Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

HOBBS OCD
SEP 07 2018
RECEIVED

5. Lease Serial No.
NMNM110838

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
AUDACIOUS 19 FEDERAL 602H

2. Name of Operator
EOG RESOURCES INCORPORATED

Contact: RENEE JARRATT
E-Mail: renee_jarratt@eogresources.com

9. API Well No.
30-025-45040-00-X1

3a. Address
MIDLAND, TX 79702

3b. Phone No. (include area code)
Ph: 432-686-3684
Fx: 432-686-6921

10. Field and Pool or Exploratory Area
RED HILL/S-BONE SPRINGS

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 19 T25S R33E NESW 2150FSL 1459FWL
32.114738 N Lat, 103.615196 W Lon

11. County or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Carlsbad Field Office
OCD Hobbs

EOG Resources, Inc. requests an amendment to our approved APD for this well to reflect a change in TVD, BHL and well name/number.

Change BHL to: 100 FSL & 2030' FWL sesw-30-25S-33E

Change TVD to: 12609'. Upper Wolfcamp target.

Change wll Name/Number to: Audacious 19 Federal 722H.

All previous COA shall apply

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #432815 verified by the BLM Well Information System
For EOG RESOURCES INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/04/2018 (18PP1785SE)

Name *(Printed/Typed)* RENEE JARRATT — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 08/27/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS — Title PETROLEUM ENGINEER — Date 09/06/2018

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

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 fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

