

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMNM110838

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EOG RESOURCES INCORPORATED

Contact: STAN WAGNER

E-Mail: stan_wagner@eogresources.com

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-686-3689

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 19 T25S R33E NESW 2153FSL 1393FWL
32.114746 N Lat, 103.615402 W Lon

8. Well Name and No.

AUDACIOUS 19 FEDERAL 709H

9. API Well No.

30-025 45045

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

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 Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleat 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 recompleat 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.

EOG Resources requests an amendment to our approved APD for this well to reflect a change in BHL.

Change BHL to: 100' FSL & 1690' FWL sesw-30-25S-33E

Carlsbad Field Office
OCD Hobbs*All previous COAs shall apply.*

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

Electronic Submission #429219 verified by the BLM Well Information System

For EOG RESOURCES INCORPORATED, sent to the Hobbs

Committed to AFMSS for processing by PRISCILLA PEREZ on 08/07/2018 (18PP1595SE)

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 07/30/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

/s/Zota Stevens

Title

Petroleum Engineer
Carlsbad Field Office

Date

8-7-18

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.

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 ****

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- 45133	² Pool Code 98180	³ Pool Name WC-025 G-09 S253309A; Upper Wolfcamp
⁴ Property Code 322220	⁵ Property Name AUDACIOUS 19 FEDERAL	⁶ Well Number #709H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3461'

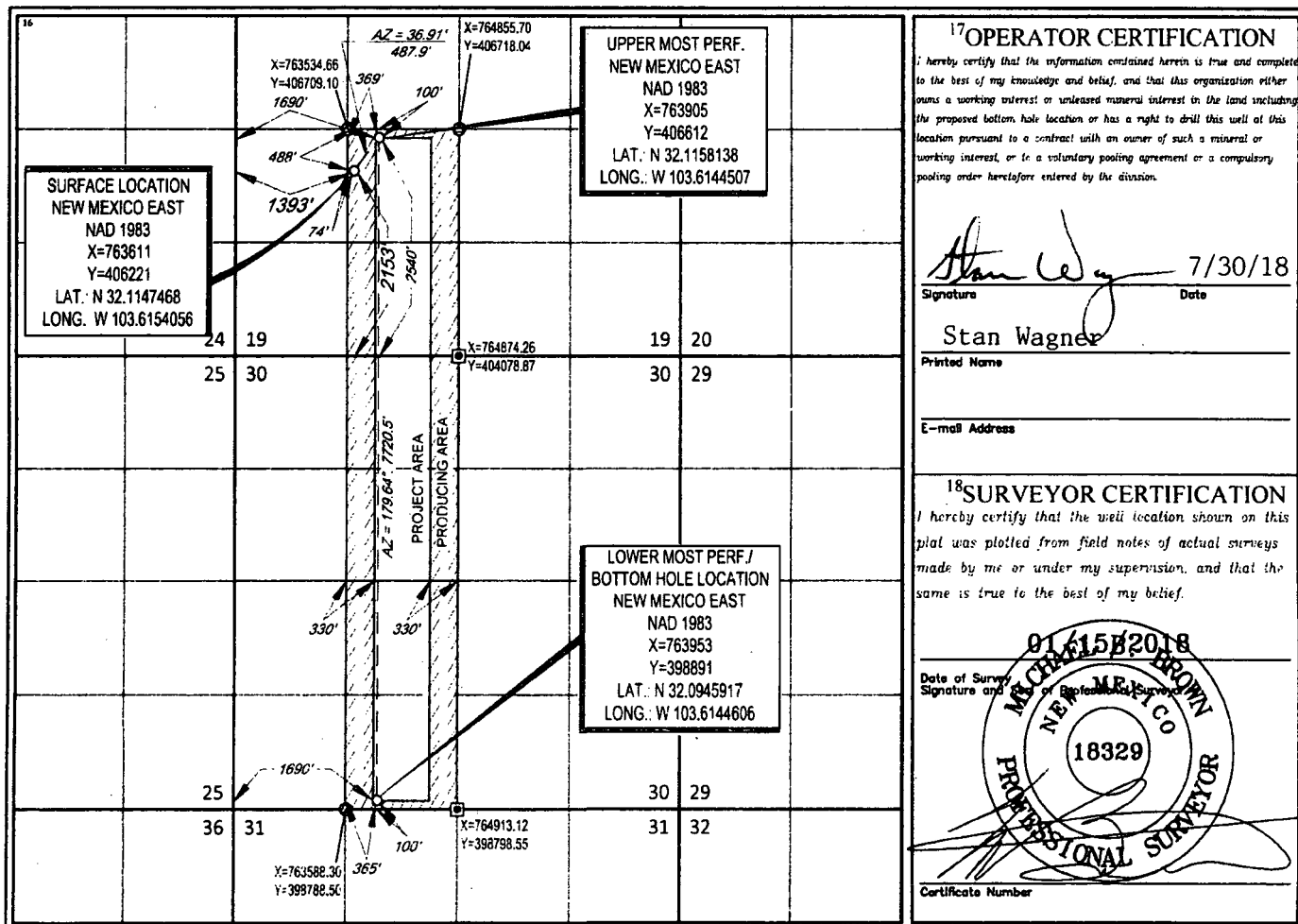
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	19	25-S	33-E	-	2153'	SOUTH	1393'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	30	25-S	33-E	-	100'	SOUTH	1690'	WEST	LEA

