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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. NMNM110840

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.: PHILLY 31 FEDERAL COM 706H

3. Address: PO BOX 2267, MIDLAND, TX 79702

3a. Phone No. (include area code): Ph: 432-686-3658

9. API Well No.: 30-025-44763

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: SWNE 290FSL 1790FEL 32.001066 N Lat, 103.506158 W Lon Sec 31 T26S R34E Mer NMP
At top prod interval reported below: SWNE 334FSL 2084FEL 32.001186 N Lat, 103.507108 W Lon Sec 30 T26S R34E Mer NMP
At total depth: NWNE 109FNL 2062FEL 32.021367 N Lat, 103.507067 W Lon

10. Field and Pool, or Exploratory: SANDERS TANK;UP WOLFCAMP

11. Sec., T., R., M., or Block and Survey or Area: Sec 31 T26S R34E Mer NMP

12. County or Parish: LEA

13. State: NM

14. Date Spudded: 06/19/2019

15. Date T.D. Reached: 07/20/2019

16. Date Completed ☐ D & A ☒ Ready to Prod. 09/09/2019

17. Elevations (DF, KB, RT, GL)*: 3352 GL

18. Total Depth: MD 20206 TVD 12720

19. Plug Back T.D.: MD 20128 TVD 12720

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
12.500	9.625 J55	40.0		996		510		0	
8.750	7.625 HCP-110	29.7		12049		1512		0	
6.750	5.500 ICYP110	20.0		20181		750		6654	

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	12860	20128	12860 TO 20128	3.250	1440	OPEN
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
12860 TO 20128	18,466,692 LBS PROPPANT;241,901 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
09/09/2019	09/13/2019	24	→	2981.0	5423.0	9579.0	43.0		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		1970.0	→				1819	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**	
			→						

ACCEPTED FOR RECORD
NOV 19 2019
BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

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

ELECTRONIC SUBMISSION #486488 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 03/09/2020

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	835		BARREN	RUSTLER	835
T/SALT	1465		BARREN	T/SALT	1465
B/SALT	5104		OIL & GAS	B/SALT	5104
BRUSHY CANYON	8042		OIL & GAS	BRUSHY CANYON	8042
1ST BONE SPRING SAND	10553		OIL & GAS	1ST BONE SPRING SAND	10553
2ND BONE SPRING SAND	11089		OIL & GAS	2ND BONE SPRING SAND	11089
3RD BONE SPRING SAND	12145		OIL & GAS	3RD BONE SPRING SAND	12145
WOLFCAMP	12594		OIL & GAS	WOLFCAMP	12594

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 #486488 Verified by the BLM Well Information System.
For EOG RESOURCES, INC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/18/2019 ()

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

Signature (Electronic Submission) Date 10/04/2019

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., Sante 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.
Sante 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- 44763	98097	SANDERS TANK; UPPER WOLFCAMP

[4]Property Code	[5]Property Name	[6]Well Number
321381	PHILLY 31 FED COM	#706H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3352'

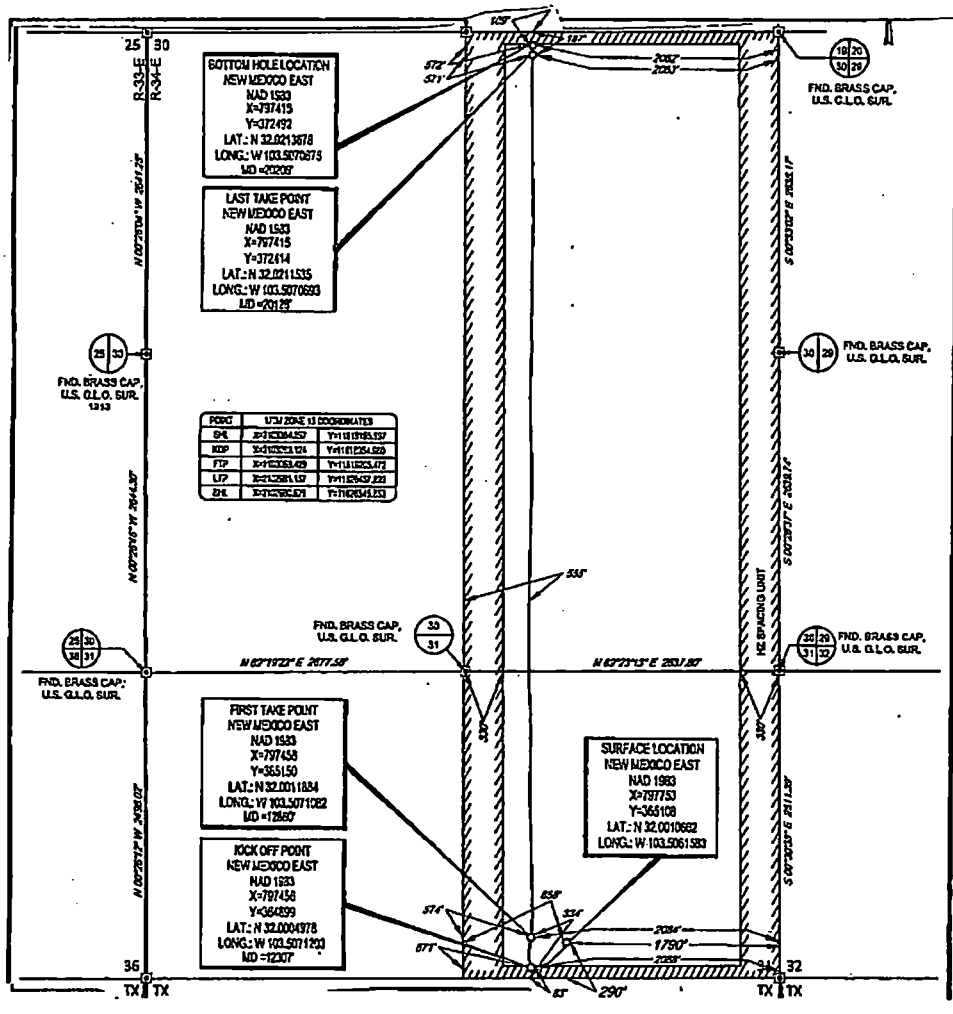
[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	31	26-S	34-E	–	290'	SOUTH	1790'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	30	26-S	34-E	–	109'	NORTH	2062'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
473.11			

