HOBBS OCD
DEC 13 2019
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NMOCD
Hobbs

Form 3160-4
(August 200

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.
NMNM028881

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.
DILLON 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.
30-025-45981

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface SESE 284FSL 542FEL 32.166664 N Lat, 103.368636 W Lon
Sec 31 T24S R34E Mer NMP
At top prod interval reported below SESE 437FSL 323FEL 32.167082 N Lat, 103.367928 W Lon
Sec 30 T24S R34E Mer NMP
At total depth NESE 2525FSL 316FEL 32.187314 N Lat, 103.367894 W Lon

10. Field and Pool, or Exploratory
WC025G09S243336I;UP WOLCA

11. Sec., T., R., M., or Block and Survey or Area Sec 31 T24S R34E Mer NMP

12. County or Parish
LEA

13. State
NM

14. Date Spudded
06/26/2019

15. Date T.D. Reached
07/22/2019

16. Date Completed
☐ D & A ☒ Ready to Prod.
08/16/2019

17. Elevations (DF, KB, RT, GL)*
3432 GL

18. Total Depth: MD 19804 TVD 12206

19. Plug Back T.D.: MD 19722 TVD 12206

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		1344		715		0	
8.750	7.625 ECP-110	29.7		11743		1443		0	
6.750	5.500 ICYP110	20.0		19776		750		7524	

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
A) WOLFCAMP	12421	19722
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
12421 TO 19722	3.250	1564	OPEN

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

Depth Interval	Amount and Type of Material
12421 TO 19722	18,122,698 LBS PROPPANT; 292,097 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
08/16/2019	08/23/2019	24	→	3157.0	7311.0	10402.0	39.0		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		2109.0	→				2316	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**		
			→						

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

ELECTRONIC SUBMISSION #483920 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

ACCEPTED FOR RECORD
NOV 20 2019
BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

Reclamation due - 02/16/2020

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	1144		BARREN	RUSTLER	1144
T/SALT	1634		BARREN	T/SALT	1634
B/SALT	5006		OIL & GAS	B/SALT	5006
BRUSHY CANYON	7880		OIL & GAS	BRUSHY CANYON	7880
1ST BONE SPRING SAND	10239		OIL & GAS	1ST BONE SPRING SAND	10239
2ND BONE SPRING SAND	10862		OIL & GAS	2ND BONE SPRING SAND	10862
3RD BONE SPRING SAND	11886		OIL & GAS	3RD BONE SPRING SAND	11886
WOLFCAMP	12271		OIL & GAS	WOLFCAMP	12271

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 #483920 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 09/18/2019

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
30-025-45981	98092	WC025 G09 S243336I; UPPER WOLFCAMP

[4]Property Code	[5]Property Name	[6]Well Number
39126	DILLON 31 FED COM	#706H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3432'

