

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-43861
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 2267 Midland, TX 79702		7. Lease Name or Unit Agreement Name Hearns 34 State Com
4. Well Location Unit Letter P : 300 feet from the South line and 1238 feet from the East line Section 34 Township 24S Range 33E NMPM County Lea		8. Well Number 711H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3483' GR		9. OGRID Number 7377
		10. Pool name or Wildcat *WC-025 G-09 S2433361; Upper Wolfcamp

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests an amendment to our approved APD for this well to reflect changes in casing and BHL as attached.

Change BHL to: 230' FNL & 1356' FEL B-27-24S-33E

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 5/24/2018

Type or print name Stan Wagner E-mail address: _____ PHONE: 432-686-3689

For State Use Only

APPROVED BY Karen Sharp TITLE Staff Mgr DATE 6-6-18
Conditions of Approval (if any):

Revised Permit Information 5/24/18:

Well Name: Hearn's 34 State Com No. 711H

Location:

SL: 300' FSL & 1238' FEL, Section 34, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 1356' FEL, Section 27, T-24-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 - 1,240'	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' - 5,000'	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'-22,572'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1,240'	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)
5,000'	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 @ 4,500')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
22,572'	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 - 1,240'	Fresh - Gel	8.6-8.8	28-34	N/c
1,240' - 5,000'	Brine	10.0-10.2	28-34	N/c
5,000' - 11,400'	Oil Base	8.7-9.4	58-68	N/c - 6
11,400' - 22,572' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Hearns 34 State Com #711H **HOBBS OCD**
Lea County, New Mexico

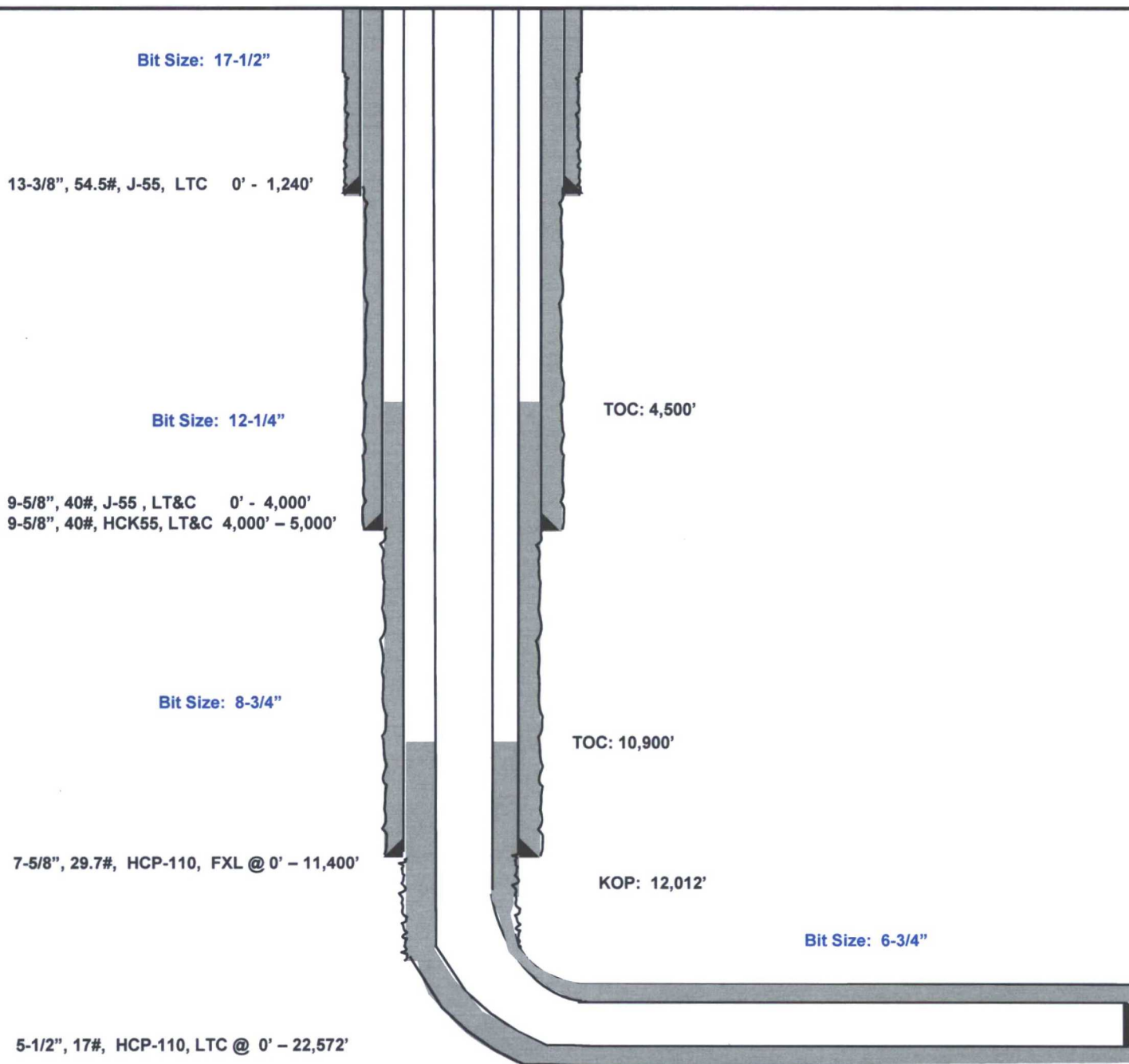
MAY 29 2018

300' FSL
1238' FEL
Section 34
T-24-S, R-33-E

Proposed Wellbore
Revised 5/24/18
API: 30-025-43861

RECEIVED

KB: 3,508'
GL: 3,483'



