

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 alter 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.

8. Well Name and No.
AUDACIOUS 19 FEDERAL 601H9. API Well No.
30-025-45039-00-X110. Field and Pool or Exploratory Area
RED HILL/S-BONE SPRINGS11. County or Parish, State
LEA COUNTY, NM**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: RENEE JARRATT

E-Mail: renee_jarratt@eogresources.com

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-686-3684

Fx: 432-686-6921

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

Sec 19 T25S R33E 2186FSL 879FWL
32.114838 N Lat, 103.617065 W Lon

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

TYPE OF SUBMISSION

TYPE OF ACTION

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

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 recomple 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.

EOG Resources 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 & 670' FWL sesw-30-25S-33E

Change TVD to: 12600'. Upper Wolfcamp target

Change well Name/Number to: Audacious 19 Federal 721H

Carlsbad Field Office
OCD Hobbs

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

Electronic Submission #432816 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 (18PP1786SE)

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 **

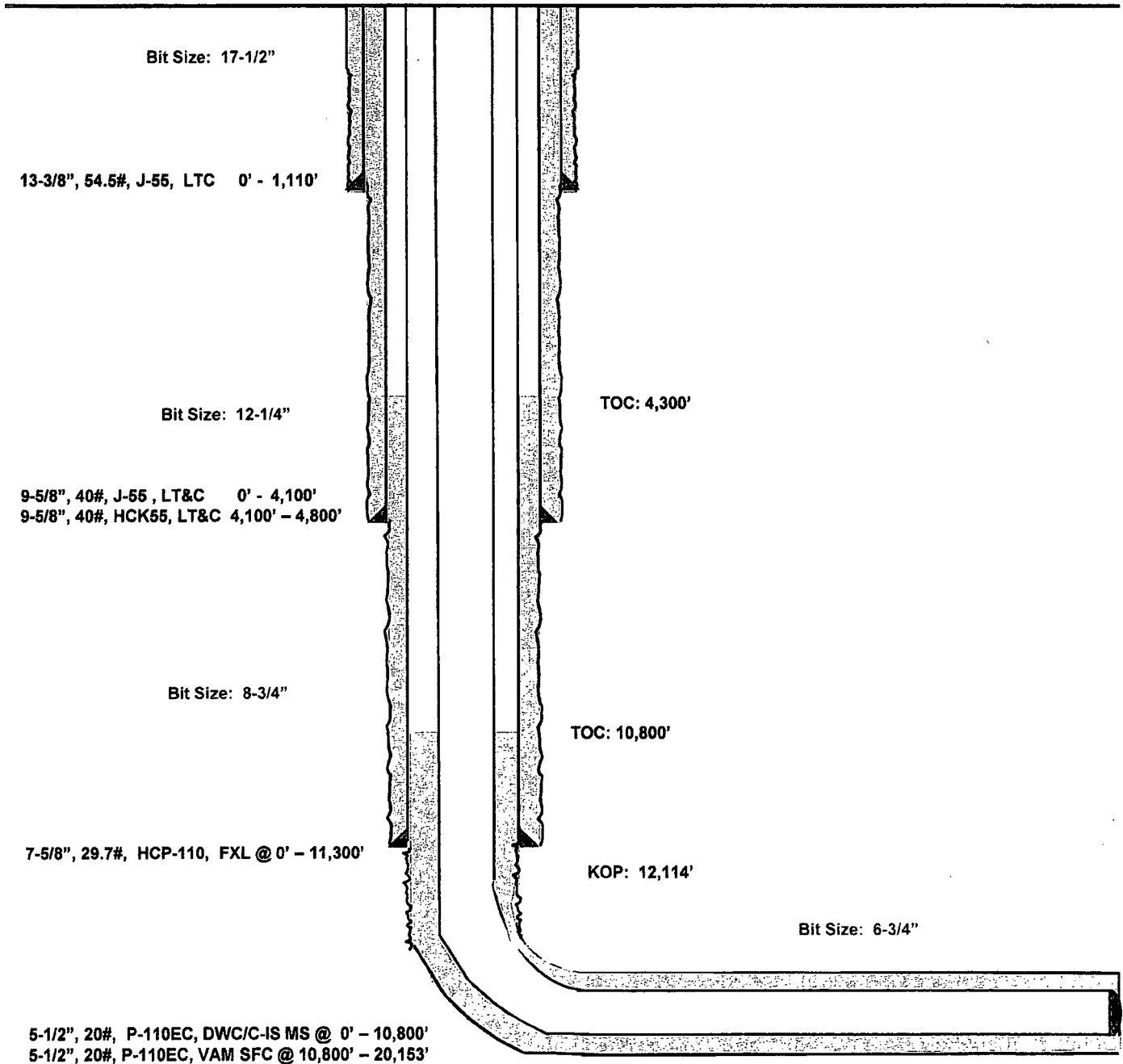
KZ

**Audacious 19 Fed #721H
Lea County, New Mexico**

**2186' FSL
879' FWL
Section 19
T-25-S, R-33-E**

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

**KB: 3,489'
GL: 3,464'**



**Lateral: 20,153' MD, 12,600' TVD
Upper Most Perf:
2542' FSL & 670' FWL Sec. 19
Lower Most Perf:
100' FSL & 670' FWL Sec. 30
BH Location: 100' FSL & 670' FWL
Section 30
T-25-S, R-33-E**