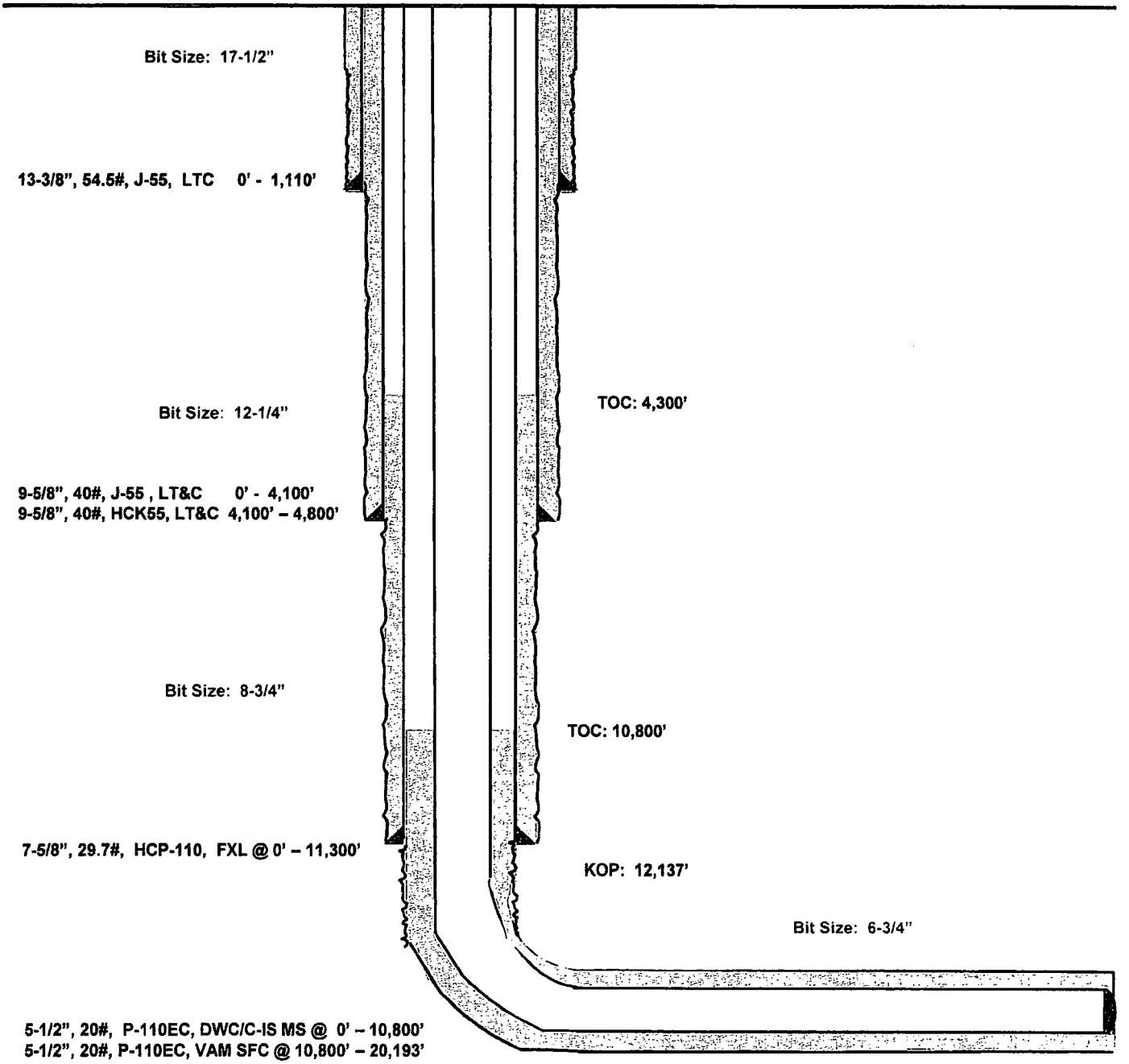
KZ

Audacious 19 Fed #722H
Lea County, New Mexico

2150' FSL
1459' FWL
Section 19
T-25-S, R-33-E

Proposed Wellbore
Revised 7/27/18
API: 30-025-***

KB: 3,487'
GL: 3,462'



Lateral: 20,193' MD, 12,609' TVD
Upper Most Perf:
2540' FSL & 2030' FWL Sec. 19
Lower Most Perf:
100' FSL & 2030' FWL Sec. 30
BH Location: 100' FSL & 2030' FWL
Section 30
T-25-S, R-33-E

Revised Permit Information 7/27/18:

Well Name: Audacious 19 Federal No. 722H

Location:
SL: 2150' FSL & 1459' FWL, Section 19, T-25-S, R-33-E, Lea Co., N.M.
BHL: 100' FSL & 2030' FWL, Section 30, T-25-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF_{min} Collapse	DF_{min} Burst	DF_{min} Tension
17.5"	0 – 1,110'	13.375"	54.5#	J55	LTC	1.125	1.25	1.60
12.25"	0 – 4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' – 4,800'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 – 11,300'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,800'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,800'-20,193'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft^3/ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,110'	600	13.5	1.73	9.13	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% $CaCl_2$ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	6.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
9-5/8" 4,800'	1780	12.7	2.20	11.64	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	200	16.0	1.12	4.75	Tail: Class C + 0.13% C-20
7-5/8" 11,300'	340	11.5	2.72	15.70	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,300')
	210	16.0	1.12	4.74	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
5-1/2" 20,193'	950	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,800')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,110'	Fresh - Gel	8.6-8.8	28-34	N/c
1,110' – 4,800'	Brine	10.0-10.2	28-34	N/c
4,800' – 11,300'	Oil Base	8.7-9.4	58-68	N/c - 6
11,300' – 20,193' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

eog resources

Lea County, NM (NAD 83 NME)

Audacious 19 Federal #722H

Plan #0.2

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: -0.38°
Magnetic North: 6.81°

Magnetic Field
Strength: 47800.5nT
Dip Angle: 59.85°
Date: 2/13/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.51°
To convert a Magnetic Direction to a True Direction, Add 6.89° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

WELL DETAILS: #722H

3462.0
KB = 25' @ 3487.0usft

Northing	Easting	Latitude	Longitude
406219.00	763677.00	32° 8' 53.060 N	103° 36' 54.998 W

SECTION DETAILS

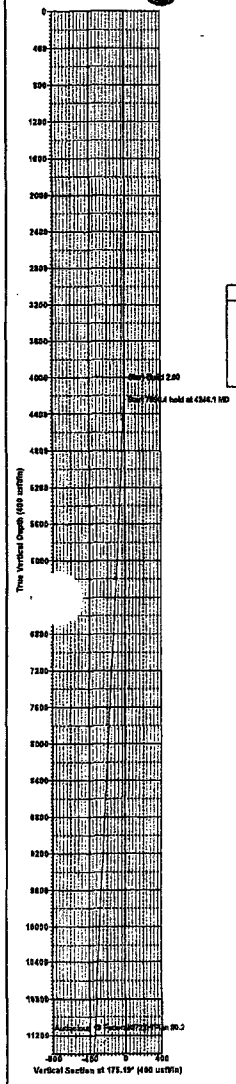
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0		
3	4348.1	4.92	61.06	4348.0	6.6	0.2	2.00	61.06	-5.9		
4	12196.6	4.92	61.06	12107.1	432.1	534.0	0.00	0.00	-386.9		
5	12912.1	90.00	179.86	12609.0	-44.4	671.5	12.00	128.48	92.2		
6	20192.8	90.00	179.86	12609.0	-7328.0	616.0	0.00	0.00	7350.9	PBHL (Audacious 19 Federal #602H)	

