

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.
NMNM02965A

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**HOBBS OCD**

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: 432-686-36898. Well Name and No.
BARLOW 34 FED COM 711H9. API Well No.
30-025-44390-00-X110. Field and Pool or Exploratory Area
RED HILLS-WOLFCAMP, WEST (GAS)

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

Sec 34 T26S R33E SWNE 300FSL 1650FEL
32.001083 N Lat, 103.556953 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 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 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.

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

Change BHL to: 2541' FSL & 2106' FEL NWSE-27-26S-33E

Carlsbad Field Office
OCD Hobbs

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

Electronic Submission #428445 verified by the BLM Well Information System
For EOG RESOURCES INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 07/25/2018 (18PP1414SE)

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 /s/Zota Stevens**Petroleum Engineer**
Carlsbad Field Office

Date

8/8/18

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.

Office

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- 44390		² Pool Code 98097	³ Pool Name Sanders Tank; Upper Wolfcamp
⁴ Property Code 319802	⁵ Property Name BARLOW 34 FED COM		⁶ Well Number #711H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3317'

¹⁰Surface Location

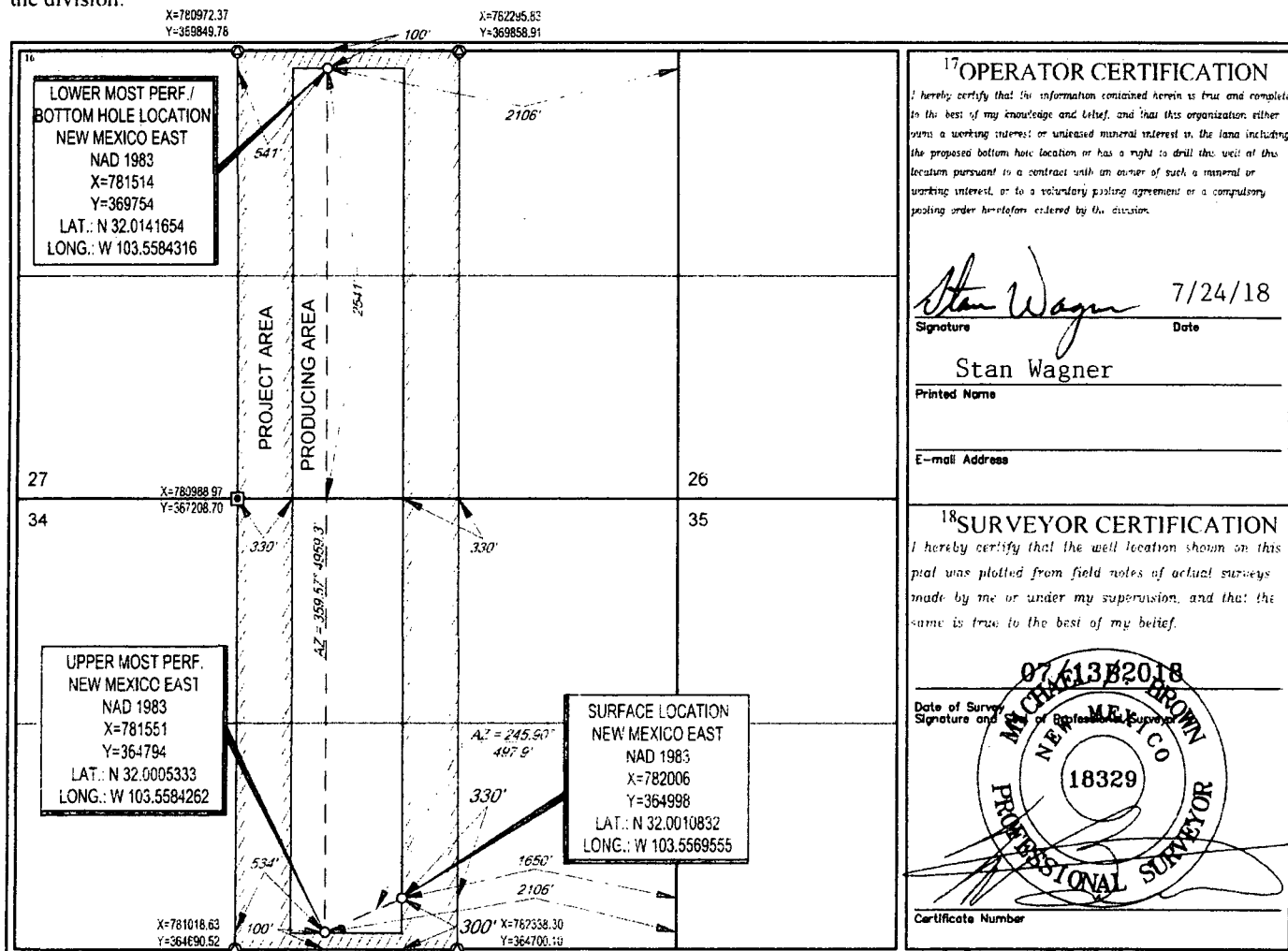
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	34	26-S	33-E	-	300'	SOUTH	1650'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	27	26-S	33-E	-	2541'	SOUTH	2106'	EAST	LEA

¹² Dedicated Acres 156.48	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.