Revised Permit Information 7/27/18:

Well Name: Audacious 19 Federal No. 721H

Location:

SL: 2186' FSL & 879' FWL, Section 19, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 670' 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'-20,153'	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" 20,153'	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' – 20,153' Lateral	Oil Base	10.0-14.0	58-68	3 - 6



Lea County, NM (NAD 83 NME)

Audacious 19 Federal #721H

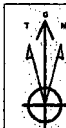
Plan #0.2

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: #721H

KB = 25' @ 3489.0uoft
Northing 404291.00 Easting 763097.00
32° 6' 53.415 N 102° 37' 1.440 W



Azimuths to Grid North
True North: -0.38°
Magnetic North: 5.51°
Magnetic Field
Strength: 47000.0uoft
Dip Angle: 66.95°
Date: 2/13/2018
Model: IGRF2018

To convert a Magnetic Direction to a Grid Direction, Add 0.51°
To convert a Magnetic Direction to a True Direction, Add 0.90° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

SECTION DETAILS

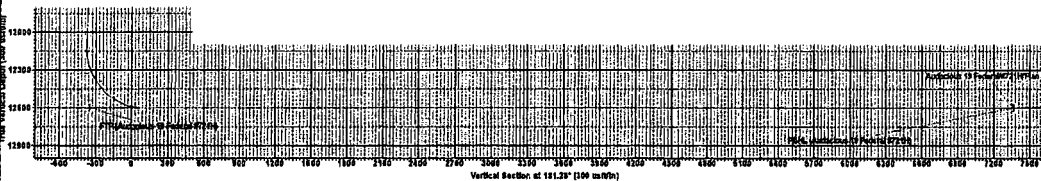
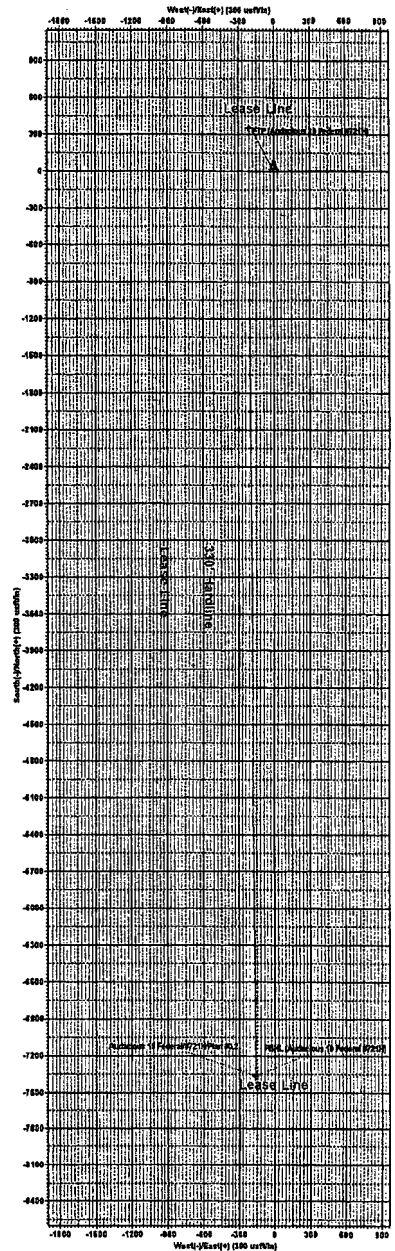
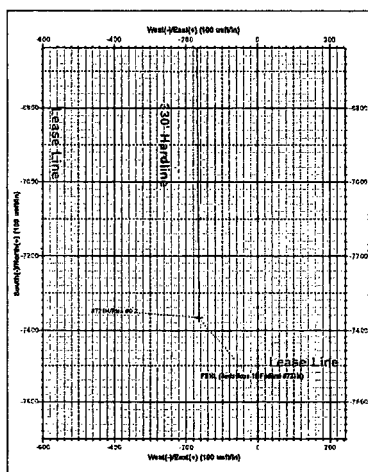
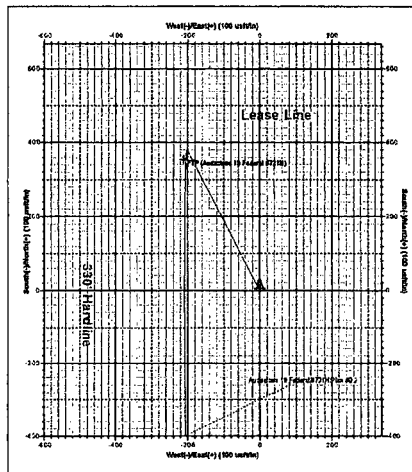
Sec	MD	Inc	Ati	TVD	+N-S	+E-W	Dip	TFace	Vface	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0		
2	2000.0	0.00	0.00	2000.0	0.0	0.00	0.00	0.00	0.0		
3	2123.0	2.48	332.16	2123.9	2.5	-1.2	2.00	332.16	-2.3		
4	12113.7	2.48	332.16	12104.8	301.4	-381.8	0.00	0.00	-378.9		
5	12891.9	90.00	178.85	12809.0	-88.7	-268.4	12.00	-162.43	100.4		
6	20163.5	90.00	178.85	12809.0	-7387.0	-164.0	0.00	0.00	7388.0		PBHL (Audacious 19 Federal #721H)