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 10/03/19
Signature Date

KAY MADDOX
Printed Name

E-mail Address

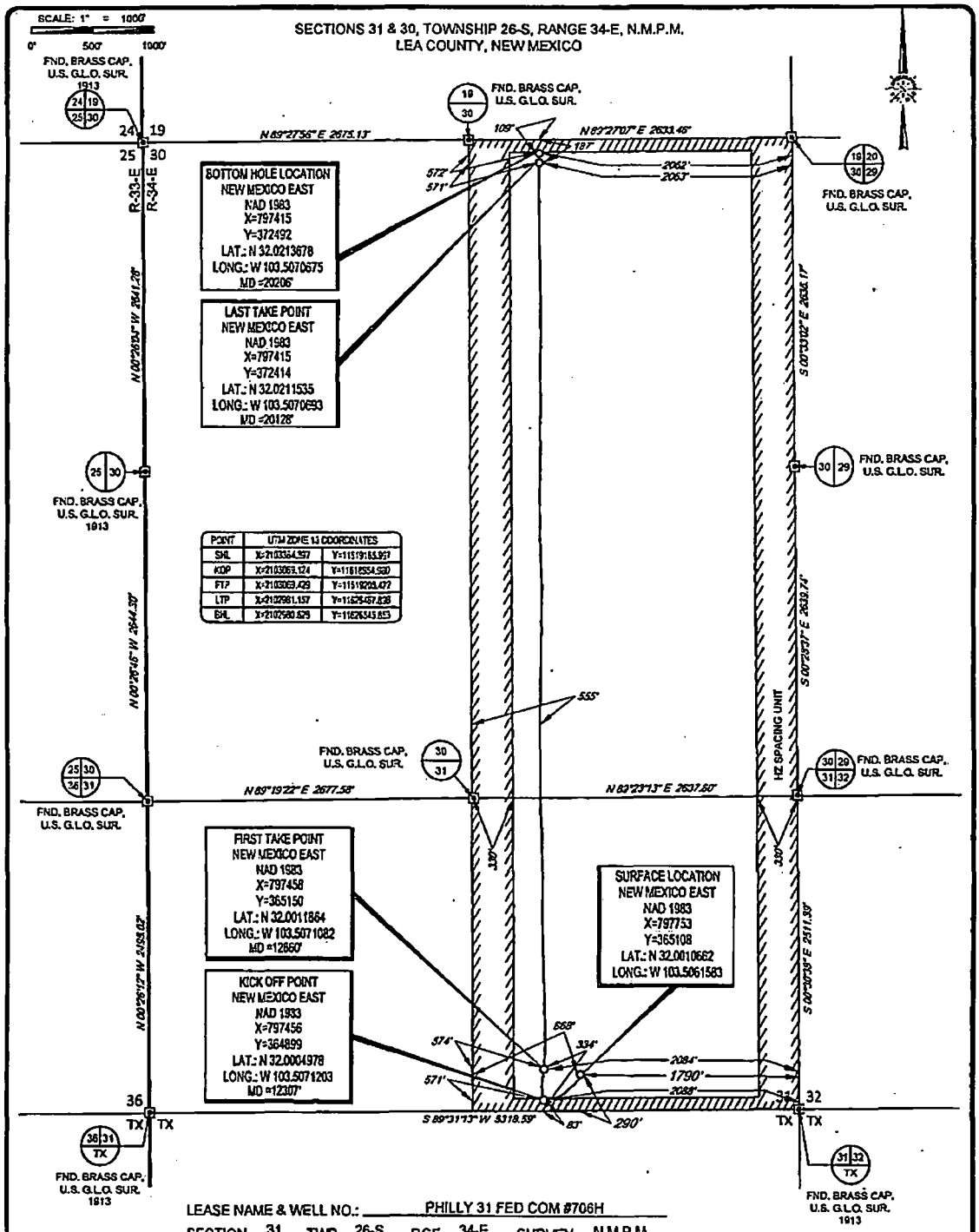
[18]SURVEYOR CERTIFICATION

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.

01/11/2017
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL B. BROWN
NEW MEXICO
16329
PROFESSIONAL SURVEYOR

Certificate Number



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2103354.597	Y=11519155.957
KOP	X=2103069.124	Y=11518554.580
FTP	X=2103069.429	Y=11519229.407
LTP	X=2102981.157	Y=11525497.838
BHL	X=2102980.829	Y=11525545.853

LEASE NAME & WELL NO.: PHILLY 31 FED COM #706H
SECTION 31 TWP 26-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3350'
DESCRIPTION 290' FSL & 1790' FEL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

Ramon A. Dominguez, P.S. No. 24508
AUGUST 20, 2019

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

eog resources, inc.

