

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

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46525	² Pool Code 98094	³ Pool Name BOBCAT DRAW; UPPER WOLF CAMP KZ
⁴ Property Code 326481	⁵ Property Name ANTERO 14 FED COM	⁶ Well Number #705H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3357'

¹⁰Surface Location

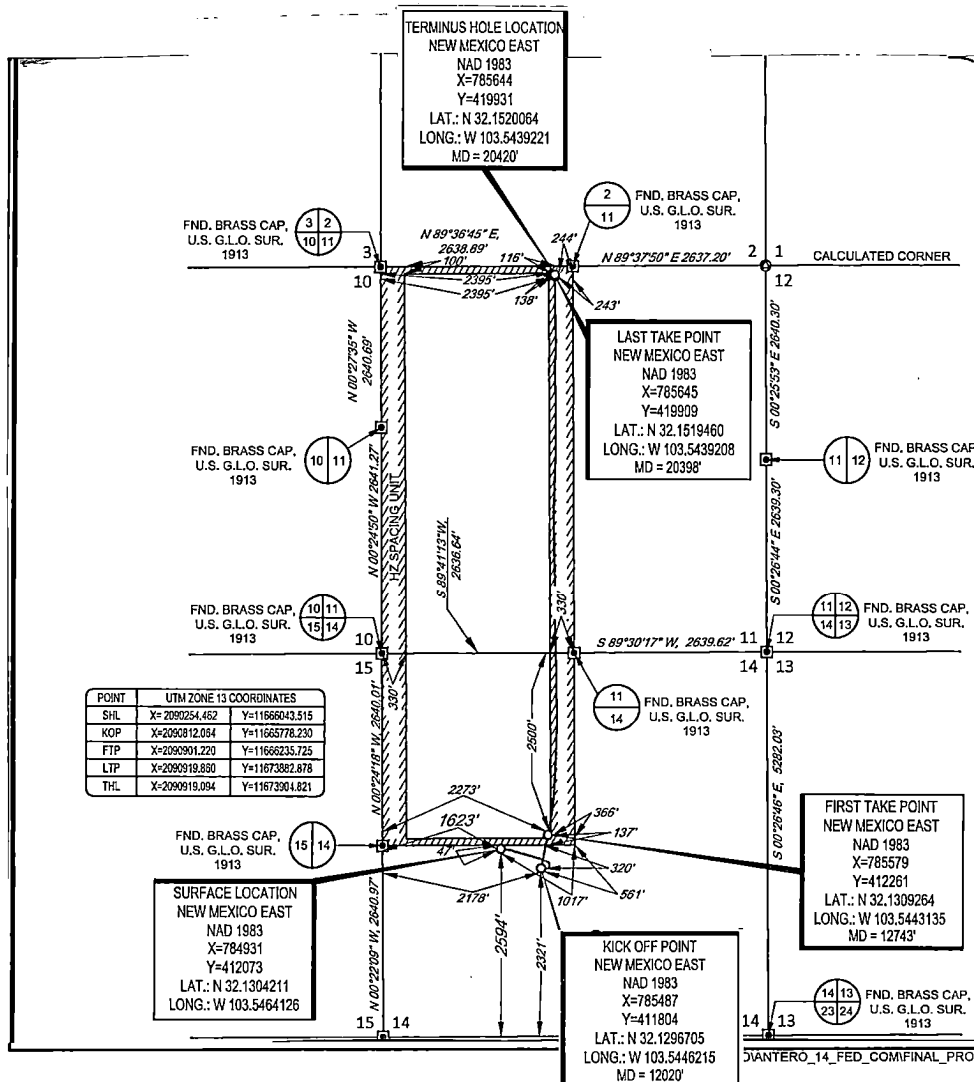
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	14	25-S	33-E	-	2594'	SOUTH	1623'	WEST	LEA

¹¹Bottom 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	-	116'	NORTH	2395'	WEST	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