¹² Dedicated Acres 240.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



Intent ☒ As Drilled ☐

API # 30-025-			Operator Name: EOG Resources, Inc.			Property Name: Audacious 19 Federal			Well Number 709H	
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Kick Off Point (KOP)

UL K	Section 19	Township 25S	Range 33E	Lot	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude				NAD

First Take Point (FTP)

UL K	Section 19	Township 25S	Range 33E	Lot	Feet 2540	From N/S South	Feet 1690	From E/W West	County Lea
Latitude N 32.1158138					Longitude W -103.6144507				NAD 83

Last Take Point (LTP)

UL N	Section 30	Township 25S	Range 33E	Lot	Feet 100	From N/S South	Feet 1690	From E/W West	County Lea
Latitude N 32.0945917					Longitude W -103.6144606				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ No

Is this well an infill well? ☐ Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-			Operator Name: EOG Resources, Inc.			Property Name: Audacious 19 Federal			Well Number 708H	
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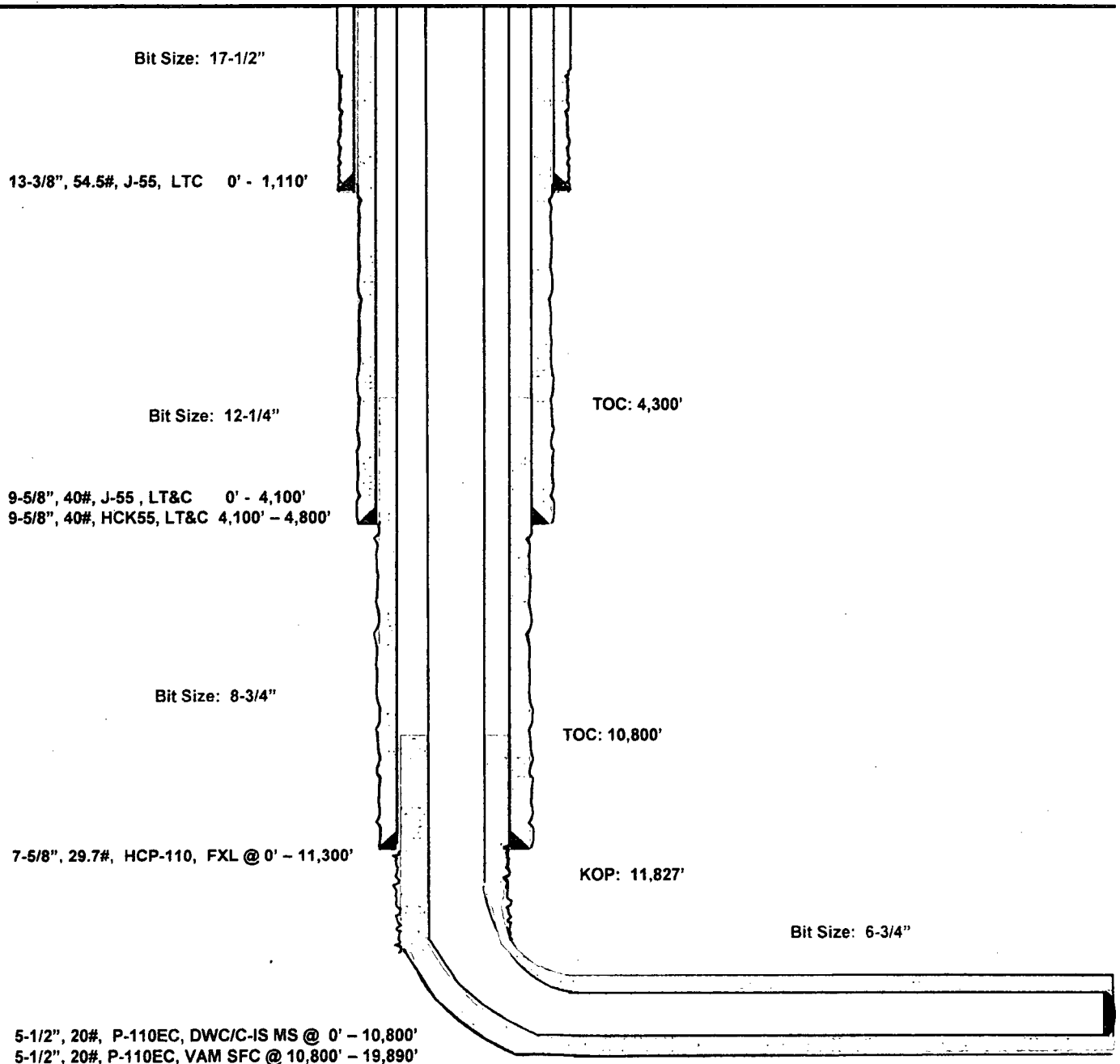
KZ 06/29/2018

**Audacious 19 Fed #709H
Lea County, New Mexico**

**2153' FSL
1393' FWL
Section 19
T-25-S, R-33-E**

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

**KB: 3,486'
GL: 3,461'**



**Lateral: 19,890' MD, 12,312' TVD
Upper Most Perf:
2540' FSL & 1690' FWL Sec. 19
Lower Most Perf:
100' FSL & 1690' FWL Sec. 30
BH Location: 100' FSL & 1690' FWL
Section 30
T-25-S, R-33-E**

Revised Permit Information 7/27/18:

Well Name: Audacious 19 Federal No. 709H

Location:

SL: 2153' FSL & 1393' FWL, Section 19, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 1690' 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' - 19,890'	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" 19,890'	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' – 19,890' Lateral	Oil Base	10.0-14.0	58-68	3 - 6



Lea County, NM (NAD 83 NME)

Audacious 19 Federal #709H

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

WELL DETAILS: #709H

KB = 25' @ 3488.0usft 3481.0
Northing 406321.00 Easting 783811.00 Latitude 32° 6' 53.054 N Longitude 103° 34' 55.466 W



Azimuths to Grid North
True North: -0.38°
Magnetic North: 5.81°
Magnetic Field
Strength: 47800.5nT
Dip Angle: 66.86°
Date: 2/13/2018
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction Add 9.51°
To convert a Magnetic Direction to a True Direction Add 9.89° East
To convert a True Direction to a Grid Direction Subtract 0.38°

SECTION DETAILS

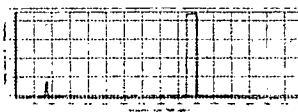
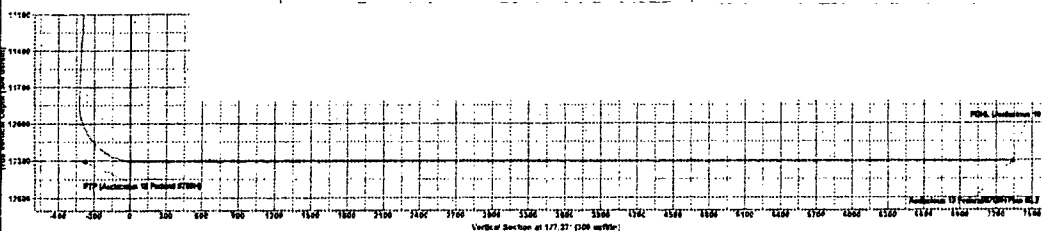
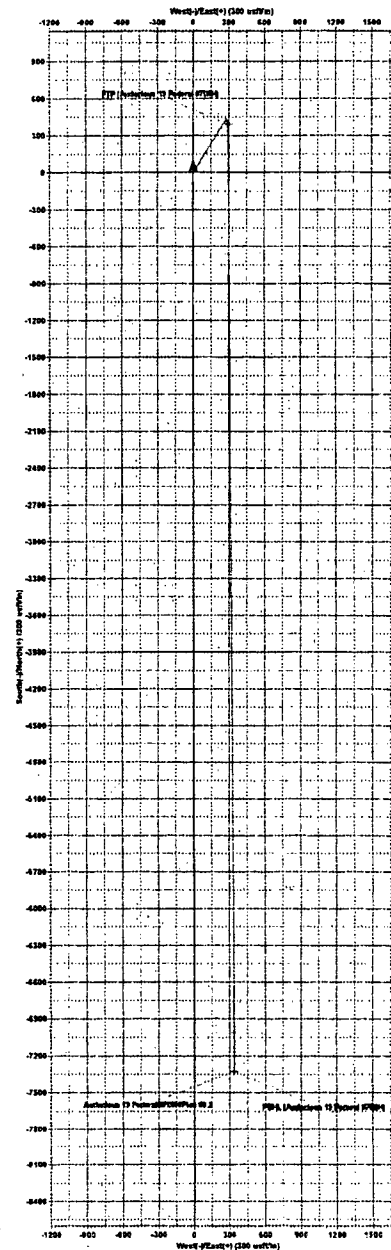
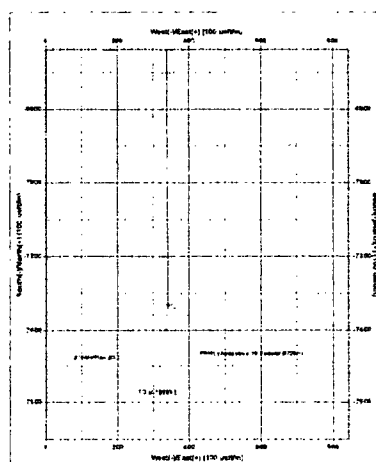
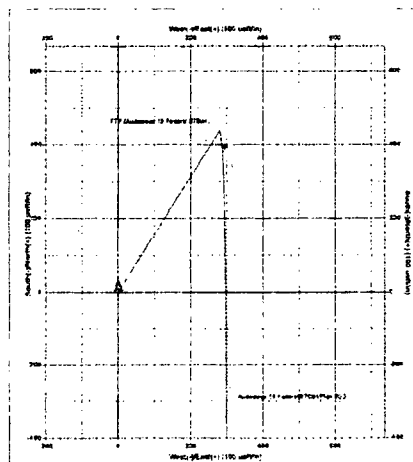
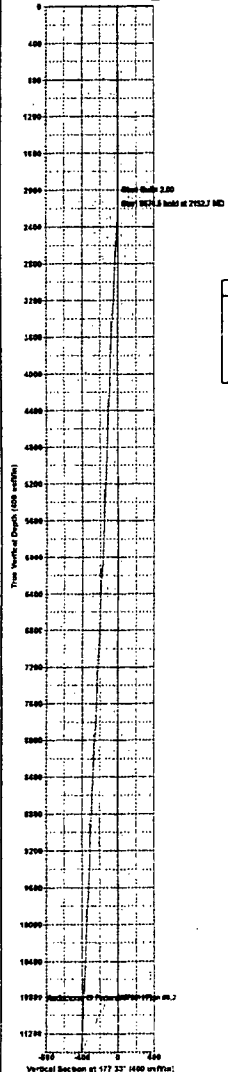
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0		
3	2182.7	3.06	32.82	2182.7	3.4	2.2	2.00	32.82	-3.3		
4	1192.2	3.06	32.82	11913.4	437.7	280.1	0.00	0.00	-434.1		
5	12639.6	80.00	179.66	12312.0	-39.2	297.6	12.00	147.00	63.1		
6	19839.6	80.00	179.66	12312.0	-7330.0	342.0	0.00	0.00	7338.0		PSHL (Audacious 19 Federal #709H)

CASING DETAILS

No casing data is in table.