[10]Surface Location

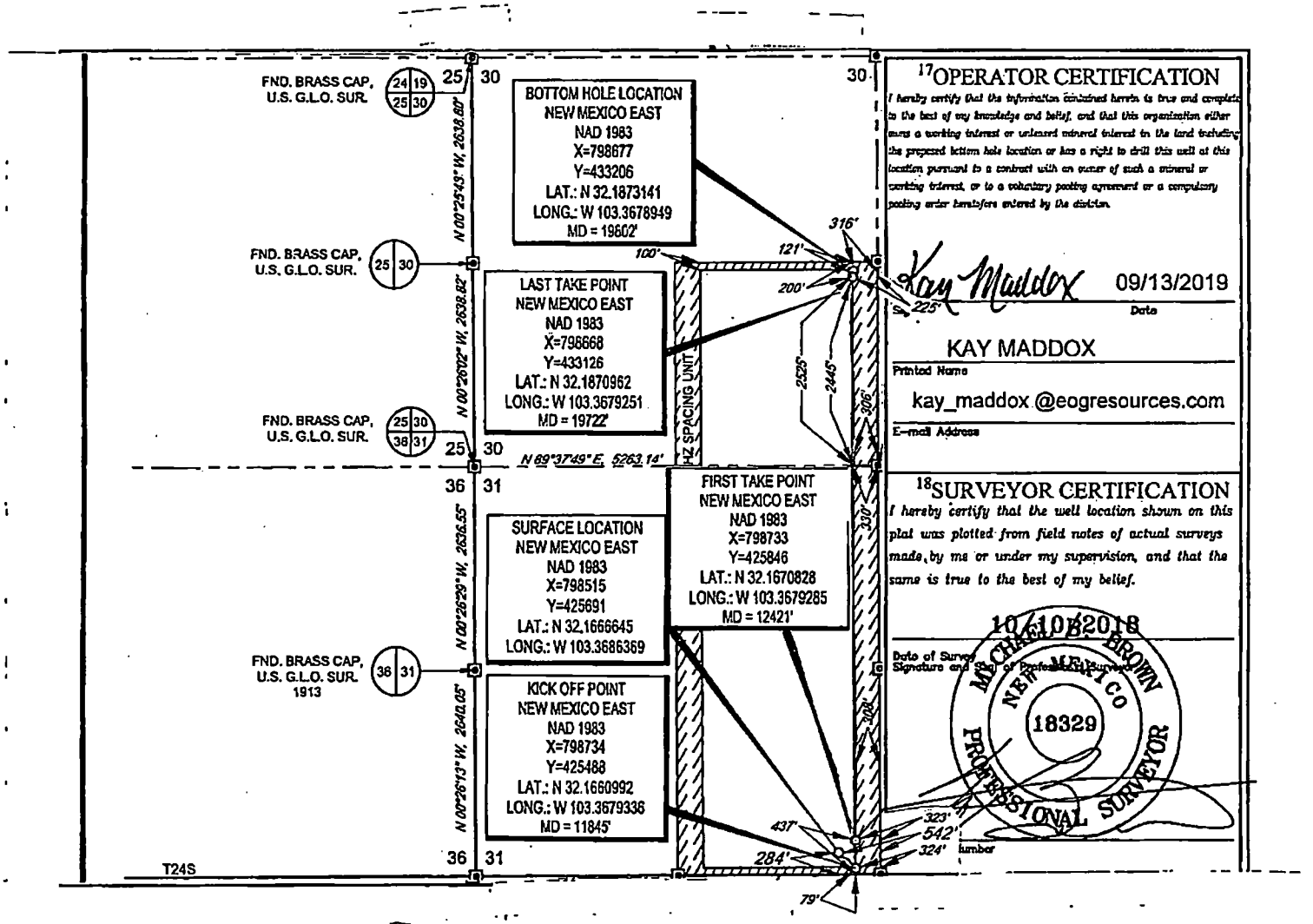
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	24-S	34-E	–	284'	SOUTH	542'	EAST	LEA

[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
I	30	24-S	34-E	–	2525'	SOUTH	316'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
480.00			