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill the well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 7/24/18
Signature Date

Stan Wagner
Printed Name

E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

07/13/2018
Date of Survey
Signature and Seal of Professional Surveyor
MICHAEL BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR
Certificate Number

Revised Permit Information 7/24/18:

Well Name: Barlow 34 Fed Com No. 711H

Location:

SL: 300' FSL & 1650' FEL, Section 34, T-26-S, R-33-E, Lea Co., N.M.

BHL: 2541' FSL & 2106' 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 – 874'	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'-17,293'	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
874'	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
17,293'	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:

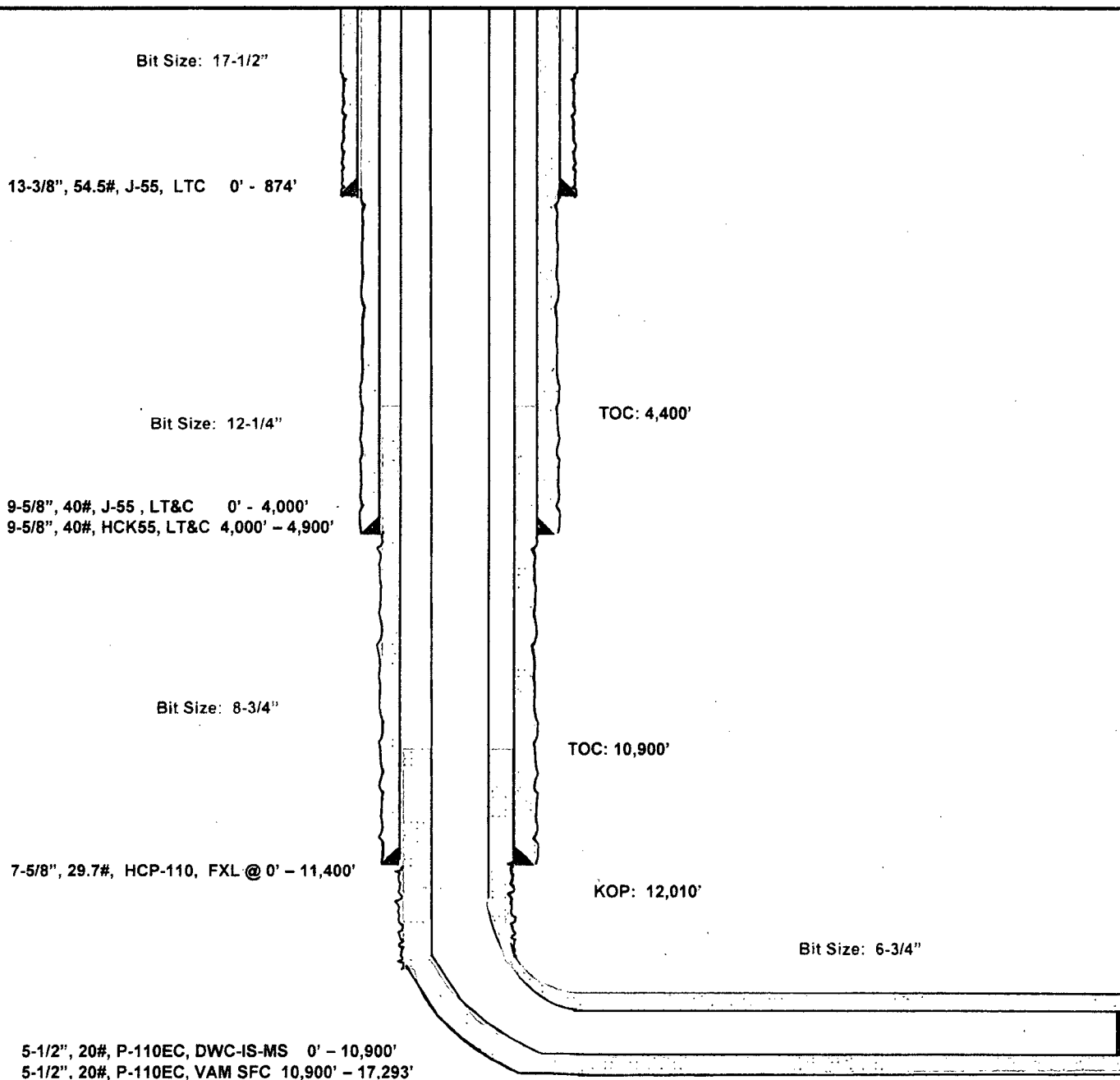
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 874'	Fresh - Gel	8.6-8.8	28-34	N/c
874' – 4,900'	Brine	10.0-10.2	28-34	N/c
4,900' – 11,400'	Oil Base	8.7-9.4	58-68	N/c - 6
11,400' – 17,293' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Barlow 34 Fed Com #711H