	REVISION:
PHILLY 31 FED COM #706H AS-COMPLETED	
DATE: 08/20/19	
FILE: AD_PHILLY_31_FED_COM_706H	
DRAWN BY: H.B.	
SHEET: 1 OF 1	

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
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.

eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Philly 31 Fed Com
#706H
OH

Design: OH

Midland PVA

19 July, 2019

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	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 Philly 31 Fed Com

Site Position:		Northing:	365,084.00 usft	Latitude:	32° 0' 3.819 N
From:	Map	Easting:	794,820.00 usft	Longitude:	103° 30' 56.229 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well #706H

Well Position	+N/-S	0.0 usft	Northing:	365,108.60 usft	Latitude:	32° 0' 3.835 N
	+E/-W	0.0 usft	Easting:	797,753.00 usft	Longitude:	103° 30' 22.166 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,352.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/19/2017	6.88	59.86	47,788.44560815

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	357.18

Survey Program Date 7/19/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
232.0	20,208.0	Drltech MWD (OH)	MWD	OWSG MWD - Standard

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 1377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 1377.0usft
Well:	#706H	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
232.0	0.90	167.80	232.0	-1.8	0.4	0.39	0.39	0.00	0.0	0.0
319.0	0.70	153.50	319.0	-2.8	0.8	0.32	-0.23	-16.44	0.0	0.0
404.0	0.60	151.80	404.0	-3.8	1.2	0.12	-0.12	-2.00	0.0	0.0
497.0	0.60	151.90	497.0	-4.6	1.7	0.00	0.00	0.11	0.0	0.0
584.0	0.70	152.50	584.0	-5.5	2.7	0.05	0.05	0.32	0.0	0.0
778.0	0.60	135.80	778.0	-7.4	3.3	0.23	-0.11	-17.77	0.0	0.0
872.0	0.80	109.40	871.9	-7.8	4.2	0.40	0.21	-28.09	0.0	0.0
953.0	0.80	107.80	952.9	-8.0	5.4	0.13	0.12	-1.98	0.0	0.0
1,041.0	1.32	117.48	1,040.9	-9.0	6.9	0.62	0.48	11.00	-0.3	-0.1
1,135.0	2.11	180.94	1,134.8	-11.2	7.9	2.05	0.84	67.51	-1.9	0.0
1,229.0	3.78	206.51	1,228.6	-15.7	6.4	2.22	1.78	27.20	-4.4	1.6
1,323.0	6.68	217.24	1,322.4	-22.9	1.8	3.24	3.09	11.41	-7.7	3.8
1,417.0	7.30	219.61	1,415.7	-31.8	-5.4	0.73	0.66	2.52	-11.5	6.0
1,511.0	7.30	220.84	1,508.9	-40.8	-13.1	0.17	0.00	1.31	-15.3	8.1
1,604.0	7.56	222.68	1,601.1	-49.9	-21.1	0.39	0.28	1.98	-19.1	10.1
1,698.0	7.74	224.71	1,694.3	-59.0	-29.7	0.35	0.19	2.16	-23.2	12.2
1,791.0	7.91	225.76	1,786.4	-67.9	-38.7	0.24	0.18	1.13	-27.6	13.7
1,885.0	7.91	227.68	1,879.5	-76.7	-48.2	0.32	0.00	2.34	-31.8	15.6
1,979.0	8.18	227.25	1,972.6	-85.6	-57.9	0.31	0.29	-0.76	-37.0	15.9
2,073.0	8.18	226.60	2,065.6	-94.7	-67.7	0.05	0.00	-0.37	-42.4	16.5
2,166.0	8.27	227.96	2,157.7	-103.7	-77.5	0.19	0.10	1.14	-47.3	18.0
2,259.0	8.35	227.87	2,249.7	-112.7	-87.4	0.09	0.09	-0.10	-52.8	18.6
2,353.0	8.18	226.99	2,342.7	-121.8	-97.4	0.23	-0.18	-0.94	-58.4	18.5
2,447.0	8.09	224.44	2,435.8	-131.1	-106.9	0.40	-0.10	-2.71	-64.4	16.7
2,540.0	8.00	222.51	2,527.9	-140.6	-115.9	0.31	-0.10	-2.08	-70.0	15.8
2,633.0	7.56	232.70	2,620.0	-149.0	-125.1	1.55	-0.47	10.96	-76.5	29.0