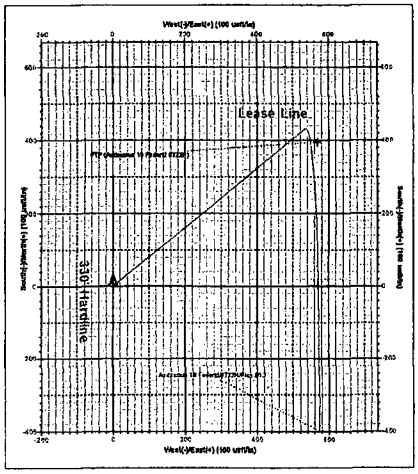
CASING DETAILS

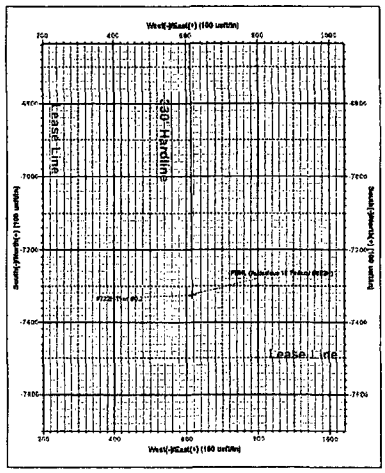
No casing data is available

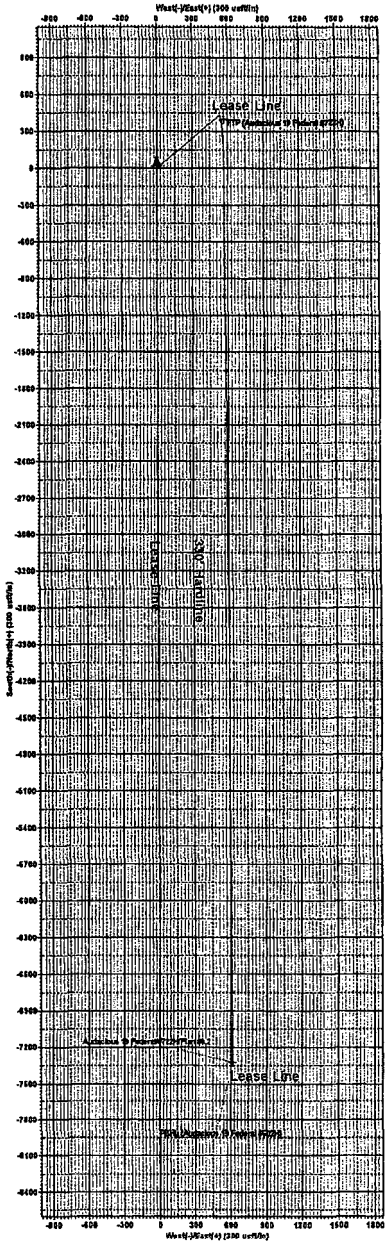
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

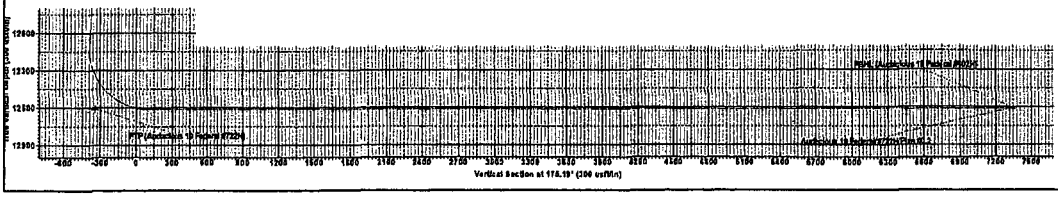
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Audacious 19 Federal #722H)	12609.0	385.0	668.0	406614.00	764245.00
PBHL (Audacious 19 Federal #602H)	12609.0	-7325.0	616.0	398894.00	764293.00

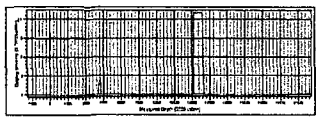












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Audacious 19 Federal
#722H

OH

Plan: Plan #0.2

Standard Planning Report

27 July, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #722H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3487.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3487.0usft
Site:	Audacious 19 Federal	**North Reference:**	Grid
Well:	#722H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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 Audacious 19 Federal

Site Position:		**Northing:**	406,251.00 usft	**Latitude:**	32° 6' 53.415 N
From:	Map	**Easting:**	763,097.00 usft	**Longitude:**	103° 37' 1.440 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.38 °

Well #722H

Well Position	**+N/-S**	-32.0 usft	**Northing:**	406,219.00 usft	**Latitude:**	32° 6' 53.060 N
	+E/-W	580.0 usft	**Easting:**	763,677.00 usft	**Longitude:**	103° 36' 54.698 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,462.0 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	2/13/2018	6.89	59.95	47,800.48606834

