

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.

AUG 16 2018

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM02965A
2. Name of Operator EOG RESOURCES INCORPORATED Contact: STAN WAGNER E-Mail: stan_wagner@eogresources.com		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-686-3689	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T26S R33E SENE 300FSL 406FEL 32.001083 N Lat, 103.552940 W Lon		8. Well Name and No. BARLOW 34 FED COM 715H
		9. API Well No. 30-025-44394-00-X1
		10. Field and Pool or Exploratory Area RED HILLS-WOLFCAMP, WEST (GAS)
		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 PD
	☐ 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 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 recomple 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: 2540' FSL & 330' FEL NESE-27-26S-33E

OCD Hobbs

14. I hereby certify that the foregoing is true and correct. Electronic Submission #428333 verified by the BLM Well Information System For EOG RESOURCES INCORPORATED, sent to the Hobbs Committed to AFMS for processing by PRISCILLA PEREZ on 07/25/2018 (18PP1412SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 07/24/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ Zeta Stevens</u>	Petroleum Engineer Carlsbad Field Office	Date <u>8/8/18</u>
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) 748-0720
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 30-025-44394		² Pool Code 98097		³ Pool Name WC-025 G-09 S263327G; Upper Wolfcamp	
⁴ Property Code 319802		⁵ Property Name BARLOW 34 FED COM			⁶ Well Number #715H
⁷ GRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3322'

¹⁰Surface Location

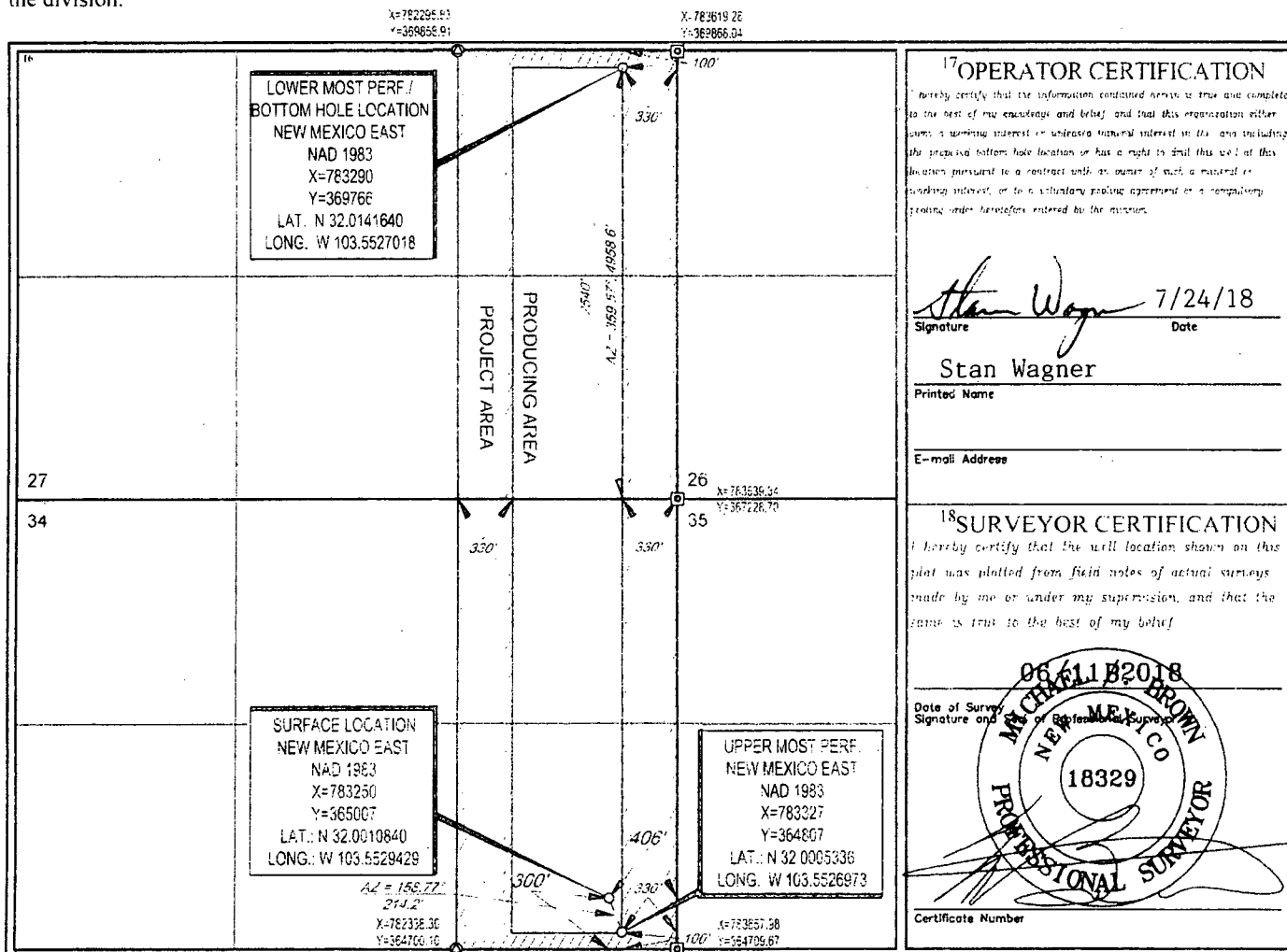
U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	34	26-S	33-E	-	300'	SOUTH	406'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	27	26-S	33-E	-	2540'	SOUTH	330'	EAST	LEA