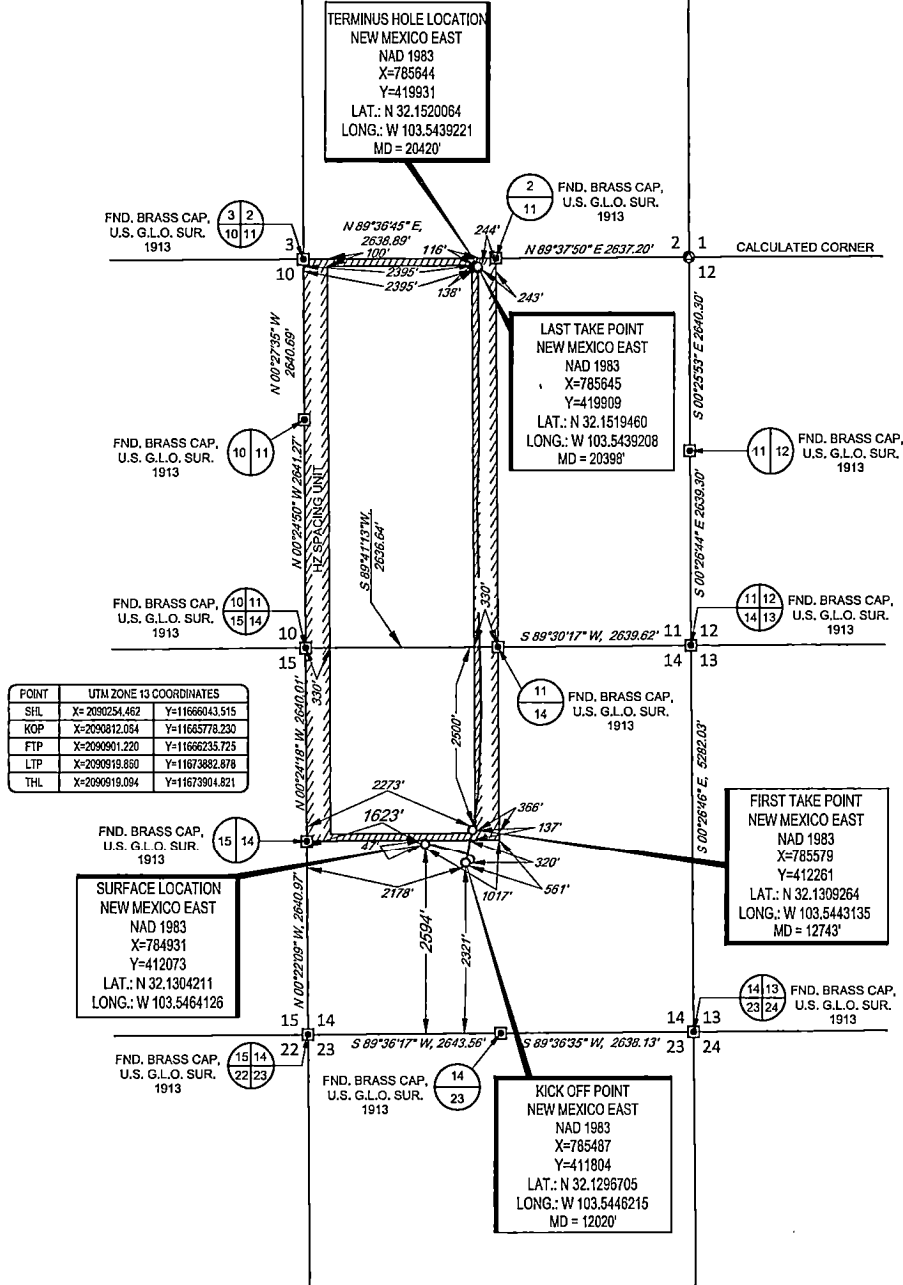
¹⁸SURVEYOR CERTIFICATION

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

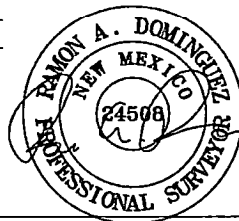
SCALE: 1" = 2000'
0' 1000' 2000'

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



LEASE NAME & WELL NO.: ANTERO 14 FED COM #705H
SECTION 14 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3357'
DESCRIPTION 2594' FSL & 1623' FWL

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 145 • 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 12, 2020

eo resources, inc.

ANTERO 14 FED COM #705H AS-COMPLETE	REVISION:
DATE: 05/12/2020	
FILE: AD_ANTERO_14_FED_COM_705H	
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.



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Antero 14 Fed Com

#705H

OH

Design: OH

Midland PVA

19 February, 2020



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	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
From:	Map	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 #705H			
Well Position	+N-S 0.0 usft	Northing:	412,073.00 usft
	+E-W 0.0 usft	Easting:	784,931.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 7' 49.518 N
		Longitude:	103° 32' 47.085 W
		Ground Level:	3,357.0 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/28/2020	6.64	59.94	47,608.25511572

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	5.09	

Survey Program Date 2/19/2020					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
199.0	20,420.0	Drilltech MWD (OH)	EOG MWD+IFR1	MWD + IFR1	