Design Plan #0.2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	175.19	

Plan Survey Tool Program **Date** 7/27/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,192.8	Plan #0.2 (OH)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,246.1	4.92	51.06	4,245.8	6.6	8.2	2.00	2.00	0.00	51.06	
12,136.5	4.92	51.06	12,107.1	432.1	534.8	0.00	0.00	0.00	0.00	
12,912.1	90.00	179.65	12,609.0	-44.4	571.5	12.00	10.97	16.58	128.48	
20,192.8	90.00	179.65	12,609.0	-7,325.0	616.0	0.00	0.00	0.00	0.00	PBHL (Audacious 19

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #722H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3487.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3487.0usft
Site:	Audacious 19 Federal	**North Reference:**	Grid
Well:	#722H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	2.00	51.06	4,100.0	1.1	1.4	-1.0	2.00	2.00	0.00
4,200.0	4.00	51.06	4,199.8	4.4	5.4	-3.9	2.00	2.00	0.00
4,246.1	4.92	51.06	4,245.8	6.6	8.2	-5.9	2.00	2.00	0.00
4,300.0	4.92	51.06	4,299.5	9.5	11.8	-8.5	0.00	0.00	0.00
4,400.0	4.92	51.06	4,399.1	14.9	18.5	-13.3	0.00	0.00	0.00
4,500.0	4.92	51.06	4,498.8	20.3	25.2	-18.2	0.00	0.00	0.00
4,600.0	4.92	51.06	4,598.4	25.7	31.8	-23.0	0.00	0.00	0.00
4,700.0	4.92	51.06	4,698.0	31.1	38.5	-27.8	0.00	0.00	0.00
4,800.0	4.92	51.06	4,797.7	36.5	45.2	-32.6	0.00	0.00	0.00
4,900.0	4.92	51.06	4,897.3	41.9	51.9	-37.4	0.00	0.00	0.00
5,000.0	4.92	51.06	4,996.9	47.3	58.5	-42.2	0.00	0.00	0.00
5,100.0	4.92	51.06	5,096.5	52.7	65.2	-47.0	0.00	0.00	0.00
5,200.0	4.92	51.06	5,196.2	58.1	71.9	-51.9	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #722H
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Well:	#722H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	4.92	51.06	5,295.8	63.5	78.6	-56.7	0.00	0.00	0.00
5,400.0	4.92	51.06	5,395.4	68.9	85.2	-61.5	0.00	0.00	0.00
5,500.0	4.92	51.06	5,495.1	74.3	91.9	-66.3	0.00	0.00	0.00
5,600.0	4.92	51.06	5,594.7	79.6	98.6	-71.1	0.00	0.00	0.00
5,700.0	4.92	51.06	5,694.3	85.0	105.3	-75.9	0.00	0.00	0.00
5,800.0	4.92	51.06	5,794.0	90.4	111.9	-80.7	0.00	0.00	0.00
5,900.0	4.92	51.06	5,893.6	95.8	118.6	-85.6	0.00	0.00	0.00
6,000.0	4.92	51.06	5,993.2	101.2	125.3	-90.4	0.00	0.00	0.00
6,100.0	4.92	51.06	6,092.9	106.6	131.9	-95.2	0.00	0.00	0.00
6,200.0	4.92	51.06	6,192.5	112.0	138.6	-100.0	0.00	0.00	0.00
6,300.0	4.92	51.06	6,292.1	117.4	145.3	-104.8	0.00	0.00	0.00
6,400.0	4.92	51.06	6,391.8	122.8	152.0	-109.6	0.00	0.00	0.00
6,500.0	4.92	51.06	6,491.4	128.2	158.6	-114.4	0.00	0.00	0.00
6,600.0	4.92	51.06	6,591.0	133.6	165.3	-119.2	0.00	0.00	0.00
6,700.0	4.92	51.06	6,690.6	139.0	172.0	-124.1	0.00	0.00	0.00
6,800.0	4.92	51.06	6,790.3	144.4	178.7	-128.9	0.00	0.00	0.00
6,900.0	4.92	51.06	6,889.9	149.8	185.3	-133.7	0.00	0.00	0.00
7,000.0	4.92	51.06	6,989.5	155.1	192.0	-138.5	0.00	0.00	0.00
7,100.0	4.92	51.06	7,089.2	160.5	198.7	-143.3	0.00	0.00	0.00
7,200.0	4.92	51.06	7,188.8	165.9	205.4	-148.1	0.00	0.00	0.00