300' FSL
1650' FEL
Section 34
T-26-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 7/24/18
API: 30-025-44390

KB: 3,342'
GL: 3,317'





Lea County, NM (NAD 83 NME)

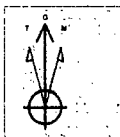
Barlow 34 Fed Com

#711H

Plan #0.4

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: 5.51°
Magnetic Field
Strength: 47788.8 nT
Dip Angle: 59.38°
Date: 7/20/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 0.51°
To convert a Magnetic Direction to a True Direction, Add 0.92° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS #711H

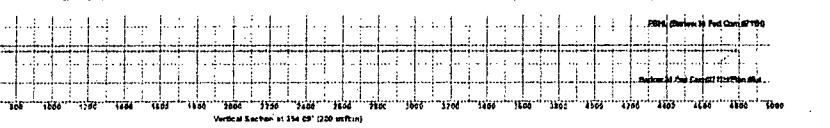
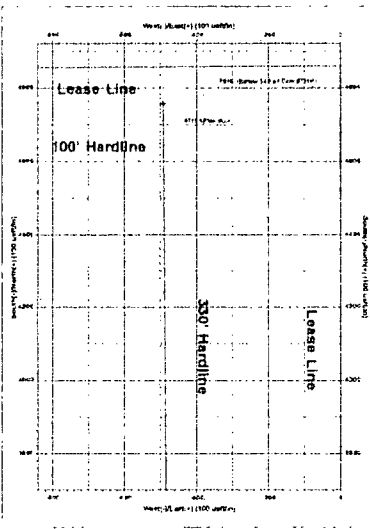
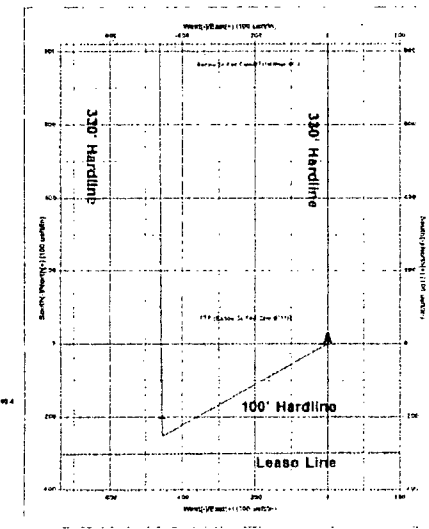
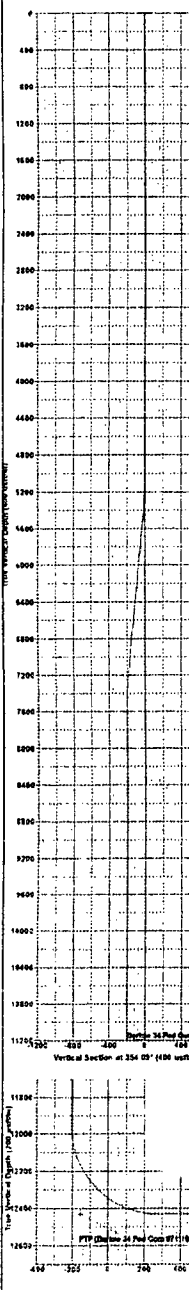
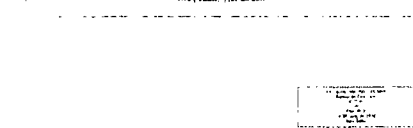
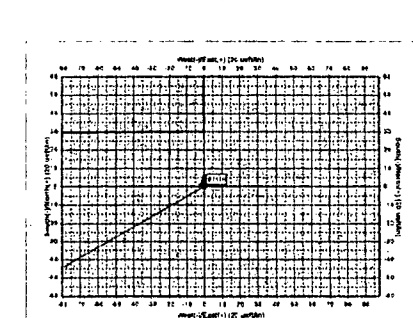
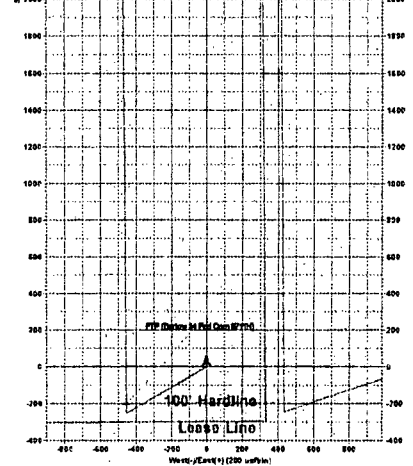
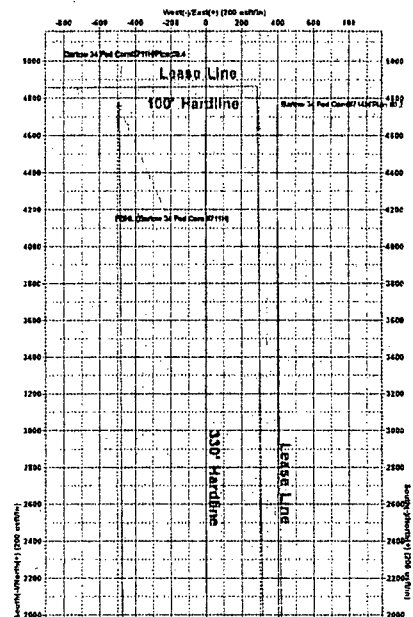
KB = 25	3317.0	3342.0	3317.0	3342.0	3317.0	3342.0
North	364998.00	782000.00	32° 11' 30.00" N	103° 13' 25.00" W	364998.00	782000.00
East	0.00	0.00	0.00	0.00	0.00	0.00

