REC'D 10/29/2020 - NMOCD

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
30-025-46823	98094	BOBCAT DRAW; UPPER WOLFCAMP

[4]Property Code	[5]Property Name	[6]Well Number
326481	ANTERO 14 FED COM	704H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3358'

[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
K	14	25-S	33-E	–	2598'	SOUTH	1591'	WEST	LEA

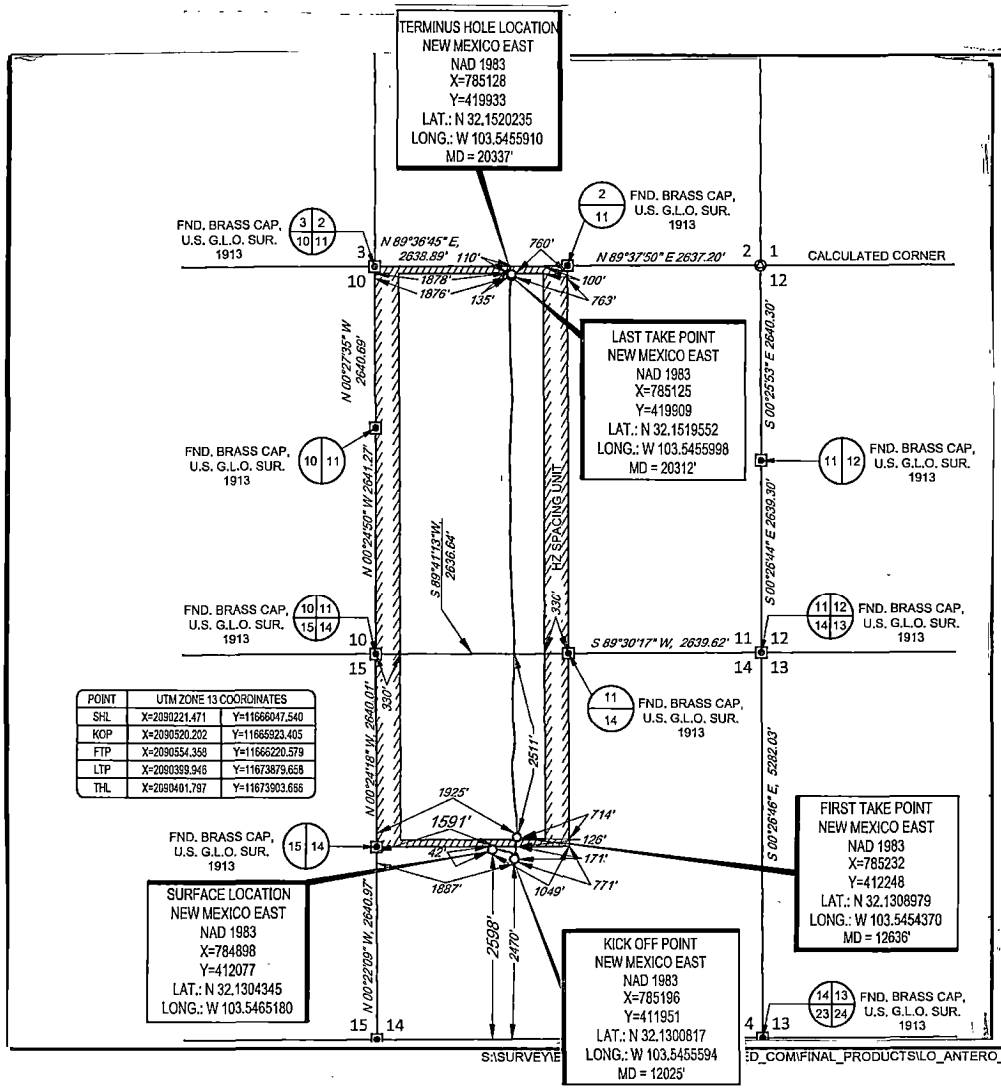
[11]Bottom Hole Location If Different From Surface

SL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	11	25-S	33-E	–	110'	NORTH	1878'	WEST	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 10/15/2020
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.