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 09/13/2019
Signature Date

KAY MADDOX
Printed Name

kay_maddox @eogresources.com
E-mail Address

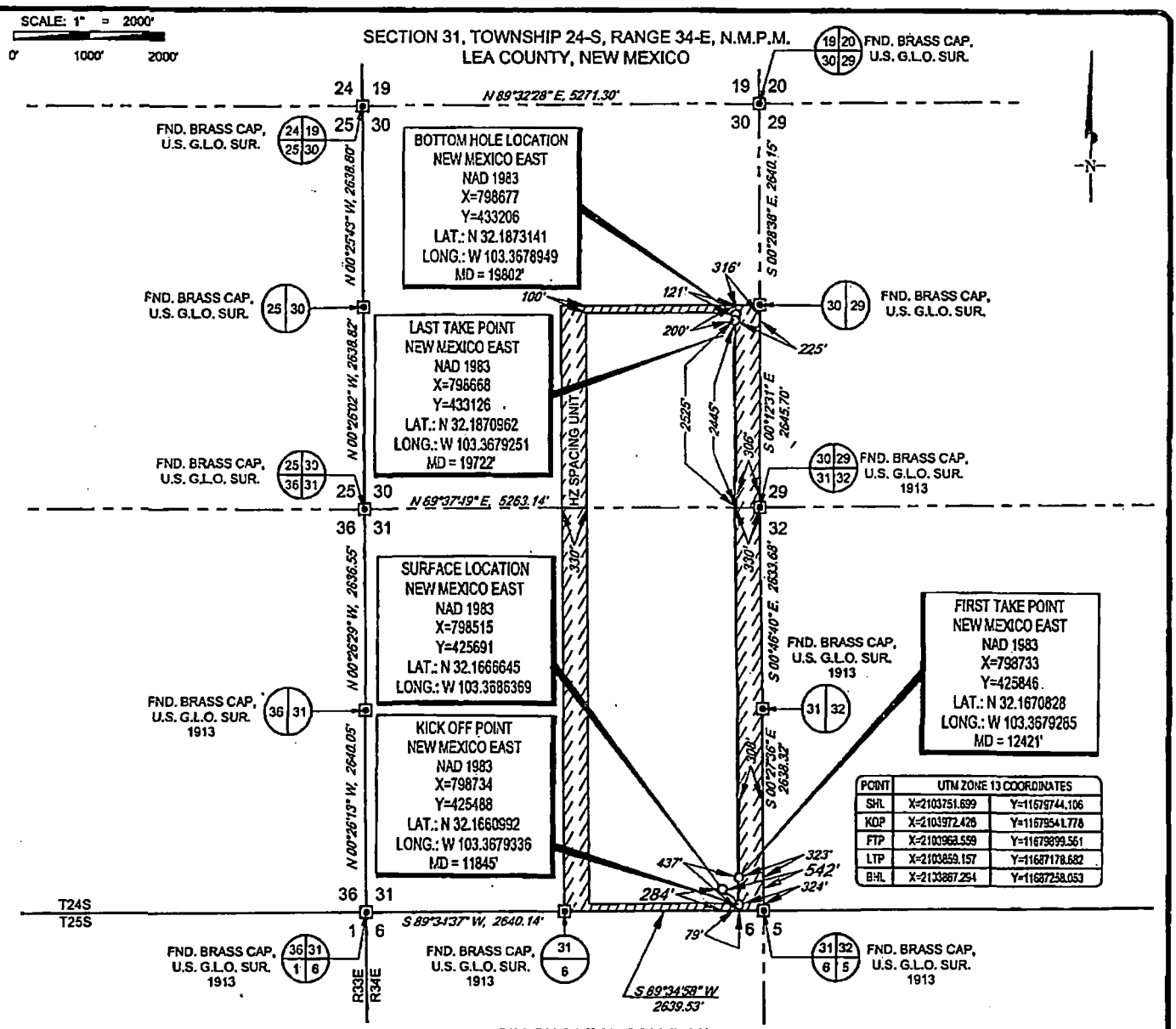
[18]SURVEYOR CERTIFICATION

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.

10/10/2018
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2103751.699	Y=11679744.106
KOP	X=2103972.426	Y=11679541.778
FTP	X=2103968.559	Y=11679899.561
LTP	X=2103859.157	Y=11687178.682
BHL	X=2103867.254	Y=11687258.053

LEASE NAME & WELL NO.: DILLON 31 FED COM #706H

SECTION 31 TWP 24-S RGE 34-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3432'

DESCRIPTION 284' FSL & 542' FEL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

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

AUGUST 19, 2019

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 148 • 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.

DILLON 31
FED COM #706H
AS-COMPLETED

DATE: 08/19/2019

FILE: AD_DILLON_31_FED_COM_706H

DRAWN BY: A.V.F.

SHEET: 1 OF 1

REVISION:	

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, 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:\SURVEY\EOG_MIDLAND\DILLON_31_FED_COM\FINAL_PRODUCTS\AD_DILLON_31_FED_COM_706H.DWG 8/28/2019 11:19:34 A.M eochoa

EOG Resources - Midland

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

Design: OH

Midland PVA

22 July, 2019

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3457.0usft
Site:	Dilon 31 Fed Com	MD Reference:	KB = 25' @ 3457.0usft
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 Dilon 31 Fed Com

Site Position:		Northing:	425,686.00 usft	Latitude:	32° 10' 3.262 N
From:	Map	Easting:	797,851.00 usft	Longitude:	103° 30' 15.624 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.44 °

Well #706H

Well Position	+N/-S	0.0 usft	Northing:	425,691.00 usft	Latitude:	32° 10' 3.261 N
	+E/-W	0.0 usft	Easting:	798,515.00 usft	Longitude:	103° 30' 7.899 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,432.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/14/2018	6.78	60.00	47,768.75989278

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	1.13

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well 6706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3457.0usft
Site:	Dillon 31 Fed Com	MD Reference:	KB = 25' @ 3457.0usft
Well:	6706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program — Date 7/22/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
125.0	1,296.0	Intrepid MWD (OH)	MWD	OWSG MWD - Standard
1,415.0	19,804.0	HTMWD (OH)	MWD	OWSG MWD - Standard