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)		TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com		MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H		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)
2,727.0	7.03	233.76	2,713.3	-156.2	-134.7	0.58	-0.56	1.13	-73.7	30.2
2,821.0	6.42	233.76	2,806.6	-162.7	-143.5	0.65	-0.65	0.00	-76.6	30.0
2,914.0	6.07	231.74	2,899.1	-168.8	-151.6	0.44	-0.38	-2.17	-79.6	27.3
3,008.0	5.80	230.07	2,992.6	-174.9	-159.1	0.34	-0.29	-1.78	-81.9	25.1
3,101.0	5.63	226.46	3,085.1	-181.1	-166.1	0.43	-0.18	-3.88	-84.5	20.5
3,195.0	5.19	224.27	3,178.7	-187.3	-172.4	0.52	-0.47	-2.33	-86.0	18.3
3,288.0	4.48	242.55	3,271.3	-192.0	-178.5	1.81	-0.76	19.66	-75.8	44.2
3,381.0	3.40	245.20	3,364.1	-194.8	-184.3	1.18	-1.16	2.85	-71.9	46.0
3,475.0	2.70	244.00	3,458.0	-197.0	-188.8	0.75	-0.74	-1.28	-69.8	42.9
3,568.0	2.60	243.40	3,550.9	-198.9	-192.6	0.11	-0.11	-0.65	-66.6	40.6
3,661.0	2.70	241.70	3,643.8	-200.9	-196.4	0.14	0.11	-1.83	-64.1	37.2
3,755.0	2.80	241.70	3,737.7	-203.0	-200.5	0.21	0.21	0.00	-60.5	35.9
3,848.0	1.60	239.50	3,830.6	-204.8	-203.7	1.40	-1.40	-2.37	-57.5	32.6
3,942.0	1.80	178.40	3,924.6	-207.0	-204.8	1.82	0.21	-63.94	-54.1	-28.0
4,035.0	2.20	189.00	4,017.5	-210.2	-205.1	0.58	0.43	10.32	-55.4	-12.8
4,127.0	2.40	237.20	4,109.5	-213.0	-207.0	2.05	0.22	52.39	-41.6	33.3
4,221.0	3.40	254.20	4,203.3	-214.8	-211.3	1.39	1.06	18.09	-27.2	41.6
4,315.0	3.40	246.70	4,297.2	-216.7	-216.5	0.47	0.00	-7.98	-29.9	35.3
4,409.0	3.20	249.10	4,391.0	-218.7	-221.5	0.26	-0.21	2.55	-26.0	34.3
4,502.0	2.50	254.10	4,483.9	-220.2	-225.9	0.80	-0.75	5.38	-19.9	33.7
4,595.0	1.80	257.60	4,576.8	-221.1	-229.3	0.77	-0.75	3.76	-14.0	31.6
4,688.0	0.50	245.40	4,669.8	-221.5	-231.1	1.41	-1.40	-13.12	-14.2	25.8
4,781.0	0.80	100.90	4,762.8	-221.8	-230.8	1.33	0.32	-155.38	-9.2	-23.4
4,875.0	1.10	73.10	4,856.8	-221.7	-229.3	0.58	0.32	-29.57	-6.3	-22.4
4,969.0	2.60	101.90	4,950.7	-221.9	-226.4	1.83	1.60	30.64	-24.5	-10.1
5,062.0	2.90	131.00	5,043.6	-223.8	-222.5	1.52	0.32	31.29	-32.2	12.1
5,156.0	1.50	159.60	5,137.6	-226.6	-220.3	1.85	-1.49	30.43	-23.3	35.0

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	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)
5,250.0	1.10	164.60	5,231.5	-228.6	-219.6	0.44	-0.43	5.64	-19.0	44.7
5,344.0	0.90	141.60	5,325.5	-230.0	-218.9	0.49	-0.21	-25.43	-37.3	41.0
5,438.0	0.80	132.80	5,419.5	-231.0	-218.0	0.17	-0.11	-9.62	-45.5	43.3
5,531.0	0.90	141.70	5,512.5	-232.1	-217.1	0.18	0.11	9.48	-39.8	57.9
5,624.0	1.00	142.50	5,605.5	-233.3	-216.1	0.11	0.11	0.86	-40.5	66.0
5,718.0	1.00	144.60	5,699.5	-234.8	-215.1	0.03	0.00	1.60	-40.3	71.7
5,812.0	0.30	55.70	5,793.5	-235.1	-214.5	1.10	-0.74	-93.94	-74.6	-38.9
5,905.0	0.80	8.90	5,886.5	-234.3	-214.1	0.68	0.54	-50.32	-23.5	-81.2
5,998.0	0.50	10.30	5,979.5	-233.3	-214.0	0.32	-0.32	1.51	-26.5	-80.6
6,091.0	0.60	6.10	6,072.5	-232.4	-213.9	0.12	0.11	-4.52	-21.5	-82.3
6,185.0	0.70	5.60	6,166.5	-231.4	-213.7	0.11	0.11	-0.21	-22.2	-82.4
6,278.0	0.60	358.90	6,259.5	-230.3	-213.7	0.15	-0.11	-9.68	-10.1	-85.0
6,372.0	0.40	354.70	6,353.5	-229.5	-213.8	0.21	-0.21	-2.34	-7.7	-85.3
6,466.0	0.40	346.80	6,447.4	-228.8	-213.9	0.06	0.00	-8.40	3.5	-85.6
6,560.0	0.30	344.60	6,541.4	-228.3	-214.0	0.11	-0.11	-2.34	6.2	-85.4
6,653.0	0.40	333.20	6,634.4	-227.8	-214.2	0.13	0.11	-12.26	22.4	-82.6
6,745.0	0.30	323.30	6,726.4	-227.3	-214.5	0.13	-0.11	-10.76	35.7	-77.5
6,839.0	0.40	314.10	6,820.4	-226.9	-214.9	0.12	0.11	-9.79	47.1	-70.9
6,932.0	0.40	307.10	6,913.4	-226.4	-215.4	0.05	0.00	-7.53	54.7	-64.6
7,026.0	0.40	305.70	7,007.4	-226.0	-215.9	0.01	0.00	-1.49	55.6	-63.3
7,119.0	0.40	308.60	7,100.4	-225.7	-216.4	0.02	0.00	3.12	51.7	-66.0
7,213.0	0.40	304.10	7,194.4	-225.3	-217.0	0.03	0.00	-4.79	56.0	-61.8
7,306.0	0.40	302.00	7,287.4	-224.9	-217.5	0.02	0.00	-2.26	57.6	-59.7
7,400.0	0.30	309.90	7,381.4	-224.6	-218.0	0.12	-0.11	8.40	48.3	-67.0
7,493.0	0.30	286.80	7,474.4	-224.4	-218.4	0.13	0.00	-24.84	70.2	-42.8
7,587.0	0.30	284.60	7,568.4	-224.2	-218.9	0.01	0.00	-2.34	71.3	-40.1
7,681.0	0.40	248.70	7,662.4	-224.3	-219.4	0.25	0.11	-38.19	60.8	9.2