11/05/2019
Date of Survey
Signature and Seal of Professional Surveyor

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

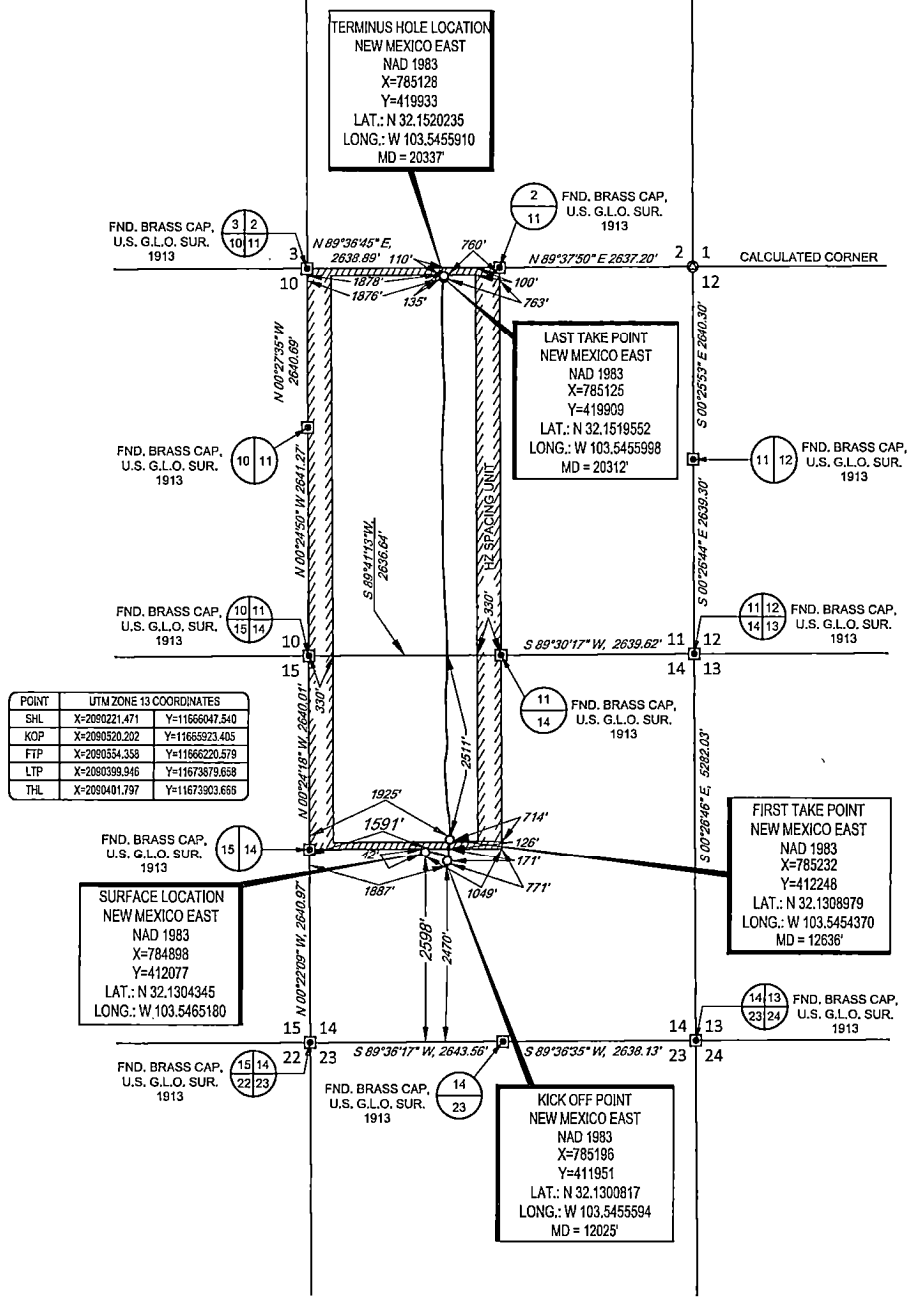
Certificate Number

S:\SURVEYE ED_COM\FINAL_PRODUCTS\LO_ANTERO_14_FED_COM_704H_C-102_REV2.DWG 1/6/2020 9:40:31 AM rdominguez

SCALE: 1" = 2000'

0' 1000' 2000'

SECTIONS 14, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2090221.471	Y=11666047.540
KOP	X=2090520.202	Y=11665923.405
FTP	X=2090554.358	Y=11666220.579
LTP	X=2090399.946	Y=11673879.658
THL	X=2090401.797	Y=11673903.669

LEASE NAME & WELL NO.: ANTERO 14 FED COM #704H

SECTION 14 TWP 25-S RGE 33-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3358'

DESCRIPTION 2598' FSL & 1591' FWL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

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

MAY 12, 2020

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

eog resources, Inc.

ANTERO 14 FED COM #704H AS-COMPLETE	REVISION:
DATE: 05/12/2020	
FILE: AD_ANTERO_14_FED_COM_704H	
DRAWN BY: H.B.	
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 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.
4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

S:\SURVEY\EOG_MIDLAND\ANTERO_14_FED_COM\FINAL_PRODUCTS\AD_ANTERO_14_FED_COM_704H.DWG 5/14/2020 8:38:52 AM rdominguez

eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Antero 14 Fed Com
#704H
OH

Design: OH

Midland PVA

04 March, 2020

EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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 Antero 14 Fed Com

Site Position:		Northing:	412,174.00 usft	Latitude:	32° 7' 50.590 N
From:	Map	Easting:	783,931.00 usft	Longitude:	103° 32' 58.705 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well #704H

Well Position	+N/-S	0.0 usft	Northing:	412,077.00 usft		Latitude:	32° 7' 49.560 N
	+E/-W	0.0 usft	Easting:	784,898.00 usft		Longitude:	103° 32' 47.468 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		usft	Ground Level:	3,358.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/11/2020	6.65	59.95	47,613.01065852

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	1.60

Survey Program Date 3/4/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
199.0	20,337.0	Driltech Mwd (OH)	EOG MWD+IFR1	MWD + IFR1