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
125.0	1.70	95.00	125.0	-0.2	1.8	1.36	1.36	0.00	-1.9	0.0
302.0	4.40	23.70	301.8	5.8	7.2	2.36	1.53	-40.28	-8.2	-4.3
477.0	2.90	53.30	476.4	14.6	13.4	1.35	-0.86	16.91	-19.5	3.7
662.0	1.50	131.80	661.3	15.8	19.0	1.61	-0.76	42.43	-3.6	24.4
849.0	3.70	135.00	848.1	9.9	25.1	1.18	1.18	1.71	-10.7	24.8
1,037.0	3.90	188.30	1,035.7	-0.7	28.5	1.81	0.11	28.35	3.4	28.3
1,224.0	2.70	214.40	1,222.4	-10.6	25.1	1.01	-0.64	13.96	5.4	26.7
1,296.0	2.80	209.90	1,294.4	-13.6	23.2	0.39	0.14	-7.64	-0.7	26.9
1,415.0	3.03	217.86	1,413.2	-18.6	19.9	0.43	0.19	7.61	-2.4	27.1
1,603.0	1.45	145.01	1,601.1	-24.5	18.2	1.57	-0.84	-38.80	-30.5	0.9
1,790.0	1.58	173.49	1,788.0	-28.0	19.9	0.40	0.07	15.23	-31.0	16.5
1,976.0	1.41	167.07	1,974.0	-33.7	20.7	0.13	-0.09	-3.45	-37.5	12.6
2,162.0	0.92	173.05	2,159.9	-37.5	21.4	0.27	-0.26	3.22	-39.8	16.7
2,349.0	1.14	163.12	2,346.9	-40.7	22.1	0.15	0.12	-5.31	-45.4	9.3
2,535.0	1.36	120.58	2,532.8	-43.6	24.5	0.50	0.12	-22.87	-43.1	-25.0
2,723.0	5.71	115.39	2,720.4	-46.8	34.9	2.32	2.31	-2.76	-44.5	-25.8
2,910.0	6.77	111.35	2,906.3	-56.8	53.6	0.61	0.57	-2.16	-48.2	-21.3
3,097.0	7.21	109.42	3,091.9	-64.7	74.9	0.27	0.24	-1.03	-51.0	-14.0
3,286.0	7.21	123.21	3,279.5	-75.1	96.0	0.91	0.00	7.30	-57.1	6.1
3,472.0	6.83	121.11	3,463.7	-88.6	117.6	0.23	-0.21	-1.13	-64.1	9.1

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3457.0usft
Site:	Dillon 31 Fed Com	MD Reference:	KB = 25' @ 3457.0usft
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)
3,659.0	5.54	126.20	3,649.3	-101.1	136.7	1.83	-1.60	2.72	-68.8	19.7
3,847.0	5.23	151.34	3,836.5	-114.0	148.2	1.23	-0.18	13.37	-49.9	45.3
4,035.0	5.58	148.09	4,023.6	-129.3	157.1	0.25	0.19	-1.73	-50.8	38.3
4,222.0	6.42	138.51	4,209.6	-144.9	168.9	0.70	0.45	-5.12	-56.3	27.5
4,410.0	6.59	141.14	4,396.4	-161.1	182.6	0.18	0.09	1.40	-56.7	29.2
4,597.0	7.52	137.45	4,582.0	-178.5	197.6	0.55	0.50	-1.97	-61.9	24.8
4,785.0	4.70	135.43	4,768.9	-193.1	211.3	1.50	-1.50	-1.07	-63.1	22.9
4,972.0	4.09	132.09	4,855.4	-203.0	221.6	0.35	-0.33	-1.79	-59.2	20.8
5,160.0	1.80	123.57	5,143.1	-209.1	229.1	1.24	-1.22	-4.53	-52.0	15.4
5,346.0	1.14	120.84	5,329.0	-211.7	233.1	0.36	-0.35	-1.47	-38.8	18.3
5,533.0	1.19	104.23	5,516.0	-213.1	236.6	0.18	0.03	-8.89	-29.8	16.5
5,720.0	1.01	86.39	5,703.0	-213.5	240.1	0.21	-0.10	-9.54	-29.2	15.5
5,906.0	0.84	84.81	5,888.9	-213.3	243.1	0.09	-0.09	-0.85	-31.7	18.0
6,093.0	1.01	66.35	6,075.9	-212.5	246.0	0.16	0.09	-9.87	-38.0	4.7
6,279.0	1.10	50.70	6,261.9	-210.7	248.9	0.16	0.05	-8.41	-41.3	-6.2
6,466.0	1.27	49.83	6,448.8	-208.2	251.8	0.09	0.09	-0.47	-45.0	-6.9
6,652.0	1.23	46.13	6,634.8	-205.5	254.8	0.05	-0.02	-1.99	-48.5	-9.9
6,745.0	1.10	51.23	6,727.8	-204.2	256.3	0.18	-0.14	5.48	-51.1	-5.4
6,932.0	1.45	120.05	6,914.7	-204.3	259.7	0.79	0.19	36.80	-26.8	47.4
7,118.0	1.23	120.40	7,100.7	-206.5	263.5	0.12	-0.12	0.19	-30.6	47.5
7,305.0	0.97	115.57	7,287.7	-208.2	266.6	0.15	-0.14	-2.58	-36.1	44.6
7,492.0	0.92	293.81	7,474.7	-208.3	266.7	1.01	-0.03	95.32	39.5	-43.4
7,680.0	1.36	294.25	7,662.6	-206.7	263.3	0.23	0.23	0.23	35.5	-43.7
7,867.0	0.88	294.34	7,849.6	-205.2	259.9	0.26	-0.26	0.05	31.7	-43.7
8,054.0	0.79	222.09	8,036.6	-205.8	257.8	0.53	-0.05	-38.64	49.6	15.5
8,242.0	0.66	187.84	8,224.5	-207.6	256.8	0.24	-0.07	-18.32	30.0	40.1
8,429.0	0.75	188.08	8,411.5	-209.9	256.4	0.05	0.05	0.24	28.0	39.9