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	-N-S	+E-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	4900.0	0.00	0.00	4900.0	0.0	0.00	0.00	0.00	0.0	
3	5583.2	13.66	240.83	5576.7	-39.5	-70.8	2.00	240.83	-32.0	
4	7102.7	13.66	240.83	7053.3	-214.5	-384.2	0.00	0.00	-173.8	
5	7785.9	0.00	0.00	7730.0	-254.0	-455.0	2.00	180.00	-205.8	
6	12010.4	0.00	0.00	11954.5	-254.0	-455.0	0.00	0.00	-205.8	
7	12760.4	90.00	359.58	12432.0	223.4	-458.5	12.00	359.58	289.4	
8	17293.1	90.00	359.58	12432.0	4756.0	-492.0	0.00	0.00	4761.4	PBHL (Barlow 34 Fed Com #711H)

WELLBORE TARGET DETAIL (MAP CO-ORDINATES)

Name	TVD	-N-S	+E-W	Nothing	Easting	Shape
FTP (Barlow 34 Fed Com #711H)	12432.0	204.0	-455.0	364784.00	781661.00	Point
PBHL (Barlow 34 Fed Com #711H)	12432.0	4756.0	-492.0	364784.00	781661.00	Point





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com

#711H

OH

Plan: Plan #0.4

Standard Planning Report

24 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: #711H
Wellbore: OH
Design: Plan #0.4

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25' @ 3342.0usft
MD Reference: KB = 25' @ 3342.0usft
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:		Northing:	364,974.00 usft
From:	Map	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:	#711H		
Well Position	+N/-S	24.0 usft	Northing:
	+E/-W	3,025.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	7/20/2017	(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,798.50907464

Design:	Plan #0.4		
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
			(°)
			354.09

Plan Survey Tool Program	Date 7/24/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	17,292.6 Plan #0.4 (OH)	MWD
			OWSG MWD - Standard

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,583.2	13.66	240.83	5,576.7	-39.5	-70.8	2.00	2.00	0.00	240.83	
7,102.7	13.66	240.83	7,053.3	-214.5	-384.2	0.00	0.00	0.00	0.00	
7,785.9	0.00	0.00	7,730.0	-254.0	-455.0	2.00	-2.00	0.00	180.00	
12,010.4	0.00	0.00	11,954.5	-254.0	-455.0	0.00	0.00	0.00	0.00	
12,760.4	90.00	359.58	12,432.0	223.4	-458.5	12.00	12.00	-0.06	359.58	
17,293.1	90.00	359.58	12,432.0	4,756.0	-492.0	0.00	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: #711H
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Local Co-ordinate Reference: Well #711H
 TVD Reference: KB = 25' @ 3342.0usft
 MD Reference: KB = 25' @ 3342.0usft
 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
885.0	0.00	0.00	885.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
974.0	0.00	0.00	974.0	0.0	0.0	0.0	0.00	0.00	0.00
Tamarisk Anhydrite									
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
1,227.0	0.00	0.00	1,227.0	0.0	0.0	0.0	0.00	0.00	0.00
Top of Salt									
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	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	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 Com
 Well: #711H
 Wellbore: OH
 Design: Plan #0.4