CASING DETAILS

No casing data is available

WELLCORE YAROEY DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP (Audacious 19 Federal #721H)	12800.0	354.0	-212.0	404296.00	762896.00
PBHL (Audacious 19 Federal #721H)	12800.0	-7387.0	-164.0	398854.00	762833.00



UTM Zone 18Q UTM Datum NAD 83 UTM Spheroid GRS 1980 UTM Ellipsoid GRS 1980 UTM Units Meter UTM False Easting 500000 UTM False Northing 0 UTM Scale Factor 0.9996012315068



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Audacious 19 Federal

#721H

OH

Plan: Plan #0.2

Standard Planning Report

27 July, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Audacious 19 Federal
Well: #721H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #721H
TVD Reference: KB = 25' @ 3489.0usft
MD Reference: KB = 25' @ 3489.0usft
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:		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	#721H			
Well Position	+N-S	0.0 usft	Northing: 406,251.00 usft	Latitude: 32° 6' 53.415 N
	+E-W	0.0 usft	Easting: 763,097.00 usft	Longitude: 103° 37' 1.440 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level: 3,464.0 usft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	IGRF2015	2/13/2018	6.90	59.95	47,800.33282199	

Design	Plan #0.2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	181.28

Plan Survey Tool Program	Date 7/27/2018			
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	20,153.3 Plan #0.2 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
2,123.0	2.46	332.15	2,122.9	2.3	-1.2	2.00	2.00	0.00	332.15	
12,113.7	2.46	332.15	12,104.5	381.4	-201.5	0.00	0.00	0.00	0.00	
12,881.9	90.00	179.65	12,600.0	-95.7	-208.4	12.00	11.40	-19.85	-152.48	
20,153.3	90.00	179.65	12,600.0	-7,367.0	-164.0	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: #721H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #721H
 TVD Reference: KB = 25' @ 3489.0usft
 MD Reference: KB = 25' @ 3489.0usft
 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	332.15	2,100.0	1.5	-0.8	-1.5	2.00	2.00	0.00
2,123.0	2.46	332.15	2,122.9	2.3	-1.2	-2.3	2.00	2.00	0.00
2,200.0	2.46	332.15	2,199.9	5.3	-2.8	-5.2	0.00	0.00	0.00
2,300.0	2.46	332.15	2,299.8	9.1	-4.8	-8.9	0.00	0.00	0.00
2,400.0	2.46	332.15	2,399.7	12.8	-6.8	-12.7	0.00	0.00	0.00
2,500.0	2.46	332.15	2,499.6	16.6	-8.8	-16.4	0.00	0.00	0.00
2,600.0	2.46	332.15	2,599.5	20.4	-10.8	-20.2	0.00	0.00	0.00
2,700.0	2.46	332.15	2,699.4	24.2	-12.8	-23.9	0.00	0.00	0.00
2,800.0	2.46	332.15	2,799.3	28.0	-14.8	-27.7	0.00	0.00	0.00
2,900.0	2.46	332.15	2,899.2	31.8	-16.8	-31.4	0.00	0.00	0.00
3,000.0	2.46	332.15	2,999.2	35.6	-18.8	-35.2	0.00	0.00	0.00
3,100.0	2.46	332.15	3,099.1	39.4	-20.8	-38.9	0.00	0.00	0.00
3,200.0	2.46	332.15	3,199.0	43.2	-22.8	-42.7	0.00	0.00	0.00
3,300.0	2.46	332.15	3,298.9	47.0	-24.8	-46.4	0.00	0.00	0.00
3,400.0	2.46	332.15	3,398.8	50.8	-26.8	-50.2	0.00	0.00	0.00
3,500.0	2.46	332.15	3,498.7	54.6	-28.8	-53.9	0.00	0.00	0.00
3,600.0	2.46	332.15	3,598.6	58.4	-30.8	-57.7	0.00	0.00	0.00
3,700.0	2.46	332.15	3,698.5	62.2	-32.8	-61.4	0.00	0.00	0.00
3,800.0	2.46	332.15	3,798.4	66.0	-34.9	-65.2	0.00	0.00	0.00
