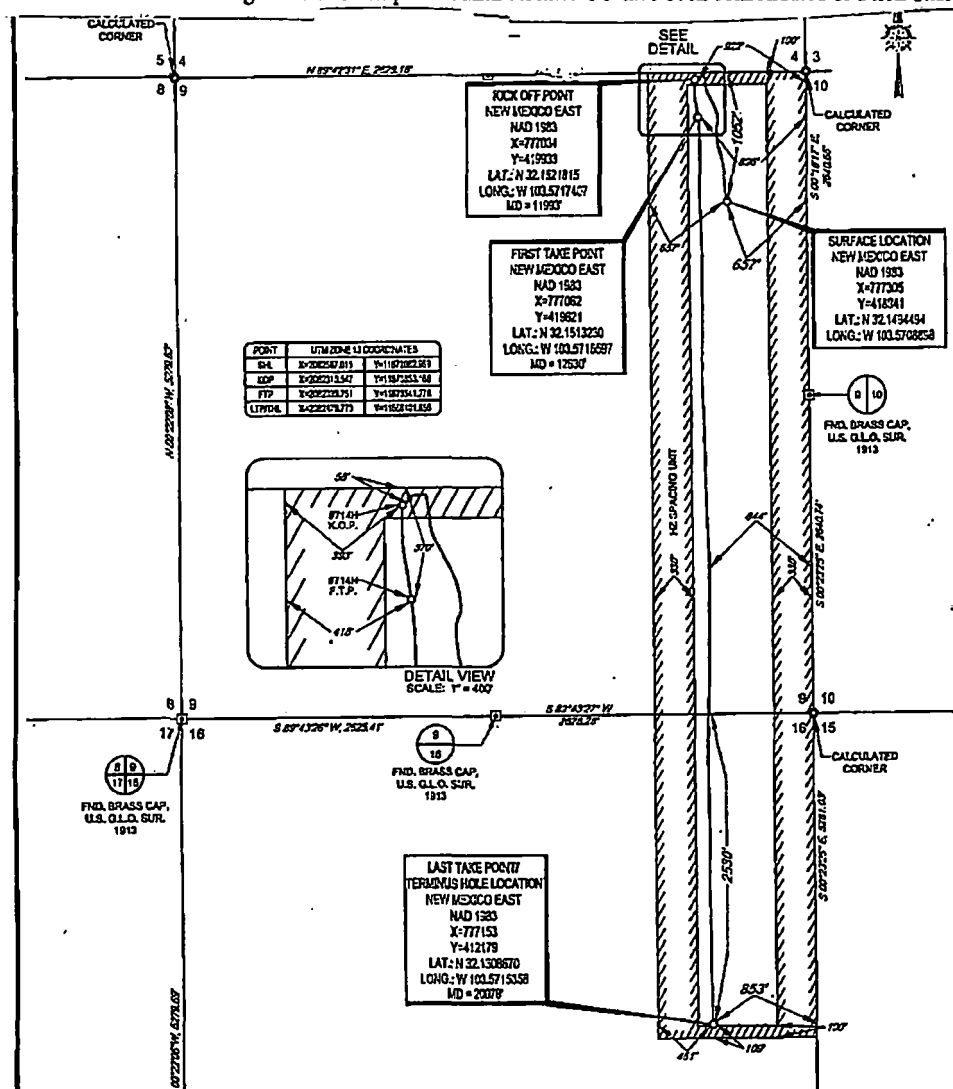
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	25-S	33-E	-	1052'	NORTH	657'	EAST	LEA

¹¹Bottom 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	-	2530'	NORTH	853'	EAST	LEA

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



¹⁷OPERATOR 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 leased 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.

Signature: Kay Maddox Date: 7/15/19

Printed Name: KAY MADDUX

E-mail Address:

¹⁸SURVEYOR 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.