¹² Dedicated Acres 156.42	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.



Revised Permit Information 7/20/18:

Well Name: Barlow 34 Fed Com No. 715H

Location:

SL: 300' FSL & 406' FEL, Section 34, T-26-S, R-33-E, Lea Co., N.M.

BHL: 2540' FSL & 330' FEL, Section 27, T-26-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 - 880'	13.375"	54.5#	J55	STC	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 - 4,900'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 - 11,400'	7.625"	29.7#	HCP110	FXL	1.125	1.25	1.60
6.75"	0 - 10,900'	5.5"	20#	P110EC	DWC CIS MS	1.125	1.25	1.60
6.75"	0-17,255'	5.5"	20#	P110EC	VAM SFC	1.125	1.25	1.60

Variance is requested for annular clearance of the 5-1/2" x 7-5/8" to the top of cement.

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
880'	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (TOC @ Surface)
	333	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
4,900'	692	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	303	14.8	1.32	Tail: Class C + 0.13% C-20
11,400'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,400')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
17,255'	950	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,900')

Mud Program:

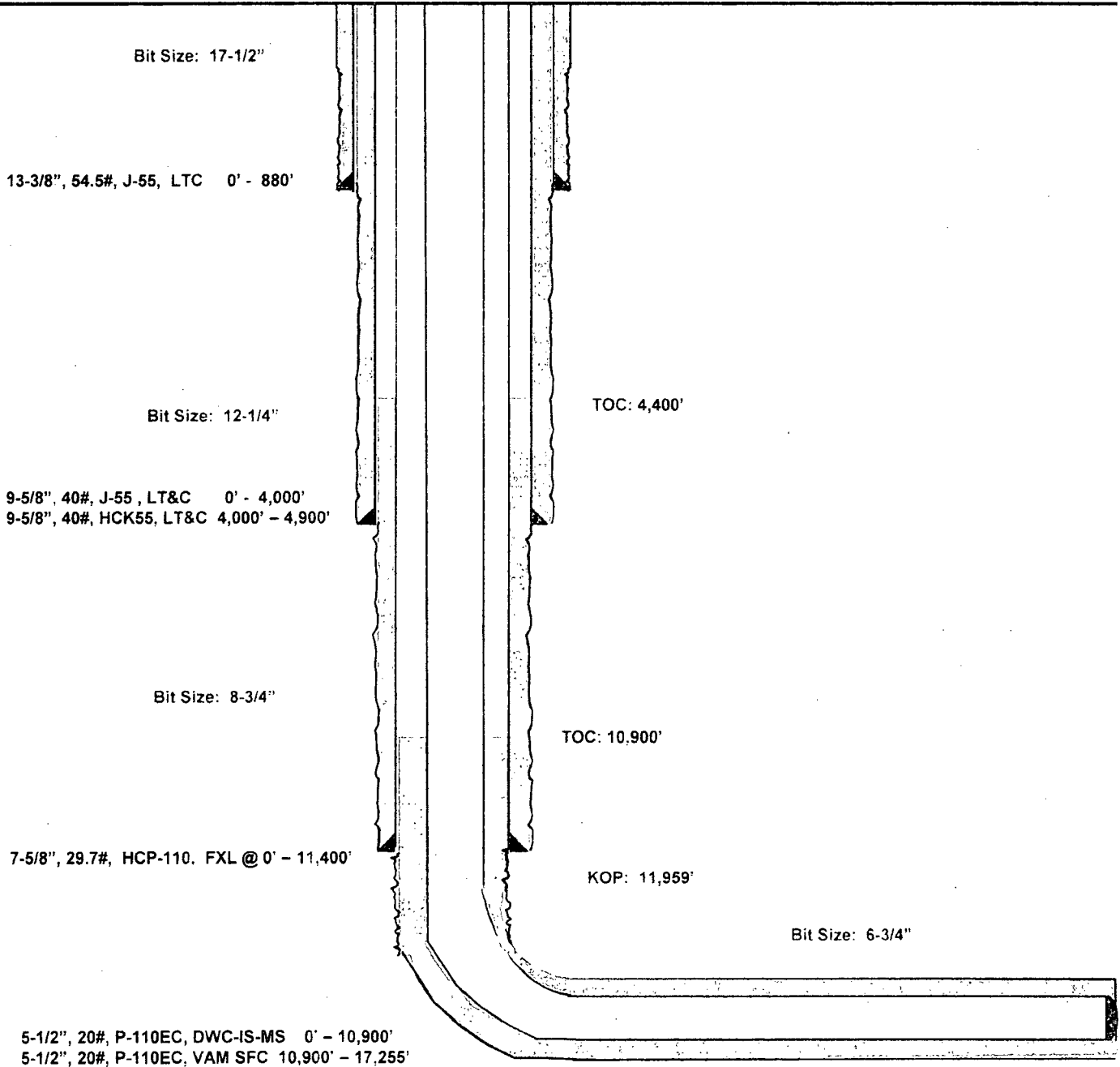
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 880'	Fresh - Gel	8.6-8.8	28-34	N/c
880' - 4,900'	Brine	10.0-10.2	28-34	N/c
4,900' - 11,400'	Oil Base	8.7-9.4	58-68	N/c - 6
11,400' - 17,255' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Barlow 34 Fed Com #715H