Lateral: 22,572' MD, 12,500' TVD

BH Location: 230' FNL & 1356' FEL
Section 27
T-24-S, R-33-E

MAY 29 2018

RECEIVED



Lea County, NM (NAD 83 NME)

Hearns 34 State Com #711H

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: #711H

KB = 25' @ 3008.0usft 3483.0
Northing 628800.00 Easting 781974.00 Latitude 32° 10' 3.584 N Longitude 103° 33' 20.335 W

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.53°

Magnetic Field
Strength: 47906.7nT
Dip Angle: 60.01°
Date: 6/14/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.53°
To convert a Magnetic Direction to a True Direction, Add 6.94° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

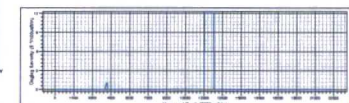
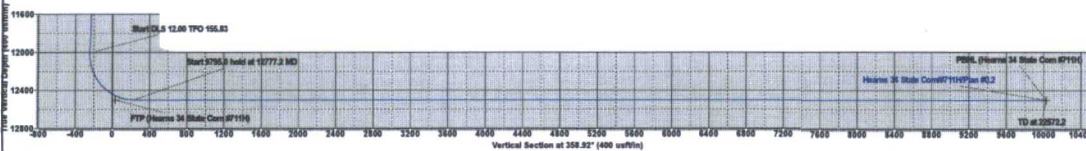
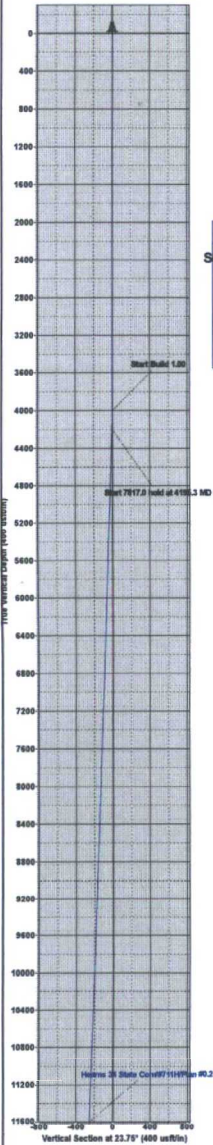
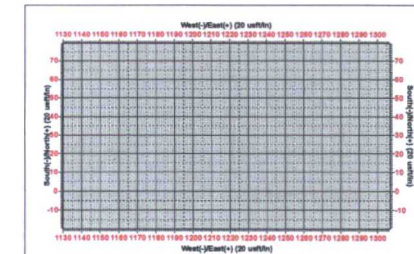
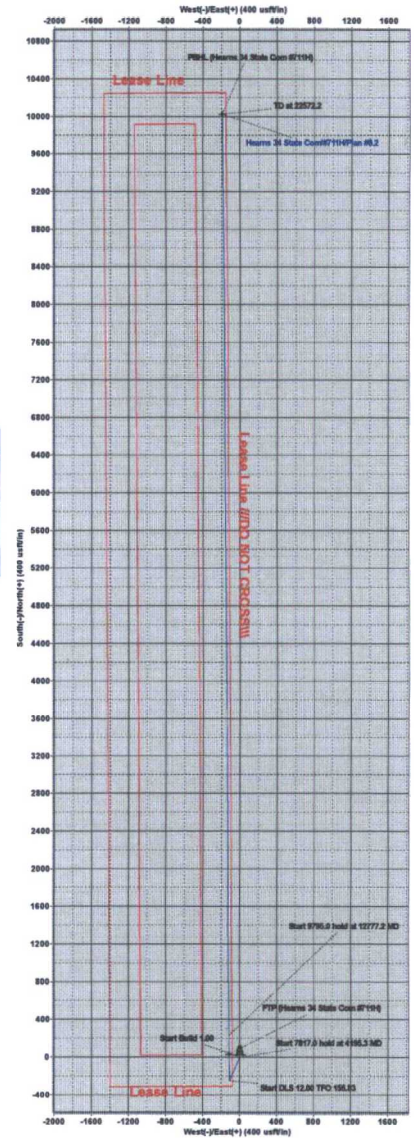
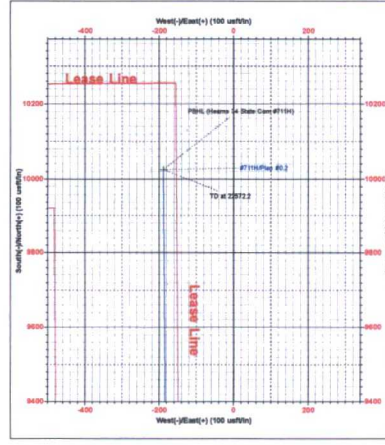
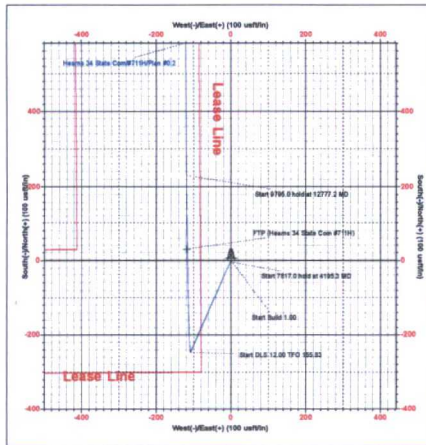
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4195.3	1.95	203.75	4195.3	-3.0	-1.3	1.00	203.75	-3.0	
4	12012.3	1.95	203.75	12007.7	-246.9	-108.6	0.00	0.00	-244.8	
5	12777.2	90.00	359.59	12500.0	230.3	-118.9	12.00	155.83	232.5	
6	22572.2	90.00	359.59	12500.0	10025.0	-189.0	0.00	0.00	10026.8	PBHL (Hearns 34 State Com #711H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Hearns 34 State Com #711H)	12900.0	29.0	-119.0	425628.00	781888.00
PBHL (Hearns 34 State Com #711H)	12900.0	10025.0	-189.0	436628.00	781788.00