Date of Survey: 04/30/2018
Signature and Seal of Professional Surveyor

Professional Surveyor Seal: NEW MEXICO
18329
Certificate Number



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Antietam 9 Fed Com

#714H

OH

Design: OH

Midland PVA

18 March, 2019



Midland PVA

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well 9714H
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:	9714H		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° 8' 6.852 N
From:	Map	Easting:	774,699.00 usft	Longitude:	103° 34' 45.432 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 "

Well:	9714H					
Well Position	•NW-S	0.0 usft	Northing:	418,941.00 usft	Latitude:	32° 8' 58.022 N
	•E-W	0.0 usft	Easting:	777,305.00 usft	Longitude:	103° 34' 15.201 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
	IGRF2015	7/15/2018	(°)	(°)	(nT)
			6.83	59.88	47,783.31527565

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	•NW-S	•E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	181.36	

Survey Program	Date 3/18/2019			
From (usft)	To (usft)	Survey (WellBore),	Tool Name	Description
147.0	20,078.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	V&X #714H
Project:	Lea County, NM (HAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#714H	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)	DLog (°/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	0.0
147.0	1.00	185.00	147.0	-1.3	-0.1	0.68	0.68	0.00	0.0	0.0	0.0
325.0	1.40	181.00	325.0	-5.0	-0.7	0.24	0.22	3.37	0.0	0.0	0.0
508.0	1.20	201.89	507.9	-8.9	-1.8	0.17	-0.11	5.79	0.0	0.0	0.0
695.0	1.30	204.80	694.8	-12.7	-3.4	0.08	0.05	1.80	0.0	0.0	0.0
881.0	1.40	218.00	880.8	-16.4	-6.7	0.18	0.05	7.20	0.0	0.0	0.0
1,069.0	1.40	217.60	1,068.8	-20.0	-8.5	0.01	0.00	-0.21	0.0	0.0	0.0
1,169.0	1.30	208.60	1,168.7	-22.0	-9.8	0.21	-0.10	-8.00	0.0	0.0	0.0
1,332.0	2.20	20.20	1,331.7	-20.6	-9.6	2.14	0.55	104.66	-2.2	-1.6	-1.6
1,518.0	9.40	359.70	1,518.6	-2.1	-8.5	3.97	3.87	-11.02	-9.2	-7.1	-7.1
1,706.0	11.80	353.50	1,701.4	32.4	-10.7	1.41	1.28	-3.30	-19.5	-12.0	-12.0
1,893.0	12.00	354.80	1,884.4	70.7	-14.7	0.18	0.11	0.70	-29.4	-14.0	-14.0
2,080.0	12.00	353.90	2,067.3	109.4	-18.5	0.10	0.00	-0.48	-39.0	-17.2	-17.2
2,268.0	12.10	358.30	2,251.2	148.5	-21.8	0.27	0.05	1.28	-49.9	-18.3	-18.3
2,455.0	12.10	357.50	2,434.0	187.7	-24.0	0.13	0.00	0.64	-60.7	-21.1	-21.1
2,644.0	13.80	350.40	2,618.2	228.7	-28.8	1.23	0.90	-3.78	-70.5	-31.5	-31.5
2,831.0	14.20	350.50	2,799.7	274.3	-36.1	0.21	0.21	0.05	-86.9	-32.0	-32.0
3,018.0	14.10	353.60	2,881.0	318.5	-42.4	0.41	-0.05	1.68	-105.3	-26.3	-26.3
3,205.0	14.40	341.60	3,162.3	364.3	-52.3	1.58	0.16	-6.42	-114.1	-50.3	-50.3
3,393.0	14.90	345.30	3,344.2	409.8	-65.8	0.56	0.27	1.97	-135.6	-39.4	-39.4
3,580.0	14.20	347.80	3,525.2	455.5	-76.7	0.50	-0.37	1.34	-155.3	-31.7	-31.7
3,767.0	12.30	348.50	3,707.2	497.4	-85.8	1.92	-1.02	0.97	-169.5	-29.1	-29.1
3,954.0	11.20	359.10	3,890.3	535.1	-89.8	1.28	-0.59	5.67	-181.1	0.8	0.8
4,142.0	9.10	357.50	4,075.3	568.2	-90.7	1.13	-1.12	-0.80	-183.1	-8.8	-8.8
4,330.0	7.50	358.90	4,261.4	595.4	-91.6	0.86	-0.85	0.69	-183.4	-8.1	-8.1
4,517.0	5.90	30.40	4,447.1	615.9	-87.0	2.11	-0.56	16.84	-159.5	74.2	74.2
4,611.0	6.30	32.60	4,540.7	623.7	-82.2	0.88	-0.64	2.34	-154.9	70.4	70.4