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	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)
7,775.0	0.70	239.60	7,756.4	-224.7	-220.2	0.33	0.32	-9.47	77.5	21.6
7,868.0	1.00	227.90	7,849.4	-225.5	-221.3	0.37	0.32	-12.80	70.0	37.0
7,960.0	1.10	228.50	7,941.4	-226.8	-222.6	0.11	0.11	0.65	68.7	36.2
8,054.0	1.10	211.30	8,035.4	-228.0	-223.7	0.35	0.00	-18.30	53.1	54.7
8,147.0	1.30	207.20	8,128.4	-229.7	-224.6	0.23	0.22	-4.41	47.1	58.3
8,240.0	1.50	187.50	8,221.3	-231.8	-225.3	0.56	0.22	-21.18	22.5	70.4
8,333.0	1.50	189.00	8,314.3	-234.3	-225.6	0.04	0.00	1.61	21.9	69.8
8,427.0	1.80	178.10	8,408.3	-237.0	-225.8	0.48	0.32	-11.60	5.6	72.4
8,520.0	1.90	171.00	8,501.2	-239.9	-225.5	0.27	0.11	-7.63	-6.3	72.4
8,613.0	2.00	167.80	8,594.2	-243.0	-224.9	0.16	0.11	-3.44	-13.5	71.9
8,707.0	1.90	170.80	8,688.1	-246.2	-224.3	0.15	-0.11	3.19	-12.8	72.8
8,800.0	1.90	171.40	8,781.1	-249.2	-223.8	0.02	0.00	0.65	-15.3	72.7
8,894.0	2.00	170.70	8,875.0	-252.4	-223.3	0.11	0.11	-0.74	-19.3	72.5
8,987.0	2.00	175.30	8,967.9	-255.8	-222.9	0.17	0.00	4.95	-16.7	73.9
9,080.0	1.80	180.20	9,060.9	-258.7	-222.8	0.28	-0.22	5.27	-13.4	75.2
9,174.0	1.70	185.80	9,154.8	-261.5	-223.0	0.21	-0.11	5.96	-8.9	76.3
9,267.0	1.50	190.40	9,247.8	-264.1	-223.3	0.26	-0.22	4.95	-5.3	76.9
9,361.0	1.40	194.60	9,341.8	-266.4	-223.8	0.16	-0.11	4.47	-2.1	77.2
9,454.0	1.00	291.10	9,434.8	-267.2	-224.9	1.95	-0.43	103.76	78.2	-5.6
9,547.0	1.10	307.60	9,527.8	-266.4	-226.3	0.34	0.11	17.74	69.8	-26.8
9,641.0	1.00	298.40	9,621.7	-265.5	-227.8	0.21	-0.11	-9.79	71.5	-15.4
9,735.0	1.10	327.60	9,715.7	-264.3	-228.0	0.57	0.11	31.06	53.3	-47.9
9,829.0	1.20	321.00	9,809.7	-262.8	-230.1	0.18	0.11	-7.02	56.6	-41.6
9,923.0	2.10	339.70	9,903.7	-260.4	-231.3	1.10	0.96	19.89	37.6	-57.2
10,016.0	2.00	342.70	9,996.6	-257.3	-232.4	0.16	-0.11	3.23	31.2	-59.0
10,110.0	2.40	351.40	10,090.5	-253.8	-233.2	0.55	0.43	9.26	18.3	-62.8
10,204.0	2.50	334.70	10,184.4	-250.0	-234.3	0.76	0.11	-17.77	31.7	-55.5