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)		TVD Reference:	KB = 25' @ 3457.0usft
Site:	Dillon 31 Fed Com		MD Reference:	KB = 25' @ 3457.0usft
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)	NS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
8,616.0	0.53	159.25	8,598.5	-211.9	256.6	0.20	-0.12	-15.42	3.3	47.9
8,804.0	0.84	187.02	8,786.5	-214.1	256.7	0.24	0.16	14.77	23.1	41.2
8,992.0	1.05	177.62	8,974.5	-217.2	256.6	0.14	0.11	-5.00	13.0	44.2
9,179.0	0.97	193.88	9,161.5	-220.5	256.3	0.16	-0.04	8.70	21.6	39.3
9,365.0	0.97	196.16	9,347.4	-223.5	255.5	0.02	0.00	1.23	20.0	38.4
9,553.0	1.01	193.88	9,535.4	-226.6	254.7	0.03	0.02	-1.21	15.2	39.1
9,739.0	0.40	210.14	9,721.4	-228.8	253.9	0.34	-0.33	8.74	23.3	33.8
9,928.0	0.53	289.86	9,910.4	-229.1	252.8	0.32	0.07	42.18	36.4	-16.3
10,114.0	1.41	344.70	10,096.4	-226.6	251.4	0.84	0.47	29.48	4.9	-38.4
10,302.0	1.58	332.48	10,284.3	-222.0	249.8	0.19	0.09	-6.50	8.0	-37.0
10,489.0	0.92	308.47	10,471.2	-218.9	247.2	0.46	-0.35	-13.91	19.7	-30.9
10,677.0	1.32	318.42	10,659.2	-216.3	244.5	0.25	0.21	6.36	9.2	-34.0
10,863.0	1.58	310.77	10,845.2	-213.1	241.1	0.17	0.14	-4.11	8.9	-32.7
11,050.0	0.82	330.20	11,032.1	-210.1	238.4	0.41	-0.35	10.39	-6.4	-33.0
11,237.0	0.97	335.29	11,219.1	-207.3	237.0	0.05	0.03	2.72	-12.4	-32.1
11,424.0	0.97	314.48	11,406.1	-204.8	235.2	0.19	0.00	-11.14	-3.2	-35.0
11,611.0	2.77	275.62	11,593.0	-203.2	229.6	1.13	0.96	-20.77	13.7	-30.3
11,699.0	2.33	261.82	11,680.9	-203.3	225.7	0.85	-0.50	-15.68	16.7	-26.6
11,790.0	2.55	263.75	11,771.8	-203.8	221.9	0.26	0.24	2.12	11.9	-27.1
11,835.0	2.42	267.00	11,816.7	-203.9	219.9	0.43	-0.29	7.22	8.4	-27.7
11,929.0	18.15	349.71	11,909.1	-189.5	215.3	19.15	16.73	87.99	-37.4	-9.3
12,023.0	36.79	2.38	11,992.2	-146.6	213.8	20.68	19.83	13.48	-60.3	1.3
12,117.0	44.04	1.13	12,063.7	-85.7	215.6	7.76	7.71	-1.31	-83.2	-1.9
12,211.0	51.43	0.34	12,128.9	-16.2	216.5	7.89	7.86	-0.84	-96.3	-4.4
12,303.0	51.21	0.34	12,184.4	55.6	216.9	0.24	-0.24	0.00	-92.7	-5.8
12,397.0	57.63	0.87	12,239.1	132.0	217.8	6.85	6.83	0.56	-71.9	-7.6
12,490.0	66.55	359.64	12,282.6	214.1	218.1	9.66	9.59	-1.32	-43.4	-9.3

