

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

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

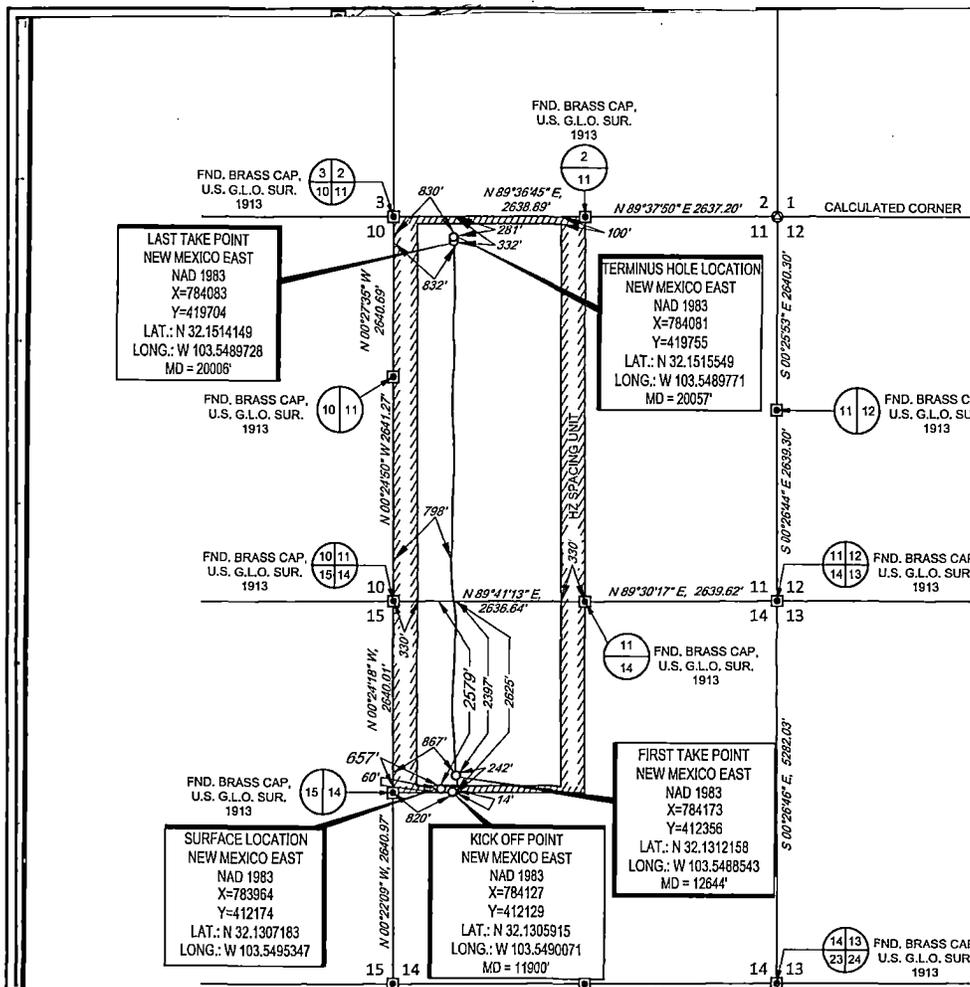
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46686		² Pool Code 98094		³ Pool Name BOBCAT DRAW, UPPER WOLFCAMP					
⁴ Property Code 326481		⁵ Property Name ANTERO 14 FED COM			⁶ Well Number #702H				
⁷ OGRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3361'				
¹⁰ Surface Location									
UL or lot no. E	Section 14	Township 25-S	Range 33-E	Lot Idn -	Feet from the 2579'	North/South line NORTH	Feet from the 657'	East/West line WEST	County LEA
¹¹ Bottom Hole Location If Different From Surface						SL			
UL or lot no. D	Section 11	Township 25-S	Range 33-E	Lot Idn -	Feet from the 281'	North/South line NORTH	Feet from the 830'	East/West line WEST	County LEA
¹² Dedicated Acres 480.00		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or 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