7,300.0	4.92	51.06	7,288.4	171.3	212.0	-152.9	0.00	0.00	0.00
7,400.0	4.92	51.06	7,388.1	176.7	218.7	-157.8	0.00	0.00	0.00
7,500.0	4.92	51.06	7,487.7	182.1	225.4	-162.6	0.00	0.00	0.00
7,600.0	4.92	51.06	7,587.3	187.5	232.1	-167.4	0.00	0.00	0.00
7,700.0	4.92	51.06	7,687.0	192.9	238.7	-172.2	0.00	0.00	0.00
7,800.0	4.92	51.06	7,786.6	198.3	245.4	-177.0	0.00	0.00	0.00
7,900.0	4.92	51.06	7,886.2	203.7	252.1	-181.8	0.00	0.00	0.00
8,000.0	4.92	51.06	7,985.9	209.1	258.8	-186.6	0.00	0.00	0.00
8,100.0	4.92	51.06	8,085.5	214.5	265.4	-191.5	0.00	0.00	0.00
8,200.0	4.92	51.06	8,185.1	219.9	272.1	-196.3	0.00	0.00	0.00
8,300.0	4.92	51.06	8,284.7	225.2	278.8	-201.1	0.00	0.00	0.00
8,400.0	4.92	51.06	8,384.4	230.6	285.5	-205.9	0.00	0.00	0.00
8,500.0	4.92	51.06	8,484.0	236.0	292.1	-210.7	0.00	0.00	0.00
8,600.0	4.92	51.06	8,583.6	241.4	298.8	-215.5	0.00	0.00	0.00
8,700.0	4.92	51.06	8,683.3	246.8	305.5	-220.3	0.00	0.00	0.00
8,800.0	4.92	51.06	8,782.9	252.2	312.1	-225.2	0.00	0.00	0.00
8,900.0	4.92	51.06	8,882.5	257.6	318.8	-230.0	0.00	0.00	0.00
9,000.0	4.92	51.06	8,982.2	263.0	325.5	-234.8	0.00	0.00	0.00
9,100.0	4.92	51.06	9,081.8	268.4	332.2	-239.6	0.00	0.00	0.00
9,200.0	4.92	51.06	9,181.4	273.8	338.8	-244.4	0.00	0.00	0.00
9,300.0	4.92	51.06	9,281.1	279.2	345.5	-249.2	0.00	0.00	0.00
9,400.0	4.92	51.06	9,380.7	284.6	352.2	-254.0	0.00	0.00	0.00
9,500.0	4.92	51.06	9,480.3	290.0	358.9	-258.9	0.00	0.00	0.00
9,600.0	4.92	51.06	9,580.0	295.3	365.5	-263.7	0.00	0.00	0.00
9,700.0	4.92	51.06	9,679.6	300.7	372.2	-268.5	0.00	0.00	0.00
9,800.0	4.92	51.06	9,779.2	306.1	378.9	-273.3	0.00	0.00	0.00
9,900.0	4.92	51.06	9,878.8	311.5	385.6	-278.1	0.00	0.00	0.00
10,000.0	4.92	51.06	9,978.5	316.9	392.2	-282.9	0.00	0.00	0.00
10,100.0	4.92	51.06	10,078.1	322.3	398.9	-287.7	0.00	0.00	0.00
10,200.0	4.92	51.06	10,177.7	327.7	405.6	-292.6	0.00	0.00	0.00
10,300.0	4.92	51.06	10,277.4	333.1	412.3	-297.4	0.00	0.00	0.00
10,400.0	4.92	51.06	10,377.0	338.5	418.9	-302.2	0.00	0.00	0.00
10,500.0	4.92	51.06	10,476.6	343.9	425.6	-307.0	0.00	0.00	0.00
10,600.0	4.92	51.06	10,576.3	349.3	432.3	-311.8	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #722H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3487.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3487.0usft
Site:	Audacious 19 Federal	**North Reference:**	Grid
Well:	#722H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	4.92	51.06	10,675.9	354.7	439.0	-316.6	0.00	0.00	0.00
10,800.0	4.92	51.06	10,775.5	360.1	445.6	-321.4	0.00	0.00	0.00
10,900.0	4.92	51.06	10,875.2	365.5	452.3	-326.3	0.00	0.00	0.00
11,000.0	4.92	51.06	10,974.8	370.8	459.0	-331.1	0.00	0.00	0.00
11,100.0	4.92	51.06	11,074.4	376.2	465.7	-335.9	0.00	0.00	0.00
11,200.0	4.92	51.06	11,174.1	381.6	472.3	-340.7	0.00	0.00	0.00
11,300.0	4.92	51.06	11,273.7	387.0	479.0	-345.5	0.00	0.00	0.00
11,400.0	4.92	51.06	11,373.3	392.4	485.7	-350.3	0.00	0.00	0.00
11,500.0	4.92	51.06	11,472.9	397.8	492.3	-355.1	0.00	0.00	0.00