WELLSBONE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP (Audacious 19 Federal #709H)	12312.0	391.0	294.0	406321.00	783801.00
PSHL (Audacious 19 Federal #709H)	12312.0	-7330.0	342.0	383891.00	783963.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Audacious 19 Federal

#709H

OH

Plan: Plan #0.2

Standard Planning Report

27 July, 2018

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Audacious 19 Federal
 Well: #709H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #709H
 TVD Reference: KB = 25' @ 3486.0usft
 MD Reference: KB = 25' @ 3486.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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:	Map	Northings: 406,251.00 usft	Latitude: 32° 6' 53.415 N
From:		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	#709H		
Well Position	+N/-S -30.0 usft	Northings: 406,221.00 usft	Latitude: 32° 6' 53.084 N
	+E/-W 514.0 usft	Easting: 763,611.00 usft	Longitude: 103° 36' 55.466 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,461.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/13/2018	6.89	59.95	47,800.47492841

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	177.33

Plan Survey Tool Program		Date 7/27/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,889.5	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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,152.7	3.05	32.62	2,152.7	3.4	2.2	2.00	2.00	0.00	32.62	
11,827.2	3.05	32.62	11,813.4	437.7	280.1	0.00	0.00	0.00	0.00	
12,598.6	90.00	179.65	12,312.0	-39.2	297.5	12.00	11.27	19.06	147.00	
19,889.5	90.00	179.65	12,312.0	-7,330.0	342.0	0.00	0.00	0.00	0.00	PBHL (Audacious 19)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Audacious 19 Federal
 Well: #709H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #709H
 TVD Reference: KB = 25' @ 3486.0usft
 MD Reference: KB = 25' @ 3486.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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	2.00	32.62	2,100.0	1.5	0.9	-1.4	2.00	2.00	0.00
2,152.7	3.05	32.62	2,152.7	3.4	2.2	-3.3	2.00	2.00	0.00
2,200.0	3.05	32.62	2,199.9	5.6	3.6	-5.4	0.00	0.00	0.00
2,300.0	3.05	32.62	2,299.7	10.0	6.4	-9.7	0.00	0.00	0.00
2,400.0	3.05	32.62	2,399.6	14.5	9.3	-14.1	0.00	0.00	0.00
2,500.0	3.05	32.62	2,499.4	19.0	12.2	-18.4	0.00	0.00	0.00
2,600.0	3.05	32.62	2,599.3	23.5	15.0	-22.8	0.00	0.00	0.00
2,700.0	3.05	32.62	2,699.2	28.0	17.9	-27.1	0.00	0.00	0.00
2,800.0	3.05	32.62	2,799.0	32.5	20.8	-31.5	0.00	0.00	0.00
2,900.0	3.05	32.62	2,898.9	37.0	23.7	-35.8	0.00	0.00	0.00
3,000.0	3.05	32.62	2,998.7	41.5	26.5	-40.2	0.00	0.00	0.00
3,100.0	3.05	32.62	3,098.6	45.9	29.4	-44.5	0.00	0.00	0.00
3,200.0	3.05	32.62	3,198.4	50.4	32.3	-48.9	0.00	0.00	0.00
3,300.0	3.05	32.62	3,298.3	54.9	35.1	-53.2	0.00	0.00	0.00
3,400.0	3.05	32.62	3,398.2	59.4	38.0	-57.6	0.00	0.00	0.00
3,500.0	3.05	32.62	3,498.0	63.9	40.9	-61.9	0.00	0.00	0.00
3,600.0	3.05	32.62	3,597.9	68.4	43.8	-66.3	0.00	0.00	0.00
3,700.0	3.05	32.62	3,697.7	72.9	46.6	-70.6	0.00	0.00	0.00
3,800.0	3.05	32.62	3,797.6	77.4	49.5	-75.0	0.00	0.00	0.00
3,900.0	3.05	32.62	3,897.4	81.9	52.4	-79.3	0.00	0.00	0.00
4,000.0	3.05	32.62	3,997.3	86.3	55.3	-83.7	0.00	0.00	0.00
4,100.0	3.05	32.62	4,097.2	90.8	58.1	-88.0	0.00	0.00	0.00
4,200.0	3.05	32.62	4,197.0	95.3	61.0	-92.4	0.00	0.00	0.00
4,300.0	3.05	32.62	4,296.9	99.8	63.9	-96.7	0.00	0.00	0.00
4,400.0	3.05	32.62	4,396.7	104.3	66.7	-101.1	0.00	0.00	0.00
4,500.0	3.05	32.62	4,496.6	108.8	69.6	-105.4	0.00	0.00	0.00
4,600.0	3.05	32.62	4,596.5	113.3	72.5	-109.8	0.00	0.00	0.00
4,700.0	3.05	32.62	4,696.3	117.8	75.4	-114.1	0.00	0.00	0.00
4,800.0	3.05	32.62	4,796.2	122.2	78.2	-118.5	0.00	0.00	0.00
4,900.0	3.05	32.62	4,896.0	126.7	81.1	-122.8	0.00	0.00	0.00
5,000.0	3.05	32.62	4,995.9	131.2	84.0	-127.2	0.00	0.00	0.00
5,100.0	3.05	32.62	5,095.7	135.7	86.8	-131.5	0.00	0.00	0.00
5,200.0	3.05	32.62	5,195.6	140.2	89.7	-135.9	0.00	0.00	0.00