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	VAH 0714H
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:	0714H	North Reference:	Gdd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,798.0	5.10	7.40	4,726.9	639.2	-76.5	1.22	-0.11	-13.48	-158.4	-14.4
4,886.0	5.50	357.50	4,914.1	856.5	-75.8	0.53	0.21	-5.27	-141.6	-48.8
5,173.0	5.50	351.80	5,100.3	674.3	-77.4	0.29	0.00	-3.05	-118.7	-63.2
5,359.0	7.60	347.20	5,285.1	695.1	-81.4	1.16	1.13	-2.47	-96.9	-71.6
5,547.0	8.20	349.70	5,471.3	720.4	-86.6	0.37	0.32	1.33	-87.5	-67.2
5,734.0	8.60	338.90	5,658.3	746.8	-94.0	0.87	0.21	-5.78	-63.4	-77.8
5,922.0	9.50	331.90	5,841.9	773.4	-106.4	0.76	0.48	-3.72	-46.7	-75.3
6,110.0	9.00	332.20	6,027.5	800.1	-120.5	0.27	-0.27	0.16	-40.8	-63.9
6,296.0	8.50	330.90	6,211.3	825.0	-134.0	0.28	-0.27	-0.70	-31.8	-63.3
6,483.0	8.90	331.20	6,396.2	849.7	-147.7	0.22	0.21	0.16	-24.2	-41.4
6,670.0	8.80	331.70	6,581.0	875.0	-161.5	0.07	-0.05	0.27	-17.1	-28.7
6,857.0	8.10	344.30	6,765.9	900.3	-171.8	1.06	-0.37	6.74	-12.4	-19.0
7,045.0	7.40	351.70	6,952.2	925.0	-177.1	0.65	-0.37	3.94	-1.8	-17.2
7,232.0	7.10	354.20	7,137.7	948.4	-180.0	0.23	-0.18	1.34	10.5	-19.8
7,420.0	6.80	354.10	7,324.5	959.4	-182.2	0.69	-0.69	-0.05	16.1	-22.1
7,607.0	5.30	351.70	7,510.7	987.4	-184.4	0.29	-0.27	-1.28	13.3	-22.4
7,795.0	4.20	348.20	7,698.0	1,002.7	-187.3	0.63	-0.59	-2.93	2.6	-21.7
7,982.0	2.20	350.20	7,884.7	1,012.9	-189.5	1.08	-1.07	2.14	-9.3	-21.4
8,169.0	1.60	349.50	8,071.6	1,019.0	-190.6	0.32	-0.32	-0.37	-15.3	-21.5
8,356.0	1.20	325.80	8,258.8	1,023.1	-192.2	0.37	-0.21	-12.67	-9.7	-26.9
8,449.0	1.10	309.80	8,351.5	1,024.5	-193.4	0.36	-0.11	-17.20	-3.7	-28.8
8,638.0	0.90	288.00	8,538.6	1,026.1	-199.2	0.24	-0.11	-12.73	8.1	-28.6
8,823.0	1.00	265.50	8,725.5	1,026.4	-199.3	0.19	0.05	-10.66	11.8	-25.5
9,009.0	1.20	252.70	8,911.4	1,025.6	-202.7	0.17	0.11	-8.88	13.6	-22.8
9,196.0	1.40	246.70	9,098.4	1,024.2	-208.7	0.13	0.11	-3.21	11.7	-21.3
9,384.0	1.40	237.20	9,285.3	1,022.7	-211.1	0.14	0.00	5.59	3.0	-22.8
9,571.0	2.00	281.90	9,473.3	1,022.9	-216.5	0.50	0.32	13.21	-12.0	-20.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #714H
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:	#714H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc [°]	Asd (azimuth) [°]	TVD (usft)	N/S (usft)	EW (usft)	DLeg [°/100usft]	Build [°/100usft]	Turn [°/100usft]	High to Plan (usft)	Right to Plan (usft)	