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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
199.0	0.88	8.59	199.0	1.5	0.2	0.44	0.44	0.00	-1.5	0.0
290.0	0.88	3.23	290.0	2.9	0.4	0.09	0.00	-5.89	-2.9	-0.2
377.0	0.88	5.87	377.0	4.2	0.5	0.05	0.00	3.03	-4.3	0.0
464.0	1.06	358.84	464.0	5.7	0.5	0.25	0.21	-8.08	-5.7	-0.6
551.0	0.97	1.21	550.9	7.2	0.5	0.11	-0.10	2.72	-7.3	-0.4
650.0	0.79	1.74	649.9	8.8	0.6	0.18	-0.18	0.54	-8.8	-0.3
745.0	0.79	4.99	744.9	10.1	0.6	0.05	0.00	3.42	-10.1	0.2
936.0	0.53	346.18	935.9	12.2	0.5	0.18	-0.14	-9.85	-11.8	-3.5
1,032.0	0.35	347.67	1,031.9	13.0	0.4	0.19	-0.19	1.55	-12.6	-3.1
1,127.0	0.26	326.32	1,126.9	13.4	0.2	0.15	-0.09	-22.47	-11.1	-7.6
1,171.0	0.18	8.06	1,170.9	13.6	0.2	0.39	-0.18	94.86	-13.5	1.8
1,325.0	0.18	105.09	1,324.9	13.7	0.4	0.18	0.00	63.01	3.3	13.4
1,420.0	0.26	43.75	1,419.9	13.9	0.7	0.25	0.08	-64.57	-9.5	11.4
1,516.0	0.35	17.03	1,515.9	14.3	0.9	0.17	0.09	-27.83	-14.4	11.4
1,612.0	0.53	2.35	1,611.9	15.0	1.1	0.22	0.19	-15.29	-19.8	14.4
1,708.0	0.70	359.27	1,707.9	16.1	1.1	0.18	0.18	-3.21	-24.3	20.4
1,803.0	2.29	88.92	1,802.9	16.7	3.0	2.52	1.67	94.37	25.3	27.6
1,899.0	5.54	99.29	1,898.6	16.0	9.4	3.45	3.39	10.80	30.8	24.4
1,995.0	6.24	99.65	1,994.1	14.3	19.2	0.73	0.73	0.37	28.5	25.5
2,091.0	5.98	97.45	2,089.6	12.8	29.3	0.36	-0.27	-2.29	24.6	28.0
2,187.0	5.80	96.92	2,185.1	11.6	39.0	0.20	-0.19	-0.55	21.8	29.9
2,283.0	5.54	94.64	2,280.6	10.6	48.5	0.36	-0.27	-2.37	18.4	32.6
2,379.0	5.28	93.49	2,376.2	10.0	57.5	0.29	-0.27	-1.20	15.9	35.0
2,475.0	6.42	104.66	2,471.7	8.4	67.1	1.67	1.19	11.64	20.2	32.8
2,571.0	6.86	106.68	2,567.0	5.3	77.8	0.52	0.46	2.10	17.7	32.7
2,667.0	6.77	106.41	2,662.4	2.1	88.7	0.10	-0.09	-0.28	13.7	33.2

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
2,762.0	6.86	105.71	2,756.7	-1.0	99.5	0.13	0.09	-0.74	9.4	33.9
2,858.0	6.60	103.34	2,852.0	-3.8	110.4	0.40	-0.27	-2.47	4.2	34.9
2,954.0	6.68	101.49	2,947.4	-6.2	121.3	0.24	0.08	-1.93	-0.5	36.0
3,049.0	6.95	100.61	3,041.7	-8.4	132.3	0.30	0.28	-0.93	-5.0	37.1
3,145.0	6.68	106.68	3,137.0	-11.1	143.4	0.80	-0.28	6.32	-5.0	38.4
3,241.0	6.86	106.59	3,232.4	-14.3	154.2	0.19	0.19	-0.09	-8.8	38.9
3,336.0	7.12	103.34	3,326.7	-17.3	165.4	0.50	0.27	-3.42	-15.2	38.9
3,432.0	7.30	101.93	3,421.9	-19.9	177.2	0.26	0.19	-1.47	-20.7	39.4
3,528.0	7.12	100.52	3,517.1	-22.3	189.0	0.26	-0.19	-1.47	-26.3	40.0
3,624.0	6.68	101.32	3,612.4	-24.4	200.3	0.47	-0.46	0.83	-29.9	41.6
3,720.0	6.07	99.73	3,707.8	-26.4	210.8	0.66	-0.64	-1.66	-34.3	41.9
3,816.0	5.89	98.85	3,803.3	-28.0	220.6	0.21	-0.19	-0.92	-37.5	42.7
3,911.0	6.07	111.77	3,897.8	-30.6	230.1	1.43	0.19	13.60	-29.4	50.9
4,006.0	5.63	113.36	3,992.3	-34.3	239.1	0.49	-0.46	1.67	-30.2	51.4
4,102.0	5.01	114.06	4,087.9	-37.9	247.2	0.65	-0.65	0.73	-31.0	51.3
4,198.0	4.40	115.73	4,183.6	-41.2	254.4	0.65	-0.64	1.74	-29.9	51.5
4,293.0	3.96	117.14	4,278.3	-44.3	260.6	0.48	-0.46	1.48	-28.1	51.4
4,389.0	4.66	115.20	4,374.1	-47.5	267.0	0.74	0.73	-2.02	-29.5	49.6
4,485.0	4.92	112.30	4,469.7	-50.7	274.4	0.37	0.27	-3.02	-32.5	47.6
4,580.0	4.40	112.74	4,564.4	-53.6	281.5	0.55	-0.55	0.46	-32.4	47.5
4,676.0	5.36	117.75	4,660.1	-57.2	288.9	1.09	1.00	5.22	-28.8	49.4
4,772.0	6.51	121.44	4,755.5	-62.1	297.5	1.26	1.20	3.84	-28.1	50.0
4,868.0	6.51	120.21	4,850.9	-67.7	306.8	0.15	0.00	-1.28	-32.7	47.9
4,964.0	3.61	116.78	4,946.5	-71.8	314.2	3.04	-3.02	-3.57	-36.4	44.7
5,060.0	0.97	47.45	5,042.5	-72.6	317.5	3.53	-2.75	-72.22	-53.1	-14.3
5,156.0	1.23	5.16	5,138.4	-71.0	318.2	0.86	0.27	-44.05	-33.1	-39.8
5,252.0	1.23	8.15	5,234.4	-68.9	318.5	0.07	0.00	3.11	-38.1	-33.4