300' FSL
406' FEL
Section 34
T-26-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 7/20/18
API: 30-025-44394

KB: 3,347'
GL: 3,322'



Lateral: 17,255' MD, 12,448' TVD
Upper Most Perf:
100' FSL & 330' FEL Sec. 34
Lower Most Perf:
2540' FSL & 330' FEL Sec. 27
BH Location: 2540' FSL & 330' FEL
Section 27
T-26-S, R-33-E



Lea County, NM (NAD 83 NME)

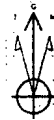
Barlow 34 Fed Com

#715H

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



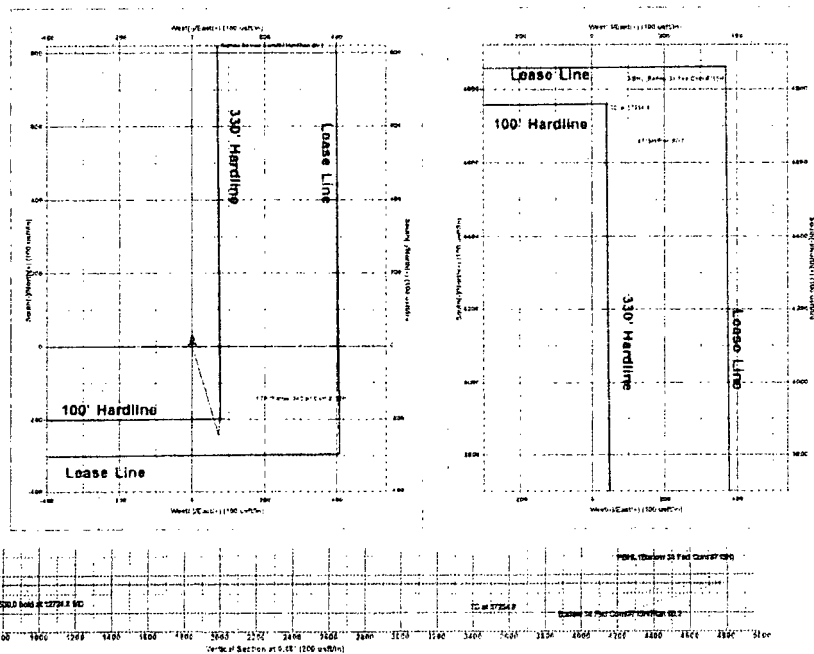
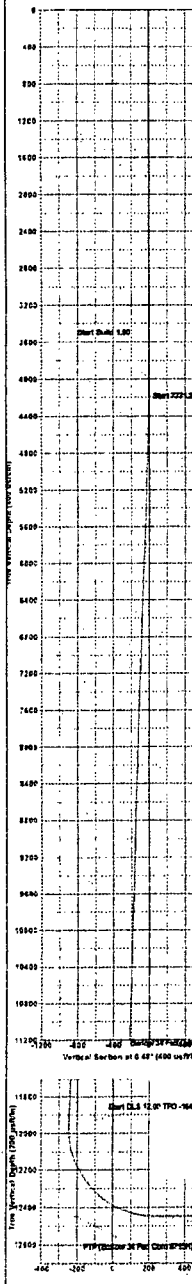
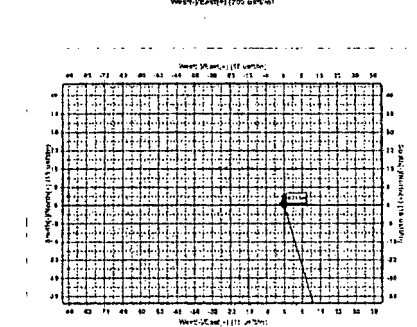
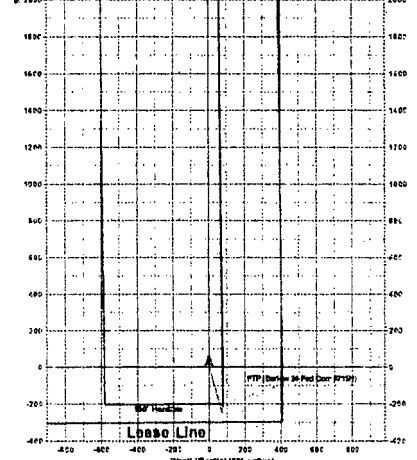
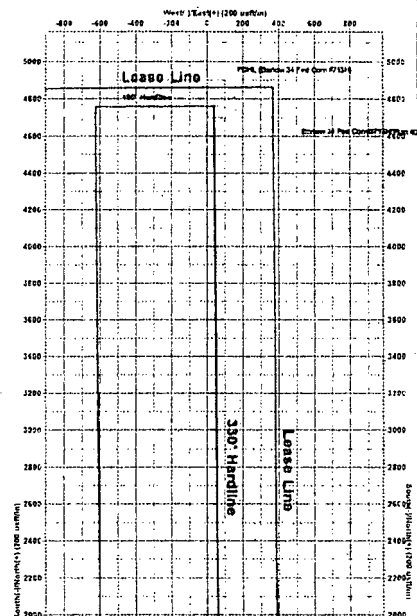
Azimuths to Grid North
 True North: -0.41°
 Magnetic North: 6.50°
 Magnetic Field
 Strength: 47798.9nT
 Dip Angle: 59.85°
 Date: 7/20/2017
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.5°
To convert a Magnetic Direction to a True Direction, Add 6.5° E
To convert a True Direction to a Grid Direction, Subtract 3.41°