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

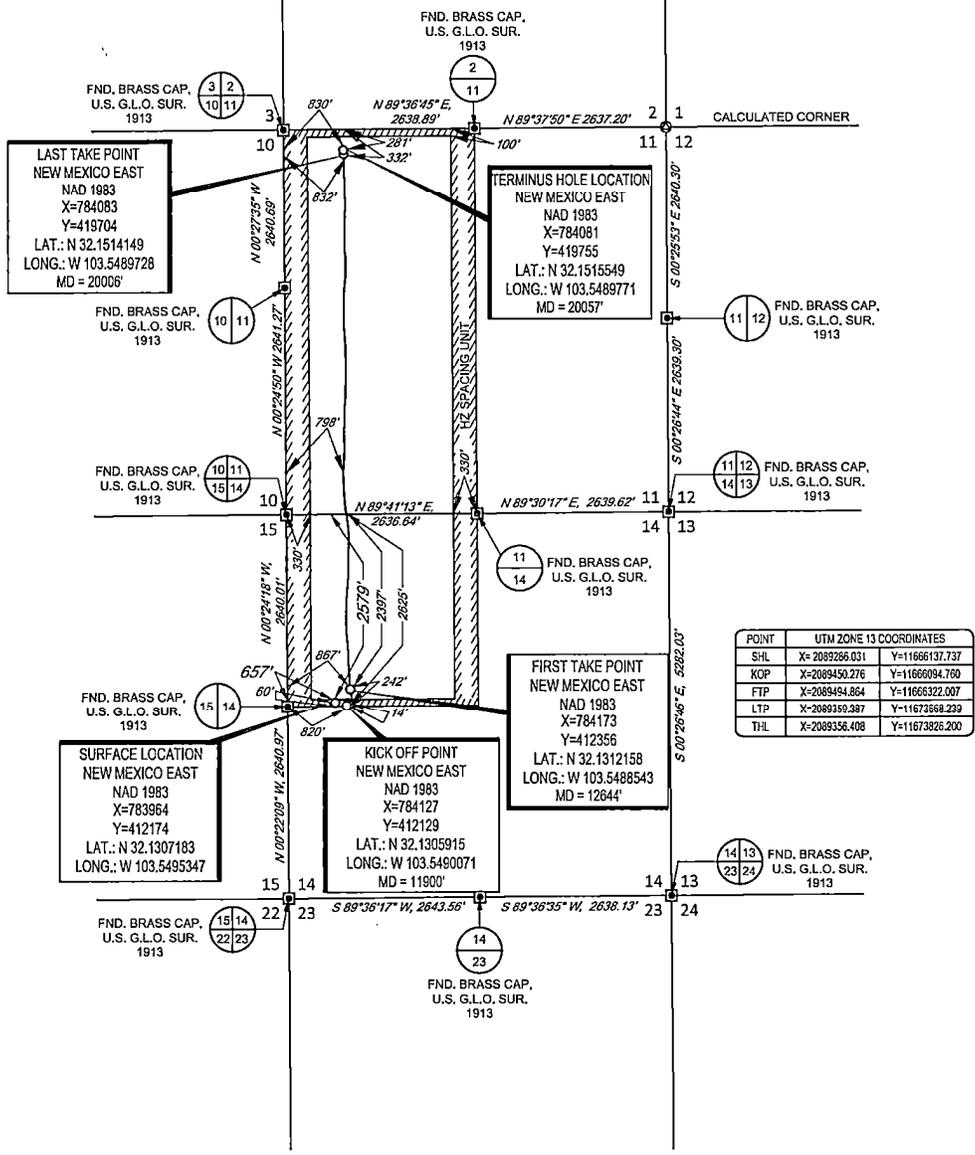
06/19/2018
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL E. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

SCALE: 1" = 2000'
0' 1000' 2000'

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



LAST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=784083
Y=419704
LAT.: N 32.1514149
LONG.: W 103.5489728
MD = 20006'

TERMINUS HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=784081
Y=419755
LAT.: N 32.1515549
LONG.: W 103.5489771
MD = 20057'

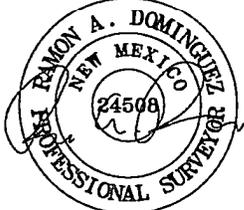
FIRST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=784173
Y=412356
LAT.: N 32.1312158
LONG.: W 103.5488543
MD = 12644'

SURFACE LOCATION
NEW MEXICO EAST
NAD 1983
X=783964
Y=412174
LAT.: N 32.1307183
LONG.: W 103.5495347

KICK OFF POINT
NEW MEXICO EAST
NAD 1983
X=784127
Y=412129
LAT.: N 32.1305915
LONG.: W 103.5490071
MD = 11900'

POINT	UTM ZONE 13 COORDINATES
SHL	X=2089286.031 Y=11666137.737
KOP	X=2089450.276 Y=11666094.760
FTP	X=2089494.864 Y=11666322.007
LTP	X=2089359.287 Y=11673658.229
THL	X=2089356.408 Y=11673826.200

LEASE NAME & WELL NO.: ANTERO 14 FED COM #702H
SECTION 14 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3356'
DESCRIPTION 2579' FNL & 657' FWL