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #704H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	**MD Reference:**	KB = 25 @ 3383.0usft
Well:	#704H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

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)
5,348.0	1.23	7.80	5,330.4	-66.9	318.8	0.01	0.00	-0.36	-40.3	-32.1
5,443.0	1.41	11.76	5,425.4	-64.8	319.1	0.21	0.19	4.17	-44.6	-29.2
5,539.0	1.49	8.68	5,521.3	-62.4	319.6	0.12	0.08	-3.21	-45.4	-31.6
5,635.0	1.49	19.49	5,617.3	-60.0	320.2	0.29	0.00	11.26	-53.0	-22.3
5,731.0	1.23	12.72	5,713.3	-57.8	320.8	0.32	-0.27	-7.05	-52.3	-28.5
5,826.0	1.23	11.40	5,808.3	-55.8	321.2	0.03	0.00	-1.39	-53.7	-29.7
5,922.0	1.14	9.65	5,904.2	-53.8	321.6	0.10	-0.09	-1.82	-54.7	-31.4
6,018.0	0.97	5.87	6,000.2	-52.1	321.8	0.19	-0.18	-3.94	-54.3	-35.0
6,114.0	1.49	125.31	6,096.2	-52.0	322.9	2.23	0.54	124.42	-4.6	65.2
6,210.0	1.67	129.00	6,192.2	-53.6	325.0	0.22	0.19	3.84	-3.1	65.4
6,305.0	1.58	117.49	6,287.1	-55.1	327.3	0.36	-0.09	-12.12	-18.7	63.2
6,401.0	1.49	106.41	6,383.1	-56.0	329.7	0.32	-0.09	-11.54	-33.1	58.2
6,497.0	1.32	107.73	6,479.1	-56.7	331.9	0.18	-0.18	1.37	-34.1	59.0
6,593.0	1.23	108.17	6,575.1	-57.4	333.9	0.09	-0.09	0.46	-35.7	59.2
6,688.0	1.14	104.04	6,670.0	-57.9	335.8	0.13	-0.09	-4.35	-41.9	56.4
6,784.0	1.06	104.13	6,766.0	-58.4	337.6	0.08	-0.08	0.09	-43.6	56.5
6,880.0	0.97	103.16	6,862.0	-58.8	339.3	0.10	-0.09	-1.01	-46.3	55.7
6,976.0	0.79	156.42	6,958.0	-59.6	340.3	0.84	-0.19	55.48	15.8	71.1
7,072.0	1.58	197.91	7,054.0	-61.4	340.2	1.16	0.82	43.22	57.1	43.2
7,168.0	1.49	199.23	7,149.9	-63.9	339.4	0.10	-0.09	1.37	55.5	41.9
7,263.0	1.76	199.40	7,244.9	-66.4	338.5	0.28	0.28	0.18	53.0	41.8
7,359.0	1.67	192.19	7,340.9	-69.2	337.7	0.24	-0.09	-7.51	44.4	47.9
7,455.0	1.41	195.89	7,436.8	-71.7	337.1	0.29	-0.27	3.85	44.9	45.0
7,551.0	1.32	204.24	7,532.8	-73.8	336.3	0.23	-0.09	8.70	48.6	38.2
7,647.0	1.14	210.48	7,628.8	-75.6	335.3	0.23	-0.19	6.50	50.4	32.8
7,705.2	1.14	209.78	7,687.0	-76.7	334.8	0.02	0.00	-1.20	48.9	33.4
Brushy Top(Ant 14 FC #704H)										

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
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Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
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Design:	OH	Database:	EDM