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 Company: EOG Resources - Midland
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 Site: Audacious 19 Federal
 Well: #709H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #709H
 TVD Reference: KB = 25' @ 3486.0usft
 MD Reference: KB = 25' @ 3486.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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	3.05	32.62	5,295.5	144.7	92.6	-140.2	0.00	0.00	0.00
5,400.0	3.05	32.62	5,395.3	149.2	95.5	-144.6	0.00	0.00	0.00
5,500.0	3.05	32.62	5,495.2	153.7	98.3	-148.9	0.00	0.00	0.00
5,600.0	3.05	32.62	5,595.0	158.2	101.2	-153.3	0.00	0.00	0.00
5,700.0	3.05	32.62	5,694.9	162.6	104.1	-157.6	0.00	0.00	0.00
5,800.0	3.05	32.62	5,794.7	167.1	107.0	-162.0	0.00	0.00	0.00
5,900.0	3.05	32.62	5,894.6	171.6	109.8	-166.3	0.00	0.00	0.00
6,000.0	3.05	32.62	5,994.5	176.1	112.7	-170.7	0.00	0.00	0.00
6,100.0	3.05	32.62	6,094.3	180.6	115.6	-175.0	0.00	0.00	0.00
6,200.0	3.05	32.62	6,194.2	185.1	118.4	-179.4	0.00	0.00	0.00
6,300.0	3.05	32.62	6,294.0	189.6	121.3	-183.7	0.00	0.00	0.00
6,400.0	3.05	32.62	6,393.9	194.1	124.2	-188.1	0.00	0.00	0.00
6,500.0	3.05	32.62	6,493.8	198.5	127.1	-192.4	0.00	0.00	0.00
6,600.0	3.05	32.62	6,593.6	203.0	129.9	-196.8	0.00	0.00	0.00
6,700.0	3.05	32.62	6,693.5	207.5	132.8	-201.1	0.00	0.00	0.00
6,800.0	3.05	32.62	6,793.3	212.0	135.7	-205.5	0.00	0.00	0.00
6,900.0	3.05	32.62	6,893.2	216.5	138.5	-209.8	0.00	0.00	0.00
7,000.0	3.05	32.62	6,993.0	221.0	141.4	-214.2	0.00	0.00	0.00
7,100.0	3.05	32.62	7,092.9	225.5	144.3	-218.5	0.00	0.00	0.00
7,200.0	3.05	32.62	7,192.8	230.0	147.2	-222.9	0.00	0.00	0.00
7,300.0	3.05	32.62	7,292.6	234.5	150.0	-227.2	0.00	0.00	0.00
7,400.0	3.05	32.62	7,392.5	238.9	152.9	-231.6	0.00	0.00	0.00
7,500.0	3.05	32.62	7,492.3	243.4	155.8	-235.9	0.00	0.00	0.00
7,600.0	3.05	32.62	7,592.2	247.9	158.7	-240.3	0.00	0.00	0.00
7,700.0	3.05	32.62	7,692.0	252.4	161.5	-244.6	0.00	0.00	0.00
7,800.0	3.05	32.62	7,791.9	256.9	164.4	-249.0	0.00	0.00	0.00
7,900.0	3.05	32.62	7,891.8	261.4	167.3	-253.3	0.00	0.00	0.00
8,000.0	3.05	32.62	7,991.6	265.9	170.1	-257.7	0.00	0.00	0.00
8,100.0	3.05	32.62	8,091.5	270.4	173.0	-262.0	0.00	0.00	0.00
8,200.0	3.05	32.62	8,191.3	274.9	175.9	-266.4	0.00	0.00	0.00
8,300.0	3.05	32.62	8,291.2	279.3	178.8	-270.7	0.00	0.00	0.00
8,400.0	3.05	32.62	8,391.1	283.8	181.6	-275.1	0.00	0.00	0.00
8,500.0	3.05	32.62	8,490.9	288.3	184.5	-279.4	0.00	0.00	0.00
8,600.0	3.05	32.62	8,590.8	292.8	187.4	-283.8	0.00	0.00	0.00
8,700.0	3.05	32.62	8,690.6	297.3	190.2	-288.1	0.00	0.00	0.00
8,800.0	3.05	32.62	8,790.5	301.8	193.1	-292.5	0.00	0.00	0.00
8,900.0	3.05	32.62	8,890.3	306.3	196.0	-296.8	0.00	0.00	0.00
9,000.0	3.05	32.62	8,990.2	310.8	198.9	-301.2	0.00	0.00	0.00
9,100.0	3.05	32.62	9,090.1	315.2	201.7	-305.5	0.00	0.00	0.00
9,200.0	3.05	32.62	9,189.9	319.7	204.6	-309.9	0.00	0.00	0.00
9,300.0	3.05	32.62	9,289.8	324.2	207.5	-314.2	0.00	0.00	0.00
9,400.0	3.05	32.62	9,389.6	328.7	210.4	-318.6	0.00	0.00	0.00
9,500.0	3.05	32.62	9,489.5	333.2	213.2	-322.9	0.00	0.00	0.00
9,600.0	3.05	32.62	9,589.3	337.7	216.1	-327.2	0.00	0.00	0.00
9,700.0	3.05	32.62	9,689.2	342.2	219.0	-331.6	0.00	0.00	0.00
9,800.0	3.05	32.62	9,789.1	346.7	221.8	-335.9	0.00	0.00	0.00
9,900.0	3.05	32.62	9,888.9	351.2	224.7	-340.3	0.00	0.00	0.00
10,000.0	3.05	32.62	9,988.8	355.6	227.6	-344.6	0.00	0.00	0.00
10,100.0	3.05	32.62	10,088.6	360.1	230.5	-349.0	0.00	0.00	0.00
10,200.0	3.05	32.62	10,188.5	364.6	233.3	-353.3	0.00	0.00	0.00
10,300.0	3.05	32.62	10,288.4	369.1	236.2	-357.7	0.00	0.00	0.00
10,400.0	3.05	32.62	10,388.2	373.6	239.1	-362.0	0.00	0.00	0.00
10,500.0	3.05	32.62	10,488.1	378.1	241.9	-366.4	0.00	0.00	0.00
10,600.0	3.05	32.62	10,587.9	382.6	244.8	-370.7	0.00	0.00	0.00