Local Co-ordinate Reference: Well #711H
 TVD Reference: KB = 25' @ 3342.0usft
 MD Reference: KB = 25' @ 3342.0usft
 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)	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,849.0	0.00	0.00	4,849.0	0.0	0.0	0.0	0.00	0.00	0.00	
Bottom of Salt										
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	2.00	240.83	5,000.0	-0.9	-1.5	-0.7	2.00	2.00	0.00	
5,077.1	3.54	240.83	5,077.0	-2.7	-4.6	-2.2	2.00	2.00	0.00	
Lamar										
5,100.0	4.00	240.83	5,099.8	-3.4	-6.1	-2.8	2.00	2.00	0.00	
5,107.2	4.14	240.83	5,107.0	-3.7	-6.5	-3.0	2.00	2.00	0.00	
Bell Canyon										
5,200.0	6.00	240.83	5,199.5	-7.6	-13.7	-6.2	2.00	2.00	0.00	
5,300.0	8.00	240.83	5,298.7	-13.6	-24.3	-11.0	2.00	2.00	0.00	
5,400.0	10.00	240.83	5,397.5	-21.2	-38.0	-17.2	2.00	2.00	0.00	
5,500.0	12.00	240.83	5,495.6	-30.5	-54.7	-24.7	2.00	2.00	0.00	
5,583.2	13.66	240.83	5,576.7	-39.5	-70.8	-32.0	2.00	2.00	0.00	
5,600.0	13.66	240.83	5,593.1	-41.5	-74.3	-33.6	0.00	0.00	0.00	
5,700.0	13.66	240.83	5,690.2	-53.0	-94.9	-42.9	0.00	0.00	0.00	
5,800.0	13.66	240.83	5,787.4	-64.5	-115.5	-52.3	0.00	0.00	0.00	
5,900.0	13.66	240.83	5,884.6	-76.0	-136.1	-61.6	0.00	0.00	0.00	
6,000.0	13.66	240.83	5,981.7	-87.5	-156.8	-70.9	0.00	0.00	0.00	
6,100.0	13.66	240.83	6,078.9	-99.0	-177.4	-80.2	0.00	0.00	0.00	
6,173.2	13.66	240.83	6,150.0	-107.4	-192.5	-87.1	0.00	0.00	0.00	
Cherry Canyon										
6,200.0	13.66	240.83	6,176.1	-110.5	-198.0	-89.6	0.00	0.00	0.00	
6,300.0	13.66	240.83	6,273.3	-122.1	-218.6	-98.9	0.00	0.00	0.00	
6,400.0	13.66	240.83	6,370.4	-133.6	-239.3	-108.2	0.00	0.00	0.00	
6,500.0	13.66	240.83	6,467.6	-145.1	-259.9	-117.6	0.00	0.00	0.00	
6,600.0	13.66	240.83	6,564.8	-156.6	-280.5	-126.9	0.00	0.00	0.00	
6,700.0	13.66	240.83	6,661.9	-168.1	-301.1	-136.2	0.00	0.00	0.00	
6,800.0	13.66	240.83	6,759.1	-179.6	-321.8	-145.6	0.00	0.00	0.00	
6,900.0	13.66	240.83	6,856.3	-191.1	-342.4	-154.9	0.00	0.00	0.00	
7,000.0	13.66	240.83	6,953.4	-202.7	-363.0	-164.2	0.00	0.00	0.00	
7,102.7	13.66	240.83	7,053.3	-214.5	-384.2	-173.8	0.00	0.00	0.00	
7,200.0	11.72	240.83	7,148.2	-224.9	-402.9	-182.3	2.00	-2.00	0.00	
7,300.0	9.72	240.83	7,246.4	-234.0	-419.1	-189.6	2.00	-2.00	0.00	
7,400.0	7.72	240.83	7,345.2	-241.3	-432.3	-195.6	2.00	-2.00	0.00	
7,500.0	5.72	240.83	7,444.6	-247.1	-442.6	-200.2	2.00	-2.00	0.00	
7,600.0	3.72	240.83	7,544.2	-251.1	-449.7	-203.5	2.00	-2.00	0.00	
7,700.0	1.72	240.83	7,644.1	-253.4	-453.9	-205.3	2.00	-2.00	0.00	
7,785.9	0.00	0.00	7,730.0	-254.0	-455.0	-205.8	2.00	-2.00	0.00	
Brushy Canyon										
7,800.0	0.00	0.00	7,744.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,844.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,944.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,044.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,144.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,244.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,344.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,444.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,544.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,644.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,744.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,844.1	-254.0	-455.0	-205.8	0.00	0.00	0.00	