Lea County, NM (NAD 83 NME)
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#711H

OH

HOBBS OCD

MAY 29 2018

RECEIVED

Plan: Plan #0.2

Standard Planning Report

24 May, 2018

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Com
Well: #711H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25' @ 3508.0usft
MD Reference: KB = 25' @ 3508.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Site: Hearn 34 State Com

Site Position: Northing: 425,568.00 usft Latitude: 32° 10' 3.355 N
From: Map Easting: 780,745.00 usft Longitude: 103° 33' 34.635 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.41 °

Well: #711H

Well Position: +N/-S 32.0 usft Northing: 425,600.00 usft Latitude: 32° 10' 3.584 N
+E/-W 1,229.0 usft Easting: 781,974.00 usft Longitude: 103° 33' 20.335 W
Position Uncertainty: 0.0 usft Wellhead Elevation: Ground Level: 3,483.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/14/2017	6.94	60.01	47,906.74928973

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	358.92

Plan Survey Tool Program Date: 5/24/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,572.2 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	
4,195.3	1.95	203.75	4,195.3	-3.0	-1.3	1.00	1.00	0.00	203.75	
12,012.3	1.95	203.75	12,007.7	-246.9	-108.6	0.00	0.00	0.00	0.00	
12,777.2	90.00	359.59	12,500.0	230.3	-118.9	12.00	11.51	20.38	155.83	
22,572.2	90.00	359.59	12,500.0	10,025.0	-189.0	0.00	0.00	0.00	0.00	PBHL (Hearn 34 Sta



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Hearn 34 State Com
 Well: #711H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #711H
 TVD Reference: KB = 25' @ 3508.0usft
 MD Reference: KB = 25' @ 3508.0usft
 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	203.75	4,100.0	-0.8	-0.4	-0.8	1.00	1.00	0.00
4,195.3	1.95	203.75	4,195.3	-3.0	-1.3	-3.0	1.00	1.00	0.00
4,200.0	1.95	203.75	4,200.0	-3.2	-1.4	-3.2	0.00	0.00	0.00
4,300.0	1.95	203.75	4,299.9	-6.3	-2.8	-6.3	0.00	0.00	0.00
4,400.0	1.95	203.75	4,399.8	-9.4	-4.1	-9.4	0.00	0.00	0.00
4,500.0	1.95	203.75	4,499.8	-12.6	-5.5	-12.4	0.00	0.00	0.00
4,600.0	1.95	203.75	4,599.7	-15.7	-6.9	-15.5	0.00	0.00	0.00
4,700.0	1.95	203.75	4,699.7	-18.8	-8.3	-18.6	0.00	0.00	0.00
4,800.0	1.95	203.75	4,799.6	-21.9	-9.6	-21.7	0.00	0.00	0.00
4,900.0	1.95	203.75	4,899.6	-25.0	-11.0	-24.8	0.00	0.00	0.00
5,000.0	1.95	203.75	4,999.5	-28.2	-12.4	-27.9	0.00	0.00	0.00
5,100.0	1.95	203.75	5,099.4	-31.3	-13.8	-31.0	0.00	0.00	0.00
5,200.0	1.95	203.75	5,199.4	-34.4	-15.1	-34.1	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn's 34 State Com
Well: #711H
Wellbore: OH
Design: Plan #0.2