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)		TVD Reference:	KB = 25' @ 3457.0usft
Site:	Dillon 31 Fed Com		MD Reference:	KB = 25' @ 3457.0usft
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)
12,584.0	81.54	0.52	12,308.3	304.3	218.2	15.97	15.95	0.94	-19.6	-9.8
12,678.0	81.85	359.90	12,321.9	397.3	218.6	0.73	0.33	-0.66	-7.3	-10.9
12,771.0	82.95	358.94	12,334.2	489.5	217.6	1.56	1.18	-1.03	3.8	-10.7
12,865.0	90.29	0.08	12,339.8	583.2	216.8	7.93	7.81	1.21	8.1	-10.7
12,959.0	91.87	1.05	12,338.0	677.2	217.8	1.97	1.68	1.03	5.1	-12.4
13,053.0	89.05	2.89	12,337.2	771.1	221.0	3.58	-3.00	1.96	3.0	-18.4
13,145.0	89.14	1.84	12,338.7	863.0	224.8	1.15	0.10	-1.14	3.3	-21.0
13,239.0	91.60	359.29	12,338.1	957.0	225.7	3.77	2.62	-2.71	1.4	-22.7
13,332.0	92.53	359.90	12,334.7	1,049.9	225.1	1.20	1.00	0.66	-3.1	-22.8
13,426.0	92.62	358.41	12,330.5	1,143.8	223.7	1.59	0.10	-1.59	-8.6	-22.2
13,520.0	89.45	358.50	12,328.8	1,237.8	221.1	3.37	-3.37	0.10	-11.5	-20.5
13,613.0	89.58	359.64	12,329.6	1,330.8	219.6	1.23	0.14	1.23	-11.7	-19.7
13,707.0	91.43	1.93	12,328.8	1,424.7	220.9	3.13	1.97	2.44	-11.4	-21.8
13,800.0	87.69	359.90	12,329.5	1,517.7	222.4	4.58	-4.02	-2.18	-8.5	-24.1
13,894.0	88.97	356.48	12,332.2	1,611.6	219.4	3.88	1.36	-3.64	-5.6	-21.9
13,987.0	92.62	358.23	12,330.9	1,704.5	215.2	4.35	3.92	1.88	-5.7	-18.4
14,080.0	88.66	358.94	12,329.8	1,797.4	212.9	4.33	-4.26	0.76	-5.6	-16.9
14,174.0	90.68	359.46	12,330.4	1,891.4	211.5	2.22	2.15	0.55	-3.8	-16.3
14,268.0	92.75	358.94	12,327.6	1,985.3	210.2	2.27	2.20	-0.55	-5.5	-15.8
14,361.0	92.09	0.08	12,323.7	2,078.3	209.4	1.42	-0.71	1.23	-8.2	-15.8
14,455.0	89.80	357.88	12,322.1	2,172.2	207.8	3.38	-2.44	-2.34	-8.8	-14.9
14,549.0	89.41	358.39	12,322.8	2,266.2	204.9	0.86	-0.41	0.76	-6.7	-12.8
14,668.0	88.79	359.64	12,324.6	2,383.1	203.1	1.04	-0.53	0.90	-3.4	-12.0
14,759.0	88.97	1.22	12,326.4	2,476.1	203.8	1.71	0.19	1.70	-0.4	-13.5
14,852.0	91.91	359.73	12,325.7	2,569.1	204.5	3.54	3.16	-1.60	0.1	-15.0
14,946.0	90.55	357.79	12,323.7	2,663.0	202.5	2.52	-1.45	-2.06	-0.7	-13.8
15,040.0	86.29	355.16	12,326.3	2,756.8	198.7	5.33	-4.53	-2.80	3.1	-8.8

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3457.0usft
Site:	Dillon 31 Fed Com	MD Reference:	KB = 25' @ 3457.0usft
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)
15,133.0	90.24	356.65	12,329.1	2,849.5	190.1	4.54	4.25	1.60	7.0	-2.9
15,226.0	90.55	357.27	12,328.5	2,942.4	185.2	0.75	0.33	0.67	8.3	1.2
15,320.0	89.01	358.15	12,328.8	3,036.3	181.4	1.89	-1.64	0.94	10.7	4.2
15,414.0	89.49	358.76	12,330.1	3,130.2	178.9	0.83	0.51	0.65	14.1	8.0
15,508.0	91.52	0.08	12,328.3	3,222.2	177.9	2.63	2.21	1.43	15.3	8.1
15,600.0	90.51	359.99	12,327.6	3,316.2	178.0	1.08	-1.07	-0.10	15.7	5.3
15,694.0	90.86	358.50	12,326.5	3,410.2	176.8	1.63	0.37	-1.59	16.7	5.7
15,788.0	92.75	359.99	12,323.5	3,504.1	175.5	2.56	2.01	1.59	15.8	6.2
15,881.0	92.35	359.73	12,319.4	3,597.0	175.3	0.51	-0.43	-0.28	13.7	5.6
15,974.0	91.30	359.90	12,316.4	3,690.0	175.0	1.14	-1.13	0.18	12.9	5.1
16,068.0	88.00	0.17	12,317.0	3,784.0	175.0	3.52	-3.51	0.28	15.5	4.3
16,161.0	87.60	0.70	12,320.5	3,876.9	175.8	0.71	-0.43	0.57	21.2	2.8
16,254.0	91.65	1.66	12,321.2	3,969.9	177.7	4.48	4.35	1.03	23.8	0.1
16,348.0	93.41	0.96	12,317.0	4,063.7	179.8	2.01	1.87	-0.74	21.8	-2.8
16,441.0	94.33	0.52	12,310.7	4,156.5	181.0	1.10	0.99	-0.47	17.6	-4.8
16,534.0	93.45	359.38	12,304.4	4,249.3	180.9	1.55	-0.95	-1.23	13.3	-5.5
16,627.0	90.33	357.79	12,301.4	4,342.2	178.6	3.76	-3.35	-1.71	12.3	-4.0
16,721.0	90.64	358.41	12,300.6	4,436.2	175.5	0.74	0.33	0.66	13.6	-1.6
16,815.0	91.47	359.38	12,298.8	4,530.1	173.7	1.36	0.88	1.03	14.0	-0.6
16,907.0	89.10	359.20	12,298.4	4,622.1	172.6	2.58	-2.58	-0.20	15.6	-0.2
17,000.0	89.71	1.31	12,299.3	4,715.1	173.0	2.36	0.66	2.27	19.1	-1.4
17,093.0	91.34	3.07	12,298.5	4,808.0	176.5	2.58	1.75	1.89	21.4	-5.7
17,187.0	92.31	0.52	12,295.5	4,901.9	179.5	2.80	1.03	-2.71	21.6	-9.5
17,281.0	93.58	0.17	12,290.7	4,995.8	180.0	1.40	1.35	-0.37	20.0	-10.8
17,375.0	95.43	0.78	12,283.3	5,089.5	180.8	2.07	1.97	0.65	15.8	-12.4
17,469.0	93.14	359.03	12,276.3	5,183.2	180.7	3.06	-2.44	-1.68	12.0	-13.0
17,562.0	92.75	359.64	12,271.5	5,276.1	179.6	0.78	-0.42	0.66	10.4	-12.7