3,900.0	2.46	332.15	3,898.3	69.8	-36.9	-68.9	0.00	0.00	0.00
4,000.0	2.46	332.15	3,998.2	73.6	-38.9	-72.7	0.00	0.00	0.00
4,100.0	2.46	332.15	4,098.1	77.4	-40.9	-76.4	0.00	0.00	0.00
4,200.0	2.46	332.15	4,198.0	81.1	-42.9	-80.2	0.00	0.00	0.00
4,300.0	2.46	332.15	4,298.0	84.9	-44.9	-83.9	0.00	0.00	0.00
4,400.0	2.46	332.15	4,397.9	88.7	-46.9	-87.7	0.00	0.00	0.00
4,500.0	2.46	332.15	4,497.8	92.5	-48.9	-91.4	0.00	0.00	0.00
4,600.0	2.46	332.15	4,597.7	96.3	-50.9	-95.2	0.00	0.00	0.00
4,700.0	2.46	332.15	4,697.6	100.1	-52.9	-98.9	0.00	0.00	0.00
4,800.0	2.46	332.15	4,797.5	103.9	-54.9	-102.7	0.00	0.00	0.00
4,900.0	2.46	332.15	4,897.4	107.7	-56.9	-106.4	0.00	0.00	0.00
5,000.0	2.46	332.15	4,997.3	111.5	-58.9	-110.2	0.00	0.00	0.00
5,100.0	2.46	332.15	5,097.2	115.3	-60.9	-113.9	0.00	0.00	0.00
5,200.0	2.46	332.15	5,197.1	119.1	-62.9	-117.7	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: #721H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #721H
 TVD Reference: KB = 25' @ 3489.0usft
 MD Reference: KB = 25' @ 3489.0usft
 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	2.46	332.15	5,297.0	122.9	-64.9	-121.4	0.00	0.00	0.00
5,400.0	2.46	332.15	5,396.9	126.7	-66.9	-125.2	0.00	0.00	0.00
5,500.0	2.46	332.15	5,496.9	130.5	-68.9	-128.9	0.00	0.00	0.00
5,600.0	2.46	332.15	5,596.8	134.3	-70.9	-132.7	0.00	0.00	0.00
5,700.0	2.46	332.15	5,696.7	138.1	-72.9	-136.4	0.00	0.00	0.00
5,800.0	2.46	332.15	5,796.6	141.9	-74.9	-140.2	0.00	0.00	0.00
5,900.0	2.46	332.15	5,896.5	145.7	-76.9	-143.9	0.00	0.00	0.00
6,000.0	2.46	332.15	5,996.4	149.4	-79.0	-147.7	0.00	0.00	0.00
6,100.0	2.46	332.15	6,096.3	153.2	-81.0	-151.4	0.00	0.00	0.00
6,200.0	2.46	332.15	6,196.2	157.0	-83.0	-155.2	0.00	0.00	0.00
6,300.0	2.46	332.15	6,296.1	160.8	-85.0	-158.9	0.00	0.00	0.00
6,400.0	2.46	332.15	6,396.0	164.6	-87.0	-162.6	0.00	0.00	0.00
6,500.0	2.46	332.15	6,495.9	168.4	-89.0	-166.4	0.00	0.00	0.00
6,600.0	2.46	332.15	6,595.8	172.2	-91.0	-170.1	0.00	0.00	0.00
6,700.0	2.46	332.15	6,695.7	176.0	-93.0	-173.9	0.00	0.00	0.00
6,800.0	2.46	332.15	6,795.7	179.8	-95.0	-177.6	0.00	0.00	0.00
6,900.0	2.46	332.15	6,895.6	183.6	-97.0	-181.4	0.00	0.00	0.00
7,000.0	2.46	332.15	6,995.5	187.4	-99.0	-185.1	0.00	0.00	0.00
7,100.0	2.46	332.15	7,095.4	191.2	-101.0	-188.9	0.00	0.00	0.00
7,200.0	2.46	332.15	7,195.3	195.0	-103.0	-192.6	0.00	0.00	0.00
7,300.0	2.46	332.15	7,295.2	198.8	-105.0	-196.4	0.00	0.00	0.00
7,400.0	2.46	332.15	7,395.1	202.6	-107.0	-200.1	0.00	0.00	0.00
7,500.0	2.46	332.15	7,495.0	206.4	-109.0	-203.9	0.00	0.00	0.00
7,600.0	2.46	332.15	7,594.9	210.2	-111.0	-207.6	0.00	0.00	0.00
7,700.0	2.46	332.15	7,694.8	214.0	-113.0	-211.4	0.00	0.00	0.00
7,800.0	2.46	332.15	7,794.7	217.7	-115.0	-215.1	0.00	0.00	0.00
7,900.0	2.46	332.15	7,894.6	221.5	-117.0	-218.9	0.00	0.00	0.00
8,000.0	2.46	332.15	7,994.5	225.3	-119.0	-222.6	0.00	0.00	0.00
8,100.0	2.46	332.15	8,094.5	229.1	-121.0	-226.4	0.00	0.00	0.00
8,200.0	2.46	332.15	8,194.4	232.9	-123.1	-230.1	0.00	0.00	0.00
8,300.0	2.46	332.15	8,294.3	236.7	-125.1	-233.9	0.00	0.00	0.00