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

Well #711H
KB = 25' @ 3508.0usft
KB = 25' @ 3508.0usft
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)
5,300.0	1.95	203.75	5,299.3	-37.5	-16.5	-37.2	0.00	0.00	0.00
5,400.0	1.95	203.75	5,399.3	-40.6	-17.9	-40.3	0.00	0.00	0.00
5,500.0	1.95	203.75	5,499.2	-43.8	-19.2	-43.4	0.00	0.00	0.00
5,600.0	1.95	203.75	5,599.1	-46.9	-20.6	-46.5	0.00	0.00	0.00
5,700.0	1.95	203.75	5,699.1	-50.0	-22.0	-49.6	0.00	0.00	0.00
5,800.0	1.95	203.75	5,799.0	-53.1	-23.4	-52.7	0.00	0.00	0.00
5,900.0	1.95	203.75	5,899.0	-56.2	-24.7	-55.8	0.00	0.00	0.00
6,000.0	1.95	203.75	5,998.9	-59.3	-26.1	-58.8	0.00	0.00	0.00
6,100.0	1.95	203.75	6,098.9	-62.5	-27.5	-61.9	0.00	0.00	0.00
6,200.0	1.95	203.75	6,198.8	-65.6	-28.9	-65.0	0.00	0.00	0.00
6,300.0	1.95	203.75	6,298.7	-68.7	-30.2	-68.1	0.00	0.00	0.00
6,400.0	1.95	203.75	6,398.7	-71.8	-31.6	-71.2	0.00	0.00	0.00
6,500.0	1.95	203.75	6,498.6	-74.9	-33.0	-74.3	0.00	0.00	0.00
6,600.0	1.95	203.75	6,598.6	-78.1	-34.3	-77.4	0.00	0.00	0.00
6,700.0	1.95	203.75	6,698.5	-81.2	-35.7	-80.5	0.00	0.00	0.00
6,800.0	1.95	203.75	6,798.4	-84.3	-37.1	-83.6	0.00	0.00	0.00
6,900.0	1.95	203.75	6,898.4	-87.4	-38.5	-86.7	0.00	0.00	0.00
7,000.0	1.95	203.75	6,998.3	-90.5	-39.8	-89.8	0.00	0.00	0.00
7,100.0	1.95	203.75	7,098.3	-93.7	-41.2	-92.9	0.00	0.00	0.00
7,200.0	1.95	203.75	7,198.2	-96.8	-42.6	-96.0	0.00	0.00	0.00
7,300.0	1.95	203.75	7,298.2	-99.9	-44.0	-99.1	0.00	0.00	0.00
7,400.0	1.95	203.75	7,398.1	-103.0	-45.3	-102.2	0.00	0.00	0.00
7,500.0	1.95	203.75	7,498.0	-106.1	-46.7	-105.2	0.00	0.00	0.00
7,600.0	1.95	203.75	7,598.0	-109.3	-48.1	-108.3	0.00	0.00	0.00
7,700.0	1.95	203.75	7,697.9	-112.4	-49.4	-111.4	0.00	0.00	0.00
7,706.7	1.95	203.75	7,704.7	-112.6	-49.5	-111.6	0.00	0.00	0.00
KOP (Hearn's 34 State Com #711H)									
7,800.0	1.95	203.75	7,797.9	-115.5	-50.8	-114.5	0.00	0.00	0.00
7,900.0	1.95	203.75	7,897.8	-118.6	-52.2	-117.6	0.00	0.00	0.00
8,000.0	1.95	203.75	7,997.8	-121.7	-53.6	-120.7	0.00	0.00	0.00
8,100.0	1.95	203.75	8,097.7	-124.9	-54.9	-123.8	0.00	0.00	0.00
8,200.0	1.95	203.75	8,197.6	-128.0	-56.3	-126.9	0.00	0.00	0.00
8,300.0	1.95	203.75	8,297.6	-131.1	-57.7	-130.0	0.00	0.00	0.00
8,400.0	1.95	203.75	8,397.5	-134.2	-59.0	-133.1	0.00	0.00	0.00
8,500.0	1.95	203.75	8,497.5	-137.3	-60.4	-136.2	0.00	0.00	0.00
8,600.0	1.95	203.75	8,597.4	-140.5	-61.8	-139.3	0.00	0.00	0.00
8,700.0	1.95	203.75	8,697.3	-143.6	-63.2	-142.4	0.00	0.00	0.00
8,800.0	1.95	203.75	8,797.3	-146.7	-64.5	-145.5	0.00	0.00	0.00
8,900.0	1.95	203.75	8,897.2	-149.8	-65.9	-148.6	0.00	0.00	0.00
9,000.0	1.95	203.75	8,997.2	-152.9	-67.3	-151.6	0.00	0.00	0.00
9,100.0	1.95	203.75	9,097.1	-156.1	-68.7	-154.7	0.00	0.00	0.00
9,200.0	1.95	203.75	9,197.1	-159.2	-70.0	-157.8	0.00	0.00	0.00
9,300.0	1.95	203.75	9,297.0	-162.3	-71.4	-160.9	0.00	0.00	0.00
9,400.0	1.95	203.75	9,396.9	-165.4	-72.8	-164.0	0.00	0.00	0.00
9,500.0	1.95	203.75	9,496.9	-168.5	-74.1	-167.1	0.00	0.00	0.00
9,600.0	1.95	203.75	9,596.8	-171.7	-75.5	-170.2	0.00	0.00	0.00
9,700.0	1.95	203.75	9,696.8	-174.8	-76.9	-173.3	0.00	0.00	0.00
9,800.0	1.95	203.75	9,796.7	-177.9	-78.3	-176.4	0.00	0.00	0.00
9,900.0	1.95	203.75	9,896.6	-181.0	-79.6	-179.5	0.00	0.00	0.00
10,000.0	1.95	203.75	9,996.6	-184.1	-81.0	-182.6	0.00	0.00	0.00
10,100.0	1.95	203.75	10,096.5	-187.3	-82.4	-185.7	0.00	0.00	0.00
10,200.0	1.95	203.75	10,196.5	-190.4	-83.8	-188.8	0.00	0.00	0.00
10,300.0	1.95	203.75	10,296.4	-193.5	-85.1	-191.9	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn's 34 State Com
Well: #711H
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Design: Plan #0.2