			WELL DE TAIL S #7134				
			3227 0				
-N-E-	-E-W-	Heading	MB #72	OR 3347 0047	Latitude	Longitude	5m
0 0	0 0	365007 00	Casting	763750 00	32° 0' 7.903 02	103° 33' 10.501 W	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
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	4189.5	1.88	163.58	4188.4	0.0	0.0	0.00	163.58	3.0	
4	11959.7	1.88	163.58	11955.5	-248.1	73.1	0.00	0.00	-247.5	
5	17274.8	90.00	359.57	12448.0	229.1	74.0	12.00	-164.00	229.7	
6	17254.8	90.00	359.57	12448.0	4759.0	40.0	0.00	0.00	4759.2	PBHL (Barlow 34 Fed Com #715H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FTP (Barlow 34 Fed Ccm #715H)	12445.0	-200.0	77.0	344807.00	723327.00	Point
PBHL (Barlow 34 Fed Ccm #715H)	12442.0	4769.0	40.0	353768.00	751290.00	Point





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com

#715H

OH

Plan: Plan #0.2

Standard Planning Report

20 July, 2018



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Barlow 34 Fed Com
 Well: #715H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #715H
 TVD Reference: KB =25' @ 3347.0usft
 MD Reference: KB =25' @ 3347.0usft
 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	Barlow 34 Fed Com		
Site Position:	From: Map	Northing:	364,974.00 usft
		Easting:	778,981.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 3.879 N
		Longitude:	103° 34' 0.167 W
		Grid Convergence:	0.41 °

Well	#715H		
Well Position	+N/-S	33.0 usft	Northing:
	+E/-W	4,269.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	365,007.00 usft
		Latitude:	32° 0' 3.903 N
		Longitude:	103° 33' 10.591 W
		Ground Level:	3,322.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	7/20/2017	(°)
			6.92
			Dip Angle
			(°)
			59.86
			Field Strength
			(nT)
			47,798.89536708

Design	Plan #0.2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			0.48

Plan Survey Tool Program	Date 7/20/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	17,254.8 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	
4,188.5	1.88	163.58	4,188.4	-3.0	0.9	1.00	1.00	0.00	163.58	
11,959.7	1.88	163.58	11,955.5	-248.1	73.1	0.00	0.00	0.00	0.00	
12,724.8	90.00	359.57	12,448.0	229.1	74.0	12.00	11.52	-21.44	-164.00	
17,254.8	90.00	359.57	12,448.0	4,759.0	40.0	0.00	0.00	0.00	0.00	PBHL (Barlow 34 Fed