Type text here



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	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	0.0
199.0	0.88	287.12	199.0	0.4	-1.5	0.44	0.44	0.00	-1.5	0.0	
377.0	0.97	292.30	377.0	1.4	-4.2	0.07	0.05	2.91	-4.4	0.3	
464.0	0.88	297.66	464.0	2.0	-5.4	0.14	-0.10	6.16	-5.7	0.7	
551.0	0.97	299.33	550.9	2.7	-6.7	0.11	0.10	1.92	-7.1	0.9	
650.0	0.97	306.45	649.9	3.6	-8.1	0.12	0.00	7.19	-8.6	1.9	
745.0	0.79	309.44	744.9	4.5	-9.2	0.20	-0.19	3.15	-10.0	2.4	
841.0	1.06	303.29	840.9	5.4	-10.5	0.30	0.28	-6.41	-11.7	1.2	
936.0	0.97	309.18	935.9	6.4	-11.8	0.14	-0.09	6.20	-13.2	2.5	
1,127.0	0.62	278.06	1,126.9	7.6	-14.1	0.28	-0.18	-16.29	-15.0	-5.5	
1,229.0	0.44	270.15	1,228.9	7.6	-15.1	0.19	-0.18	-7.75	-15.2	-7.6	
1,325.0	1.93	94.11	1,324.9	7.5	-13.8	2.47	1.55	-183.37	16.9	7.2	
1,421.0	5.10	103.86	1,420.7	6.4	-8.0	3.35	3.30	10.16	17.8	5.0	
1,517.0	5.19	115.03	1,516.3	3.5	0.0	1.05	0.09	11.64	18.7	1.4	
1,612.0	5.63	110.72	1,610.9	0.1	8.3	0.63	0.46	-4.54	19.6	2.2	
1,708.0	6.33	92.70	1,706.3	-1.9	18.0	2.08	0.73	-18.77	17.8	9.5	
1,804.0	8.09	100.00	1,801.6	-3.3	29.9	2.06	1.83	7.60	16.7	9.4	
1,899.0	9.50	101.23	1,895.5	-6.0	44.2	1.50	1.48	1.29	12.2	10.6	
1,995.0	9.85	97.98	1,990.1	-8.7	60.1	0.68	0.36	-3.39	5.3	12.7	
2,091.0	9.50	100.44	2,084.7	-11.2	76.0	0.56	-0.36	2.56	-0.4	14.3	
2,187.0	9.41	100.70	2,179.4	-14.1	91.5	0.10	-0.09	0.27	-6.3	15.8	
2,283.0	9.23	98.59	2,274.2	-16.7	106.8	0.40	-0.19	-2.20	-12.6	17.1	
2,379.0	9.41	97.71	2,368.9	-18.9	122.2	0.24	0.19	-0.92	-18.6	18.8	
2,475.0	10.29	106.85	2,463.5	-22.5	138.2	1.87	0.92	9.52	-21.7	23.2	
2,571.0	10.55	108.43	2,557.9	-27.7	154.8	0.40	0.27	1.65	-28.5	24.1	
2,667.0	10.73	106.85	2,652.2	-33.1	171.6	0.36	0.19	-1.65	-36.9	23.5	
2,762.0	10.90	106.59	2,745.6	-38.2	188.7	0.19	0.18	-0.27	-45.0	23.7	



EOG Resources
Midland PVA

Company:	EOG Resources - Midland
Project:	Lea County, NM (NAD 83 NME)
Site:	Antero 14 Fed Com
Well:	#705H
Wellbore:	OH
Design:	OH
Local Co-ordinate Reference:	Well #705H
TVD Reference:	KB = 25 @ 3382.0usft
MD Reference:	KB = 25 @ 3382.0usft
North Reference:	Gtd
Survey Calculation Method:	Minimum Curvature
Database:	EDM

Survey	MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EMV (usft)	Dleg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
	2,858.0	10.99	107.03	2,839.8	-43.5	206.2	0.13	0.09	0.46	-53.1	24.5
	3,050.0	10.73	104.66	3,028.4	-53.4	241.0	0.27	-0.14	-1.23	-70.4	23.1
	3,241.0	10.82	101.58	3,216.0	-61.5	275.7	0.31	0.05	-1.61	-87.5	20.9
	3,337.0	11.43	101.49	3,310.2	-65.2	293.9	0.64	0.64	-0.09	-86.2	22.1
	3,433.0	11.70	111.34	3,404.3	-70.6	312.3	2.07	0.28	10.26	-100.2	39.5
	3,528.0	11.87	108.70	3,497.3	-77.3	330.5	0.60	0.18	-2.78	-111.5	34.5
	3,624.0	10.82	107.20	3,591.4	-83.1	348.4	1.14	-1.09	-1.56	-121.3	31.6
	3,720.0	9.76	107.82	3,685.8	-88.3	364.8	1.11	-1.10	0.65	-128.2	33.1
	3,816.0	9.67	105.01	3,780.5	-92.8	380.3	0.50	-0.09	-2.93	-135.9	27.2
	3,911.0	9.50	103.42	3,874.1	-96.7	395.7	0.33	-0.18	-1.67	-142.6	24.1
	4,007.0	8.71	102.28	3,968.9	-100.1	410.5	0.84	-0.82	-1.19	-148.3	22.3
	4,103.0	8.00	100.88	4,063.9	-102.9	424.1	0.77	-0.74	-1.46	-152.8	20.0
	4,198.0	6.95	101.93	4,158.1	-105.3	436.3	1.11	-1.11	1.11	-155.0	24.1
	4,293.0	9.15	110.63	4,252.2	-109.2	449.0	2.64	2.32	9.16	-152.9	47.8
	4,389.0	10.90	108.52	4,346.7	-114.8	464.7	1.86	1.82	-2.20	-161.3	42.1
	4,485.0	11.17	106.24	4,440.9	-120.3	482.2	0.53	0.28	-2.37	-171.2	35.8
	4,581.0	10.20	103.60	4,535.3	-124.9	499.4	1.13	-1.01	-2.75	-180.6	28.4
	4,677.0	9.94	104.92	4,629.8	-129.0	515.7	0.36	-0.27	1.37	-186.7	33.4
	4,772.0	10.55	106.94	4,723.3	-133.6	531.9	0.75	0.64	2.13	-192.5	40.6
	4,868.0	11.08	107.73	4,817.6	-139.0	549.1	0.57	0.55	0.82	-199.9	43.7
	4,964.0	9.76	110.28	4,912.0	-144.6	565.5	1.46	-1.37	2.66	-205.2	52.6
	5,060.0	9.06	111.69	5,006.7	-150.2	580.2	0.77	-0.73	1.47	-209.6	57.3
	5,156.0	8.27	113.44	5,101.6	-155.8	593.6	0.87	-0.82	1.82	-212.3	63.1
	5,252.0	8.44	112.48	5,196.6	-161.2	606.4	0.23	0.18	-1.00	-217.2	58.9
	5,348.0	7.91	115.29	5,291.6	-166.7	618.9	0.69	-0.55	2.93	-217.8	68.6
	5,444.0	6.51	116.61	5,386.8	-172.0	629.7	1.47	-1.46	1.37	-218.3	72.4
	5,539.0	6.24	110.28	5,481.2	-176.2	639.4	0.79	-0.28	-6.66	-225.5	47.2