8,400.0	2.46	332.15	8,394.2	240.5	-127.1	-237.6	0.00	0.00	0.00
8,500.0	2.46	332.15	8,494.1	244.3	-129.1	-241.4	0.00	0.00	0.00
8,600.0	2.46	332.15	8,594.0	248.1	-131.1	-245.1	0.00	0.00	0.00
8,700.0	2.46	332.15	8,693.9	251.9	-133.1	-248.9	0.00	0.00	0.00
8,800.0	2.46	332.15	8,793.8	255.7	-135.1	-252.6	0.00	0.00	0.00
8,900.0	2.46	332.15	8,893.7	259.5	-137.1	-256.4	0.00	0.00	0.00
9,000.0	2.46	332.15	8,993.6	263.3	-139.1	-260.1	0.00	0.00	0.00
9,100.0	2.46	332.15	9,093.5	267.1	-141.1	-263.9	0.00	0.00	0.00
9,200.0	2.46	332.15	9,193.4	270.9	-143.1	-267.6	0.00	0.00	0.00
9,300.0	2.46	332.15	9,293.4	274.7	-145.1	-271.4	0.00	0.00	0.00
9,400.0	2.46	332.15	9,393.3	278.5	-147.1	-275.1	0.00	0.00	0.00
9,500.0	2.46	332.15	9,493.2	282.3	-149.1	-278.9	0.00	0.00	0.00
9,600.0	2.46	332.15	9,593.1	286.1	-151.1	-282.6	0.00	0.00	0.00
9,700.0	2.46	332.15	9,693.0	289.8	-153.1	-286.4	0.00	0.00	0.00
9,800.0	2.46	332.15	9,792.9	293.6	-155.1	-290.1	0.00	0.00	0.00
9,900.0	2.46	332.15	9,892.8	297.4	-157.1	-293.9	0.00	0.00	0.00
10,000.0	2.46	332.15	9,992.7	301.2	-159.1	-297.6	0.00	0.00	0.00
10,100.0	2.46	332.15	10,092.6	305.0	-161.1	-301.4	0.00	0.00	0.00
10,200.0	2.46	332.15	10,192.5	308.8	-163.1	-305.1	0.00	0.00	0.00
10,300.0	2.46	332.15	10,292.4	312.6	-165.1	-308.9	0.00	0.00	0.00
10,400.0	2.46	332.15	10,392.3	316.4	-167.2	-312.6	0.00	0.00	0.00
10,500.0	2.46	332.15	10,492.2	320.2	-169.2	-316.4	0.00	0.00	0.00
10,600.0	2.46	332.15	10,592.2	324.0	-171.2	-320.1	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: #721H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #721H
 TVD Reference: KB = 25' @ 3489.0usft
 MD Reference: KB = 25' @ 3489.0usft
 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	2.46	332.15	10,692.1	327.8	-173.2	-323.9	0.00	0.00	0.00
10,800.0	2.46	332.15	10,792.0	331.6	-175.2	-327.6	0.00	0.00	0.00
10,900.0	2.46	332.15	10,891.9	335.4	-177.2	-331.4	0.00	0.00	0.00
11,000.0	2.46	332.15	10,991.8	339.2	-179.2	-335.1	0.00	0.00	0.00
11,100.0	2.46	332.15	11,091.7	343.0	-181.2	-338.9	0.00	0.00	0.00
11,200.0	2.46	332.15	11,191.6	346.8	-183.2	-342.6	0.00	0.00	0.00
11,300.0	2.46	332.15	11,291.5	350.6	-185.2	-346.3	0.00	0.00	0.00
11,400.0	2.46	332.15	11,391.4	354.4	-187.2	-350.1	0.00	0.00	0.00
11,500.0	2.46	332.15	11,491.3	358.1	-189.2	-353.8	0.00	0.00	0.00
11,600.0	2.46	332.15	11,591.2	361.9	-191.2	-357.6	0.00	0.00	0.00
11,700.0	2.46	332.15	11,691.1	365.7	-193.2	-361.3	0.00	0.00	0.00
11,800.0	2.46	332.15	11,791.0	369.5	-195.2	-365.1	0.00	0.00	0.00
11,900.0	2.46	332.15	11,891.0	373.3	-197.2	-368.8	0.00	0.00	0.00
12,000.0	2.46	332.15	11,990.9	377.1	-199.2	-372.6	0.00	0.00	0.00
12,100.0	2.46	332.15	12,090.8	380.9	-201.2	-376.3	0.00	0.00	0.00
12,113.7	2.46	332.15	12,104.5	381.4	-201.6	-376.9	0.00	0.00	0.00
12,125.0	1.40	305.65	12,115.8	381.7	-201.7	-377.1	12.00	-9.34	-234.48
12,150.0	2.45	207.22	12,140.7	381.4	-202.2	-376.8	12.00	4.20	-393.72
12,175.0	5.30	192.00	12,165.7	379.8	-202.7	-375.2	12.00	11.38	-60.89
12,200.0	8.25	187.51	12,190.5	376.9	-203.2	-372.3	12.00	11.82	-17.96
12,225.0	11.23	185.38	12,215.1	372.7	-203.6	-368.1	12.00	11.92	-8.51