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25' @ 3508.0usft
MD Reference: KB = 25' @ 3508.0usft
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)
10,400.0	1.95	203.75	10,396.4	-196.6	-86.5	-195.0	0.00	0.00	0.00
10,500.0	1.95	203.75	10,496.3	-199.7	-87.9	-198.0	0.00	0.00	0.00
10,600.0	1.95	203.75	10,596.2	-202.9	-89.2	-201.1	0.00	0.00	0.00
10,700.0	1.95	203.75	10,696.2	-206.0	-90.6	-204.2	0.00	0.00	0.00
10,800.0	1.95	203.75	10,796.1	-209.1	-92.0	-207.3	0.00	0.00	0.00
10,900.0	1.95	203.75	10,896.1	-212.2	-93.4	-210.4	0.00	0.00	0.00
11,000.0	1.95	203.75	10,996.0	-215.3	-94.7	-213.5	0.00	0.00	0.00
11,100.0	1.95	203.75	11,096.0	-218.5	-96.1	-216.6	0.00	0.00	0.00
11,200.0	1.95	203.75	11,195.9	-221.6	-97.5	-219.7	0.00	0.00	0.00
11,300.0	1.95	203.75	11,295.8	-224.7	-98.8	-222.8	0.00	0.00	0.00
11,400.0	1.95	203.75	11,395.8	-227.8	-100.2	-225.9	0.00	0.00	0.00
11,500.0	1.95	203.75	11,495.7	-230.9	-101.6	-229.0	0.00	0.00	0.00
11,600.0	1.95	203.75	11,595.7	-234.1	-103.0	-232.1	0.00	0.00	0.00
11,700.0	1.95	203.75	11,695.6	-237.2	-104.3	-235.2	0.00	0.00	0.00
11,800.0	1.95	203.75	11,795.5	-240.3	-105.7	-238.3	0.00	0.00	0.00
11,900.0	1.95	203.75	11,895.5	-243.4	-107.1	-241.4	0.00	0.00	0.00
12,000.0	1.95	203.75	11,995.4	-246.5	-108.5	-244.4	0.00	0.00	0.00
12,012.3	1.95	203.75	12,007.7	-246.9	-108.6	-244.8	0.00	0.00	0.00
12,025.0	0.84	251.59	12,020.4	-247.1	-108.8	-245.1	12.00	-8.77	377.13
12,050.0	2.85	343.34	12,045.4	-246.6	-109.2	-244.5	12.00	8.05	366.99
12,075.0	5.80	351.69	12,070.3	-244.8	-109.5	-242.7	12.00	11.76	33.40
12,100.0	8.78	354.40	12,095.1	-241.6	-109.9	-239.5	12.00	11.92	10.87
12,125.0	11.77	355.75	12,119.7	-237.2	-110.3	-235.1	12.00	11.96	5.38
12,150.0	14.76	356.55	12,144.1	-231.5	-110.6	-229.3	12.00	11.98	3.22
12,175.0	17.76	357.09	12,168.1	-224.5	-111.0	-222.3	12.00	11.98	2.15
12,200.0	20.75	357.48	12,191.7	-216.2	-111.4	-214.1	12.00	11.99	1.55
12,225.0	23.75	357.77	12,214.8	-206.8	-111.8	-204.6	12.00	11.99	1.17
12,250.0	26.75	358.00	12,237.4	-196.1	-112.2	-194.0	12.00	11.99	0.92
12,275.0	29.75	358.19	12,259.4	-184.3	-112.6	-182.1	12.00	11.99	0.75
12,300.0	32.75	358.35	12,280.8	-171.3	-113.0	-169.2	12.00	12.00	0.62
12,325.0	35.75	358.48	12,301.4	-157.3	-113.4	-155.1	12.00	12.00	0.53
12,350.0	38.75	358.59	12,321.3	-142.1	-113.8	-140.0	12.00	12.00	0.46
12,375.0	41.75	358.69	12,340.4	-126.0	-114.1	-123.8	12.00	12.00	0.40
12,400.0	44.75	358.78	12,358.6	-108.9	-114.5	-106.7	12.00	12.00	0.36
12,425.0	47.75	358.86	12,375.9	-90.8	-114.9	-88.6	12.00	12.00	0.32
12,450.0	50.74	358.94	12,392.2	-71.9	-115.2	-69.7	12.00	12.00	0.29
12,475.0	53.74	359.00	12,407.5	-52.1	-115.6	-49.9	12.00	12.00	0.27
12,500.0	56.74	359.07	12,421.8	-31.6	-115.9	-29.4	12.00	12.00	0.25
12,525.0	59.74	359.12	12,435.0	-10.3	-116.3	-8.1	12.00	12.00	0.23
12,550.0	62.74	359.18	12,447.0	11.6	-116.6	13.8	12.00	12.00	0.22
12,575.0	65.74	359.23	12,457.8	34.1	-116.9	36.3	12.00	12.00	0.21
12,586.6	67.14	359.25	12,462.5	44.8	-117.1	47.0	12.00	12.00	0.20
FTP (Hearn's 34 State Com #711H)									
12,600.0	68.74	359.28	12,467.5	57.1	-117.2	59.3	12.00	12.00	0.19
12,625.0	71.74	359.33	12,476.0	80.7	-117.5	82.9	12.00	12.00	0.19
12,650.0	74.74	359.37	12,483.2	104.6	-117.8	106.8	12.00	12.00	0.18
12,675.0	77.74	359.42	12,489.1	128.9	-118.0	131.1	12.00	12.00	0.18
12,700.0	80.74	359.46	12,493.8	153.4	-118.3	155.6	12.00	12.00	0.17
12,725.0	83.74	359.50	12,497.2	178.2	-118.5	180.4	12.00	12.00	0.17
12,750.0	86.74	359.54	12,499.2	203.1	-118.7	205.3	12.00	12.00	0.17
12,777.2	90.00	359.59	12,500.0	230.3	-118.9	232.5	12.00	12.00	0.17
12,800.0	90.00	359.59	12,500.0	253.1	-119.1	255.3	0.00	0.00	0.00
12,900.0	90.00	359.59	12,500.0	353.1	-119.8	355.3	0.00	0.00	0.00
13,000.0	90.00	359.59	12,500.0	453.1	-120.5	455.3	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Com
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Local Co-ordinate Reference:
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MD Reference:
North Reference:
Survey Calculation Method:

Well #711H
KB = 25' @ 3508.0usft
KB = 25' @ 3508.0usft
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)
13,100.0	90.00	359.59	12,500.0	553.1	-121.2	555.3	0.00	0.00	0.00
13,200.0	90.00	359.59	12,500.0	653.1	-121.9	655.3	0.00	0.00	0.00
13,300.0	90.00	359.59	12,500.0	753.1	-122.7	755.3	0.00	0.00	0.00
13,400.0	90.00	359.59	12,500.0	853.1	-123.4	855.2	0.00	0.00	0.00
13,500.0	90.00	359.59	12,500.0	953.1	-124.1	955.2	0.00	0.00	0.00
13,600.0	90.00	359.59	12,500.0	1,053.1	-124.8	1,055.2	0.00	0.00	0.00
13,700.0	90.00	359.59	12,500.0	1,153.1	-125.5	1,155.2	0.00	0.00	0.00
13,800.0	90.00	359.59	12,500.0	1,253.1	-126.2	1,255.2	0.00	0.00	0.00
13,900.0	90.00	359.59	12,500.0	1,353.1	-126.9	1,355.2	0.00	0.00	0.00
14,000.0	90.00	359.59	12,500.0	1,453.1	-127.7	1,455.2	0.00	0.00	0.00
14,100.0	90.00	359.59	12,500.0	1,553.1	-128.4	1,555.2	0.00	0.00	0.00
14,200.0	90.00	359.59	12,500.0	1,653.0	-129.1	1,655.2	0.00	0.00	0.00
14,300.0	90.00	359.59	12,500.0	1,753.0	-129.8	1,755.2	0.00	0.00	0.00
14,400.0	90.00	359.59	12,500.0	1,853.0	-130.5	1,855.2	0.00	0.00	0.00
14,500.0	90.00	359.59	12,500.0	1,953.0	-131.2	1,955.2	0.00	0.00	0.00
14,600.0	90.00	359.59	12,500.0	2,053.0	-132.0	2,055.2	0.00	0.00	0.00
14,700.0	90.00	359.59	12,500.0	2,153.0	-132.7	2,155.2	0.00	0.00	0.00
14,800.0	90.00	359.59	12,500.0	2,253.0	-133.4	2,255.1	0.00	0.00	0.00
14,900.0	90.00	359.59	12,500.0	2,353.0	-134.1	2,355.1	0.00	0.00	0.00
15,000.0	90.00	359.59	12,500.0	2,453.0	-134.8	2,455.1	0.00	0.00	0.00
15,100.0	90.00	359.59	12,500.0	2,553.0	-135.5	2,555.1	0.00	0.00	0.00
15,200.0	90.00	359.59	12,500.0	2,653.0	-136.2	2,655.1	0.00	0.00	0.00
15,300.0	90.00	359.59	12,500.0	2,753.0	-137.0	2,755.1	0.00	0.00	0.00
15,400.0	90.00	359.59	12,500.0	2,853.0	-137.7	2,855.1	0.00	0.00	0.00
15,500.0	90.00	359.59	12,500.0	2,953.0	-138.4	2,955.1	0.00	0.00	0.00
15,600.0	90.00	359.59	12,500.0	3,053.0	-139.1	3,055.1	0.00	0.00	0.00