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	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)
5,635.0	4.84	112.13	5,576.8	-179.5	648.0	1.47	-1.46	1.93	-223.1	54.1
5,731.0	4.22	123.73	5,672.5	-183.0	654.7	1.15	-0.65	12.08	-205.6	95.9
5,827.0	2.81	133.57	5,768.3	-186.6	659.4	1.59	-1.47	10.25	-182.8	126.1
5,923.0	1.41	161.34	5,864.2	-189.3	661.4	1.77	-1.46	28.93	-100.1	189.9
6,019.0	1.49	172.42	5,960.2	-191.7	662.0	0.30	0.08	11.54	-59.7	196.9
6,114.0	1.32	162.58	6,055.2	-194.0	662.5	0.31	-0.18	-10.36	-88.8	175.6
6,210.0	1.06	158.53	6,151.2	-195.9	663.1	0.28	-0.27	-4.22	-96.4	161.3
6,306.0	1.06	154.23	6,247.1	-197.5	663.8	0.08	0.00	-4.48	-102.8	146.4
6,401.0	0.97	145.52	6,342.1	-198.9	664.7	0.19	-0.09	-9.17	-117.5	123.1
6,497.0	0.88	139.81	6,438.1	-200.2	665.6	0.13	-0.09	-5.95	-122.0	105.7
6,593.0	0.70	151.59	6,534.1	-201.2	666.4	0.25	-0.19	12.27	-91.8	121.7
6,689.0	0.70	153.35	6,630.1	-202.3	666.9	0.02	0.00	1.83	-82.0	117.5
6,785.0	0.62	157.92	6,726.1	-203.3	667.4	0.10	-0.08	4.76	-66.9	116.2
6,880.0	0.53	164.16	6,821.1	-204.2	667.7	0.12	-0.09	6.57	-49.1	114.7
6,976.0	0.62	163.81	6,917.1	-205.1	668.0	0.09	0.09	-0.36	-45.0	106.2
7,072.0	0.44	175.58	7,013.1	-206.0	668.1	0.22	-0.19	12.26	-19.2	104.0
7,168.0	0.53	164.16	7,109.1	-208.8	668.3	0.14	0.09	-11.90	-35.5	91.2
7,264.0	0.70	161.96	7,205.1	-207.8	668.6	0.18	0.18	-2.29	-36.8	85.5
7,359.0	0.97	161.08	7,300.1	-209.1	669.0	0.28	0.28	-0.93	-38.1	83.2
7,455.0	1.06	169.78	7,396.1	-210.7	669.4	0.19	0.09	9.06	-26.8	88.1
7,551.0	1.06	174.97	7,492.0	-212.5	669.7	0.10	0.00	5.41	-20.5	90.2
7,647.0	1.23	177.25	7,588.0	-214.4	669.8	0.18	0.18	2.37	-18.8	91.0
7,743.0	0.97	199.49	7,684.0	-216.2	669.6	0.52	-0.27	23.17	15.3	91.7
7,754.2	1.00	198.50	7,695.2	-216.4	669.5	0.30	0.26	-8.88	13.5	92.0
Brushty Top(Ant 14 FC #705H)										
7,839.0	1.23	192.55	7,780.0	-218.0	669.1	0.30	0.27	-7.01	2.3	92.8
7,935.0	1.14	201.77	7,876.0	-219.8	668.5	0.22	-0.09	9.60	15.1	91.4