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

Ramon A. Dominguez, P.S. No. 24508
MAY 08 2020



ANTERO 14 FED COM #702H AS-COMplete	REVISION:
DATE: 05/08/2020	
FILE: AD_ANTERO_14_FED_COM_702H	
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. ADDITIONAL INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Antero 14 Fed Com

#702H

OH

Design: OH

Midland PVA

27 February, 2020





EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 22' @ 3383.0usft
Well:	#702H	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:	Map	Northing:	412,174.00 usft
From:		Easting:	783,931.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 50.590 N
		Longitude:	103° 32' 58.705 W
		Grid Convergence:	0.42 °

Well	#702H				
Well Position:	+N-S	0.0 usft	Northing:	412,174.00 usft	
From:	+E-W	0.0 usft	Easting:	783,964.00 usft	
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,361.0 usft
				Latitude:	32° 7' 50.588 N
				Longitude:	103° 32' 58.321 W

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/3/2020	6.65	59.95	47,615.11218670

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	0.95	

Survey Program	Date 2/27/2020				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
198.0	20,057.0	Total Directional (OH)	EOG MWD+IFR1	MWD + IFR1	

MD	Inc	Azi (azimuth)	TVD	N/S	EW	Dleg	Build	Turn	High to Plan	Right to Plan
(usft)	(")	(")	(usft)	(usft)	(usft)	(/100usft)	(/100usft)	(/100usft)	(usft)	(usft)
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
198.0	176.40	198.0	320.0	-1.6	0.0	0.0	0.20	0.00	-0.7	0.0
508.0	154.70	508.0	608.0	-4.1	0.9	0.9	0.35	0.32	-4.1	-0.9
698.0	338.20	697.9	338.20	-2.4	0.4	1.74	0.58	-92.89	2.3	0.5
889.0	333.40	888.7	333.40	7.0	-4.0	0.95	0.94	-2.51	-8.0	0.4
1,080.0	347.90	1,079.3	347.90	17.0	-7.8	0.89	-0.79	7.59	-18.3	4.1
1,214.0	52.10	1,213.3	52.10	20.8	-7.2	1.69	-0.90	47.91	-7.1	20.9
1,273.0	71.40	1,272.3	71.40	21.5	-5.9	1.08	0.68	32.71	-1.3	22.3
1,463.0	74.30	1,462.2	74.30	23.3	-0.2	0.12	0.11	1.53	-6.1	22.5
1,654.0	73.40	1,653.1	73.40	24.8	5.3	0.21	-0.21	-0.47	-12.1	22.3
1,844.0	51.00	1,843.0	51.00	26.7	9.1	0.34	-0.21	-11.79	-23.8	15.0
2,035.0	35.00	2,034.0	35.00	29.1	11.3	0.18	-0.10	-8.38	-30.3	7.4
2,226.0	356.00	2,225.0	356.00	31.8	12.1	0.31	0.00	-20.42	-30.9	-14.3
2,416.0	81.30	2,415.0	81.30	33.7	14.5	0.89	0.32	44.89	-19.4	31.1
2,607.0	103.40	2,605.7	103.40	32.6	22.9	1.25	1.15	11.57	-12.8	36.7
2,797.0	99.50	2,795.4	99.50	30.2	34.8	0.14	-0.05	-2.05	-15.7	34.1
2,988.0	96.70	2,986.0	96.70	28.5	46.6	0.11	0.05	-1.47	-16.2	32.2
3,178.0	86.40	3,175.3	86.40	28.4	63.0	1.34	1.26	-5.42	-24.6	29.3
3,369.0	82.50	3,364.9	82.50	30.7	85.6	0.82	0.79	-2.04	-36.3	29.4
3,560.0	84.40	3,554.5	84.40	33.4	108.4	0.74	-0.73	0.99	-45.1	33.1
3,751.0	78.30	3,744.5	78.30	36.3	128.0	0.42	-0.26	-3.19	-56.3	30.5
3,941.0	78.70	3,933.8	78.70	39.6	144.2	0.74	-0.74	0.21	-58.8	34.3
4,132.0	59.20	4,124.4	59.20	43.4	155.2	1.00	-0.79	-10.21	-67.3	17.8
4,323.0	75.00	4,315.0	75.00	47.9	167.1	1.22	1.10	8.27	-59.9	40.9
4,514.0	105.60	4,505.4	105.60	48.3	181.2	1.32	-0.52	16.02	-31.3	67.0
4,705.0	118.90	4,695.4	118.90	40.3	198.7	2.10	1.99	6.96	-22.3	68.1

Survey

MD (usft) Inc (") Azi (azimuth) TVD (usft) N/S (usft) EW (usft) Dleg (/100usft) Build (/100usft) Turn (/100usft) High to Plan (usft) Right to Plan (usft)