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3457.0usft
Site:	Dillon 31 Fed Com	MD Reference:	KB = 25' @ 3457.0usft
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)
17,658.0	92.84	358.67	12,266.9	5,370.0	178.2	1.04	0.10	-1.03	9.0	-12.1
17,749.0	89.54	358.32	12,265.0	5,462.9	175.8	3.57	-3.55	-0.38	10.3	-10.5
17,843.0	88.35	359.48	12,266.7	5,556.9	173.9	1.75	-1.27	1.21	15.2	-9.5
17,937.0	89.85	0.26	12,268.2	5,650.8	173.7	1.81	1.60	0.85	20.0	-10.0
18,032.0	90.15	1.13	12,268.2	5,745.8	174.9	0.97	0.32	0.92	23.2	-11.9
18,126.0	92.09	0.70	12,268.3	5,839.8	176.4	2.11	2.06	-0.46	24.8	-14.2
18,219.0	91.12	357.62	12,263.7	5,932.7	175.0	3.47	-1.04	-3.31	24.7	-13.7
18,312.0	92.97	357.97	12,260.4	6,025.6	171.4	2.02	1.99	0.38	24.2	-10.9
18,406.0	91.78	356.74	12,256.5	6,119.4	167.1	1.82	-1.27	-1.31	23.0	-7.3
18,499.0	92.22	355.69	12,253.3	6,212.2	161.0	1.22	0.47	-1.13	22.5	-2.0
18,592.0	90.46	355.95	12,251.1	6,304.9	154.2	1.91	-1.89	0.28	23.1	4.0
18,686.0	90.33	356.92	12,250.4	6,398.7	148.3	1.04	-0.14	1.03	25.3	9.1
18,780.0	91.38	356.92	12,249.0	6,492.6	143.3	1.12	1.12	0.00	28.7	13.3
18,873.0	92.66	357.62	12,245.8	6,585.4	138.9	1.57	1.38	0.75	25.5	17.0
18,966.0	92.04	358.94	12,242.0	6,678.3	136.1	1.57	-0.67	1.42	23.6	19.0
19,060.0	91.82	358.67	12,238.8	6,772.2	134.1	0.37	-0.23	-0.29	22.4	20.2
19,153.0	93.27	359.11	12,234.7	6,865.1	132.3	1.63	1.56	0.47	20.1	21.2
19,248.0	92.48	0.43	12,230.0	6,958.0	131.8	1.65	-0.85	1.42	17.4	20.8
19,340.0	91.34	1.22	12,226.9	7,051.9	133.3	1.48	-1.21	0.84	16.2	18.7
19,433.0	91.30	1.66	12,224.7	7,144.8	135.6	0.47	-0.04	0.47	15.9	15.6
19,527.0	91.03	2.36	12,222.8	7,238.8	138.9	0.80	-0.29	0.74	15.9	11.5
19,621.0	92.40	4.21	12,220.0	7,332.6	144.3	2.45	1.46	1.97	15.0	5.3
19,715.0	94.46	5.97	12,214.4	7,426.0	152.6	2.88	2.19	1.87	11.4	-3.7
19,739.0	95.34	6.23	12,212.3	7,449.8	155.2	3.82	3.67	1.08	9.8	-6.5
19,804.0	95.34	6.23	12,206.3	7,514.1	162.2	0.00	0.00	0.00	5.2	-14.0