RE



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	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)
8,031.0	1.23	195.18	7,971.9	-221.7	667.9	0.17	0.09	-6.86	2.6	92.4
8,126.0	1.49	187.89	8,066.9	-223.9	667.5	0.33	0.27	-7.67	-11.4	91.9
8,318.0	1.49	173.47	8,258.8	-228.9	667.4	0.19	0.00	-7.51	-38.9	85.5
8,414.0	1.49	175.76	8,354.8	-231.4	667.6	0.06	0.00	2.39	-37.9	87.1
8,509.0	1.49	181.56	8,449.8	-233.8	667.7	0.16	0.00	6.11	-31.4	90.6
8,605.0	1.58	185.08	8,545.7	-236.4	667.5	0.14	0.09	3.67	-28.3	92.4
8,701.0	1.76	186.13	8,641.7	-239.2	667.3	0.19	0.19	1.09	-29.4	92.9
8,797.0	1.67	158.97	8,737.7	-242.0	667.6	0.84	-0.09	-28.29	-71.3	68.6
8,893.0	1.76	177.89	8,833.6	-244.7	668.2	0.59	0.09	19.50	-48.3	88.3
8,988.0	1.67	187.62	8,928.6	-247.6	668.0	0.33	-0.09	10.45	-35.2	95.6
9,180.0	1.58	203.80	9,120.5	-252.8	666.6	0.24	-0.05	8.43	-12.5	102.4
9,276.0	1.49	214.43	9,216.5	-255.0	665.4	0.31	-0.09	11.07	4.0	103.2
9,372.0	1.41	223.92	9,312.4	-256.9	663.8	0.26	-0.08	9.89	18.6	101.3
9,467.0	1.41	212.76	9,407.4	-258.7	662.4	0.29	0.00	-11.75	-3.7	102.7
9,614.0	1.93	203.44	9,554.4	-262.5	660.4	0.40	0.35	-6.34	-24.5	100.5
9,659.0	1.93	204.06	9,599.3	-263.9	659.8	0.05	0.00	1.38	-25.0	100.8
9,755.0	1.93	204.41	9,695.3	-266.8	658.5	0.01	0.00	0.36	-27.6	100.9
9,851.0	2.73	233.88	9,791.2	-269.7	656.0	1.47	0.83	30.49	21.5	102.3
9,947.0	2.90	238.86	9,887.1	-272.3	652.1	0.32	0.18	5.40	26.0	100.2
10,043.0	2.37	261.28	9,983.0	-273.8	648.0	1.20	-0.55	23.35	58.0	83.6
10,138.0	2.11	275.34	10,077.9	-274.0	644.3	0.64	-0.27	14.80	72.9	67.5
10,234.0	2.90	275.25	10,173.8	-273.6	640.2	0.82	0.82	-0.09	68.6	67.6
10,330.0	2.99	272.26	10,269.7	-273.3	635.2	0.19	0.09	-3.11	60.0	71.0
10,426.0	3.43	307.24	10,365.5	-271.4	630.4	2.06	0.46	36.44	85.0	25.2
10,521.0	3.61	301.71	10,460.4	-268.1	625.6	0.40	0.19	-5.82	76.3	33.0
10,617.0	3.17	295.55	10,556.2	-265.4	620.7	0.59	-0.46	-6.42	66.7	40.6
10,713.0	3.17	293.09	10,652.1	-263.2	615.8	0.14	0.00	-2.56	59.6	43.3



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg. (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,809.0	2.81	275.51	10,747.9	-261.9	611.1	1.02	-0.37	-18.31	38.8	58.5
10,905.0	3.17	264.09	10,843.8	-262.0	606.1	0.72	0.37	-11.90	21.5	64.6
11,001.0	3.17	259.43	10,939.6	-262.7	600.8	0.27	0.00	-4.85	10.9	65.9
11,097.0	3.78	262.07	11,035.5	-263.7	595.1	0.66	0.64	2.75	8.1	65.4
11,193.0	3.61	262.86	11,131.3	-264.5	588.9	0.18	-0.18	0.82	2.8	65.3
11,288.0	3.87	267.78	11,226.1	-265.0	582.8	0.43	0.27	5.18	2.3	65.1
11,384.0	3.69	270.74	11,321.9	-265.1	576.5	0.28	-0.19	3.08	-0.7	65.1
11,480.0	3.52	268.40	11,417.7	-265.1	570.4	0.23	-0.18	-2.44	-9.4	64.9
11,571.0	1.58	253.37	11,508.5	-266.0	562.0	1.07	-1.02	-7.87	-34.2	58.7
11,751.0	1.23	266.64	11,688.4	-266.4	560.1	0.59	-0.44	16.59	-21.7	65.2
11,880.0	1.23	217.77	11,817.4	-267.6	557.9	0.79	0.00	-37.88	-65.7	25.5
11,975.0	1.76	207.75	11,912.4	-269.7	556.6	0.62	0.56	-10.55	-71.6	13.5
12,020.0	3.22	9.18	11,957.4	-269.0	556.5	10.94	3.25	358.74	71.6	10.3
KOP, MD:12020.0, TVD:11957.4, N/S:-269.0, E/W:556.5, INC:3.22										
12,071.0	8.79	13.34	12,008.1	-263.8	557.6	10.94	10.92	8.15	68.4	5.2
12,167.0	22.07	11.14	12,100.4	-238.9	562.8	13.84	13.83	-2.29	58.2	8.2
12,262.0	33.85	12.28	12,184.2	-195.4	571.9	12.41	12.40	1.20	44.6	8.3
12,358.0	45.55	11.40	12,257.9	-135.4	584.4	12.20	12.19	-0.92	28.2	10.6
12,453.0	51.44	10.61	12,320.8	-65.6	598.0	6.23	6.20	-0.83	15.1	13.7
12,549.0	59.88	10.88	12,374.9	12.2	612.7	8.79	8.79	0.28	8.5	17.8
12,645.0	71.14	12.72	12,414.7	97.5	630.6	11.86	11.73	1.92	4.5	20.8
12,701.9	79.66	10.77	12,429.0	151.4	641.8	15.34	14.98	-3.42	1.1	23.0
FTP Crossing, MD:12701.9, TVD:12429.0, N/S:151.4, E/W:641.8, INC:79.66										
12,724.9	83.11	10.02	12,432.4	173.7	645.9	15.34	15.00	-3.27	-0.8	24.4
FTP (Ant 14 FC #705H)										
12,740.0	85.38	9.53	12,434.0	188.6	648.5	15.34	15.00	-3.23	-2.1	25.5
12,836.0	87.67	8.82	12,439.8	283.2	663.7	2.50	2.39	-0.74	-3.6	33.5