9,759.0	2.60	284.70	9,561.1	1,024.7	-223.8	0.32	0.32	1.49	-20.8	-20.1	
9,948.0	2.50	252.00	9,847.9	1,024.5	-231.8	0.77	-0.05	-17.49	-14.1	-30.3	
10,133.0	2.20	229.40	10,034.8	1,020.8	-238.4	0.52	-0.16	-12.09	-8.7	-35.0	
10,320.0	3.20	216.20	10,221.6	1,014.3	-244.2	0.63	0.53	-7.08	-9.2	-36.9	
10,507.0	2.70	218.30	10,408.3	1,006.7	-250.0	0.27	-0.27	1.12	-20.2	-36.3	
10,694.0	1.70	233.20	10,595.2	1,001.6	-255.0	0.61	-0.53	7.97	-35.9	-28.8	
10,880.0	0.80	255.40	10,781.1	999.6	-258.4	0.54	-0.48	11.94	-48.0	-12.1	
11,068.0	1.20	254.70	10,969.1	998.7	-261.6	0.21	0.21	-0.37	-51.1	-12.7	
11,255.0	1.00	201.80	11,156.1	996.7	-264.1	0.53	-0.11	-28.28	-23.5	-49.9	
11,442.0	1.60	108.40	11,343.0	994.4	-262.2	1.04	0.32	-49.85	48.7	-22.2	
11,629.0	0.80	314.20	11,530.0	994.4	-260.7	1.25	-0.43	-82.48	-33.2	40.0	
11,744.0	1.60	246.00	11,645.0	994.4	-262.7	1.29	0.70	-58.52	-51.6	-15.9	
11,840.0	1.60	218.60	11,741.0	992.8	-264.8	0.81	0.00	-29.48	-40.4	-39.1	
11,934.0	3.00	287.40	11,834.9	992.5	-268.0	3.03	1.49	73.18	-54.0	24.8	
12,028.0	3.50	188.30	11,928.8	990.5	-271.2	4.88	0.53	-94.79	-20.2	-59.8	
12,121.0	16.00	181.90	12,020.3	974.9	-272.6	13.63	13.44	-17.63	5.3	-64.0	
12,215.0	23.70	179.30	12,109.5	943.1	-272.8	8.24	8.19	-2.77	14.6	-64.0	
12,309.0	25.30	180.10	12,194.2	904.1	-272.6	1.74	1.70	0.85	27.1	-64.8	
12,355.0	28.60	177.90	12,235.1	883.1	-272.2	8.12	7.83	-4.78	39.0	-63.3	
12,401.0	34.60	174.10	12,274.2	858.9	-270.4	13.75	13.04	-8.26	51.6	-58.0	
12,448.0	42.40	170.90	12,310.8	829.8	-265.5	16.51	15.96	-6.81	61.1	-52.5	
12,495.0	50.20	169.40	12,343.3	796.4	-260.7	18.75	16.60	-3.19	68.0	-45.9	
12,542.0	58.00	171.70	12,370.8	758.9	-254.5	17.06	16.60	4.89	66.0	-42.1	
12,588.0	63.40	171.60	12,393.3	718.2	-248.6	11.74	11.74	-0.22	65.3	-37.1	
12,635.0	72.30	172.30	12,411.0	676.1	-242.6	18.99	18.94	1.49	61.9	-32.6	
12,682.0	82.10	172.60	12,421.4	630.8	-238.5	20.86	20.85	0.54	54.5	-28.2	
12,775.0	91.40	179.00	12,426.7	538.3	-229.8	12.13	10.00	6.88	34.8	-24.0	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well 0714H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antelope 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	0714H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,868.0	92.00	179.40	12,423.9	445.4	-228.5	0.78	0.65	0.43	22.3	-23.0	