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Barlow 34 Fed Com
 Well: #715H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #715H
 TVD Reference: KB =25' @ 3347.0usft
 MD Reference: KB =25' @ 3347.0usft
 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	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	1.00	163.58	4,100.0	-0.8	0.2	-0.8	1.00	1.00	0.00	
4,188.5	1.88	163.58	4,188.4	-3.0	0.9	-3.0	1.00	1.00	0.00	
4,200.0	1.88	163.58	4,200.0	-3.3	1.0	-3.3	0.00	0.00	0.00	
4,300.0	1.88	163.58	4,299.9	-6.5	1.9	-6.5	0.00	0.00	0.00	
4,400.0	1.88	163.58	4,399.8	-9.6	2.8	-9.6	0.00	0.00	0.00	
4,500.0	1.88	163.58	4,499.8	-12.8	3.8	-12.8	0.00	0.00	0.00	
4,600.0	1.88	163.58	4,599.7	-16.0	4.7	-15.9	0.00	0.00	0.00	
4,700.0	1.88	163.58	4,699.7	-19.1	5.6	-19.1	0.00	0.00	0.00	
4,800.0	1.88	163.58	4,799.6	-22.3	6.6	-22.2	0.00	0.00	0.00	
4,900.0	1.88	163.58	4,899.6	-25.4	7.5	-25.4	0.00	0.00	0.00	
5,000.0	1.88	163.58	4,999.5	-28.6	8.4	-28.5	0.00	0.00	0.00	
5,100.0	1.88	163.58	5,099.5	-31.7	9.3	-31.6	0.00	0.00	0.00	
5,200.0	1.88	163.58	5,199.4	-34.9	10.3	-34.8	0.00	0.00	0.00	



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Barlow 34 Fed Corn
 Well: #715H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #715H
 TVD Reference: KB ≈25' @ 3347.0usft
 MD Reference: KB ≈25' @ 3347.0usft
 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	1.88	163.58	5,299.4	-38.0	11.2	-37.9	0.00	0.00	0.00
5,400.0	1.88	163.58	5,399.3	-41.2	12.1	-41.1	0.00	0.00	0.00
5,500.0	1.88	163.58	5,499.3	-44.3	13.1	-44.2	0.00	0.00	0.00
5,600.0	1.88	163.58	5,599.2	-47.5	14.0	-47.4	0.00	0.00	0.00
5,700.0	1.88	163.58	5,699.1	-50.7	14.9	-50.5	0.00	0.00	0.00
5,800.0	1.88	163.58	5,799.1	-53.8	15.9	-53.7	0.00	0.00	0.00
5,900.0	1.88	163.58	5,899.0	-57.0	16.8	-56.8	0.00	0.00	0.00
6,000.0	1.88	163.58	5,999.0	-60.1	17.7	-60.0	0.00	0.00	0.00
6,100.0	1.88	163.58	6,098.9	-63.3	18.6	-63.1	0.00	0.00	0.00
6,200.0	1.88	163.58	6,198.9	-66.4	19.6	-66.3	0.00	0.00	0.00
6,300.0	1.88	163.58	6,298.8	-69.6	20.5	-69.4	0.00	0.00	0.00
6,400.0	1.88	163.58	6,398.8	-72.7	21.4	-72.6	0.00	0.00	0.00
6,500.0	1.88	163.58	6,498.7	-75.9	22.4	-75.7	0.00	0.00	0.00
6,600.0	1.88	163.58	6,598.7	-79.0	23.3	-78.8	0.00	0.00	0.00
6,700.0	1.88	163.58	6,698.6	-82.2	24.2	-82.0	0.00	0.00	0.00
6,800.0	1.88	163.58	6,798.6	-85.4	25.2	-85.1	0.00	0.00	0.00