11,600.0	4.92	51.06	11,572.6	403.2	499.0	-360.0	0.00	0.00	0.00
11,700.0	4.92	51.06	11,672.2	408.6	505.7	-364.8	0.00	0.00	0.00
11,800.0	4.92	51.06	11,771.8	414.0	512.4	-369.6	0.00	0.00	0.00
11,900.0	4.92	51.06	11,871.5	419.4	519.0	-374.4	0.00	0.00	0.00
12,000.0	4.92	51.06	11,971.1	424.8	525.7	-379.2	0.00	0.00	0.00
12,100.0	4.92	51.06	12,070.7	430.2	532.4	-384.0	0.00	0.00	0.00
12,136.5	4.92	51.06	12,107.1	432.1	534.8	-385.8	0.00	0.00	0.00
12,150.0	4.11	69.00	12,120.6	432.7	535.7	-386.3	12.00	-5.99	133.05
12,175.0	4.15	111.59	12,145.5	432.7	537.4	-386.1	12.00	0.14	170.37
12,200.0	5.96	139.48	12,170.4	431.3	539.1	-384.6	12.00	7.23	111.57
12,225.0	8.47	152.78	12,195.2	428.7	540.8	-381.9	12.00	10.05	53.16
12,250.0	11.22	159.82	12,219.8	424.8	542.5	-377.8	12.00	11.01	28.17
12,275.0	14.08	164.08	12,244.2	419.6	544.1	-372.5	12.00	11.41	17.03
12,300.0	16.98	166.91	12,268.3	413.1	545.8	-365.9	12.00	11.61	11.35
12,325.0	19.91	168.94	12,292.0	405.4	547.4	-358.1	12.00	11.72	8.10
12,350.0	22.86	170.46	12,315.3	396.4	549.1	-349.0	12.00	11.79	6.09
12,375.0	25.82	171.65	12,338.1	386.2	550.7	-338.7	12.00	11.84	4.76
12,400.0	28.79	172.61	12,360.3	374.9	552.2	-327.3	12.00	11.87	3.84
12,425.0	31.76	173.41	12,381.9	362.4	553.8	-314.7	12.00	11.89	3.18
12,450.0	34.74	174.08	12,402.8	348.7	555.2	-301.0	12.00	11.91	2.69
12,475.0	37.72	174.66	12,422.9	334.0	556.7	-286.2	12.00	11.92	2.31
12,500.0	40.70	175.16	12,442.3	318.3	558.1	-270.4	12.00	11.93	2.02
12,525.0	43.69	175.61	12,460.8	301.6	559.4	-253.6	12.00	11.94	1.79
12,550.0	46.67	176.01	12,478.5	283.9	560.7	-235.9	12.00	11.95	1.60
12,554.8	47.25	176.08	12,481.7	280.4	561.0	-232.4	12.00	11.95	1.51
FTP (Audacious 19 Federal #722H)									
12,575.0	49.66	176.37	12,495.1	265.3	562.0	-217.3	12.00	11.95	1.44
12,600.0	52.65	176.71	12,510.8	245.9	563.1	-197.8	12.00	11.96	1.33
12,625.0	55.64	177.01	12,525.5	225.6	564.3	-177.5	12.00	11.96	1.23
12,650.0	58.63	177.30	12,539.0	204.7	565.3	-156.6	12.00	11.96	1.14
12,675.0	61.62	177.57	12,551.5	183.0	566.3	-134.9	12.00	11.96	1.07
12,700.0	64.61	177.82	12,562.8	160.7	567.2	-112.6	12.00	11.97	1.01
12,725.0	67.60	178.06	12,572.9	137.9	568.0	-89.8	12.00	11.97	0.96
12,750.0	70.60	178.29	12,581.8	114.5	568.7	-66.5	12.00	11.97	0.92
12,775.0	73.59	178.51	12,589.5	90.8	569.4	-42.7	12.00	11.97	0.89
12,800.0	76.58	178.73	12,595.9	66.6	570.0	-18.6	12.00	11.97	0.86
12,825.0	79.57	178.94	12,601.1	42.2	570.5	5.8	12.00	11.97	0.84
12,850.0	82.57	179.15	12,605.0	17.5	570.9	30.4	12.00	11.97	0.83
12,875.0	85.56	179.35	12,607.6	-7.4	571.2	55.2	12.00	11.97	0.81
12,900.0	88.55	179.55	12,608.8	-32.4	571.4	80.1	12.00	11.97	0.81
12,912.1	90.00	179.65	12,609.0	-44.4	571.5	92.2	12.00	11.97	0.81
13,000.0	90.00	179.65	12,609.0	-132.3	572.1	179.8	0.00	0.00	0.00
13,100.0	90.00	179.65	12,609.0	-232.3	572.7	279.5	0.00	0.00	0.00
13,200.0	90.00	179.65	12,609.0	-332.3	573.3	379.2	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #722H