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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)
9,000.0	0.00	0.00	8,944.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,044.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,144.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,244.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,339.9	0.00	0.00	9,284.0	-254.0	-455.0	-205.8	0.00	0.00	0.00
Bone Spring Lime									
9,400.0	0.00	0.00	9,344.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,413.9	0.00	0.00	9,358.0	-254.0	-455.0	-205.8	0.00	0.00	0.00
Leonard A									
9,500.0	0.00	0.00	9,444.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,544.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,644.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,744.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,844.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,944.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,044.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,144.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,258.9	0.00	0.00	10,203.0	-254.0	-455.0	-205.8	0.00	0.00	0.00
First Bone Spring Sand									
10,300.0	0.00	0.00	10,244.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,344.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,469.9	0.00	0.00	10,414.0	-254.0	-455.0	-205.8	0.00	0.00	0.00
SBSG Shale									
10,500.0	0.00	0.00	10,444.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,544.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,644.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,744.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
10,816.9	0.00	0.00	10,761.0	-254.0	-455.0	-205.8	0.00	0.00	0.00
SBSG Sand									
10,900.0	0.00	0.00	10,844.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,944.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,044.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,144.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,265.9	0.00	0.00	11,210.0	-254.0	-455.0	-205.8	0.00	0.00	0.00
Third Bone Spring Carb									
11,300.0	0.00	0.00	11,244.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,344.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,444.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,544.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,644.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,800.0	0.00	0.00	11,744.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
11,890.9	0.00	0.00	11,835.0	-254.0	-455.0	-205.8	0.00	0.00	0.00
Third Bone Spring Sand									
11,900.0	0.00	0.00	11,844.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
12,000.0	0.00	0.00	11,944.1	-254.0	-455.0	-205.8	0.00	0.00	0.00
12,010.4	0.00	0.00	11,954.5	-254.0	-455.0	-205.8	0.00	0.00	0.00
12,025.0	1.75	359.58	11,969.1	-253.8	-455.0	-205.6	12.00	12.00	0.00
12,050.0	4.75	359.58	11,994.0	-252.4	-455.0	-204.2	12.00	12.00	0.00
12,075.0	7.75	359.58	12,018.9	-249.6	-455.0	-201.5	12.00	12.00	0.00
12,100.0	10.75	359.58	12,043.6	-245.6	-455.1	-197.5	12.00	12.00	0.00
12,125.0	13.75	359.58	12,068.0	-240.3	-455.1	-192.2	12.00	12.00	0.00
12,150.0	16.75	359.58	12,092.1	-233.7	-455.1	-185.7	12.00	12.00	0.00
12,175.0	19.75	359.58	12,115.8	-225.9	-455.2	-177.9	12.00	12.00	0.00