6,900.0	1.88	163.58	6,898.5	-88.5	26.1	-88.3	0.00	0.00	0.00
7,000.0	1.88	163.58	6,998.4	-91.7	27.0	-91.4	0.00	0.00	0.00
7,100.0	1.88	163.58	7,098.4	-94.8	27.9	-94.6	0.00	0.00	0.00
7,200.0	1.88	163.58	7,198.3	-98.0	28.9	-97.7	0.00	0.00	0.00
7,300.0	1.88	163.58	7,298.3	-101.1	29.8	-100.9	0.00	0.00	0.00
7,400.0	1.88	163.58	7,398.2	-104.3	30.7	-104.0	0.00	0.00	0.00
7,500.0	1.88	163.58	7,498.2	-107.4	31.7	-107.2	0.00	0.00	0.00
7,600.0	1.88	163.58	7,598.1	-110.6	32.6	-110.3	0.00	0.00	0.00
7,700.0	1.88	163.58	7,698.1	-113.7	33.5	-113.5	0.00	0.00	0.00
7,800.0	1.88	163.58	7,798.0	-116.9	34.4	-116.6	0.00	0.00	0.00
7,900.0	1.88	163.58	7,898.0	-120.1	35.4	-119.8	0.00	0.00	0.00
8,000.0	1.88	163.58	7,997.9	-123.2	36.3	-122.9	0.00	0.00	0.00
8,100.0	1.88	163.58	8,097.9	-126.4	37.2	-126.0	0.00	0.00	0.00
8,200.0	1.88	163.58	8,197.8	-129.5	38.2	-129.2	0.00	0.00	0.00
8,300.0	1.88	163.58	8,297.7	-132.7	39.1	-132.3	0.00	0.00	0.00
8,400.0	1.88	163.58	8,397.7	-135.8	40.0	-135.5	0.00	0.00	0.00
8,500.0	1.88	163.58	8,497.6	-139.0	41.0	-138.6	0.00	0.00	0.00
8,600.0	1.88	163.58	8,597.6	-142.1	41.9	-141.8	0.00	0.00	0.00
8,700.0	1.88	163.58	8,697.5	-145.3	42.8	-144.9	0.00	0.00	0.00
8,800.0	1.88	163.58	8,797.5	-148.4	43.7	-148.1	0.00	0.00	0.00
8,900.0	1.88	163.58	8,897.4	-151.6	44.7	-151.2	0.00	0.00	0.00
9,000.0	1.88	163.58	8,997.4	-154.8	45.6	-154.4	0.00	0.00	0.00
9,100.0	1.88	163.58	9,097.3	-157.9	46.5	-157.5	0.00	0.00	0.00
9,200.0	1.88	163.58	9,197.3	-161.1	47.5	-160.7	0.00	0.00	0.00
9,300.0	1.88	163.58	9,297.2	-164.2	48.4	-163.8	0.00	0.00	0.00
9,400.0	1.88	163.58	9,397.1	-167.4	49.3	-167.0	0.00	0.00	0.00
9,500.0	1.88	163.58	9,497.1	-170.5	50.3	-170.1	0.00	0.00	0.00
9,600.0	1.88	163.58	9,597.0	-173.7	51.2	-173.2	0.00	0.00	0.00
9,700.0	1.88	163.58	9,697.0	-176.8	52.1	-176.4	0.00	0.00	0.00
9,800.0	1.88	163.58	9,796.9	-180.0	53.0	-179.5	0.00	0.00	0.00
9,900.0	1.88	163.58	9,896.9	-183.1	54.0	-182.7	0.00	0.00	0.00
10,000.0	1.88	163.58	9,996.8	-186.3	54.9	-185.8	0.00	0.00	0.00
10,100.0	1.88	163.58	10,096.8	-189.5	55.8	-189.0	0.00	0.00	0.00
10,200.0	1.88	163.58	10,196.7	-192.6	56.8	-192.1	0.00	0.00	0.00
10,300.0	1.88	163.58	10,296.7	-195.8	57.7	-195.3	0.00	0.00	0.00
10,400.0	1.88	163.58	10,396.6	-198.9	58.6	-198.4	0.00	0.00	0.00
10,500.0	1.88	163.58	10,496.6	-202.1	59.5	-201.6	0.00	0.00	0.00
10,600.0	1.88	163.58	10,596.5	-205.2	60.5	-204.7	0.00	0.00	0.00