12,962.0	89.90	180.50	12,422.4	351.4	-228.4	2.52	-2.23	1.17	20.4	-23.5	
13,055.0	90.90	180.80	12,421.7	258.4	-229.5	1.12	1.08	0.32	19.8	-25.1	
13,149.0	92.00	180.70	12,419.4	164.4	-230.7	1.18	1.17	-0.11	17.4	-27.0	
13,242.0	90.40	178.90	12,417.4	71.5	-230.4	2.59	-1.72	-1.84	15.4	-27.2	
13,336.0	89.10	178.20	12,417.8	-22.5	-228.0	1.57	-1.38	-0.74	15.7	-25.4	
13,429.0	89.80	177.70	12,418.7	-115.4	-224.7	0.92	0.75	-0.54	15.2	-22.7	
13,522.0	90.00	178.20	12,418.9	-208.4	-221.3	0.58	0.22	0.54	13.8	-20.0	
13,617.0	90.30	178.40	12,418.6	-303.3	-218.5	0.38	0.32	0.21	12.1	-17.7	
13,710.0	90.10	177.80	12,418.3	-398.3	-215.4	0.68	-0.22	-0.65	10.3	-15.2	
13,804.0	90.70	179.50	12,417.7	-490.3	-213.2	1.92	0.64	1.81	8.1	-13.6	
13,898.0	88.90	179.80	12,418.0	-584.3	-212.6	1.84	-1.81	0.32	7.0	-13.6	
13,992.0	88.20	179.90	12,420.4	-678.2	-212.4	0.75	-0.74	0.11	8.0	-14.0	
14,085.0	88.60	180.00	12,423.0	-771.2	-212.3	0.44	0.43	0.11	9.8	-14.5	
14,178.0	88.60	180.20	12,425.3	-865.2	-212.5	0.21	0.00	0.21	11.0	-15.3	
14,272.0	89.20	181.10	12,427.0	-958.1	-213.5	1.16	0.85	0.97	11.8	-16.9	
14,366.0	90.20	181.40	12,427.5	-1,052.1	-215.8	1.11	1.06	0.32	11.3	-19.5	
14,450.0	89.60	180.70	12,427.7	-1,146.1	-217.3	0.88	-0.64	-0.74	10.5	-21.9	
14,553.0	88.60	179.70	12,429.2	-1,239.1	-217.6	1.52	-1.09	-1.08	11.0	-22.8	
14,647.0	89.70	181.40	12,430.5	-1,333.1	-218.5	2.15	1.17	1.81	11.5	-24.3	
14,740.0	88.40	180.40	12,433.7	-1,426.0	-220.0	3.71	-3.55	-1.08	13.7	-26.3	
14,834.0	88.60	178.50	12,439.5	-1,519.8	-219.1	2.03	0.21	-2.02	18.5	-28.0	
14,928.0	88.40	177.10	12,443.6	-1,613.6	-215.5	2.42	1.81	-1.49	21.6	-23.0	
15,021.0	89.30	177.20	12,445.4	-1,706.5	-210.9	0.97	0.97	0.11	22.5	-18.9	
15,115.0	89.10	177.80	12,446.7	-1,800.4	-206.8	0.87	-0.21	0.64	22.9	-15.4	
15,208.0	90.60	177.70	12,447.0	-1,893.3	-203.1	1.82	1.51	-0.11	22.2	-12.4	
15,301.0	91.70	177.70	12,445.1	-1,986.2	-199.4	1.18	1.18	0.00	19.3	-9.2	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well 6714H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Anilohm 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	9714H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Az (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
15,395.0	89.10	179.20	12,444.5	-2,080.2	-198.8	3.19	-2.77	1.60	17.7	-7.3	
15,488.0	88.70	178.50	12,446.2	-2,173.1	-195.0	0.87	-0.43	-0.75	18.6	-6.0	