15,700.0	90.00	359.59	12,500.0	3,153.0	-139.8	3,155.1	0.00	0.00	0.00
15,800.0	90.00	359.59	12,500.0	3,253.0	-140.5	3,255.1	0.00	0.00	0.00
15,900.0	90.00	359.59	12,500.0	3,353.0	-141.3	3,355.1	0.00	0.00	0.00
16,000.0	90.00	359.59	12,500.0	3,453.0	-142.0	3,455.1	0.00	0.00	0.00
16,100.0	90.00	359.59	12,500.0	3,553.0	-142.7	3,555.1	0.00	0.00	0.00
16,200.0	90.00	359.59	12,500.0	3,653.0	-143.4	3,655.1	0.00	0.00	0.00
16,300.0	90.00	359.59	12,500.0	3,753.0	-144.1	3,755.0	0.00	0.00	0.00
16,400.0	90.00	359.59	12,500.0	3,853.0	-144.8	3,855.0	0.00	0.00	0.00
16,500.0	90.00	359.59	12,500.0	3,953.0	-145.5	3,955.0	0.00	0.00	0.00
16,600.0	90.00	359.59	12,500.0	4,053.0	-146.3	4,055.0	0.00	0.00	0.00
16,700.0	90.00	359.59	12,500.0	4,153.0	-147.0	4,155.0	0.00	0.00	0.00
16,800.0	90.00	359.59	12,500.0	4,253.0	-147.7	4,255.0	0.00	0.00	0.00
16,900.0	90.00	359.59	12,500.0	4,353.0	-148.4	4,355.0	0.00	0.00	0.00
17,000.0	90.00	359.59	12,500.0	4,453.0	-149.1	4,455.0	0.00	0.00	0.00
17,100.0	90.00	359.59	12,500.0	4,553.0	-149.8	4,555.0	0.00	0.00	0.00
17,200.0	90.00	359.59	12,500.0	4,653.0	-150.6	4,655.0	0.00	0.00	0.00
17,300.0	90.00	359.59	12,500.0	4,753.0	-151.3	4,755.0	0.00	0.00	0.00
17,400.0	90.00	359.59	12,500.0	4,853.0	-152.0	4,855.0	0.00	0.00	0.00
17,500.0	90.00	359.59	12,500.0	4,953.0	-152.7	4,955.0	0.00	0.00	0.00
17,600.0	90.00	359.59	12,500.0	5,053.0	-153.4	5,055.0	0.00	0.00	0.00
17,700.0	90.00	359.59	12,500.0	5,153.0	-154.1	5,154.9	0.00	0.00	0.00
17,800.0	90.00	359.59	12,500.0	5,253.0	-154.9	5,254.9	0.00	0.00	0.00
17,900.0	90.00	359.59	12,500.0	5,353.0	-155.6	5,354.9	0.00	0.00	0.00
18,000.0	90.00	359.59	12,500.0	5,453.0	-156.3	5,454.9	0.00	0.00	0.00
18,100.0	90.00	359.59	12,500.0	5,552.9	-157.0	5,554.9	0.00	0.00	0.00
18,200.0	90.00	359.59	12,500.0	5,652.9	-157.7	5,654.9	0.00	0.00	0.00
18,300.0	90.00	359.59	12,500.0	5,752.9	-158.4	5,754.9	0.00	0.00	0.00
18,400.0	90.00	359.59	12,500.0	5,852.9	-159.1	5,854.9	0.00	0.00	0.00