12,250.0	14.22	184.14	12,239.5	367.2	-204.1	-362.6	12.00	11.95	-4.97
12,275.0	17.21	183.32	12,263.6	360.5	-204.5	-355.8	12.00	11.97	-3.27
12,300.0	20.21	182.74	12,287.3	352.5	-205.0	-347.8	12.00	11.98	-2.33
12,325.0	23.20	182.30	12,310.5	343.2	-205.4	-338.6	12.00	11.98	-1.75
12,350.0	26.20	181.96	12,333.2	332.8	-205.7	-328.1	12.00	11.99	-1.37
12,375.0	29.19	181.68	12,355.3	321.2	-206.1	-316.5	12.00	11.99	-1.10
12,400.0	32.19	181.46	12,376.8	308.4	-206.5	-303.8	12.00	11.99	-0.92
12,425.0	35.19	181.26	12,397.6	294.6	-206.8	-289.9	12.00	11.99	-0.77
12,450.0	38.19	181.09	12,417.7	279.6	-207.1	-275.0	12.00	11.99	-0.67
12,475.0	41.19	180.95	12,436.9	263.7	-207.4	-259.0	12.00	11.99	-0.58
12,500.0	44.19	180.82	12,455.3	246.7	-207.6	-242.0	12.00	11.99	-0.52
12,524.4	47.11	180.71	12,472.3	229.3	-207.9	-224.6	12.00	12.00	-0.47
FTP (Audacious 19 Federal #721H)									
12,525.0	47.18	180.70	12,472.7	228.8	-207.9	-224.2	12.00	12.00	-0.44
12,550.0	50.18	180.60	12,489.2	210.1	-208.1	-205.4	12.00	12.00	-0.42
12,575.0	53.18	180.50	12,504.7	190.5	-208.3	-185.8	12.00	12.00	-0.39
12,600.0	56.18	180.41	12,519.2	170.1	-208.4	-165.4	12.00	12.00	-0.36
12,625.0	59.18	180.33	12,532.6	148.9	-208.6	-144.3	12.00	12.00	-0.33
12,650.0	62.18	180.25	12,544.8	127.1	-208.7	-122.5	12.00	12.00	-0.31
12,675.0	65.18	180.18	12,555.9	104.7	-208.8	-100.1	12.00	12.00	-0.30
12,700.0	68.18	180.10	12,565.8	81.8	-208.8	-77.1	12.00	12.00	-0.28
12,725.0	71.18	180.04	12,574.5	58.3	-208.9	-53.7	12.00	12.00	-0.27
12,750.0	74.18	179.97	12,581.9	34.5	-208.9	-29.8	12.00	12.00	-0.26
12,775.0	77.18	179.91	12,588.1	10.3	-208.8	-5.6	12.00	12.00	-0.25
12,800.0	80.18	179.85	12,593.0	-14.3	-208.8	18.9	12.00	12.00	-0.25
12,825.0	83.18	179.79	12,596.6	-39.0	-208.7	43.6	12.00	12.00	-0.24
12,850.0	86.18	179.73	12,598.9	-63.9	-208.6	68.5	12.00	12.00	-0.24
12,875.0	89.17	179.67	12,600.0	-88.9	-208.5	93.5	12.00	12.00	-0.24
12,881.9	90.00	179.65	12,600.0	-95.7	-208.4	100.4	12.00	12.00	-0.24
12,900.0	90.00	179.65	12,600.0	-113.9	-208.3	118.5	0.00	0.00	0.00
13,000.0	90.00	179.65	12,600.0	-213.9	-207.7	218.4	0.00	0.00	0.00
13,100.0	90.00	179.65	12,600.0	-313.9	-207.1	318.4	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: #721H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well #721H
 KB = 25' @ 3489.0usft
 KB = 25' @ 3489.0usft
 Grid
 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)
13,200.0	90.00	179.65	12,600.0	-413.9	-206.5	418.3	0.00	0.00	0.00
13,300.0	90.00	179.65	12,600.0	-513.8	-205.9	518.3	0.00	0.00	0.00
13,400.0	90.00	179.65	12,600.0	-613.8	-205.3	618.3	0.00	0.00	0.00
13,500.0	90.00	179.65	12,600.0	-713.8	-204.6	718.2	0.00	0.00	0.00
13,600.0	90.00	179.65	12,600.0	-813.8	-204.0	818.2	0.00	0.00	0.00
13,700.0	90.00	179.65	12,600.0	-913.8	-203.4	918.1	0.00	0.00	0.00
13,800.0	90.00	179.65	12,600.0	-1,013.8	-202.8	1,018.1	0.00	0.00	0.00
13,900.0	90.00	179.65	12,600.0	-1,113.8	-202.2	1,118.1	0.00	0.00	0.00
14,000.0	90.00	179.65	12,600.0	-1,213.8	-201.6	1,218.0	0.00	0.00	0.00
14,100.0	90.00	179.65	12,600.0	-1,313.8	-201.0	1,318.0	0.00	0.00	0.00