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Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3487.0usft
Site:	Audacious 19 Federal	**North Reference:**	Grid
Well:	#722H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,300.0	90.00	179.65	12,609.0	-432.3	573.9	478.9	0.00	0.00	0.00
13,400.0	90.00	179.65	12,609.0	-532.3	574.5	578.6	0.00	0.00	0.00
13,500.0	90.00	179.65	12,609.0	-632.3	575.1	678.3	0.00	0.00	0.00
13,600.0	90.00	179.65	12,609.0	-732.3	575.7	778.0	0.00	0.00	0.00
13,700.0	90.00	179.65	12,609.0	-832.3	576.3	877.7	0.00	0.00	0.00
13,800.0	90.00	179.65	12,609.0	-932.3	576.9	977.4	0.00	0.00	0.00
13,900.0	90.00	179.65	12,609.0	-1,032.3	577.6	1,077.1	0.00	0.00	0.00
14,000.0	90.00	179.65	12,609.0	-1,132.3	578.2	1,176.8	0.00	0.00	0.00
14,100.0	90.00	179.65	12,609.0	-1,232.3	578.8	1,276.5	0.00	0.00	0.00
14,200.0	90.00	179.65	12,609.0	-1,332.3	579.4	1,376.2	0.00	0.00	0.00
14,300.0	90.00	179.65	12,609.0	-1,432.3	580.0	1,475.9	0.00	0.00	0.00
14,400.0	90.00	179.65	12,609.0	-1,532.3	580.6	1,575.6	0.00	0.00	0.00
14,500.0	90.00	179.65	12,609.0	-1,632.3	581.2	1,675.3	0.00	0.00	0.00
14,600.0	90.00	179.65	12,609.0	-1,732.3	581.8	1,775.0	0.00	0.00	0.00
14,700.0	90.00	179.65	12,609.0	-1,832.3	582.4	1,874.7	0.00	0.00	0.00
14,800.0	90.00	179.65	12,609.0	-1,932.3	583.1	1,974.4	0.00	0.00	0.00
14,900.0	90.00	179.65	12,609.0	-2,032.3	583.7	2,074.1	0.00	0.00	0.00
15,000.0	90.00	179.65	12,609.0	-2,132.3	584.3	2,173.8	0.00	0.00	0.00
15,100.0	90.00	179.65	12,609.0	-2,232.3	584.9	2,273.5	0.00	0.00	0.00
15,200.0	90.00	179.65	12,609.0	-2,332.3	585.5	2,373.2	0.00	0.00	0.00
15,300.0	90.00	179.65	12,609.0	-2,432.3	586.1	2,472.9	0.00	0.00	0.00
15,400.0	90.00	179.65	12,609.0	-2,532.3	586.7	2,572.6	0.00	0.00	0.00
15,500.0	90.00	179.65	12,609.0	-2,632.3	587.3	2,672.3	0.00	0.00	0.00
15,600.0	90.00	179.65	12,609.0	-2,732.3	587.9	2,772.0	0.00	0.00	0.00
15,700.0	90.00	179.65	12,609.0	-2,832.3	588.6	2,871.7	0.00	0.00	0.00
15,800.0	90.00	179.65	12,609.0	-2,932.3	589.2	2,971.4	0.00	0.00	0.00
15,900.0	90.00	179.65	12,609.0	-3,032.3	589.8	3,071.1	0.00	0.00	0.00
16,000.0	90.00	179.65	12,609.0	-3,132.3	590.4	3,170.8	0.00	0.00	0.00
16,100.0	90.00	179.65	12,609.0	-3,232.3	591.0	3,270.4	0.00	0.00	0.00
16,200.0	90.00	179.65	12,609.0	-3,332.3	591.6	3,370.1	0.00	0.00	0.00
16,300.0	90.00	179.65	12,609.0	-3,432.3	592.2	3,469.8	0.00	0.00	0.00
16,400.0	90.00	179.65	12,609.0	-3,532.3	592.8	3,569.5	0.00	0.00	0.00
16,500.0	90.00	179.65	12,609.0	-3,632.3	593.4	3,669.2	0.00	0.00	0.00
16,600.0	90.00	179.65	12,609.0	-3,732.3	594.1	3,768.9	0.00	0.00	0.00
16,700.0	90.00	179.65	12,609.0	-3,832.3	594.7	3,868.6	0.00	0.00	0.00
16,800.0	90.00	179.65	12,609.0	-3,932.3	595.3	3,968.3	0.00	0.00	0.00
16,900.0	90.00	179.65	12,609.0	-4,032.3	595.9	4,068.0	0.00	0.00	0.00
17,000.0	90.00	179.65	12,609.0	-4,132.3	596.5	4,167.7	0.00	0.00	0.00
17,100.0	90.00	179.65	12,609.0	-4,232.3	597.1	4,267.4	0.00	0.00	0.00