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Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25' @ 3486.0usft
MD Reference: KB = 25' @ 3486.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	3.05	32.62	10,687.8	387.1	247.7	-375.1	0.00	0.00	0.00
10,800.0	3.05	32.62	10,787.6	391.5	250.6	-379.4	0.00	0.00	0.00
10,900.0	3.05	32.62	10,887.5	396.0	253.4	-383.8	0.00	0.00	0.00
11,000.0	3.05	32.62	10,987.4	400.5	256.3	-388.1	0.00	0.00	0.00
11,100.0	3.05	32.62	11,087.2	405.0	259.2	-392.5	0.00	0.00	0.00
11,200.0	3.05	32.62	11,187.1	409.5	262.1	-396.8	0.00	0.00	0.00
11,300.0	3.05	32.62	11,286.9	414.0	264.9	-401.2	0.00	0.00	0.00
11,400.0	3.05	32.62	11,386.8	418.5	267.8	-405.5	0.00	0.00	0.00
11,500.0	3.05	32.62	11,486.6	423.0	270.7	-409.9	0.00	0.00	0.00
11,600.0	3.05	32.62	11,586.5	427.5	273.5	-414.2	0.00	0.00	0.00
11,700.0	3.05	32.62	11,686.4	431.9	276.4	-418.6	0.00	0.00	0.00
11,800.0	3.05	32.62	11,786.2	436.4	279.3	-422.9	0.00	0.00	0.00
11,827.2	3.05	32.62	11,813.4	437.7	280.1	-424.1	0.00	0.00	0.00
11,850.0	1.67	95.54	11,836.2	438.1	280.7	-424.6	12.00	-6.07	276.19
11,875.0	3.58	152.00	11,861.1	437.4	281.5	-423.8	12.00	7.64	225.85
11,900.0	6.39	164.62	11,886.0	435.4	282.2	-421.8	12.00	11.24	50.48
11,925.0	9.32	169.46	11,910.8	432.0	282.9	-418.4	12.00	11.72	19.34
11,950.0	12.28	171.99	11,935.4	427.4	283.7	-413.7	12.00	11.85	10.11
11,975.0	15.26	173.54	11,959.6	421.5	284.4	-407.8	12.00	11.91	6.22
12,000.0	18.24	174.60	11,983.6	414.3	285.2	-400.6	12.00	11.94	4.23
12,025.0	21.23	175.36	12,007.1	405.9	285.9	-392.2	12.00	11.96	3.07
12,050.0	24.23	175.95	12,030.2	396.3	286.6	-382.5	12.00	11.97	2.34
12,075.0	27.22	176.41	12,052.7	385.5	287.3	-371.7	12.00	11.97	1.86
12,100.0	30.21	176.79	12,074.6	373.5	288.0	-359.7	12.00	11.98	1.51
12,125.0	33.21	177.11	12,095.9	360.4	288.7	-346.5	12.00	11.98	1.26
12,150.0	36.20	177.38	12,116.4	346.2	289.4	-332.3	12.00	11.98	1.08
12,175.0	39.20	177.61	12,136.2	330.9	290.1	-317.0	12.00	11.99	0.93
12,200.0	42.20	177.81	12,155.1	314.6	290.7	-300.7	12.00	11.99	0.82
12,225.0	45.20	178.00	12,173.2	297.3	291.4	-283.4	12.00	11.99	0.73
12,250.0	48.19	178.16	12,190.4	279.2	292.0	-265.2	12.00	11.99	0.66
FTP (Audacious 19 Federal #709H)									
12,275.0	51.19	178.31	12,206.5	260.1	292.6	-246.2	12.00	11.99	0.60
12,300.0	54.19	178.45	12,221.7	240.2	293.1	-226.3	12.00	11.99	0.55
12,325.0	57.19	178.58	12,235.8	219.6	293.7	-205.7	12.00	11.99	0.51
12,350.0	60.19	178.70	12,248.8	198.2	294.2	-184.3	12.00	11.99	0.48
12,375.0	63.18	178.81	12,260.6	176.2	294.7	-162.3	12.00	11.99	0.45
12,400.0	66.18	178.92	12,271.3	153.6	295.1	-139.7	12.00	11.99	0.43
12,425.0	69.18	179.02	12,280.8	130.5	295.5	-116.6	12.00	11.99	0.41
12,450.0	72.18	179.12	12,289.1	106.9	295.9	-93.0	12.00	11.99	0.39
12,475.0	75.18	179.21	12,296.1	83.0	296.3	-69.1	12.00	11.99	0.38
12,500.0	78.18	179.30	12,301.9	58.6	296.6	-44.7	12.00	11.99	0.37
12,525.0	81.18	179.39	12,306.3	34.0	296.9	-20.2	12.00	11.99	0.36
12,550.0	84.17	179.48	12,309.5	9.2	297.1	4.6	12.00	11.99	0.35
12,575.0	87.17	179.57	12,311.4	-15.7	297.3	29.5	12.00	11.99	0.35
12,598.6	90.00	179.65	12,312.0	-39.2	297.5	53.1	12.00	11.99	0.35
12,600.0	90.00	179.65	12,312.0	-40.7	297.5	54.5	0.00	0.00	0.00
12,700.0	90.00	179.65	12,312.0	-140.7	298.1	154.4	0.00	0.00	0.00
12,800.0	90.00	179.65	12,312.0	-240.7	298.7	254.3	0.00	0.00	0.00
12,900.0	90.00	179.65	12,312.0	-340.7	299.3	354.2	0.00	0.00	0.00
13,000.0	90.00	179.65	12,312.0	-440.7	299.9	454.2	0.00	0.00	0.00
13,100.0	90.00	179.65	12,312.0	-540.7	300.5	554.1	0.00	0.00	0.00
13,200.0	90.00	179.65	12,312.0	-640.7	301.1	654.0	0.00	0.00	0.00
13,300.0	90.00	179.65	12,312.0	-740.7	301.7	753.9	0.00	0.00	0.00