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
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Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	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)
10,298.0	2.00	324.00	10,278.4	-246.8	-236.2	0.69	-0.53	-11.38	37.8	-49.0
10,392.0	1.90	309.20	10,372.3	-244.5	-238.3	0.54	-0.11	-15.74	45.9	-38.1
10,486.0	1.70	288.30	10,466.3	-243.0	-240.9	0.73	-0.21	-22.23	53.6	-19.8
10,579.0	1.90	279.90	10,559.2	-242.3	-243.7	0.36	0.22	-9.03	53.0	-12.0
10,673.0	1.30	289.70	10,653.2	-241.7	-246.2	0.70	-0.64	10.43	47.6	-20.5
10,766.0	1.80	280.40	10,746.2	-241.1	-248.7	0.60	0.54	-10.00	47.8	-12.8
10,860.0	1.90	283.20	10,840.1	-240.5	-251.6	0.14	0.11	2.98	44.1	-15.0
10,953.0	1.10	288.80	10,933.1	-239.9	-254.0	0.87	-0.86	3.87	40.6	-17.6
11,047.0	0.90	289.60	11,027.1	-239.4	-255.6	0.22	-0.21	2.98	38.1	-19.6
11,140.0	1.30	294.40	11,120.0	-238.7	-257.2	0.44	0.43	5.16	34.5	-22.6
11,234.0	1.30	278.60	11,214.0	-238.1	-259.2	0.43	0.00	-16.84	37.7	-11.3
11,327.0	1.70	287.50	11,307.0	-237.6	-261.6	0.53	0.43	11.72	32.5	-16.0
11,421.0	2.00	334.80	11,400.9	-235.7	-263.6	1.61	0.32	50.32	6.2	-35.1
11,515.0	3.60	324.80	11,494.8	-231.8	-266.0	1.77	1.70	-10.64	7.6	-33.8
11,609.0	3.80	321.20	11,588.6	-226.9	-269.7	0.33	0.21	-3.83	3.7	-33.4
11,702.0	4.00	316.00	11,681.4	-222.2	-273.9	0.44	0.22	-5.59	0.4	-33.2
11,796.0	2.90	324.10	11,775.3	-217.9	-277.5	1.28	-1.17	8.62	-9.9	-32.5
11,889.0	2.50	310.20	11,868.1	-214.7	-280.5	0.81	-0.43	-14.78	-8.2	-34.5
11,983.0	2.20	304.60	11,962.1	-212.3	-283.5	0.40	-0.32	-5.81	-6.7	-35.1
12,114.0	2.50	278.10	12,093.0	-210.5	-288.4	0.88	0.23	-20.38	4.6	-35.5
12,207.0	2.70	277.20	12,185.9	-209.9	-292.6	0.22	0.22	-0.97	1.0	-35.5
12,301.0	2.10	286.90	12,279.8	-209.2	-296.4	0.77	-0.64	10.32	-8.9	-34.7
12,393.0	11.80	348.50	12,371.1	-199.4	-299.9	11.91	10.54	66.96	-34.7	-5.0
12,487.0	20.20	354.00	12,461.3	-173.8	-303.5	9.07	8.94	5.85	-30.8	2.2
12,580.0	26.30	356.20	12,546.8	-137.3	-306.8	6.62	6.56	2.37	-19.0	6.8
12,673.0	28.00	358.50	12,629.5	-94.9	-308.5	2.15	1.83	2.47	4.6	9.4
12,767.0	45.10	6.20	12,704.8	-39.3	-305.5	18.80	18.19	8.19	31.3	3.8

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Well:	#706H	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)
12,814.0	62.50	9.50	12,732.4	-1.9	-300.2	37.44	37.02	7.02	36.4	-2.9
12,839.0	70.60	6.60	12,742.4	20.8	-297.0	33.77	32.40	-10.40	35.4	-5.3
12,861.0	77.80	5.10	12,748.4	41.8	-294.7	33.66	32.73	-6.18	32.6	-7.1
12,954.0	89.60	3.10	12,758.5	133.9	-288.2	12.87	12.69	-2.15	15.8	-13.5
13,048.0	90.80	0.10	12,758.2	227.8	-285.5	3.44	1.28	-3.19	5.8	-16.7
13,142.0	91.90	359.30	12,756.0	321.8	-286.0	1.45	1.17	-0.85	3.2	-17.0
13,236.0	90.30	358.60	12,754.2	415.8	-287.8	1.86	-1.70	-0.74	1.1	-16.1
13,330.0	90.10	357.90	12,753.9	509.7	-290.6	0.77	-0.21	-0.74	0.5	-14.1
13,424.0	92.10	358.70	12,752.1	603.7	-293.4	2.29	2.13	0.85	-1.6	-12.1
13,518.0	89.80	357.80	12,750.5	697.6	-296.3	2.63	-2.45	-0.96	-3.5	-10.1
13,611.0	89.80	357.90	12,750.8	790.5	-299.8	0.11	0.00	0.11	-3.5	-7.5
13,704.0	90.10	358.80	12,750.9	883.5	-302.5	1.02	0.32	0.97	-3.7	-5.6
13,798.0	90.70	358.70	12,750.3	977.5	-304.5	0.65	0.64	-0.11	-4.7	-4.4
13,891.0	90.70	358.20	12,749.1	1,070.4	-307.0	0.54	0.00	-0.54	-6.2	-2.7
13,985.0	91.80	358.90	12,747.1	1,164.4	-309.4	1.39	1.17	0.74	-8.5	-1.2
14,079.0	90.20	358.90	12,745.4	1,258.3	-311.2	1.70	-1.70	0.00	-10.5	-0.2
14,174.0	90.00	0.60	12,745.3	1,353.3	-311.6	1.80	-0.21	1.79	-11.0	-0.6
14,267.0	91.40	1.40	12,744.1	1,446.3	-310.0	1.73	1.51	0.86	-12.4	-3.1
14,361.0	88.80	359.90	12,744.0	1,540.3	-308.9	3.19	-2.77	-1.60	-12.9	-5.0
14,454.0	88.00	359.60	12,746.6	1,633.2	-309.4	0.95	-0.86	-0.43	-10.6	-5.3
14,547.0	89.50	359.40	12,749.4	1,726.2	-310.3	0.55	0.54	-0.11	-8.1	-5.3
14,641.0	88.30	358.70	12,752.0	1,820.2	-311.9	0.77	-0.21	-0.74	-5.8	-4.5
14,734.0	88.50	357.90	12,754.6	1,913.1	-314.6	0.89	0.22	-0.86	-3.5	-2.6
14,827.0	90.20	357.20	12,755.7	2,006.0	-318.6	1.98	1.83	-0.75	-2.7	0.5
14,920.0	91.50	356.00	12,754.3	2,098.8	-324.1	1.90	1.40	-1.29	-4.4	5.2
15,014.0	90.80	359.10	12,752.4	2,192.7	-328.1	3.38	-0.74	3.30	-6.6	8.4
15,108.0	91.20	359.90	12,750.8	2,286.7	-329.0	0.95	0.43	0.85	-8.6	8.4