17,200.0	90.00	179.65	12,609.0	-4,332.3	597.7	4,367.1	0.00	0.00	0.00
17,300.0	90.00	179.65	12,609.0	-4,432.3	598.3	4,466.8	0.00	0.00	0.00
17,400.0	90.00	179.65	12,609.0	-4,532.3	598.9	4,566.5	0.00	0.00	0.00
17,500.0	90.00	179.65	12,609.0	-4,632.3	599.6	4,666.2	0.00	0.00	0.00
17,600.0	90.00	179.65	12,609.0	-4,732.3	600.2	4,765.9	0.00	0.00	0.00
17,700.0	90.00	179.65	12,609.0	-4,832.3	600.8	4,865.6	0.00	0.00	0.00
17,800.0	90.00	179.65	12,609.0	-4,932.3	601.4	4,965.3	0.00	0.00	0.00
17,900.0	90.00	179.65	12,609.0	-5,032.3	602.0	5,065.0	0.00	0.00	0.00
18,000.0	90.00	179.65	12,609.0	-5,132.3	602.6	5,164.7	0.00	0.00	0.00
18,100.0	90.00	179.65	12,609.0	-5,232.3	603.2	5,264.4	0.00	0.00	0.00
18,200.0	90.00	179.65	12,609.0	-5,332.3	603.8	5,364.1	0.00	0.00	0.00
18,300.0	90.00	179.65	12,609.0	-5,432.3	604.4	5,463.8	0.00	0.00	0.00
18,400.0	90.00	179.65	12,609.0	-5,532.2	605.0	5,563.5	0.00	0.00	0.00
18,500.0	90.00	179.65	12,609.0	-5,632.2	605.7	5,663.2	0.00	0.00	0.00
18,600.0	90.00	179.65	12,609.0	-5,732.2	606.3	5,762.9	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #722H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3487.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3487.0usft
Site:	Audacious 19 Federal	**North Reference:**	Grid
Well:	#722H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,700.0	90.00	179.65	12,609.0	-5,832.2	606.9	5,862.6	0.00	0.00	0.00
18,800.0	90.00	179.65	12,609.0	-5,932.2	607.5	5,962.3	0.00	0.00	0.00
18,900.0	90.00	179.65	12,609.0	-6,032.2	608.1	6,062.0	0.00	0.00	0.00
19,000.0	90.00	179.65	12,609.0	-6,132.2	608.7	6,161.7	0.00	0.00	0.00
19,100.0	90.00	179.65	12,609.0	-6,232.2	609.3	6,261.4	0.00	0.00	0.00
19,200.0	90.00	179.65	12,609.0	-6,332.2	609.9	6,361.1	0.00	0.00	0.00
19,300.0	90.00	179.65	12,609.0	-6,432.2	610.5	6,460.8	0.00	0.00	0.00
19,400.0	90.00	179.65	12,609.0	-6,532.2	611.2	6,560.5	0.00	0.00	0.00
19,500.0	90.00	179.65	12,609.0	-6,632.2	611.8	6,660.2	0.00	0.00	0.00
19,600.0	90.00	179.65	12,609.0	-6,732.2	612.4	6,759.9	0.00	0.00	0.00
19,700.0	90.00	179.65	12,609.0	-6,832.2	613.0	6,859.6	0.00	0.00	0.00
19,800.0	90.00	179.65	12,609.0	-6,932.2	613.6	6,959.3	0.00	0.00	0.00
19,900.0	90.00	179.65	12,609.0	-7,032.2	614.2	7,059.0	0.00	0.00	0.00
20,000.0	90.00	179.65	12,609.0	-7,132.2	614.8	7,158.7	0.00	0.00	0.00
20,100.0	90.00	179.65	12,609.0	-7,232.2	615.4	7,258.4	0.00	0.00	0.00
20,192.8	90.00	179.65	12,609.0	-7,325.0	616.0	7,350.9	0.00	0.00	0.00
PBHL (Audacious 19 Federal #602H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Audacious 19 Fed	0.00	0.00	12,609.0	395.0	568.0	406,614.00	764,245.00	32° 6' 56.931 N	103° 36' 48.064 W
- plan misses target center by 171.4usft at 12554.8usft MD (12481.7 TVD, 280.4 N, 561.0 E)									
- Point									
PBHL (Audacious 19 Fe	0.00	0.00	12,609.0	-7,325.0	616.0	398,894.00	764,293.00	32° 5' 40.535 N	103° 36' 48.105 W
- plan hits target center									
- Point									