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Planned Survey

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13,400.0	90.00	179.65	12,312.0	-840.7	302.4	853.8	0.00	0.00	0.00
13,500.0	90.00	179.65	12,312.0	-940.6	303.0	953.7	0.00	0.00	0.00
13,600.0	90.00	179.65	12,312.0	-1,040.6	303.6	1,053.7	0.00	0.00	0.00
13,700.0	90.00	179.65	12,312.0	-1,140.6	304.2	1,153.6	0.00	0.00	0.00
13,800.0	90.00	179.65	12,312.0	-1,240.6	304.8	1,253.5	0.00	0.00	0.00
13,900.0	90.00	179.65	12,312.0	-1,340.6	305.4	1,353.4	0.00	0.00	0.00
14,000.0	90.00	179.65	12,312.0	-1,440.6	306.0	1,453.3	0.00	0.00	0.00
14,100.0	90.00	179.65	12,312.0	-1,540.6	306.6	1,553.3	0.00	0.00	0.00
14,200.0	90.00	179.65	12,312.0	-1,640.6	307.2	1,653.2	0.00	0.00	0.00
14,300.0	90.00	179.65	12,312.0	-1,740.6	307.9	1,753.1	0.00	0.00	0.00
14,400.0	90.00	179.65	12,312.0	-1,840.6	308.5	1,853.0	0.00	0.00	0.00
14,500.0	90.00	179.65	12,312.0	-1,940.6	309.1	1,952.9	0.00	0.00	0.00
14,600.0	90.00	179.65	12,312.0	-2,040.6	309.7	2,052.8	0.00	0.00	0.00
14,700.0	90.00	179.65	12,312.0	-2,140.6	310.3	2,152.8	0.00	0.00	0.00
14,800.0	90.00	179.65	12,312.0	-2,240.6	310.9	2,252.7	0.00	0.00	0.00
14,900.0	90.00	179.65	12,312.0	-2,340.6	311.5	2,352.6	0.00	0.00	0.00
15,000.0	90.00	179.65	12,312.0	-2,440.6	312.1	2,452.5	0.00	0.00	0.00
15,100.0	90.00	179.65	12,312.0	-2,540.6	312.7	2,552.4	0.00	0.00	0.00
15,200.0	90.00	179.65	12,312.0	-2,640.6	313.4	2,652.4	0.00	0.00	0.00
15,300.0	90.00	179.65	12,312.0	-2,740.6	314.0	2,752.3	0.00	0.00	0.00
15,400.0	90.00	179.65	12,312.0	-2,840.6	314.6	2,852.2	0.00	0.00	0.00
15,500.0	90.00	179.65	12,312.0	-2,940.6	315.2	2,952.1	0.00	0.00	0.00
15,600.0	90.00	179.65	12,312.0	-3,040.6	315.8	3,052.0	0.00	0.00	0.00
15,700.0	90.00	179.65	12,312.0	-3,140.6	316.4	3,151.9	0.00	0.00	0.00
15,800.0	90.00	179.65	12,312.0	-3,240.6	317.0	3,251.9	0.00	0.00	0.00
15,900.0	90.00	179.65	12,312.0	-3,340.6	317.6	3,351.8	0.00	0.00	0.00
16,000.0	90.00	179.65	12,312.0	-3,440.6	318.2	3,451.7	0.00	0.00	0.00
16,100.0	90.00	179.65	12,312.0	-3,540.6	318.9	3,551.6	0.00	0.00	0.00
16,200.0	90.00	179.65	12,312.0	-3,640.6	319.5	3,651.5	0.00	0.00	0.00
16,300.0	90.00	179.65	12,312.0	-3,740.6	320.1	3,751.4	0.00	0.00	0.00
16,400.0	90.00	179.65	12,312.0	-3,840.6	320.7	3,851.4	0.00	0.00	0.00
16,500.0	90.00	179.65	12,312.0	-3,940.6	321.3	3,951.3	0.00	0.00	0.00
16,600.0	90.00	179.65	12,312.0	-4,040.6	321.9	4,051.2	0.00	0.00	0.00
16,700.0	90.00	179.65	12,312.0	-4,140.6	322.5	4,151.1	0.00	0.00	0.00
16,800.0	90.00	179.65	12,312.0	-4,240.6	323.1	4,251.0	0.00	0.00	0.00
16,900.0	90.00	179.65	12,312.0	-4,340.6	323.7	4,351.0	0.00	0.00	0.00
17,000.0	90.00	179.65	12,312.0	-4,440.6	324.3	4,450.9	0.00	0.00	0.00