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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)
12,200.0	22.75	359.58	12,139.1	-216.9	-455.3	-168.9	12.00	12.00	0.00
12,217.3	24.83	359.58	12,155.0	-209.9	-455.3	-161.9	12.00	12.00	0.00
TBSG FS									
12,225.0	25.75	359.58	12,161.9	-206.6	-455.4	-158.6	12.00	12.00	0.00
12,250.0	28.75	359.58	12,184.2	-195.1	-455.4	-147.2	12.00	12.00	0.00
12,275.0	31.75	359.58	12,205.7	-182.6	-455.5	-134.7	12.00	12.00	0.00
12,300.0	34.75	359.58	12,226.7	-168.8	-455.6	-121.1	12.00	12.00	0.00
12,325.0	37.75	359.58	12,246.8	-154.1	-455.7	-106.4	12.00	12.00	0.00
12,331.6	38.54	359.58	12,252.0	-150.0	-455.8	-102.3	12.00	12.00	0.00
Wolfcamp									
12,350.0	40.75	359.58	12,266.2	-138.2	-455.9	-90.6	12.00	12.00	0.00
12,371.3	43.31	359.58	12,282.0	-124.0	-456.0	-76.4	12.00	12.00	0.00
Wfmp Clastics X									
12,375.0	43.75	359.58	12,284.7	-121.4	-456.0	-73.9	12.00	12.00	0.00
12,400.0	46.75	359.58	12,302.3	-103.7	-456.1	-56.2	12.00	12.00	0.00
12,411.5	48.14	359.58	12,310.1	-95.2	-456.2	-47.7	12.00	12.00	0.00
FTP (Barlow 34 Fed Com #711H)									
12,425.0	49.75	359.58	12,318.9	-85.0	-456.2	-37.6	12.00	12.00	0.00
12,450.0	52.75	359.58	12,334.6	-65.5	-456.4	-18.2	12.00	12.00	0.00
12,475.0	55.75	359.58	12,349.2	-45.3	-456.5	2.0	12.00	12.00	0.00
12,500.0	58.75	359.58	12,362.7	-24.2	-456.7	22.9	12.00	12.00	0.00
12,525.0	61.75	359.58	12,375.1	-2.5	-456.9	44.5	12.00	12.00	0.00
12,531.2	62.50	359.58	12,378.0	3.0	-456.9	50.0	12.00	12.00	0.00
Wfmp Clastics Y									
12,550.0	64.75	359.58	12,386.3	19.8	-457.0	66.7	12.00	12.00	0.00
12,575.0	67.75	359.58	12,396.4	42.7	-457.2	89.5	12.00	12.00	0.00
12,593.3	69.94	359.58	12,403.0	59.7	-457.3	106.4	12.00	12.00	0.00
Wolfcamp Y TOW									
12,600.0	70.75	359.58	12,405.3	66.0	-457.4	112.7	12.00	12.00	0.00
12,625.0	73.75	359.58	12,412.9	89.8	-457.5	136.4	12.00	12.00	0.00
12,650.0	76.75	359.58	12,419.3	114.0	-457.7	160.5	12.00	12.00	0.00
12,675.0	79.75	359.58	12,424.3	138.5	-457.9	184.9	12.00	12.00	0.00
12,678.8	80.20	359.58	12,425.0	142.2	-457.9	188.6	12.00	12.00	0.00
Wolfcamp Y BOW									
12,700.0	82.75	359.58	12,428.1	163.2	-458.1	209.5	12.00	12.00	0.00
12,725.0	85.75	359.58	12,430.7	188.1	-458.3	234.2	12.00	12.00	0.00
12,750.0	88.75	359.58	12,431.9	213.0	-458.4	259.1	12.00	12.00	0.00
12,760.4	90.00	359.58	12,432.0	223.4	-458.5	269.4	12.00	12.00	0.00
12,800.0	90.00	359.58	12,432.0	263.0	-458.8	308.8	0.00	0.00	0.00
12,900.0	90.00	359.58	12,432.0	363.0	-459.6	408.4	0.00	0.00	0.00
13,000.0	90.00	359.58	12,432.0	463.0	-460.3	507.9	0.00	0.00	0.00
13,100.0	90.00	359.58	12,432.0	563.0	-461.0	607.5	0.00	0.00	0.00
13,200.0	90.00	359.58	12,432.0	663.0	-461.8	707.0	0.00	0.00	0.00
13,300.0	90.00	359.58	12,432.0	763.0	-462.5	806.6	0.00	0.00	0.00
13,400.0	90.00	359.58	12,432.0	863.0	-463.2	906.1	0.00	0.00	0.00
13,500.0	90.00	359.58	12,432.0	963.0	-464.0	1,005.6	0.00	0.00	0.00
13,600.0	90.00	359.58	12,432.0	1,063.0	-464.7	1,105.2	0.00	0.00	0.00
13,700.0	90.00	359.58	12,432.0	1,163.0	-465.5	1,204.7	0.00	0.00	0.00
13,800.0	90.00	359.58	12,432.0	1,263.0	-466.2	1,304.3	0.00	0.00	0.00
13,900.0	90.00	359.58	12,432.0	1,363.0	-466.9	1,403.8	0.00	0.00	0.00
14,000.0	90.00	359.58	12,432.0	1,463.0	-467.7	1,503.4	0.00	0.00	0.00
14,100.0	90.00	359.58	12,432.0	1,563.0	-468.4	1,602.9	0.00	0.00	0.00
14,200.0	90.00	359.58	12,432.0	1,663.0	-469.2	1,702.4	0.00	0.00	0.00

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Site: Barlow 34 Fed Com
Well: #711H
Wellbore: OH
Design: Plan #0.4