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Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	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)
15,201.0	91.10	359.50	12,748.9	2,379.6	-329.1	0.11	-0.11	0.00	-10.8	7.7
15,294.0	89.70	0.10	12,748.3	2,472.6	-329.1	1.52	-1.51	0.22	-11.7	6.9
15,388.0	88.70	0.10	12,749.6	2,566.6	-328.9	1.06	-1.06	0.00	-10.9	5.9
15,482.0	88.40	359.10	12,751.9	2,660.6	-329.6	1.11	-0.32	-1.06	-8.9	5.7
15,575.0	89.50	0.60	12,753.7	2,753.6	-329.8	2.00	1.18	1.61	-7.7	5.1
15,668.0	90.00	0.40	12,754.1	2,846.6	-329.0	0.58	0.54	-0.22	-7.7	3.5
15,762.0	91.60	0.50	12,752.7	2,940.6	-328.3	1.71	1.70	0.11	-9.5	1.9
15,855.0	92.60	0.60	12,749.3	3,033.5	-327.2	1.12	1.08	0.32	-13.3	0.0
15,949.0	92.90	1.10	12,744.8	3,127.4	-325.7	0.45	0.32	0.32	-18.3	-2.4
16,043.0	90.50	1.00	12,742.0	3,221.3	-324.0	2.45	-2.45	-0.11	-21.6	-4.9
16,137.0	89.20	0.60	12,742.1	3,315.3	-322.7	1.55	-1.49	-0.43	-21.9	-7.1
16,231.0	88.40	0.30	12,744.1	3,409.3	-321.9	0.91	-0.85	-0.32	-20.4	-8.7
16,324.0	90.20	0.70	12,745.2	3,502.2	-321.1	1.99	1.94	0.43	-19.7	-10.3
16,418.0	91.80	1.30	12,743.8	3,596.2	-319.5	1.82	1.70	0.64	-21.8	-12.8
16,512.0	88.70	0.50	12,743.2	3,690.2	-317.7	3.33	-3.30	-0.43	-22.7	-15.4
16,605.0	90.70	1.40	12,743.7	3,783.2	-315.8	2.22	2.15	0.54	-22.6	-18.1
16,698.0	90.00	359.30	12,743.1	3,876.2	-315.2	2.38	-0.75	-2.26	-23.7	-19.5
16,791.0	88.70	358.00	12,744.1	3,969.1	-317.4	1.98	-1.40	-1.40	-23.1	-18.2
16,884.0	91.40	357.40	12,744.1	4,062.0	-321.1	2.97	2.90	-0.65	-23.6	-15.2
16,978.0	88.50	357.40	12,744.1	4,155.9	-325.4	2.98	-2.98	0.00	-24.0	-11.8
17,071.0	94.50	357.20	12,741.6	4,248.7	-329.8	6.35	6.34	-0.22	-27.0	-8.3
17,165.0	94.10	358.50	12,734.5	4,342.4	-333.3	1.44	-0.43	1.38	-34.5	-5.8
17,259.0	91.70	358.80	12,729.8	4,436.3	-335.5	2.57	-2.55	0.32	-39.7	-4.2
17,352.0	90.60	0.30	12,727.9	4,529.2	-336.2	2.00	-1.18	1.61	-42.0	-4.3
17,446.0	87.80	1.60	12,729.2	4,623.2	-335.2	3.07	-2.98	0.74	-41.4	-6.2
17,540.0	88.40	2.60	12,732.3	4,717.1	-332.7	1.24	0.64	1.06	-39.1	-9.5
17,634.0	89.00	2.70	12,734.4	4,811.0	-329.8	0.98	0.64	0.74	-37.8	-14.2

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	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)
17,728.0	89.60	359.30	12,735.6	4,905.0	-327.2	3.67	0.64	-3.62	-37.4	-16.7
17,821.0	90.10	359.50	12,735.8	4,998.0	-328.2	0.58	0.54	0.22	-38.0	-16.5
17,914.0	89.00	359.30	12,736.6	5,091.0	-329.2	1.20	-1.18	-0.22	-38.1	-16.4
18,008.0	89.80	0.00	12,737.6	5,185.0	-329.8	1.13	0.85	0.74	-37.9	-16.7
18,102.0	89.70	359.70	12,738.0	5,279.0	-330.0	0.34	-0.11	-0.32	-38.3	-17.3
18,196.0	91.00	0.70	12,737.4	5,373.0	-329.7	1.74	1.38	1.06	-39.6	-18.4
18,289.0	90.00	0.20	12,736.6	5,465.9	-328.9	1.20	-1.08	-0.54	-41.3	-20.0
18,383.0	88.80	0.30	12,737.6	5,559.8	-328.5	1.28	-1.28	0.11	-41.1	-21.2
18,476.0	90.70	1.10	12,738.0	5,652.8	-327.4	2.22	2.04	0.86	-41.5	-23.2
18,570.0	90.60	2.10	12,736.9	5,746.8	-324.8	1.07	-0.11	1.06	-43.2	-26.6
18,664.0	89.50	0.10	12,736.8	5,840.8	-323.0	2.43	-1.17	-2.13	-43.5	-28.3
18,757.0	90.20	0.20	12,737.1	5,933.8	-322.7	0.76	0.75	0.11	-43.5	-30.4
18,851.0	89.90	358.60	12,737.0	6,027.8	-323.5	1.52	-0.32	-1.49	-43.8	-30.4
18,945.0	93.20	359.30	12,734.4	6,121.8	-325.1	3.55	3.51	0.53	-46.5	-28.7
19,038.0	90.20	357.40	12,731.7	6,214.7	-327.8	3.82	-3.23	-2.04	-49.6	-27.8
19,131.0	87.80	358.30	12,733.3	6,307.6	-331.3	2.76	-2.58	0.97	-48.1	-25.2
19,225.0	92.40	359.70	12,733.1	6,401.6	-332.9	5.12	4.89	1.49	-48.5	-24.4
19,318.0	89.80	359.50	12,731.4	6,494.5	-333.6	2.80	-2.80	-0.22	-50.5	-24.5
19,412.0	88.30	358.10	12,732.9	6,588.5	-335.5	2.18	-1.60	-1.49	-49.2	-23.4
19,505.0	92.90	359.60	12,731.9	6,681.5	-337.4	5.20	4.95	1.61	-50.4	-22.4
19,599.0	88.80	359.70	12,732.2	6,775.4	-338.0	6.49	-6.49	0.11	-50.4	-22.7
19,692.0	90.20	0.30	12,734.6	6,868.4	-338.0	3.71	3.68	0.65	-48.2	-23.5
19,788.0	91.60	358.40	12,733.1	6,962.3	-339.0	2.51	1.49	-2.02	-49.8	-23.2
19,878.0	90.70	359.30	12,731.3	7,055.3	-340.9	1.37	-0.97	0.97	-51.9	-22.2
19,972.0	92.60	1.10	12,728.6	7,148.2	-340.6	2.81	2.04	1.94	-54.8	-23.4
20,066.0	92.50	1.10	12,724.4	7,242.1	-338.8	0.11	-0.11	0.00	-59.2	-26.0
20,149.0	91.40	359.80	12,721.6	7,325.1	-338.1	2.09	-1.33	-1.57	-62.3	-27.4