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)
7,743.0	1.14	209.33	7,724.8	-77.3	334.4	0.02	0.00	-1.20	47.9	33.8
7,839.0	1.14	204.50	7,820.7	-79.0	333.5	0.10	0.00	-5.03	43.0	37.6
7,934.0	1.14	212.06	7,915.7	-80.7	332.6	0.16	0.00	7.96	45.6	31.8
8,030.0	1.06	223.04	8,011.7	-82.1	331.5	0.23	-0.08	11.44	49.0	22.7
8,126.0	0.79	227.26	8,107.7	-83.2	330.4	0.29	-0.28	4.40	49.0	19.1
8,222.0	0.70	223.48	8,203.7	-84.1	329.5	0.11	-0.09	-3.94	46.4	22.2
8,317.0	0.62	217.42	8,298.7	-84.9	328.8	0.11	-0.08	-6.38	42.7	26.9
8,413.0	0.53	202.30	8,394.7	-85.8	328.3	0.18	-0.09	-15.75	33.3	37.0
8,509.0	0.79	196.59	8,490.7	-86.8	328.0	0.28	0.27	-5.95	28.3	40.1
8,605.0	0.79	204.41	8,586.7	-88.0	327.5	0.11	0.00	8.15	32.2	35.9
8,701.0	0.88	218.39	8,682.6	-89.2	326.8	0.23	0.09	14.56	38.5	27.3
8,796.0	0.79	214.26	8,777.6	-90.3	326.0	0.11	-0.09	-4.35	35.1	29.9
8,892.0	0.88	209.77	8,873.6	-91.5	325.2	0.12	0.09	-4.68	31.2	32.5
8,988.0	1.06	221.99	8,969.6	-92.8	324.3	0.28	0.19	12.73	35.8	25.3
9,084.0	1.06	221.02	9,065.6	-94.1	323.1	0.02	0.00	-1.01	33.6	25.9
9,180.0	0.97	226.21	9,161.6	-95.4	321.9	0.13	-0.09	5.41	34.1	22.8
9,275.0	1.06	247.92	9,256.6	-96.3	320.5	0.41	0.09	22.85	38.5	8.9
9,371.0	1.23	259.17	9,352.5	-96.8	318.7	0.29	0.18	11.72	37.6	1.4
9,467.0	1.23	277.10	9,448.5	-96.9	316.7	0.40	0.00	18.68	34.2	-9.9
9,563.0	1.23	284.04	9,544.5	-96.5	314.6	0.16	0.00	7.23	30.7	-13.9
9,659.0	1.14	301.35	9,640.5	-95.7	312.8	0.38	-0.09	18.03	23.2	-22.1
9,755.0	0.70	0.51	9,736.5	-94.6	312.0	1.03	-0.46	61.62	-8.1	-30.4
9,850.0	1.41	96.83	9,831.5	-94.2	313.2	1.73	0.75	101.39	-30.5	12.0
9,946.0	1.49	76.97	9,927.4	-94.1	315.6	0.53	0.08	-20.69	-35.1	0.5
10,042.0	1.14	63.79	10,023.4	-93.4	317.6	0.48	-0.36	-13.73	-36.5	-7.8
10,138.0	1.06	30.30	10,119.4	-92.2	318.9	0.67	-0.08	-34.89	-27.8	-27.1
10,234.0	0.88	4.11	10,215.4	-90.7	319.5	0.49	-0.19	-27.28	-14.5	-37.0

EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
10,329.0	1.06	343.45	10,310.4	-89.1	319.3	0.41	0.19	-21.75	-2.1	-40.0
10,425.0	0.70	331.33	10,406.3	-87.7	318.7	0.42	-0.37	-12.62	4.9	-39.7
10,521.0	0.09	283.78	10,502.3	-87.2	318.4	0.67	-0.64	-49.53	32.2	-23.6
10,617.0	0.62	146.93	10,598.3	-87.6	318.6	0.72	0.55	-142.55	-7.8	39.2
10,713.0	0.97	184.11	10,694.3	-88.9	318.8	0.63	0.36	38.73	16.3	36.2
10,809.0	1.41	205.82	10,790.3	-90.7	318.2	0.65	0.46	22.61	26.6	27.9
10,904.0	1.85	211.27	10,885.3	-93.1	316.9	0.49	0.46	5.74	26.4	25.4
11,000.0	2.29	215.66	10,981.2	-96.0	315.0	0.49	0.46	4.57	24.8	23.4
11,096.0	1.93	221.02	11,077.1	-98.8	312.8	0.43	-0.37	5.58	23.4	21.2
11,192.0	2.02	202.57	11,173.1	-101.5	311.1	0.67	0.09	-19.22	12.2	27.0
11,288.0	2.64	193.78	11,269.0	-105.3	309.9	0.74	0.65	-9.16	4.1	28.3
11,383.0	2.55	218.12	11,363.9	-109.0	308.1	1.16	-0.09	25.62	11.3	25.0
11,575.0	2.20	225.07	11,555.8	-115.0	302.9	0.24	-0.18	3.62	6.3	23.9
11,671.0	2.20	219.00	11,651.7	-117.7	300.4	0.24	0.00	-6.32	0.0	24.3
11,731.0	1.58	206.43	11,711.6	-119.4	299.3	1.24	-1.03	-20.95	-7.2	23.5
11,872.0	1.41	190.44	11,852.6	-122.8	298.1	0.32	-0.12	-11.34	-17.0	20.0
11,967.0	1.32	190.79	11,947.6	-125.0	297.7	0.10	-0.09	0.37	-19.1	20.1
12,025.0	0.97	168.17	12,005.6	-126.2	297.7	0.97	-0.60	-39.00	-26.5	11.0
KOP, MD:12025.0', TVD:12005.6',N/S:-126.2', E/W:297.7', INC:0.97										
12,063.0	0.88	145.96	12,043.6	-126.7	297.9	0.97	-0.25	-58.44	-30.3	-0.6
12,159.0	11.17	2.09	12,139.0	-118.0	298.7	12.39	10.72	-149.86	31.7	-18.5
12,254.0	25.24	8.77	12,229.0	-88.7	302.1	14.95	14.81	7.03	32.5	-25.7
12,350.0	30.86	9.73	12,313.7	-44.1	309.4	5.87	5.85	1.00	36.3	-34.0
12,445.0	42.21	6.39	12,389.9	11.8	317.1	12.13	11.95	-3.52	45.8	-40.5
12,473.0	47.84	4.90	12,409.7	31.5	319.0	20.46	20.11	-5.32	48.1	-41.5
12,491.0	49.91	5.43	12,421.5	45.0	320.2	11.70	11.48	2.94	48.4	-43.1
LL Crossing, MD:12491.0', TVD:12421.5',N/S:45.0', E/W:320.2', INC:49.91										