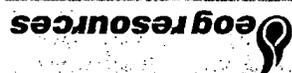
Company: EOG Resources - Midland
 Project: Lees County, NM (MAD 83 NME)
 Site: Antero 14 Fed Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 Well #702H
 KB = 22' @ 3383.0usft

TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Gfd
 Minimum Curvature
 EDM

Database:

EOG Resources
 Midland PVA





EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3383.0usft
Site:	Antero 14, Fed Com	MD Reference:	KB = 22' @ 3383.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,895.0	8.00	123.70	4,883.6	26.8	220.9	0.38	0.16	2.53	-31.0	64.1
5,086.0	3.70	125.90	5,073.6	15.8	236.9	2.25	-2.25	1.15	-36.7	58.7
5,277.0	3.10	124.60	5,264.3	9.3	246.2	0.32	-0.31	-0.68	-39.5	51.7
5,468.0	2.90	119.70	5,455.0	4.0	254.6	0.17	-0.10	-2.57	-52.1	47.0
5,658.0	1.90	150.50	5,644.8	-1.1	260.3	0.84	-0.53	16.21	-28.0	69.5
5,849.0	2.30	202.90	5,835.7	-7.4	260.4	0.99	0.21	27.43	32.2	67.2
6,040.0	2.00	205.50	6,026.6	-14.0	257.5	0.17	-0.16	1.36	28.1	65.8
6,230.0	1.30	230.00	6,216.5	-18.4	254.4	0.52	-0.37	12.89	47.7	49.6
6,421.0	1.10	236.30	6,407.5	-20.8	251.2	0.13	-0.10	3.30	48.8	44.3
6,611.0	1.10	233.00	6,597.4	-22.9	248.2	0.03	0.00	-1.74	42.6	46.9
6,802.0	0.90	224.50	6,788.4	-25.0	245.7	0.13	-0.10	-4.45	31.8	52.4
6,993.0	0.90	278.30	6,979.4	-25.9	243.2	0.43	0.00	28.17	58.7	6.5
7,089.0	1.50	308.30	7,075.4	-25.0	241.4	0.88	0.62	31.25	52.2	-23.4
7,184.0	1.30	300.20	7,170.3	-23.7	239.5	0.30	-0.21	-8.53	52.7	-16.0
7,279.0	1.40	300.60	7,265.3	-22.6	237.6	0.11	0.11	0.42	50.3	-16.3
7,375.0	1.40	289.70	7,361.3	-21.6	235.5	0.28	0.00	-11.35	50.2	-6.7
7,565.0	1.40	283.90	7,551.2	-20.2	231.1	0.07	0.00	-3.05	46.0	-1.9
7,685.8	1.26	275.67	7,672.0	-19.7	228.3	0.19	-0.11	-6.81	43.0	4.5
Brushy Top(Ant 14 FC #702H)										
7,756.0	1.20	270.10	7,742.2	-19.7	226.8	0.19	-0.09	-7.93	40.8	8.6
7,947.0	1.20	247.10	7,933.1	-20.4	223.0	0.25	0.00	-12.04	30.4	23.1
8,138.0	1.00	231.10	8,124.1	-22.3	219.8	0.19	-0.10	-8.38	19.2	30.0
8,329.0	1.00	213.10	8,315.1	-24.7	217.6	0.16	0.00	-9.42	5.8	34.0
8,519.0	0.90	222.70	8,505.0	-27.2	215.7	0.10	-0.05	5.05	8.2	32.8
8,710.0	1.20	212.10	8,696.0	-30.0	213.6	0.19	0.16	-5.55	-1.4	33.5
8,901.0	1.50	209.10	8,887.0	-33.9	211.3	0.16	0.16	-1.57	-7.7	33.3
9,091.0	1.90	271.60	9,076.9	-36.0	207.0	0.95	0.21	32.89	21.7	24.4