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25' @ 3342.0usft
MD Reference: KB = 25' @ 3342.0usft
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)
14,300.0	90.00	359.58	12,432.0	1,763.0	-469.9	1,802.0	0.00	0.00	0.00
14,400.0	90.00	359.58	12,432.0	1,863.0	-470.6	1,901.5	0.00	0.00	0.00
14,500.0	90.00	359.58	12,432.0	1,963.0	-471.4	2,001.1	0.00	0.00	0.00
14,600.0	90.00	359.58	12,432.0	2,063.0	-472.1	2,100.6	0.00	0.00	0.00
14,700.0	90.00	359.58	12,432.0	2,163.0	-472.8	2,200.2	0.00	0.00	0.00
14,800.0	90.00	359.58	12,432.0	2,263.0	-473.6	2,299.7	0.00	0.00	0.00
14,900.0	90.00	359.58	12,432.0	2,363.0	-474.3	2,399.2	0.00	0.00	0.00
15,000.0	90.00	359.58	12,432.0	2,463.0	-475.1	2,498.8	0.00	0.00	0.00
15,100.0	90.00	359.58	12,432.0	2,563.0	-475.8	2,598.3	0.00	0.00	0.00
15,200.0	90.00	359.58	12,432.0	2,663.0	-476.5	2,697.9	0.00	0.00	0.00
15,300.0	90.00	359.58	12,432.0	2,763.0	-477.3	2,797.4	0.00	0.00	0.00
15,400.0	90.00	359.58	12,432.0	2,863.0	-478.0	2,897.0	0.00	0.00	0.00
15,500.0	90.00	359.58	12,432.0	2,963.0	-478.8	2,996.5	0.00	0.00	0.00
15,600.0	90.00	359.58	12,432.0	3,063.0	-479.5	3,096.0	0.00	0.00	0.00
15,700.0	90.00	359.58	12,432.0	3,163.0	-480.2	3,195.6	0.00	0.00	0.00
15,800.0	90.00	359.58	12,432.0	3,263.0	-481.0	3,295.1	0.00	0.00	0.00
15,900.0	90.00	359.58	12,432.0	3,362.9	-481.7	3,394.7	0.00	0.00	0.00
16,000.0	90.00	359.58	12,432.0	3,462.9	-482.5	3,494.2	0.00	0.00	0.00
16,100.0	90.00	359.58	12,432.0	3,562.9	-483.2	3,593.7	0.00	0.00	0.00
16,200.0	90.00	359.58	12,432.0	3,662.9	-483.9	3,693.3	0.00	0.00	0.00
16,300.0	90.00	359.58	12,432.0	3,762.9	-484.7	3,792.8	0.00	0.00	0.00
16,400.0	90.00	359.58	12,432.0	3,862.9	-485.4	3,892.4	0.00	0.00	0.00
16,500.0	90.00	359.58	12,432.0	3,962.9	-486.1	3,991.9	0.00	0.00	0.00
16,600.0	90.00	359.58	12,432.0	4,062.9	-486.9	4,091.5	0.00	0.00	0.00
16,700.0	90.00	359.58	12,432.0	4,162.9	-487.6	4,191.0	0.00	0.00	0.00
16,800.0	90.00	359.58	12,432.0	4,262.9	-488.4	4,290.5	0.00	0.00	0.00
16,900.0	90.00	359.58	12,432.0	4,362.9	-489.1	4,390.1	0.00	0.00	0.00
17,000.0	90.00	359.58	12,432.0	4,462.9	-489.8	4,489.6	0.00	0.00	0.00
17,100.0	90.00	359.58	12,432.0	4,562.9	-490.6	4,589.2	0.00	0.00	0.00
17,200.0	90.00	359.58	12,432.0	4,662.9	-491.3	4,688.7	0.00	0.00	0.00
17,293.1	90.00	359.58	12,432.0	4,756.0	-492.0	4,781.4	0.00	0.00	0.00

PBHL (Barlow 34 Fed Com #711H)

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	12,432.0	-204.0	-455.0	364,794.00	781,551.00	32° 0' 1.916 N	103° 33' 30.338 W
- hit/miss target									
- Shape									
- Point									
- plan misses target center by 163.4usft at 12411.5usft MD (12310.1 TVD, -95.2 N, -456.2 E)									
PBHL (Barlow 34 Fed Co	0.00	0.00	12,432.0	4,756.0	-492.0	369,754.00	781,514.00	32° 0' 51.000 N	103° 33' 30.355 W
- plan hits target center									
- Point									



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Barlow 34 Fed Com
Well: #711H
Wellbore: OH
Design: Plan #0.4

Local Co-ordinate Reference: Well #711H
TYD Reference: KB = 25' @ 3342.0usft
MD Reference: KB = 25' @ 3342.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
885.0	885.0	Rustler			
974.0	974.0	Tamarisk Anhydrite			
1,227.0	1,227.0	Top of Salt			
4,849.0	4,849.0	Bottom of Salt			
5,077.1	5,077.0	Lamar			
5,107.2	5,107.0	Bell Canyon			
6,173.2	6,150.0	Cherry Canyon			
7,785.9	7,730.0	Brushy Canyon			
9,339.9	9,284.0	Bone Spring Lime			
9,413.9	9,358.0	Leonard A			
10,258.9	10,203.0	First Bone Spring Sand			
10,469.9	10,414.0	SBSG Shale			
10,816.9	10,761.0	SBSG Sand			
11,265.9	11,210.0	Third Bone Spring Carb			
11,890.9	11,835.0	Third Bone Spring Sand			
12,217.3	12,155.0	TBSG FS			
12,331.6	12,252.0	Wolfcamp			
12,371.3	12,282.0	Wfmp Clastics X			
12,531.2	12,378.0	Wfmp Clastics Y			
12,593.3	12,403.0	Wolfcamp Y TOW			
12,678.8	12,425.0	Wolfcamp Y BOW			