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
12,541.0	55.66	6.75	12,451.8	84.6	324.5	11.70	11.51	2.64	49.1	-47.8
12,606.8	69.30	5.64	12,482.1	142.4	330.7	20.79	20.73	-1.68	47.7	-53.2
FTP(Ant 14 FC #704H)										
12,609.7	69.90	5.60	12,483.1	145.1	331.0	20.79	20.74	-1.49	47.4	-53.4
FTP Crossing, MD:12609.7', TVD:12483.1', N/S:145.1', E/W:331.0', INC:69.90										
12,636.0	75.36	5.22	12,491.0	170.1	333.4	20.79	20.74	-1.44	44.5	-55.5
12,732.0	94.70	0.12	12,499.2	265.2	337.7	20.82	20.15	-5.31	24.1	-59.5
12,828.0	94.88	356.70	12,491.2	360.8	335.1	3.56	0.19	-3.56	4.7	-57.2
12,923.0	91.28	352.56	12,486.1	455.2	326.2	5.77	-3.79	-4.36	-0.2	-49.0
13,019.0	88.90	350.63	12,486.0	550.2	312.2	3.19	-2.48	-2.01	0.3	-35.7
13,115.0	89.87	352.48	12,487.0	645.1	298.1	2.18	1.01	1.93	1.6	-22.4
13,211.0	92.77	356.52	12,484.8	740.6	288.9	5.18	3.02	4.21	-0.3	-13.9
13,307.0	93.03	356.17	12,479.9	836.3	282.8	0.45	0.27	-0.36	-4.8	-8.5
13,403.0	90.04	355.20	12,477.4	932.0	275.5	3.27	-3.11	-1.01	-7.0	-2.1
13,499.0	88.81	356.52	12,478.3	1,027.7	268.6	1.88	-1.28	1.37	-5.7	4.1
13,594.0	90.57	356.34	12,478.8	1,122.5	262.7	1.86	1.85	-0.19	-4.8	9.3
13,690.0	89.43	5.73	12,478.8	1,218.4	264.4	9.85	-1.19	9.78	-4.4	6.8
13,786.0	91.54	13.39	12,478.0	1,313.0	280.4	8.28	2.20	7.98	-4.9	-9.8
13,882.0	94.35	3.38	12,473.1	1,407.7	294.3	10.82	2.93	-10.43	-9.3	-24.6
13,978.0	92.33	358.19	12,467.5	1,503.5	295.6	5.79	-2.10	-5.41	-14.7	-26.6
14,074.0	87.76	354.67	12,467.4	1,599.3	289.7	6.01	-4.76	-3.67	-14.4	-21.4
14,169.0	90.22	355.90	12,469.1	1,693.9	281.9	2.89	2.59	1.29	-12.4	-14.3
14,265.0	89.87	359.60	12,469.0	1,789.8	278.1	3.87	-0.36	3.85	-12.1	-11.3
14,361.0	90.04	358.37	12,469.1	1,885.8	276.4	1.29	0.18	-1.28	-11.6	-10.3
14,457.0	87.49	358.10	12,471.1	1,981.7	273.4	2.67	-2.66	-0.28	-9.2	-8.1
14,552.0	86.97	357.31	12,475.7	2,076.6	269.6	0.99	-0.55	-0.83	-4.2	-5.1
14,648.0	92.33	1.97	12,476.3	2,172.5	269.0	7.40	5.58	4.85	-3.3	-5.2