17,100.0	90.00	179.65	12,312.0	-4,540.6	325.0	4,550.8	0.00	0.00	0.00
17,200.0	90.00	179.65	12,312.0	-4,640.6	325.6	4,650.7	0.00	0.00	0.00
17,300.0	90.00	179.65	12,312.0	-4,740.6	326.2	4,750.6	0.00	0.00	0.00
17,400.0	90.00	179.65	12,312.0	-4,840.6	326.8	4,850.5	0.00	0.00	0.00
17,500.0	90.00	179.65	12,312.0	-4,940.6	327.4	4,950.5	0.00	0.00	0.00
17,600.0	90.00	179.65	12,312.0	-5,040.6	328.0	5,050.4	0.00	0.00	0.00
17,700.0	90.00	179.65	12,312.0	-5,140.6	328.6	5,150.3	0.00	0.00	0.00
17,800.0	90.00	179.65	12,312.0	-5,240.6	329.2	5,250.2	0.00	0.00	0.00
17,900.0	90.00	179.65	12,312.0	-5,340.6	329.8	5,350.1	0.00	0.00	0.00
18,000.0	90.00	179.65	12,312.0	-5,440.6	330.5	5,450.1	0.00	0.00	0.00
18,100.0	90.00	179.65	12,312.0	-5,540.6	331.1	5,550.0	0.00	0.00	0.00
18,200.0	90.00	179.65	12,312.0	-5,640.6	331.7	5,649.9	0.00	0.00	0.00
18,300.0	90.00	179.65	12,312.0	-5,740.6	332.3	5,749.8	0.00	0.00	0.00
18,400.0	90.00	179.65	12,312.0	-5,840.6	332.9	5,849.7	0.00	0.00	0.00
18,500.0	90.00	179.65	12,312.0	-5,940.6	333.5	5,949.6	0.00	0.00	0.00
18,600.0	90.00	179.65	12,312.0	-6,040.6	334.1	6,049.6	0.00	0.00	0.00
18,700.0	90.00	179.65	12,312.0	-6,140.6	334.7	6,149.5	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Audacious 19 Federal
Well: #709H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25' @ 3486.0usft
MD Reference: KB = 25' @ 3486.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
18,800.0	90.00	179.65	12,312.0	-6,240.6	335.3	6,249.4	0.00	0.00	0.00
18,900.0	90.00	179.65	12,312.0	-6,340.5	336.0	6,349.3	0.00	0.00	0.00
19,000.0	90.00	179.65	12,312.0	-6,440.5	336.6	6,449.2	0.00	0.00	0.00
19,100.0	90.00	179.65	12,312.0	-6,540.5	337.2	6,549.2	0.00	0.00	0.00
19,200.0	90.00	179.65	12,312.0	-6,640.5	337.8	6,649.1	0.00	0.00	0.00
19,300.0	90.00	179.65	12,312.0	-6,740.5	338.4	6,749.0	0.00	0.00	0.00
19,400.0	90.00	179.65	12,312.0	-6,840.5	339.0	6,848.9	0.00	0.00	0.00
19,500.0	90.00	179.65	12,312.0	-6,940.5	339.6	6,948.8	0.00	0.00	0.00
19,600.0	90.00	179.65	12,312.0	-7,040.5	340.2	7,048.7	0.00	0.00	0.00
19,700.0	90.00	179.65	12,312.0	-7,140.5	340.8	7,148.7	0.00	0.00	0.00
19,800.0	90.00	179.65	12,312.0	-7,240.5	341.5	7,248.6	0.00	0.00	0.00
19,889.5	90.00	179.65	12,312.0	-7,330.0	342.0	7,338.0	0.00	0.00	0.00

PBHL (Audacious 19 Federal #709H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Audacious 19 Fedr - hit/miss target - Shape - Point	0.00	0.00	12,312.0	391.0	294.0	406,612.00	763,905.00	32° 6' 56.934 N	103° 36' 52.017 W
- plan misses target center by 165.2usft at 12250.0usft MD (12190.4 TVD, 279.2 N, 292.0 E)									
PBHL (Audacious 19 Fe - plan hits target center - Point	0.00	0.00	12,312.0	-7,330.0	342.0	398,891.00	763,953.00	32° 5' 40.528 N	103° 36' 52.058 W