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3457.0usft
Site:	Dillon 31 Fed Com	MD Reference:	KB = 25' @ 3457.0usft
Well:	#706H	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
11,845.0	11,828.7	-203.8	219.5	KOP, MD:11845.0',TVD:11828.7',N/S:-203.8', E/W:219.5', INC:3.08
11,950.9	11,929.7	-182.0	214.3	FTP Crossing, MD:11950.9', TVD:11929.7',N/S:-182.0', E/W:214.3', INC:22.38
19,739.0	12,212.3	7,449.8	155.2	Last MWD Survey (MD=19739.0')
19,804.0	12,206.3	7,514.1	162.2	Projection to Bit (MD=19804.0')

Checked By: _____ Approved By: _____ Date: _____

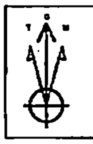
eog resources

Lea County, NM (NAD 83 NME)

Dillon 31 Fed Com #706H

Plan #1

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



Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.32°

Magnetic Field
Strength: 47768.8snT
Dip Angle: 60.06°
Date: 11/14/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.32°
To convert a Magnetic Direction to a True Direction, Add 6.76° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

WELL DETAILS: #706H

3432.0
KB = 25' @ 3457.0usft

Northing	Easting	Latitude	Longitude
425431.00	783513.00	32° 10' 3.261 N	103° 30' 7.899 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	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2799.8	6.00	137.44	2799.2	-11.5	10.6	2.00	137.44	-11.3	
4	5518.2	6.00	137.44	5499.8	-220.5	202.4	0.00	0.00	-218.4	
5	5814.3	0.00	0.00	5793.0	-232.0	213.0	2.00	180.00	-227.8	
6	11865.6	0.00	0.00	11849.7	-232.0	213.0	0.00	0.00	-227.8	
7	12609.3	89.24	359.52	12327.1	239.1	208.1	12.00	359.52	243.2	
8	13656.6	89.24	359.52	12341.0	1288.3	200.3	0.00	0.00	1290.0	TGT#1(Dillon 31 Fed Com #706H)
9	13731.0	90.73	359.52	12341.0	1360.7	199.7	2.00	0.00	1364.4	
10	15225.4	90.73	359.52	12322.0	2834.9	187.1	0.00	0.00	2838.0	TGT#2(Dillon 31 Fed Com #706H)
11	15252.7	91.27	359.52	12321.5	2862.2	186.9	2.00	0.00	2865.3	
12	17029.6	91.27	359.52	12282.0	4658.5	172.0	0.00	0.00	4661.0	TGT#3(Dillon 31 Fed Com #706H)
13	17063.9	91.96	359.52	12281.0	4692.9	171.7	2.00	0.00	4695.3	
14	18203.6	91.96	359.52	12242.0	5831.9	162.2	0.00	0.00	5834.0	TGT#4(Dillon 31 Fed Com #706H)
15	18216.9	91.70	359.52	12241.6	5845.2	162.1	2.00	-180.00	5847.3	
16	18878.3	91.70	359.52	12222.0	6506.2	156.5	0.00	0.00	6508.0	TGT#5(Dillon 31 Fed Com #706H)
17	18904.4	91.17	359.52	12221.3	6532.3	156.3	2.00	180.00	6534.1	
18	19897.3	91.17	359.52	12201.0	7525.0	148.0	0.00	0.00	7526.5	PBHL(Dillon 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
Brushy Top(Dillon 31 Fed Com #706H)	7832.0	-232.0	213.0	425459.00	783728.00
PBHL(Dillon 31 Fed Com #706H)	12201.0	7525.0	148.0	433318.00	783843.00
TGT#5(Dillon 31 Fed Com #706H)	12222.0	6506.2	156.6	432137.20	783671.64
TGT#4(Dillon 31 Fed Com #706H)	12242.0	5831.9	162.2	431522.90	783677.13
TGT#3(Dillon 31 Fed Com #706H)	12282.0	4658.6	172.0	430343.50	783627.00
TGT#2(Dillon 31 Fed Com #706H)	12322.0	2834.9	187.1	428545.80	783702.13
FTP(Dillon 31 Fed Com #706H)	12324.0	-482.0	213.0	425329.00	783728.00
TGT#1(Dillon 31 Fed Com #706H)	12341.0	1288.3	200.3	426377.30	783718.29