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 22' @ 3383.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,282.0	1.70	272.30	9,267.8	-35.8	201.0	0.11	-0.10	0.37	16.0	24.1
9,473.0	1.00	264.50	9,458.7	-35.8	196.5	0.38	-0.37	-4.08	8.1	25.7
9,663.0	1.90	250.60	9,648.7	-37.0	191.9	0.51	0.47	-7.32	-3.1	26.5
9,759.0	0.90	314.50	9,744.7	-37.0	189.8	1.78	-1.04	66.56	21.0	15.9
9,854.0	1.90	342.10	9,839.6	-35.0	188.8	1.24	1.05	29.05	23.7	4.7
10,045.0	1.50	315.30	10,030.5	-30.2	186.1	0.46	-0.21	-14.03	13.7	13.4
10,140.0	2.00	345.60	10,125.5	-27.7	184.8	1.09	0.53	31.89	15.9	5.3
10,235.0	1.80	353.80	10,220.5	-24.6	184.2	0.35	-0.21	8.63	13.3	3.2
10,331.0	1.90	0.30	10,316.4	-21.5	184.1	0.24	0.10	6.77	10.5	1.9
10,426.0	1.00	346.00	10,411.4	-19.1	183.9	1.01	-0.95	-15.05	7.4	4.0
10,521.0	0.80	327.20	10,506.4	-17.8	183.3	0.37	-0.21	-19.79	4.2	5.9
10,617.0	0.60	262.40	10,602.4	-17.3	182.4	0.80	-0.21	-67.50	-4.4	5.8
10,808.0	1.60	179.80	10,793.3	-20.1	181.5	0.86	0.52	-43.25	-9.1	-4.6
10,998.0	1.20	194.80	10,983.3	-24.7	181.0	0.28	-0.21	7.89	-14.5	-1.4
11,189.0	2.30	229.70	11,174.2	-29.1	177.5	0.78	0.58	18.27	-18.1	8.3
11,380.0	2.50	227.40	11,365.0	-34.4	171.5	0.12	0.10	-1.20	-26.5	7.4
11,571.0	3.40	211.70	11,555.8	-42.0	165.5	0.63	0.47	-8.22	-37.2	-1.1
11,725.0	0.10	320.40	11,709.7	-45.8	163.0	2.23	-2.14	70.58	12.2	39.9
11,869.0	1.10	34.20	11,853.7	-44.6	163.7	0.75	0.69	51.25	40.3	-0.4
11,900.0	2.44	198.70	11,884.7	-44.9	163.7	11.35	4.34	530.66	-39.3	-10.3
KOP, MD:11900.0, TVD:11884.7, N/S:-44.9, E/W:163.7, INC:2.44										
11,964.0	9.70	202.30	11,948.3	-51.2	161.2	11.35	11.34	5.62	-46.6	-7.8
12,060.0	16.10	174.50	12,041.9	-72.0	159.4	9.11	6.67	-28.96	-58.1	-33.9
12,117.8	17.15	131.02	12,097.4	-85.6	166.6	21.13	1.82	-75.27	-34.0	-76.1
Interp @ 12116.7 (#702H OH Bring Back)										
12,155.0	21.70	111.50	12,132.6	-91.8	177.2	21.13	12.21	-52.43	-17.1	-92.4
12,250.0	25.20	60.70	12,220.6	-88.3	211.5	20.96	3.68	-53.47	45.5	-108.7



EOG Resources
Midland PVA

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Wellbore:	.OH	Survey Calculation Method:	Minimum Curvature
Design:	.OH	Database:	EDM

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)
12,331.6	32.24	20.15	12,292.8	-59.0	234.4	24.87	8.62	-49.69	98.2	-81.7
LL Crossing, MD:12331.6, TVD:12292.8, N/S:-59.0, E/W:234.4, INC:32.24										
12,346.0	34.50	15.10	12,304.8	-51.5	236.8	24.87	15.72	-35.07	102.9	-76.0
12,441.0	42.20	352.90	12,379.6	6.5	239.9	16.51	8.11	-23.37	115.7	-43.7
12,488.8	51.48	350.12	12,412.2	41.0	234.6	19.88	19.42	-5.82	111.6	-36.2
FTP Crossing, MD:12488.8, TVD:12412.2, N/S:41.0, E/W:234.6, INC:51.48										
12,536.0	60.70	348.00	12,438.5	79.4	227.2	19.88	19.53	-4.48	103.0	-28.7
FTP(Ant 14 FC #702H)										
12,597.0	76.60	348.40	12,460.7	134.8	215.6	26.07	26.07	0.66	82.7	-23.0
12,644.0	80.30	356.10	12,470.1	180.4	209.4	17.87	7.87	16.38	62.4	-24.6
12,739.0	85.00	356.50	12,482.3	274.4	203.3	4.96	4.95	0.42	30.0	-19.6
12,834.0	85.50	356.90	12,490.1	368.9	197.9	0.67	0.53	0.42	10.1	-14.7
12,929.0	88.00	357.10	12,495.5	463.6	192.9	2.64	2.63	0.21	5.6	-10.5
13,025.0	88.30	357.40	12,498.6	559.5	188.3	0.44	0.31	0.31	8.6	-6.6
13,120.0	89.80	358.90	12,500.2	654.4	185.3	2.23	1.58	1.58	10.2	-4.2
13,215.0	88.00	355.10	12,502.0	749.2	180.3	4.43	-1.89	-4.00	12.0	0.0
13,341.0	88.90	353.50	12,505.4	874.5	167.8	1.46	0.71	-1.27	15.5	11.6
13,406.0	91.70	354.70	12,505.1	939.2	161.1	4.69	4.31	1.85	15.2	17.7
13,525.0	92.30	359.70	12,500.9	1,057.9	155.3	4.23	0.50	4.20	10.9	22.7
13,597.0	92.90	0.10	12,497.7	1,129.9	155.2	1.00	0.83	0.56	7.7	22.3
13,693.0	92.60	0.90	12,493.0	1,225.7	156.0	0.89	-0.31	0.83	3.0	20.8
13,788.0	92.40	2.30	12,488.9	1,320.6	158.7	1.49	-0.21	1.47	-1.1	17.4
13,883.0	90.20	2.60	12,486.7	1,415.5	162.7	2.34	-2.32	0.32	-3.2	12.6
13,979.0	89.40	3.80	12,487.1	1,511.3	168.1	1.50	-0.83	1.25	-2.9	6.5
14,074.0	87.70	5.10	12,489.5	1,606.0	175.4	2.25	-1.79	1.37	-0.5	-1.5
14,169.0	87.70	1.00	12,493.3	1,700.8	180.5	4.31	0.00	-4.32	3.3	-7.3
14,265.0	90.70	1.30	12,494.6	1,796.8	182.4	3.14	3.12	0.31	4.7	-9.9