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
14,744.0	88.81	7.68	12,475.4	2,268.1	277.1	6.99	-3.67	5.95	-4.0	-14.0
14,839.0	87.14	4.43	12,478.7	2,362.5	287.1	3.84	-1.76	-3.42	-0.3	-24.8
14,935.0	87.58	358.89	12,483.1	2,458.3	289.9	5.78	0.46	-5.77	4.6	-28.3
15,031.0	88.99	358.62	12,486.0	2,554.2	287.8	1.50	1.47	-0.28	7.9	-26.9
15,070.9	89.54	358.88	12,486.5	2,594.1	286.9	1.54	1.39	0.65	8.5	-26.4
TGT#1(Ant 14 FC #704H)										
15,126.0	90.31	359.24	12,486.6	2,649.2	286.0	1.54	1.39	0.65	8.7	-25.9
15,159.9	91.02	359.61	12,486.2	2,683.1	285.7	2.37	2.10	1.09	8.4	-25.8
Fed Perf(Ant 14 FC #704H)										
15,222.0	92.33	0.29	12,484.4	2,745.2	285.6	2.37	2.10	1.09	6.6	-26.2
15,318.0	91.71	359.77	12,481.0	2,841.1	285.7	0.84	-0.65	-0.54	3.4	-27.0
15,413.0	91.10	359.42	12,478.7	2,936.1	285.0	0.74	-0.64	-0.37	1.2	-27.1
15,509.0	92.68	358.80	12,475.5	3,032.0	283.5	1.77	1.65	-0.65	-1.8	-26.3
15,604.0	88.55	356.08	12,474.5	3,126.9	279.3	5.21	-4.35	-2.86	-2.7	-22.8
15,700.0	90.13	354.85	12,475.6	3,222.6	271.7	2.09	1.65	-1.28	-1.4	-16.0
15,796.0	92.15	355.55	12,473.7	3,318.2	263.7	2.23	2.10	0.73	-3.2	-8.7
15,891.0	91.80	357.13	12,470.4	3,413.0	257.6	1.70	-0.37	1.66	-6.3	-3.4
15,987.0	90.13	357.39	12,468.8	3,508.8	253.0	1.76	-1.74	0.27	-7.8	0.5
16,082.0	90.66	357.13	12,468.1	3,603.7	248.5	0.62	0.56	-0.27	-8.3	4.3
16,178.0	87.85	357.22	12,469.4	3,699.6	243.7	2.93	-2.93	0.09	-6.9	8.3
16,273.0	88.11	356.95	12,472.7	3,794.4	238.9	0.39	0.27	-0.28	-3.4	12.4
16,369.0	89.25	357.57	12,475.0	3,890.3	234.3	1.35	1.19	0.65	-1.1	16.2
16,465.0	89.87	358.18	12,475.7	3,986.2	230.8	0.91	0.65	0.64	-0.2	19.1
16,560.0	91.71	359.50	12,474.4	4,081.2	228.9	2.38	1.94	1.39	-1.4	20.2
16,656.0	90.92	358.71	12,472.2	4,177.1	227.4	1.16	-0.82	-0.82	-3.4	21.0
16,751.0	90.48	359.50	12,471.0	4,272.1	225.9	0.95	-0.46	0.83	-4.4	21.8
16,847.0	88.11	358.98	12,472.2	4,368.1	224.6	2.53	-2.47	-0.54	-3.1	22.3

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
16,943.0	92.15	1.09	12,472.0	4,464.1	224.7	4.75	4.21	2.20	-3.2	21.5
17,038.0	92.33	0.91	12,468.3	4,559.0	226.3	0.27	0.19	-0.19	-6.8	19.1
17,134.0	92.86	0.56	12,463.9	4,654.9	227.5	0.66	0.55	-0.36	-10.9	17.1
17,229.0	88.37	358.45	12,462.9	4,749.8	226.7	5.22	-4.73	-2.22	-11.8	17.2
17,325.0	88.11	358.36	12,465.8	4,845.7	224.0	0.29	-0.27	-0.09	-8.7	19.2
17,421.0	89.87	359.59	12,467.5	4,941.7	222.3	2.24	1.83	1.28	-6.9	20.1
17,516.0	90.92	358.71	12,466.9	5,036.7	220.9	1.44	1.11	-0.93	-7.4	20.8
17,612.0	89.69	356.34	12,466.4	5,132.6	216.8	2.78	-1.28	-2.47	-7.8	24.2
17,707.0	91.80	358.54	12,465.1	5,227.5	212.5	3.21	2.22	2.32	-8.8	27.7
17,803.0	91.54	359.33	12,462.3	5,323.4	210.8	0.87	-0.27	0.82	-11.5	28.8
17,899.0	87.67	0.38	12,463.0	5,419.4	210.5	4.18	-4.03	1.09	-10.7	28.3
17,994.0	88.37	2.22	12,466.3	5,514.3	212.7	2.07	0.74	1.94	-7.2	25.4
18,089.0	86.61	1.43	12,470.4	5,609.2	215.7	2.03	-1.85	-0.83	-2.9	21.6
18,185.0	88.02	2.31	12,474.9	5,705.0	218.8	1.73	1.47	0.92	1.7	17.8
18,281.0	92.42	2.66	12,474.6	5,800.9	223.0	4.60	4.58	0.36	1.4	12.9
18,377.0	92.59	3.55	12,470.4	5,896.7	228.2	0.94	0.18	0.93	-2.6	6.9
18,472.0	93.39	3.81	12,465.4	5,991.3	234.3	0.89	0.84	0.27	-7.4	0.1
18,568.0	92.51	2.84	12,460.5	6,087.0	239.8	1.36	-0.92	-1.01	-12.2	-6.2
18,664.0	89.96	0.47	12,458.4	6,183.0	242.6	3.63	-2.66	-2.47	-14.1	-9.7
18,760.0	91.80	1.79	12,456.9	6,278.9	244.5	2.36	1.92	1.37	-15.5	-12.3
18,856.0	88.29	357.04	12,456.9	6,374.9	243.5	6.15	-3.66	-4.95	-15.4	-12.1
18,952.0	87.49	356.16	12,460.4	6,470.6	237.8	1.24	-0.83	-0.92	-11.7	-7.1
19,047.0	87.49	355.64	12,464.6	6,565.3	231.0	0.55	0.00	-0.55	-7.4	-1.1
19,143.0	89.34	357.31	12,467.2	6,661.1	225.1	2.60	1.93	1.74	-4.6	4.1
19,238.0	89.34	358.18	12,468.3	6,756.0	221.4	0.92	0.00	0.92	-3.4	7.1
19,334.0	90.92	358.62	12,468.1	6,852.0	218.7	1.71	1.65	0.46	-3.4	9.0
19,430.0	92.86	358.98	12,464.9	6,947.9	216.7	2.06	2.02	0.37	-6.4	10.3