14,200.0	90.00	179.65	12,600.0	-1,413.8	-200.4	1,417.9	0.00	0.00	0.00
14,300.0	90.00	179.65	12,600.0	-1,513.8	-199.8	1,517.9	0.00	0.00	0.00
14,400.0	90.00	179.65	12,600.0	-1,613.8	-199.1	1,617.9	0.00	0.00	0.00
14,500.0	90.00	179.65	12,600.0	-1,713.8	-198.5	1,717.8	0.00	0.00	0.00
14,600.0	90.00	179.65	12,600.0	-1,813.8	-197.9	1,817.8	0.00	0.00	0.00
14,700.0	90.00	179.65	12,600.0	-1,913.8	-197.3	1,917.7	0.00	0.00	0.00
14,800.0	90.00	179.65	12,600.0	-2,013.8	-196.7	2,017.7	0.00	0.00	0.00
14,900.0	90.00	179.65	12,600.0	-2,113.8	-196.1	2,117.7	0.00	0.00	0.00
15,000.0	90.00	179.65	12,600.0	-2,213.8	-195.5	2,217.6	0.00	0.00	0.00
15,100.0	90.00	179.65	12,600.0	-2,313.8	-194.9	2,317.6	0.00	0.00	0.00
15,200.0	90.00	179.65	12,600.0	-2,413.8	-194.3	2,417.5	0.00	0.00	0.00
15,300.0	90.00	179.65	12,600.0	-2,513.8	-193.6	2,517.5	0.00	0.00	0.00
15,400.0	90.00	179.65	12,600.0	-2,613.8	-193.0	2,617.5	0.00	0.00	0.00
15,500.0	90.00	179.65	12,600.0	-2,713.8	-192.4	2,717.4	0.00	0.00	0.00
15,600.0	90.00	179.65	12,600.0	-2,813.8	-191.8	2,817.4	0.00	0.00	0.00
15,700.0	90.00	179.65	12,600.0	-2,913.8	-191.2	2,917.3	0.00	0.00	0.00
15,800.0	90.00	179.65	12,600.0	-3,013.8	-190.6	3,017.3	0.00	0.00	0.00
15,900.0	90.00	179.65	12,600.0	-3,113.8	-190.0	3,117.3	0.00	0.00	0.00
16,000.0	90.00	179.65	12,600.0	-3,213.8	-189.4	3,217.2	0.00	0.00	0.00
16,100.0	90.00	179.65	12,600.0	-3,313.8	-188.8	3,317.2	0.00	0.00	0.00
16,200.0	90.00	179.65	12,600.0	-3,413.8	-188.1	3,417.1	0.00	0.00	0.00
16,300.0	90.00	179.65	12,600.0	-3,513.8	-187.5	3,517.1	0.00	0.00	0.00
16,400.0	90.00	179.65	12,600.0	-3,613.8	-186.9	3,617.1	0.00	0.00	0.00
16,500.0	90.00	179.65	12,600.0	-3,713.8	-186.3	3,717.0	0.00	0.00	0.00
16,600.0	90.00	179.65	12,600.0	-3,813.8	-185.7	3,817.0	0.00	0.00	0.00
16,700.0	90.00	179.65	12,600.0	-3,913.8	-185.1	3,916.9	0.00	0.00	0.00
16,800.0	90.00	179.65	12,600.0	-4,013.8	-184.5	4,016.9	0.00	0.00	0.00
16,900.0	90.00	179.65	12,600.0	-4,113.8	-183.9	4,116.9	0.00	0.00	0.00
17,000.0	90.00	179.65	12,600.0	-4,213.8	-183.3	4,216.8	0.00	0.00	0.00
17,100.0	90.00	179.65	12,600.0	-4,313.8	-182.7	4,316.8	0.00	0.00	0.00
17,200.0	90.00	179.65	12,600.0	-4,413.8	-182.0	4,416.7	0.00	0.00	0.00
17,300.0	90.00	179.65	12,600.0	-4,513.8	-181.4	4,516.7	0.00	0.00	0.00
17,400.0	90.00	179.65	12,600.0	-4,613.8	-180.8	4,616.7	0.00	0.00	0.00
17,500.0	90.00	179.65	12,600.0	-4,713.8	-180.2	4,716.6	0.00	0.00	0.00
17,600.0	90.00	179.65	12,600.0	-4,813.8	-179.6	4,816.6	0.00	0.00	0.00
17,700.0	90.00	179.65	12,600.0	-4,913.8	-179.0	4,916.5	0.00	0.00	0.00
17,800.0	90.00	179.65	12,600.0	-5,013.8	-178.4	5,016.5	0.00	0.00	0.00
17,900.0	90.00	179.65	12,600.0	-5,113.8	-177.8	5,116.5	0.00	0.00	0.00
18,000.0	90.00	179.65	12,600.0	-5,213.8	-177.2	5,216.4	0.00	0.00	0.00
18,100.0	90.00	179.65	12,600.0	-5,313.8	-176.5	5,316.4	0.00	0.00	0.00
18,200.0	90.00	179.65	12,600.0	-5,413.8	-175.9	5,416.3	0.00	0.00	0.00
18,300.0	90.00	179.65	12,600.0	-5,513.8	-175.3	5,516.3	0.00	0.00	0.00
18,400.0	90.00	179.65	12,600.0	-5,613.8	-174.7	5,616.3	0.00	0.00	0.00
18,500.0	90.00	179.65	12,600.0	-5,713.8	-174.1	5,716.2	0.00	0.00	0.00