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 22' @ 3383.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
14,360.0	88.30	0.80	12,495.5	1,891.7	184.2	2.58	-2.53	-0.53	5.5	-12.4
14,455.0	88.40	1.50	12,498.2	1,986.7	186.1	0.74	0.11	0.74	8.2	-15.0
14,551.0	91.50	2.30	12,498.3	2,082.6	189.3	3.33	3.23	0.83	8.3	-18.9
14,628.5	90.76	1.09	12,496.8	2,160.1	191.5	1.83	-0.96	-1.57	6.8	-21.8
TGT#1(Ant 14 FC #702H)										
14,666.0	90.40	0.50	12,496.4	2,197.5	192.1	1.83	-0.96	-1.56	6.5	-22.6
14,741.0	92.40	0.50	12,494.6	2,272.5	192.7	2.67	2.67	0.00	5.0	-23.8
14,837.0	92.40	355.30	12,490.5	2,368.3	189.2	5.41	0.00	-5.42	1.3	-21.0
14,950.0	89.90	351.90	12,488.3	2,480.6	176.6	3.73	-2.21	-3.01	-0.4	-9.2
15,027.0	89.80	351.50	12,488.5	2,556.8	165.5	0.54	-0.13	-0.52	0.1	1.3
15,123.0	88.80	349.90	12,489.6	2,651.5	150.0	1.97	-1.04	-1.67	1.6	16.1
15,218.0	89.90	354.50	12,490.7	2,745.6	137.1	4.98	1.16	4.84	3.1	28.3
15,314.0	91.50	356.40	12,489.5	2,841.3	129.5	2.59	1.67	1.98	2.4	35.2
15,409.0	92.00	359.90	12,486.6	2,936.2	126.4	3.72	0.53	3.68	-0.2	37.6
15,550.0	88.80	356.40	12,485.7	3,077.0	121.9	3.36	-2.27	-2.48	-0.6	41.1
15,625.0	91.80	359.50	12,485.3	3,152.0	119.2	5.75	4.00	4.13	-0.6	43.2
15,720.0	95.70	3.00	12,479.0	3,246.7	121.2	5.51	4.11	3.68	-6.7	40.4
15,815.0	92.00	4.20	12,472.7	3,341.3	127.2	4.09	-3.89	1.26	-12.5	33.7
15,838.6	91.31	4.03	12,472.0	3,364.8	128.9	3.01	-2.92	-0.73	-13.1	31.9
TGT#2(Ant 14 FC #702H)										
15,911.0	89.20	3.50	12,471.7	3,437.1	133.6	3.01	-2.92	-0.73	-12.9	26.6
16,006.0	89.00	356.00	12,473.2	3,532.0	133.2	7.90	-0.21	-7.89	-10.8	26.3
16,102.0	87.70	359.70	12,475.9	3,627.9	129.6	4.08	-1.35	3.85	-7.3	29.2
16,197.0	86.20	1.10	12,481.0	3,722.7	130.3	2.16	-1.58	1.47	-1.6	27.8
16,292.0	87.30	0.60	12,486.4	3,817.6	131.7	1.27	1.16	-0.53	4.4	25.7
16,388.0	88.00	0.90	12,490.3	3,913.5	132.9	0.79	0.73	0.31	9.0	23.7
16,483.0	91.70	3.30	12,490.5	4,008.4	136.4	4.64	3.89	2.53	9.8	19.6