Planning Report

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Local Co-ordinate Reference:
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 Survey Calculation Method:

Well #711H
 KB = 25' @ 3508.0usft
 KB = 25' @ 3508.0usft
 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)
18,500.0	90.00	359.59	12,500.0	5,952.9	-159.9	5,954.9	0.00	0.00	0.00
18,600.0	90.00	359.59	12,500.0	6,052.9	-160.6	6,054.9	0.00	0.00	0.00
18,700.0	90.00	359.59	12,500.0	6,152.9	-161.3	6,154.9	0.00	0.00	0.00
18,800.0	90.00	359.59	12,500.0	6,252.9	-162.0	6,254.9	0.00	0.00	0.00
18,900.0	90.00	359.59	12,500.0	6,352.9	-162.7	6,354.9	0.00	0.00	0.00
19,000.0	90.00	359.59	12,500.0	6,452.9	-163.4	6,454.9	0.00	0.00	0.00
19,100.0	90.00	359.59	12,500.0	6,552.9	-164.2	6,554.9	0.00	0.00	0.00
19,200.0	90.00	359.59	12,500.0	6,652.9	-164.9	6,654.8	0.00	0.00	0.00
19,300.0	90.00	359.59	12,500.0	6,752.9	-165.6	6,754.8	0.00	0.00	0.00
19,400.0	90.00	359.59	12,500.0	6,852.9	-166.3	6,854.8	0.00	0.00	0.00
19,500.0	90.00	359.59	12,500.0	6,952.9	-167.0	6,954.8	0.00	0.00	0.00
19,600.0	90.00	359.59	12,500.0	7,052.9	-167.7	7,054.8	0.00	0.00	0.00
19,700.0	90.00	359.59	12,500.0	7,152.9	-168.4	7,154.8	0.00	0.00	0.00
19,800.0	90.00	359.59	12,500.0	7,252.9	-169.2	7,254.8	0.00	0.00	0.00
19,900.0	90.00	359.59	12,500.0	7,352.9	-169.9	7,354.8	0.00	0.00	0.00
20,000.0	90.00	359.59	12,500.0	7,452.9	-170.6	7,454.8	0.00	0.00	0.00
20,100.0	90.00	359.59	12,500.0	7,552.9	-171.3	7,554.8	0.00	0.00	0.00
20,200.0	90.00	359.59	12,500.0	7,652.9	-172.0	7,654.8	0.00	0.00	0.00
20,300.0	90.00	359.59	12,500.0	7,752.9	-172.7	7,754.8	0.00	0.00	0.00
20,400.0	90.00	359.59	12,500.0	7,852.9	-173.5	7,854.8	0.00	0.00	0.00
20,500.0	90.00	359.59	12,500.0	7,952.9	-174.2	7,954.8	0.00	0.00	0.00
20,600.0	90.00	359.59	12,500.0	8,052.9	-174.9	8,054.8	0.00	0.00	0.00
20,700.0	90.00	359.59	12,500.0	8,152.9	-175.6	8,154.7	0.00	0.00	0.00
20,800.0	90.00	359.59	12,500.0	8,252.9	-176.3	8,254.7	0.00	0.00	0.00
20,900.0	90.00	359.59	12,500.0	8,352.9	-177.0	8,354.7	0.00	0.00	0.00
21,000.0	90.00	359.59	12,500.0	8,452.9	-177.7	8,454.7	0.00	0.00	0.00
21,100.0	90.00	359.59	12,500.0	8,552.9	-178.5	8,554.7	0.00	0.00	0.00
21,200.0	90.00	359.59	12,500.0	8,652.9	-179.2	8,654.7	0.00	0.00	0.00
21,300.0	90.00	359.59	12,500.0	8,752.9	-179.9	8,754.7	0.00	0.00	0.00
21,400.0	90.00	359.59	12,500.0	8,852.9	-180.6	8,854.7	0.00	0.00	0.00
21,500.0	90.00	359.59	12,500.0	8,952.9	-181.3	8,954.7	0.00	0.00	0.00
21,600.0	90.00	359.59	12,500.0	9,052.9	-182.0	9,054.7	0.00	0.00	0.00
21,700.0	90.00	359.59	12,500.0	9,152.9	-182.8	9,154.7	0.00	0.00	0.00
21,800.0	90.00	359.59	12,500.0	9,252.9	-183.5	9,254.7	0.00	0.00	0.00
21,900.0	90.00	359.59	12,500.0	9,352.9	-184.2	9,354.7	0.00	0.00	0.00
22,000.0	90.00	359.59	12,500.0	9,452.8	-184.9	9,454.7	0.00	0.00	0.00
22,100.0	90.00	359.59	12,500.0	9,552.8	-185.6	9,554.6	0.00	0.00	0.00
22,200.0	90.00	359.59	12,500.0	9,652.8	-186.3	9,654.6	0.00	0.00	0.00
22,300.0	90.00	359.59	12,500.0	9,752.8	-187.1	9,754.6	0.00	0.00	0.00
22,400.0	90.00	359.59	12,500.0	9,852.8	-187.8	9,854.6	0.00	0.00	0.00
22,500.0	90.00	359.59	12,500.0	9,952.8	-188.5	9,954.6	0.00	0.00	0.00
22,572.2	90.00	359.59	12,500.0	10,025.0	-189.0	10,026.8	0.00	0.00	0.00

PBHL (Hearn 34 State Com #711H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #711H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3508.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3508.0usft
Site:	Hearns 34 State Com	North Reference:	Grid
Well:	#711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Hearns 34 State Co - plan misses target center by 40.7usft at 12586.6usft MD (12462.5 TVD, 44.8 N, -117.1 E) - Point	0.00	0.00	12,500.0	29.0	-119.0	425,629.00	781,855.00	32° 10' 3.880 N	103° 33' 21.717 W
PBHL (Hearns 34 State Co - plan hits target center - Point	0.00	0.00	12,500.0	10,025.0	-189.0	435,625.00	781,785.00	32° 11' 42.797 N	103° 33' 21.691 W