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	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)
12,932.0	92.95	11.20	12,439.3	377.7	680.4	6.03	5.50	2.48	-3.4	37.2
13,028.0	88.20	8.12	12,438.3	472.3	696.5	5.90	-4.95	-3.21	-3.8	36.6
13,123.0	87.93	8.03	12,441.5	566.3	709.9	0.30	-0.28	-0.09	-0.1	33.8
13,219.0	89.16	6.01	12,443.9	661.5	721.6	2.46	1.28	-2.10	2.9	27.8
13,315.0	92.24	2.85	12,442.8	757.2	729.0	4.60	3.21	-3.29	2.1	21.4
13,411.0	94.44	3.37	12,437.2	852.9	734.2	2.35	2.29	0.54	-3.0	15.5
13,507.0	92.59	2.76	12,431.3	948.6	739.3	2.03	-1.93	-0.64	-8.3	9.7
13,602.0	90.13	3.72	12,429.0	1,043.4	744.7	2.78	-2.59	1.01	-10.0	3.6
13,698.0	88.90	1.88	12,429.8	1,139.2	749.4	2.31	-1.28	-1.92	-8.7	-1.7
13,794.0	89.16	0.30	12,431.5	1,235.2	751.2	1.67	0.27	-1.65	-6.5	-4.3
13,797.3	89.25	0.38	12,431.5	1,238.5	751.2	3.44	2.57	2.28	-6.5	-4.3
TGT#1(Ant 14 FC #705H)										
13,890.0	91.63	2.49	12,430.8	1,331.2	753.5	3.44	2.57	2.28	-6.8	-7.3
13,986.0	89.60	3.20	12,429.8	1,427.0	758.3	2.24	-2.11	0.74	-7.5	-12.7
14,082.0	89.87	0.56	12,430.2	1,523.0	761.4	2.76	0.28	-2.75	-6.7	-16.5
14,178.0	92.42	1.97	12,428.3	1,618.9	763.6	3.04	2.66	1.47	-8.3	-19.3
14,273.0	89.52	2.49	12,426.7	1,713.8	767.3	3.10	-3.05	0.55	-9.6	-23.7
14,369.0	86.79	358.80	12,429.8	1,809.7	768.3	4.78	-2.84	-3.84	-6.1	-25.5
14,465.0	89.43	358.54	12,433.0	1,905.7	766.1	2.76	2.75	-0.27	-2.6	-23.9
14,560.0	90.40	358.36	12,433.1	2,000.6	763.5	1.04	1.02	-0.19	-2.1	-22.0
14,656.0	93.47	359.15	12,429.9	2,096.5	761.5	3.30	3.20	0.82	-5.0	-20.6
14,752.0	90.92	0.12	12,426.2	2,192.5	760.9	2.84	-2.66	1.01	-8.3	-20.7
14,847.0	89.43	358.10	12,425.9	2,287.4	759.4	2.64	-1.57	-2.13	-8.2	-19.9
14,943.0	88.37	358.54	12,427.7	2,383.4	756.6	1.20	-1.10	0.46	-6.0	-17.8
15,039.0	89.25	358.19	12,429.7	2,479.3	753.8	0.99	0.92	-0.36	-3.7	-15.7
15,134.0	90.13	358.10	12,430.2	2,574.3	750.7	0.93	0.93	-0.09	-2.8	-13.3
15,230.0	89.96	358.54	12,430.2	2,670.2	747.9	0.49	-0.18	0.46	-2.6	-11.2