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 22' @ 3383.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
16,578.0	89.00	2.00	12,490.0	4,103.3	140.8	3.15	-2.84	-1.37	9.9	14.4
16,587.0	88.98	1.97	12,490.1	4,112.3	141.1	0.38	-0.21	-0.31	10.1	14.1
TGT#3(Ant 14 FC #702H)										
16,674.0	88.80	1.70	12,491.8	4,199.2	143.9	0.38	-0.21	-0.31	11.9	10.6
16,769.0	90.20	3.20	12,492.6	4,294.1	148.0	2.16	1.47	1.58	12.7	5.8
16,864.0	89.20	1.80	12,493.1	4,389.0	152.1	1.81	-1.05	-1.47	13.2	1.0
16,960.0	89.10	359.50	12,494.6	4,485.0	153.2	2.40	-0.10	-2.40	14.6	-0.8
17,151.0	87.60	359.50	12,500.1	4,675.9	151.5	0.79	-0.79	0.00	20.1	-0.6
17,246.0	87.60	357.40	12,504.0	4,770.8	149.0	2.21	0.00	-2.21	24.1	1.3
17,342.0	90.90	357.40	12,505.3	4,866.6	144.6	3.44	3.44	0.00	25.3	4.9
17,437.0	89.70	355.20	12,504.8	4,961.4	138.5	2.64	-1.26	-2.32	24.8	10.3
17,532.0	91.30	355.90	12,504.0	5,056.1	131.1	1.84	1.68	0.74	24.0	17.0
17,628.0	92.20	358.80	12,501.0	5,152.0	126.7	3.16	0.94	3.02	21.1	20.7
17,723.0	91.00	359.40	12,498.4	5,246.9	125.2	1.41	-1.26	0.63	18.4	21.5
17,914.0	89.40	359.70	12,497.7	5,437.9	123.7	0.85	-0.84	0.16	17.7	21.6
18,009.0	88.90	1.30	12,499.1	5,532.9	124.5	1.76	-0.53	1.68	19.2	20.0
18,200.0	90.80	6.20	12,499.6	5,723.4	137.0	2.75	0.99	2.57	19.7	6.1
18,295.0	86.60	3.10	12,501.8	5,818.1	144.7	5.49	-4.42	-3.26	21.8	-2.3
18,391.0	90.90	0.30	12,503.9	5,914.0	147.6	5.34	4.48	-2.92	23.9	-5.8
18,486.0	88.50	359.80	12,504.4	6,009.0	147.6	2.58	-2.53	-0.53	24.4	-6.6
18,503.9	88.27	359.01	12,504.9	6,026.8	147.5	4.60	-1.27	-4.42	24.9	-6.6
TGT#4(Ant 14 FC #702H)										
18,581.0	87.30	355.60	12,507.9	6,103.8	143.8	4.60	-1.26	-4.42	27.6	-3.5
18,677.0	89.60	355.40	12,510.5	6,199.5	136.3	2.40	2.40	-0.21	29.8	3.3
18,867.0	90.00	2.50	12,511.1	6,389.3	132.8	3.74	0.21	3.74	29.7	5.3
18,963.0	90.40	1.00	12,510.8	6,485.3	135.8	1.62	0.42	-1.56	28.9	1.7
19,058.0	86.20	359.80	12,513.6	6,580.2	136.4	4.60	-4.42	-1.26	31.4	0.3



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3383.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 22' @ 3383.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
19,153.0	92.90	2.40	12,514.3	6,675.1	138.2	7.56	7.05	2.74	31.7	-2.2
19,247.0	89.90	0.50	12,512.1	6,769.0	140.6	3.78	-3.19	-2.02	29.1	-5.3
19,342.0	89.40	359.90	12,512.6	6,864.0	141.0	0.82	-0.53	-0.63	29.3	-6.3
19,437.0	88.30	357.70	12,514.5	6,959.0	139.0	2.59	-1.16	-2.32	30.8	-5.0
19,628.0	88.00	358.00	12,520.7	7,149.7	131.8	0.22	-0.16	0.16	36.2	0.7
19,723.0	89.60	358.40	12,522.7	7,244.7	128.8	1.74	1.68	0.42	37.8	3.0
19,743.7	90.26	358.29	12,522.7	7,265.4	128.2	3.20	3.16	-0.53	37.7	3.4
TGT#5(Ant 14 FC #702H)										
19,818.0	92.60	357.90	12,520.9	7,339.6	125.8	3.20	3.16	-0.53	36.4	5.3
19,914.0	91.60	358.00	12,517.4	7,435.5	122.3	1.05	-1.04	0.10	33.9	8.0
20,009.0	93.10	358.10	12,513.5	7,530.3	119.1	1.58	1.58	0.11	31.0	10.6
Last MWD Survey (MD=20009.0)										
20,057.0	93.10	358.10	12,510.9	7,578.2	117.5	0.00	0.00	0.00	29.0	11.8
Projection to Bit (MD=20057.0) - PBHL(Ant 14 FC #702H)										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
11,900.0	11,884.7	-44.9	163.7	KOP, MD:11900.0', TVD:11884.7', N/S:-44.9', E/W:163.7', INC:2.44
12,331.6	12,292.8	-59.0	234.4	LL Crossing, MD:12331.6', TVD:12292.8', N/S:-59.0', E/W:234.4', INC:32.24
12,488.8	12,412.2	41.0	234.6	FTP Crossing, MD:12488.8', TVD:12412.2', N/S:41.0', E/W:234.6', INC:51.48
20,009.0	12,513.5	7,530.3	119.1	Last MWD Survey (MD=20009.0')
20,057.0	12,510.9	7,578.2	117.5	Projection to Bit (MD=20057.0')