15,582.0	91.00	179.00	12,448.5	-2,287.1	-182.9	2.50	2.45	0.53	17.8	-4.5	
15,675.0	90.70	179.80	12,445.1	-2,380.1	-181.1	0.39	-0.32	-0.22	15.5	-3.3	
15,768.0	91.50	179.10	12,443.3	-2,453.0	-188.6	1.14	0.88	-0.75	12.8	-1.4	
15,861.0	87.70	178.40	12,444.0	-2,546.0	-185.8	4.10	-4.09	0.32	12.5	0.8	
15,954.0	87.80	179.10	12,447.6	-2,638.8	-182.9	0.34	0.11	-0.32	15.0	3.1	
16,047.0	87.40	177.70	12,451.5	-2,731.7	-179.5	0.81	-0.43	-0.43	17.8	5.9	
16,141.0	87.90	177.80	12,455.4	-2,825.6	-175.8	0.54	0.53	0.11	20.2	9.0	
16,234.0	88.10	178.80	12,458.6	-2,918.4	-171.5	1.10	0.22	-1.08	22.1	12.8	
16,328.0	80.30	180.30	12,459.8	-3,012.3	-169.1	4.40	2.34	3.72	22.2	14.8	
16,421.0	91.20	180.60	12,458.7	-3,105.3	-189.8	1.02	0.97	0.32	19.6	13.3	
16,515.0	88.80	180.70	12,458.6	-3,199.3	-170.9	2.45	-2.45	0.11	18.3	11.6	
16,608.0	88.90	180.60	12,460.4	-3,292.3	-171.9	0.11	0.00	-0.11	18.8	9.9	
16,702.0	88.30	179.90	12,462.7	-3,386.3	-172.4	0.98	-0.84	-0.74	19.7	8.9	
16,796.0	88.40	179.30	12,465.4	-3,480.2	-171.7	0.65	0.11	-0.84	21.1	9.0	
16,890.0	88.20	181.00	12,468.2	-3,574.2	-171.8	1.82	-0.21	1.81	22.8	8.2	
16,983.0	88.20	180.80	12,470.3	-3,667.1	-173.4	1.10	1.08	-0.22	23.5	6.1	
17,077.0	88.60	180.00	12,472.1	-3,761.1	-174.1	1.08	-0.64	-0.85	23.9	4.9	
17,171.0	90.30	180.80	12,473.0	-3,855.1	-174.7	2.00	1.81	0.85	23.5	3.8	
17,264.0	89.80	181.00	12,472.9	-3,948.1	-178.2	0.58	-0.54	0.22	22.2	1.8	
17,358.0	89.90	180.50	12,473.2	-4,042.1	-177.4	0.54	0.11	-0.53	21.1	-0.3	
17,452.0	89.90	182.00	12,473.3	-4,136.1	-178.5	1.80	0.00	1.60	20.3	-2.9	
17,545.0	90.20	182.50	12,473.3	-4,229.0	-183.1	0.63	0.32	0.54	19.3	-7.1	
17,639.0	89.10	180.10	12,473.8	-4,323.0	-185.2	2.81	-1.17	-2.55	18.9	-9.9	
17,733.0	89.20	180.20	12,475.2	-4,416.9	-185.5	0.15	0.11	0.11	19.3	-10.7	
17,826.0	87.20	179.20	12,478.2	-4,509.9	-185.0	2.40	-2.15	-1.08	21.3	-10.8	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #714H
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:	#714H	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)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
17,819.0	89.70	179.40	12,480.7	-4,502.8	-183.9	2.70	2.69	0.22	22.9	-10.2	
18,012.0	91.10	179.40	12,480.0	-4,595.8	-182.9	1.51	1.51	0.00	21.3	-9.9	
18,106.0	91.40	179.20	12,478.0	-4,789.8	-181.7	0.38	0.32	-0.21	19.2	-9.3	
18,200.0	91.70	178.90	12,475.4	-4,883.8	-180.2	0.45	0.32	-0.32	14.7	-8.3	