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Design: Plan #0.2

Local Co-ordinate Reference: Well #721H
TVD Reference: KB = 25' @ 3489.0usft
MD Reference: KB = 25' @ 3489.0usft
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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
18,600.0	90.00	179.65	12,600.0	-5,813.8	-173.5	5,816.2	0.00	0.00	0.00
18,700.0	90.00	179.65	12,600.0	-5,913.7	-172.9	5,916.1	0.00	0.00	0.00
18,800.0	90.00	179.65	12,600.0	-6,013.7	-172.3	6,016.1	0.00	0.00	0.00
18,900.0	90.00	179.65	12,600.0	-6,113.7	-171.7	6,116.1	0.00	0.00	0.00
19,000.0	90.00	179.65	12,600.0	-6,213.7	-171.0	6,216.0	0.00	0.00	0.00
19,100.0	90.00	179.65	12,600.0	-6,313.7	-170.4	6,316.0	0.00	0.00	0.00
19,200.0	90.00	179.65	12,600.0	-6,413.7	-169.8	6,415.9	0.00	0.00	0.00
19,300.0	90.00	179.65	12,600.0	-6,513.7	-169.2	6,515.9	0.00	0.00	0.00
19,400.0	90.00	179.65	12,600.0	-6,613.7	-168.6	6,615.8	0.00	0.00	0.00
19,500.0	90.00	179.65	12,600.0	-6,713.7	-168.0	6,715.8	0.00	0.00	0.00
19,600.0	90.00	179.65	12,600.0	-6,813.7	-167.4	6,815.8	0.00	0.00	0.00
19,700.0	90.00	179.65	12,600.0	-6,913.7	-166.8	6,915.7	0.00	0.00	0.00
19,800.0	90.00	179.65	12,600.0	-7,013.7	-166.2	7,015.7	0.00	0.00	0.00
19,900.0	90.00	179.65	12,600.0	-7,113.7	-165.5	7,115.6	0.00	0.00	0.00
20,000.0	90.00	179.65	12,600.0	-7,213.7	-164.9	7,215.6	0.00	0.00	0.00
20,100.0	90.00	179.65	12,600.0	-7,313.7	-164.3	7,315.6	0.00	0.00	0.00
20,153.3	90.00	179.65	12,600.0	-7,367.0	-164.0	7,368.8	0.00	0.00	0.00

PBHL (Audacious 19 Federal #721H)

Design Targets
Target Name

hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL (Audacious 19 Federal #721H)	0.00	0.00	12,600.0	-7,367.0	-164.0	398,884.00	762,933.00	32° 5' 40.525 N	103° 37' 3.915 W
- plan hits target center									
- Point									
FTP (Audacious 19 Federal #721H)	0.00	0.00	12,600.0	354.0	-212.0	406,605.00	762,885.00	32° 6' 56.932 N	103° 37' 3.877 W
- plan misses target center by 178.5usft at 12524.4usft MD (12472.3 TVD, 229.3 N, -207.9 E)									
- Point									