eog resources

EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
19,525.0	90.13	357.66	12,462.4	7,042.8	213.9	3.19	-2.87	-1.39	-8.8	12.3
19,621.0	87.23	356.69	12,464.7	7,138.7	209.2	3.19	-3.02	-1.01	-6.5	16.3
19,727.0	88.46	358.54	12,468.6	7,244.5	204.8	2.09	1.16	1.75	-2.3	19.9
19,813.0	90.22	1.70	12,469.6	7,330.5	205.0	4.21	2.05	3.67	-1.2	19.1
19,909.0	89.96	0.47	12,469.5	7,426.4	206.8	1.31	-0.27	-1.28	-1.2	16.5
20,005.0	90.13	1.79	12,469.4	7,522.4	208.7	1.39	0.18	1.37	-1.1	13.9
20,100.0	89.16	359.94	12,470.0	7,617.4	210.1	2.20	-1.02	-1.95	-0.4	11.7
20,196.0	91.36	5.83	12,469.6	7,713.2	214.9	6.55	2.29	6.14	-0.7	6.2
Last MWD Survey (MD=20196.0')										
20,337.0	91.36	5.83	12,466.2	7,853.5	229.3	0.00	0.00	0.00	-3.8	-9.2
Projection to Bit (MD=20337.0') - PBHL(Ant 14 FC #704H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
12,025.0	12,005.6	-126.2	297.7	KOP, MD:12025.0', TVD:12005.6',N/S:-126.2', E/W:297.7', INC:0.97
12,491.0	12,421.5	45.0	320.2	LL Crossing, MD:12491.0', TVD:12421.5',N/S:45.0', E/W:320.2', INC:49.91
12,609.7	12,483.1	145.1	331.0	FTP Crossing, MD:12609.7', TVD:12483.1',N/S:145.1', E/W:331.0', INC:69.90
20,196.0	12,469.6	7,713.2	214.9	Last MWD Survey (MD=20196.0')
20,337.0	12,466.2	7,853.5	229.3	Projection to Bit (MD=20337.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 10/15/2020

Signed *Date*

eog resources

Lea County, NM (NAD 83 NME)

Antero 14 Fed Com #704H

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: -0.42°
Magnetic North: 6.23°

Magnetic Field
Strength: 47613.0nT
Dip Angle: 59.95°
Date: 2/11/2020
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.23°
To convert a Magnetic Direction to a True Direction, Add 6.65° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

WELL DETAILS: #704H

3358.0
KB = 25 @ 3383.0usft

Northing	Easting	Latitude	Longitude
412077.00	784898.00	32° 7' 49.560 N	103° 32' 47.468 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	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1525.1	4.50	110.01	1524.9	-3.0	8.3	2.00	110.01	-2.8	
4	5116.4	4.50	110.01	5105.1	-99.5	273.2	0.00	0.00	-91.8	
5	5341.5	0.00	0.00	5330.0	-102.5	281.5	2.00	180.00	-94.6	
6	12020.5	0.00	0.00	12009.0	-102.5	281.5	0.00	0.00	-94.6	
7	12772.4	90.22	359.56	12486.5	376.8	277.8	12.00	359.56	384.4	
8	14989.4	90.22	359.56	12478.0	2593.7	260.6	0.00	0.00	2600.0	TGT#1(Ant 14 FC #704H)
9	14996.0	90.09	359.56	12478.0	2600.3	260.5	2.00	178.57	2606.6	
10	20251.8	90.09	359.56	12470.0	7856.0	220.0	0.00	0.00	7859.1	PBHL(Ant 14 FC #704H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Ant 14 FC #704H)	7686.0	-102.5	281.5	411974.50	785179.50
PBHL(Ant 14 FC #704H)	12470.0	7856.0	220.0	419933.00	785118.00
TGT#1(Ant 14 FC #704H)	12478.0	2593.7	260.6	414670.70	785158.56
FTP(Ant 14 FC #704H)	12486.0	145.0	276.0	412222.00	785176.00