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	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)
15,248.9	90.17	358.47	12,430.1	2,689.1	747.4	1.15	1.09	-0.36	-2.5	-10.8
Fed Perf(Ant 14 FC #705H)										
15,326.0	91.01	358.19	12,429.3	2,766.2	745.2	1.15	1.09	-0.36	-3.0	-9.1
15,421.0	90.84	358.19	12,427.8	2,861.1	742.2	0.18	-0.18	0.00	-4.2	-6.8
15,517.0	91.80	358.37	12,425.6	2,957.0	739.3	1.02	1.00	0.19	-6.1	-4.6
15,612.0	92.42	358.45	12,422.1	3,051.9	736.7	0.66	0.65	0.08	-9.2	-2.6
15,708.0	91.36	358.37	12,418.9	3,147.9	734.0	1.11	-1.10	-0.08	-12.0	-0.6
15,804.0	90.48	359.51	12,417.4	3,243.8	732.2	1.50	-0.92	1.19	-13.2	0.5
15,899.0	90.75	359.68	12,416.4	3,339.8	731.6	0.34	0.28	0.18	-13.9	0.5
15,995.0	89.78	359.68	12,415.9	3,434.8	731.0	1.01	-1.01	0.00	-14.0	0.3
16,090.0	90.75	0.65	12,415.5	3,529.8	731.3	1.44	1.02	1.02	-14.1	-0.6
16,186.0	88.55	358.98	12,416.1	3,625.8	731.0	2.88	-2.29	-1.74	-13.1	-1.0
16,281.0	88.72	359.16	12,418.3	3,720.8	729.5	0.26	0.18	0.19	-10.5	-0.1
16,377.0	88.72	358.72	12,420.5	3,816.7	727.7	0.46	0.00	-0.46	-8.0	1.0
16,473.0	89.16	359.23	12,422.3	3,912.7	726.0	0.70	0.46	0.53	-5.9	2.0
16,511.3	89.31	359.09	12,422.8	3,951.0	725.4	0.53	0.38	-0.37	-5.2	2.3
TGT#2(Ant 14 FC #705H)										
16,568.0	89.52	358.88	12,423.4	4,007.7	724.4	0.53	0.38	-0.37	-4.7	2.9
16,664.0	89.96	358.62	12,423.8	4,103.6	722.3	0.53	0.46	-0.27	-4.3	4.3
16,759.0	90.57	358.80	12,423.4	4,198.6	720.2	0.67	0.64	0.19	-4.9	5.8
16,855.0	89.52	357.30	12,423.3	4,294.6	716.9	1.91	-1.09	-1.56	-5.1	8.4
16,951.0	91.80	359.06	12,422.2	4,390.5	713.9	3.00	2.37	1.83	-6.3	10.8
17,046.0	92.51	358.62	12,418.6	4,485.4	711.9	0.88	0.75	-0.46	-9.9	12.0
17,142.0	92.42	359.85	12,414.5	4,581.3	710.6	1.28	-0.09	1.28	-14.2	12.6
17,237.0	91.63	0.90	12,411.1	4,676.2	711.3	1.38	-0.83	1.11	-17.6	11.3
17,333.0	91.19	2.40	12,408.8	4,772.2	714.0	1.63	-0.46	1.56	-20.1	7.9
17,429.0	91.19	2.31	12,406.8	4,868.1	718.0	0.09	0.00	-0.09	-22.2	3.2



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Corn	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	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)
17,496.3	90.26	1.81	12,405.9	4,935.3	720.4	1.57	-1.39	-0.74	-23.1	0.3
TGT#3(Ant 14 FC #705H)										
17,524.0	89.87	1.61	12,405.9	4,963.0	721.2	1.57	-1.39	-0.74	-23.1	-0.7
17,620.0	89.52	1.52	12,406.4	5,059.0	723.8	0.38	-0.36	-0.09	-22.5	-4.0
17,715.0	88.02	1.61	12,408.4	5,153.9	726.4	1.58	-1.58	0.09	-20.3	-7.2
17,811.0	89.87	1.70	12,410.2	5,249.8	729.2	1.93	1.93	0.09	-18.4	-10.7
17,907.0	89.25	0.90	12,410.9	5,345.8	731.4	1.05	-0.65	-0.83	-17.6	-13.6
18,002.0	88.81	0.64	12,412.5	5,440.8	732.7	0.54	-0.46	-0.27	-15.9	-15.5
18,097.0	90.04	359.94	12,413.5	5,535.8	733.1	1.49	1.29	-0.74	-14.8	-16.7
18,193.0	91.10	0.29	12,412.5	5,631.8	733.3	1.16	1.10	0.36	-15.7	-17.5
18,289.0	91.10	0.20	12,410.7	5,727.8	733.8	0.09	0.00	-0.09	-17.4	-18.6
18,385.0	90.40	359.85	12,409.4	5,823.8	733.8	0.82	-0.73	-0.36	-18.5	-19.3
18,480.0	89.78	0.20	12,409.3	5,918.7	733.8	0.75	-0.65	0.37	-18.6	-20.1
18,576.0	88.64	359.76	12,410.6	6,014.7	733.8	1.27	-1.19	-0.46	-17.1	-20.7
18,672.0	89.08	358.44	12,412.5	6,110.7	732.3	1.45	0.46	-1.37	-15.1	-19.9
18,768.0	91.28	359.06	12,412.2	6,206.7	730.2	2.38	2.29	0.65	-15.3	-18.5
18,863.0	91.89	358.27	12,409.6	6,301.6	728.0	1.05	0.64	-0.83	-17.8	-16.9
18,958.0	92.68	358.80	12,405.8	6,396.5	725.6	1.00	0.83	0.56	-21.5	-15.2
19,054.0	93.65	358.00	12,400.5	6,492.3	722.9	1.31	1.01	-0.83	-26.7	-13.2
19,151.0	92.24	0.64	12,395.5	6,589.2	721.7	3.08	-1.45	2.72	-31.6	-12.7
19,223.0	93.38	2.44	12,392.0	6,661.1	723.7	2.95	1.58	2.49	-35.0	-15.2
TGT#4(Ant 14 FC #705H)										
19,246.0	93.74	3.01	12,390.6	6,684.0	724.8	2.95	1.58	2.50	-36.3	-16.4
19,342.0	89.52	3.80	12,387.8	6,779.8	730.5	4.47	-4.40	0.82	-38.5	-22.7
19,438.0	86.79	0.55	12,390.9	6,875.6	734.1	4.42	-2.84	-3.39	-34.8	-27.1
19,533.0	86.44	0.29	12,396.5	6,970.4	734.8	0.46	-0.37	-0.27	-28.7	-28.5
19,629.0	86.99	357.13	12,400.4	7,066.3	732.6	4.23	2.66	-3.29	-24.3	-27.0