Checked By: _____ Approved By: _____ Date: _____

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


 Signed _____ Date 10/15/2020



Lea County, NM (NAD 83 NME)

Antero 14 Fed Com #702H

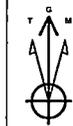
Plan #1

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

WELL DETAILS: #702H

KB = 22' @ 3383.0usft 3361.0
 Northing 412174.00 Easting 783954.00 Latitude 32° 7' 50.568 N Longitude 103° 32' 59.321 W



Azimuths to Grid North
 True North: -0.42°
 Magnetic North: 6.23°
 Magnetic Field Strength: 47615.1nT
 Dip Angle: 69.95°
 Date: 2/3/2020
 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°

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	2700.0	4.00	93.38	2699.8	-0.4	7.0	2.00	93.38	-0.3	
4	5171.4	4.00	93.38	5165.2	-10.6	179.0	0.00	0.00	-7.6	
5	5371.3	0.00	0.00	5365.0	-11.0	186.0	2.00	180.00	-7.9	
6	12018.8	0.00	0.00	12012.5	-11.0	186.0	0.00	0.00	-7.9	
7	12768.8	90.00	359.57	12490.0	466.4	182.4	12.00	359.57	469.4	
8	14462.9	90.00	359.57	12490.0	2160.5	169.8	0.00	0.00	2163.0	TGT#1(Ant 14 FC #702H)
9	14475.0	90.24	359.57	12490.0	2172.5	169.7	2.00	0.00	2175.0	
10	15665.3	90.24	359.57	12485.0	3362.8	160.8	0.00	0.00	3365.0	TGT#2(Ant 14 FC #702H)
11	15672.5	90.38	359.57	12485.0	3370.0	160.7	2.00	0.00	3372.2	
12	16414.5	90.38	359.57	12480.0	4112.0	155.2	0.00	0.00	4114.0	TGT#3(Ant 14 FC #702H)
13	16433.8	90.00	359.57	12479.9	4131.2	155.1	2.00	180.00	4133.2	
14	18330.1	90.00	359.57	12480.0	6027.5	140.9	0.00	0.00	6029.0	TGT#4(Ant 14 FC #702H)
15	18341.6	89.77	359.57	12480.0	6039.0	140.8	2.00	-180.00	6040.5	
16	19567.4	89.77	359.57	12485.0	7284.8	131.6	0.00	0.00	7286.0	TGT#5(Ant 14 FC #702H)
17	19510.3	90.63	359.57	12484.9	7307.7	131.3	2.00	0.00	7308.9	
18	20084.7	90.63	359.57	12480.0	7762.0	128.0	0.00	0.00	7763.1	PBHL(Ant 14 FC #702H)

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 #702H)	7671.0	-11.0	168.0	412163.00	784150.00
PBHL(Ant 14 FC #702H)	12480.0	7752.0	128.0	419926.00	784092.00
TGT#1(Ant 14 FC #702H)	12480.0	4112.0	155.2	415255.00	784119.30
TGT#2(Ant 14 FC #702H)	12480.0	6027.5	140.9	418201.50	784104.89
TGT#3(Ant 14 FC #702H)	12485.0	3362.8	159.8	416536.80	784124.79
TGT#4(Ant 14 FC #702H)	12485.0	7284.8	131.6	419438.80	784095.54
FTP(Ant 14 FC #702H)	12490.0	41.0	168.0	412215.00	784150.00
TGT#5(Ant 14 FC #702H)	12490.0	2160.5	169.8	414334.60	784133.78