Planning Report

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 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #715H
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 MD Reference: KB =25' @ 3347.0usft
 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	1.88	163.58	10,696.4	-208.4	61.4	-207.9	0.00	0.00	0.00
10,800.0	1.88	163.58	10,796.4	-211.5	62.3	-211.0	0.00	0.00	0.00
10,900.0	1.88	163.58	10,896.3	-214.7	63.3	-214.2	0.00	0.00	0.00
11,000.0	1.88	163.58	10,996.3	-217.8	64.2	-217.3	0.00	0.00	0.00
11,100.0	1.88	163.58	11,096.2	-221.0	65.1	-220.4	0.00	0.00	0.00
11,200.0	1.88	163.58	11,196.2	-224.2	66.1	-223.6	0.00	0.00	0.00
11,300.0	1.88	163.58	11,296.1	-227.3	67.0	-226.7	0.00	0.00	0.00
11,400.0	1.88	163.58	11,396.1	-230.5	67.9	-229.9	0.00	0.00	0.00
11,500.0	1.88	163.58	11,496.0	-233.6	68.8	-233.0	0.00	0.00	0.00
11,600.0	1.88	163.58	11,596.0	-236.8	69.8	-236.2	0.00	0.00	0.00
11,700.0	1.88	163.58	11,695.9	-239.9	70.7	-239.3	0.00	0.00	0.00
11,800.0	1.88	163.58	11,795.8	-243.1	71.6	-242.5	0.00	0.00	0.00
11,900.0	1.88	163.58	11,895.8	-246.2	72.6	-245.6	0.00	0.00	0.00
11,959.7	1.88	163.58	11,955.5	-248.1	73.1	-247.5	0.00	0.00	0.00
11,975.0	0.52	86.86	11,970.8	-248.4	73.3	-247.7	12.00	-8.92	-501.37
12,000.0	3.07	9.30	11,995.7	-247.7	73.5	-247.1	12.00	10.20	-310.24
12,025.0	6.05	4.46	12,020.7	-245.7	73.7	-245.1	12.00	11.91	-19.30
12,050.0	9.04	2.84	12,045.4	-242.4	73.9	-241.8	12.00	11.97	-6.57
12,075.0	12.04	2.01	12,070.0	-237.9	74.1	-237.2	12.00	11.98	-3.32
12,100.0	15.03	1.50	12,094.3	-232.0	74.3	-231.4	12.00	11.99	-2.01
12,125.0	18.03	1.17	12,118.3	-224.9	74.4	-224.3	12.00	11.99	-1.35
12,150.0	21.03	0.92	12,141.8	-216.6	74.6	-215.9	12.00	12.00	-0.98
12,175.0	24.03	0.73	12,164.9	-207.0	74.7	-206.3	12.00	12.00	-0.74
12,200.0	27.03	0.59	12,187.5	-196.2	74.8	-195.6	12.00	12.00	-0.59
12,225.0	30.03	0.47	12,209.5	-184.3	74.9	-183.6	12.00	12.00	-0.48
12,250.0	33.03	0.37	12,230.8	-171.2	75.0	-170.6	12.00	12.00	-0.40
12,275.0	36.03	0.28	12,251.4	-157.0	75.1	-156.4	12.00	12.00	-0.34
12,300.0	39.03	0.21	12,271.2	-141.8	75.2	-141.2	12.00	12.00	-0.29
12,325.0	42.03	0.15	12,290.2	-125.6	75.2	-124.9	12.00	12.00	-0.26
12,350.0	45.03	0.09	12,308.3	-108.3	75.3	-107.7	12.00	12.00	-0.23
12,375.0	48.03	0.04	12,325.5	-90.2	75.3	-89.6	12.00	12.00	-0.21
FTP (Barlow 34 Fed Com #715H)									
12,400.0	51.03	359.99	12,341.7	-71.2	75.3	-70.6	12.00	12.00	-0.19
12,425.0	54.03	359.95	12,356.9	-51.4	75.3	-50.7	12.00	12.00	-0.17
12,450.0	57.03	359.91	12,371.1	-30.7	75.3	-30.1	12.00	12.00	-0.16
12,475.0	60.03	359.87	12,384.1	-9.4	75.2	-8.8	12.00	12.00	-0.15
12,500.0	63.03	359.83	12,396.1	12.5	75.2	13.2	12.00	12.00	-0.14
12,525.0	66.03	359.80	12,406.8	35.1	75.1	35.7	12.00	12.00	-0.13
12,550.0	69.03	359.77	12,416.4	58.2	75.0	58.8	12.00	12.00	-0.13
12,575.0	72.03	359.74	12,424.7	81.8	74.9	82.4	12.00	12.00	-0.12
12,600.0	75.03	359.71	12,431.8	105.8	74.8	106.4	12.00	12.00	-0.12
12,625.0	78.03	359.68	12,437.6	130.1	74.6	130.7	12.00	12.00	-0.12
12,650.0	81.02	359.65	12,442.2	154.6	74.5	155.3	12.00	12.00	-0.11
12,675.0	84.02	359.62	12,445.4	179.4	74.3	180.0	12.00	12.00	-0.11
12,700.0	87.02	359.60	12,447.4	204.3	74.2	205.0	12.00	12.00	-0.11
12,724.8	90.00	359.57	12,448.0	229.1	74.0	229.7	12.00	12.00	-0.11
12,800.0	90.00	359.57	12,448.0	304.3	73.4	304.9	0.00	0.00	0.00
12,900.0	90.00	359.57	12,448.0	404.3	72.7	404.9	0.00	0.00	0.00
13,000.0	90.00	359.57	12,448.0	504.3	71.9	504.9	0.00	0.00	0.00
13,100.0	90.00	359.57	12,448.0	604.3	71.2	604.9	0.00	0.00	0.00
13,200.0	90.00	359.57	12,448.0	704.3	70.4	704.9	0.00	0.00	0.00
13,300.0	90.00	359.57	12,448.0	804.3	69.7	804.9	0.00	0.00	0.00
13,400.0	90.00	359.57	12,448.0	904.3	68.9	904.9	0.00	0.00	0.00