18,283.0	91.90	178.40	12,472.5	-4,976.7	-178.8	0.58	0.22	0.54	10.9	-7.6	
18,387.0	88.50	178.50	12,473.8	-5,070.8	-177.1	5.82	-5.74	-0.96	11.5	-8.4	
18,480.0	88.50	178.50	12,479.5	-5,163.4	-174.7	0.00	0.00	0.00	16.8	-4.8	
18,574.0	87.90	179.00	12,484.1	-5,257.3	-172.6	1.58	1.49	0.53	21.1	-3.1	
18,668.0	92.40	183.30	12,483.8	-5,351.2	-174.5	6.82	4.79	4.57	20.5	-5.8	
18,761.0	92.00	180.80	12,480.3	-5,444.1	-177.8	2.72	-0.43	-2.69	18.5	-0.5	
18,856.0	91.80	179.70	12,477.1	-5,539.0	-178.2	1.18	-0.21	-1.18	13.0	-10.5	
18,950.0	92.40	179.80	12,473.7	-5,633.0	-177.8	0.85	0.84	0.11	9.2	-10.7	
19,043.0	91.30	178.60	12,470.7	-5,725.9	-178.5	1.75	-1.18	-1.29	5.8	-10.0	
19,137.0	90.80	178.70	12,469.0	-5,819.9	-174.3	0.54	-0.53	0.11	3.7	-8.4	
19,231.0	91.40	178.80	12,467.2	-5,913.8	-173.1	1.33	0.64	1.17	1.5	-7.7	
19,324.0	89.80	178.50	12,466.2	-6,008.8	-171.7	2.22	-1.72	-1.40	0.2	-6.9	
19,417.0	89.10	178.20	12,467.1	-6,099.8	-169.8	1.06	-0.75	0.75	1.4	-5.7	
19,511.0	88.50	179.40	12,468.2	-6,193.8	-168.7	0.48	0.43	0.21	3.1	-5.1	
19,605.0	87.20	179.80	12,470.8	-6,287.7	-168.1	2.50	-2.45	0.53	6.3	-5.1	
19,698.0	86.80	178.70	12,475.8	-6,380.8	-167.8	0.48	-0.43	-0.22	11.7	-5.4	
19,791.0	90.50	178.20	12,478.0	-6,473.8	-168.1	4.29	3.98	-1.61	14.4	-4.3	
19,884.0	91.10	177.60	12,478.7	-6,568.5	-162.7	0.91	0.85	-0.85	13.6	-1.5	
19,978.0	90.00	176.90	12,475.0	-6,660.4	-158.2	0.77	-0.21	-0.74	12.5	2.5	
20,020.0	91.40	176.50	12,474.2	-6,702.3	-155.8	1.82	1.19	-0.95	11.8	4.6	
20,078.0	91.40	176.50	12,472.8	-6,760.2	-152.2	0.00	0.00	0.00	10.8	7.8	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #7,14H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antitiam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	9714H	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		Comment
		+N/S (usft)	+E/W (usft)	
11,893.0	11,893.8	892.1	-270.4	KOP, MD:11893.0', TVD:11893.8', N/S:992.1', E/W:-270.4', INC2.18
12,197.2	12,092.3	950.0	-272.8	FTP Crossing, MD:12197.2', TVD:12092.3', N/S:950.0', E/W:-272.8', INC22.24
20,020.0	12,474.2	-8,702.3	-155.8	Last MWD Survey (MD=20020.0')
20,078.0	12,472.8	-8,760.2	-152.2	Projection to BIL (MD=20078.0')

Checked By: _____	Approved By: _____	Date: _____
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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