EOG Resources
Midland PVA


Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3382.0usft
Site:	Antero 14 Fed Com	MD Reference:	KB = 25 @ 3382.0usft
Well:	#705H	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)
19,725.0	90.31	358.44	12,401.0	7,162.2	728.9	1.94	1.37	1.36	-23.2	-23.9
19,821.0	87.85	356.60	12,402.5	7,258.1	724.8	3.20	-2.56	-1.92	-21.0	-20.5
19,917.0	90.31	359.23	12,404.0	7,354.0	721.3	3.75	2.56	2.74	-19.0	-17.7
20,013.0	88.81	358.62	12,404.8	7,450.0	719.5	1.69	-1.56	-0.64	-17.6	-16.5
20,108.0	88.20	0.20	12,407.3	7,545.0	718.5	1.78	-0.64	1.66	-14.6	-16.2
20,204.0	87.85	0.03	12,410.6	7,640.9	718.7	0.41	-0.36	-0.18	-10.7	-17.1
20,226.0	87.67	358.53	12,411.4	7,662.9	718.4	6.86	-0.82	-6.82	-9.7	-17.0
Last MWD Survey (MD=20226.0')										
20,361.0	87.67	358.53	12,416.9	7,797.7	715.0	0.00	0.00	0.00	-3.5	-14.5
20,420.0	87.67	358.53	12,419.3	7,856.7	713.4	0.00	0.00	0.00	-0.7	-13.4
Projection to Bit (MD=20420.0') - PBHL (Ant 14 FC #705H)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,020.0	11,957.4	-269.0	556.5	KOP, MD:12020.0', TVD:11957.4', N/S:-269.0', E/W:556.5', INC:3.22
12,701.9	12,429.0	151.4	641.8	FTP Crossing, MD:12701.9', TVD:12429.0', N/S:151.4', E/W:641.8', INC:79.66
20,226.0	12,411.4	7,662.9	718.4	Last MWD Survey (MD=20226.0')
20,420.0	12,419.3	7,856.7	713.4	Projection to Bit (MD=20420.0')

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

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


 10/15/2020
 Signed _____ Date _____



Lea County, NM (NAD 83 NME)

Antero 14 Fed Com #705H

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: #705H

KB = 25 @ 3382.0usft
Northing 412073.00 Easting 784931.00 Latitude 32° 7' 49.516 N Longitude 103° 32' 47.055 W

Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.22°
Magnetic Field
Strength: 47606.3nT
Dip Angle: 69.94°
Date: 2/28/2020
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.22°
To convert a Magnetic Direction to a True Direction, Add 6.64° 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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1500.0	6.00	109.09	1499.4	-5.1	14.8	2.00	109.09	-3.8	
4	7051.5	6.00	109.09	7020.6	-194.9	563.2	0.00	0.00	-144.2	
5	7351.5	0.00	0.00	7320.0	-200.0	578.0	2.00	180.00	-148.0	
6	11997.3	0.00	0.00	11965.8	-200.0	578.0	0.00	0.00	-148.0	
7	12749.9	90.31	13.98	12443.3	265.8	694.0	12.00	13.98	326.3	TGT#1(Ant 14 FC #705H)
8	13229.6	90.31	359.59	12440.7	740.9	750.5	3.00	-89.97	804.5	TGT#2(Ant 14 FC #705H)
9	13727.4	90.31	359.59	12438.0	1238.7	746.9	0.00	0.00	1300.0	TGT#3(Ant 14 FC #705H)
10	13732.2	90.21	359.59	12438.0	1243.5	746.9	2.00	177.02	1304.8	TGT#4(Ant 14 FC #705H)
11	16439.8	90.21	359.59	12428.0	3951.0	727.7	0.00	0.00	4000.0	PBHL(Ant 14 FC #705H)
12	16453.3	89.94	359.59	12428.0	3964.6	727.6	2.00	-180.00	4013.5	
13	17424.3	89.94	359.59	12429.0	4935.5	720.7	0.00	0.00	4980.0	
14	17430.6	90.07	359.59	12429.0	4941.8	720.7	2.00	0.00	4986.3	
15	19152.2	90.07	359.59	12427.0	6663.4	708.5	0.00	0.00	6700.0	
16	19165.7	90.34	359.59	12427.0	6676.8	708.4	2.00	0.00	6713.4	
17	20352.9	90.34	359.59	12420.0	7864.0	700.0	0.00	0.00	7895.1	

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 #705H)	7695.0	-200.0	678.0	411873.00	785569.00
PBHL(Ant 14 FC #705H)	12420.0	7864.0	708.0	419937.00	785631.00
TGT#1(Ant 14 FC #705H)	12427.0	6653.4	708.5	418728.40	785633.60
TGT#2(Ant 14 FC #705H)	12428.0	3951.0	727.7	418624.00	785658.71
TGT#3(Ant 14 FC #705H)	12429.0	4935.5	720.7	417008.00	785681.74
TGT#4(Ant 14 FC #705H)	12438.0	1238.7	746.9	413311.70	785677.92
FTP(Ant 14 FC #705H)	12445.0	162.0	768.0	412225.00	785689.50