Planning Report

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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)
13,500.0	90.00	359.57	12,448.0	1,004.3	68.2	1,004.8	0.00	0.00	0.00
13,600.0	90.00	359.57	12,448.0	1,104.3	67.4	1,104.8	0.00	0.00	0.00
13,700.0	90.00	359.57	12,448.0	1,204.3	66.7	1,204.8	0.00	0.00	0.00
13,800.0	90.00	359.57	12,448.0	1,304.3	65.9	1,304.8	0.00	0.00	0.00
13,900.0	90.00	359.57	12,448.0	1,404.3	65.2	1,404.8	0.00	0.00	0.00
14,000.0	90.00	359.57	12,448.0	1,504.3	64.4	1,504.8	0.00	0.00	0.00
14,100.0	90.00	359.57	12,448.0	1,604.3	63.7	1,604.8	0.00	0.00	0.00
14,200.0	90.00	359.57	12,448.0	1,704.3	62.9	1,704.8	0.00	0.00	0.00
14,300.0	90.00	359.57	12,448.0	1,804.3	62.2	1,804.7	0.00	0.00	0.00
14,400.0	90.00	359.57	12,448.0	1,904.3	61.4	1,904.7	0.00	0.00	0.00
14,500.0	90.00	359.57	12,448.0	2,004.3	60.7	2,004.7	0.00	0.00	0.00
14,600.0	90.00	359.57	12,448.0	2,104.3	59.9	2,104.7	0.00	0.00	0.00
14,700.0	90.00	359.57	12,448.0	2,204.3	59.2	2,204.7	0.00	0.00	0.00
14,800.0	90.00	359.57	12,448.0	2,304.3	58.4	2,304.7	0.00	0.00	0.00
14,900.0	90.00	359.57	12,448.0	2,404.3	57.7	2,404.7	0.00	0.00	0.00
15,000.0	90.00	359.57	12,448.0	2,504.3	56.9	2,504.7	0.00	0.00	0.00
15,100.0	90.00	359.57	12,448.0	2,604.3	56.2	2,604.6	0.00	0.00	0.00
15,200.0	90.00	359.57	12,448.0	2,704.3	55.4	2,704.6	0.00	0.00	0.00
15,300.0	90.00	359.57	12,448.0	2,804.3	54.7	2,804.6	0.00	0.00	0.00
15,400.0	90.00	359.57	12,448.0	2,904.3	53.9	2,904.6	0.00	0.00	0.00
15,500.0	90.00	359.57	12,448.0	3,004.3	53.2	3,004.6	0.00	0.00	0.00
15,600.0	90.00	359.57	12,448.0	3,104.3	52.4	3,104.6	0.00	0.00	0.00
15,700.0	90.00	359.57	12,448.0	3,204.2	51.7	3,204.6	0.00	0.00	0.00
15,800.0	90.00	359.57	12,448.0	3,304.2	50.9	3,304.6	0.00	0.00	0.00
15,900.0	90.00	359.57	12,448.0	3,404.2	50.2	3,404.5	0.00	0.00	0.00
16,000.0	90.00	359.57	12,448.0	3,504.2	49.4	3,504.5	0.00	0.00	0.00
16,100.0	90.00	359.57	12,448.0	3,604.2	48.7	3,604.5	0.00	0.00	0.00
16,200.0	90.00	359.57	12,448.0	3,704.2	47.9	3,704.5	0.00	0.00	0.00
16,300.0	90.00	359.57	12,448.0	3,804.2	47.2	3,804.5	0.00	0.00	0.00
16,400.0	90.00	359.57	12,448.0	3,904.2	46.4	3,904.5	0.00	0.00	0.00
16,500.0	90.00	359.57	12,448.0	4,004.2	45.7	4,004.5	0.00	0.00	0.00
16,600.0	90.00	359.57	12,448.0	4,104.2	44.9	4,104.5	0.00	0.00	0.00
16,700.0	90.00	359.57	12,448.0	4,204.2	44.2	4,204.4	0.00	0.00	0.00
16,800.0	90.00	359.57	12,448.0	4,304.2	43.4	4,304.4	0.00	0.00	0.00
16,900.0	90.00	359.57	12,448.0	4,404.2	42.7	4,404.4	0.00	0.00	0.00
17,000.0	90.00	359.57	12,448.0	4,504.2	41.9	4,504.4	0.00	0.00	0.00
17,100.0	90.00	359.57	12,448.0	4,604.2	41.2	4,604.4	0.00	0.00	0.00
17,200.0	90.00	359.57	12,448.0	4,704.2	40.4	4,704.4	0.00	0.00	0.00
17,254.8	90.00	359.57	12,448.0	4,759.0	40.0	4,759.2	0.00	0.00	0.00

PBHL (Barlow 34 Fed Cor #715H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Barlow 34 Fed Cor	0.00	0.00	12,448.0	-200.0	77.0	364,897.00	783,327.00	32° 0' 1.918 N	103° 33' 9.713 W
- hit/miss target									
- plan misses target center by 164.5usft at 12375.0usft MD (12325.5 TVD -90.2 N 75.3 E)									
- Point									
PBHL (Barlow 34 Fed Cor	0.00	0.00	12,448.0	4,759.0	40.0	369,766.00	783,290.00	32° 0' 50.993 N	103° 33' 9.727 W
- plan hits target center									
- Point									



Planning Report

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