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	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)
20,206.0	91.40	359.80	12,720.2	7,382.1	-338.3	0.00	0.00	0.00	-63.8	-27.7

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
12,307.0	12,285.8	-209.1	-296.8	KOP, MD:12307.0', TVD:12285.8',N/S:-209.1', E/W:-296.8', INC:2.43
12,425.9	12,403.1	-192.0	-301.2	FTP Crossing, MD:12425.9', TVD:12403.1',N/S:-192.0', E/W:-301.2', INC:14.72
20,149.0	12,721.6	7,325.1	-338.1	Last MWD Survey (MD=20149.0')
20,206.0	12,720.2	7,382.1	-338.3	Projection to Bit (MD=20206.0')

Checked By: _____ Approved By: _____ Date: _____

eog resources

Lea County, NM (NAD 83 NME)

Philly 31 Fed Com #706H

Plan #2

Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.44°

Magnetic Field
Strength: 47784.4nT
Dip Angle: 59.89°
Date: 8/19/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.44°
To convert a Magnetic Direction to a True Direction, Add 6.23° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

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: #706H

3352.0
KB = 25' @ 3377.0usft

Northing	Easting	Latitude	Longitude
343103.00	787753.00	32° 0' 3.833 N	103° 30' 22.158 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	953.0	0.90	107.80	952.9	-8.3	5.4	0.00	0.00	-8.6	
2	1100.1	0.90	107.80	1100.0	-9.0	7.8	0.00	0.00	-9.4	
3	1376.3	5.00	232.59	1377.9	-17.1	0.0	2.00	132.40	-17.1	
4	5558.6	5.00	232.59	5540.2	-238.4	-259.3	0.00	0.00	-223.8	
5	5806.6	0.00	0.00	5790.0	-245.0	-268.0	2.00	180.00	-229.9	
6	12291.6	0.00	0.00	12275.0	-245.0	-268.0	0.00	0.00	-229.9	
7	13040.0	89.81	359.49	12752.5	230.8	-302.2	12.00	359.49	245.5	
8	15288.4	89.81	359.49	12760.0	2477.1	-322.3	0.00	0.00	2490.0	TGT#1(Philly 31 Fed Com #706H)
9	15290.6	89.72	359.49	12760.0	2481.3	-322.3	2.00	180.00	2494.2	
10	17356.1	89.72	359.49	12770.0	4546.7	-340.7	0.00	0.00	4558.0	TGT#2(Philly 31 Fed Com #706H)
11	17358.7	89.51	359.49	12770.1	4537.3	-340.8	2.00	180.00	4568.6	
12	18529.1	89.51	359.49	12780.0	5713.6	-351.2	0.00	0.00	5730.0	TGT#3(Philly 31 Fed Com #706H)
13	18540.8	89.86	359.49	12780.1	5737.3	-351.3	2.00	0.00	5747.6	
14	20191.6	89.86	359.49	12784.0	7382.0	-368.0	0.00	0.00	7391.1	PBHL (Philly 31 Fed Com #706H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Survey Top(Philly 31 Fed Com #706H)	952.0	-245.0	-268.0	342857.00	787485.00
FTP (Philly 31 Fed Com #706H)	12752.0	-13.0	-268.0	343116.00	787485.00
TGT#1(Philly 31 Fed Com #706H)	12760.0	2477.1	-322.3	345585.10	787430.73
TGT#2(Philly 31 Fed Com #706H)	12770.0	4546.7	-340.7	347653.70	787413.28
TGT#3(Philly 31 Fed Com #706H)	12780.0	5713.6	-351.2	348817.60	787401.82
PBHL (Philly 31 Fed Com #706H)	12784.0	7382.0	-368.0	350480.00	787387.00