



Lea County, NM (NAD 83 NME)

Hearns 34 State Com #711H

Plan #0.1

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' @ 3508.6mft
Northing 429840.00 Easting 781974.00 Longitude 103° 33' 30.330 W

Azinuths to Grid North
True North: 0.41°
Magnetic North: 6.53°
Magnetic Field
Strength: 47905.7nT
Dip Angle: 60.01°
Date: 6/14/2017
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 6.53°
To convert a Magnetic Direction to a True Direction, Add 0.94° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

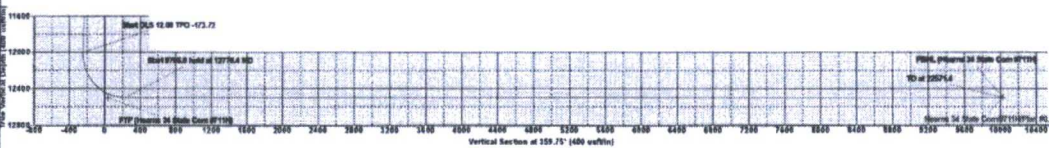
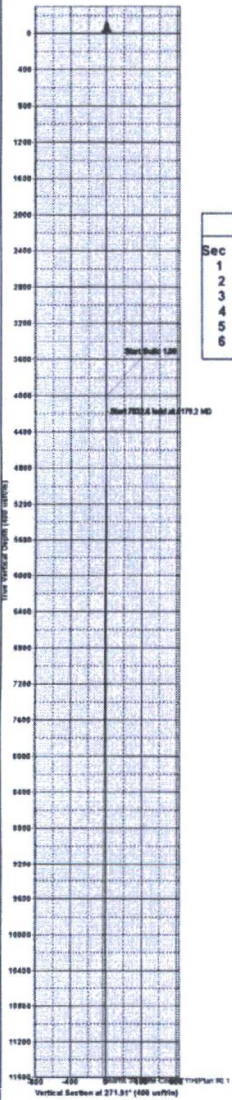
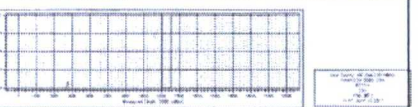
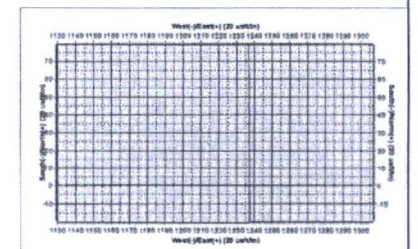
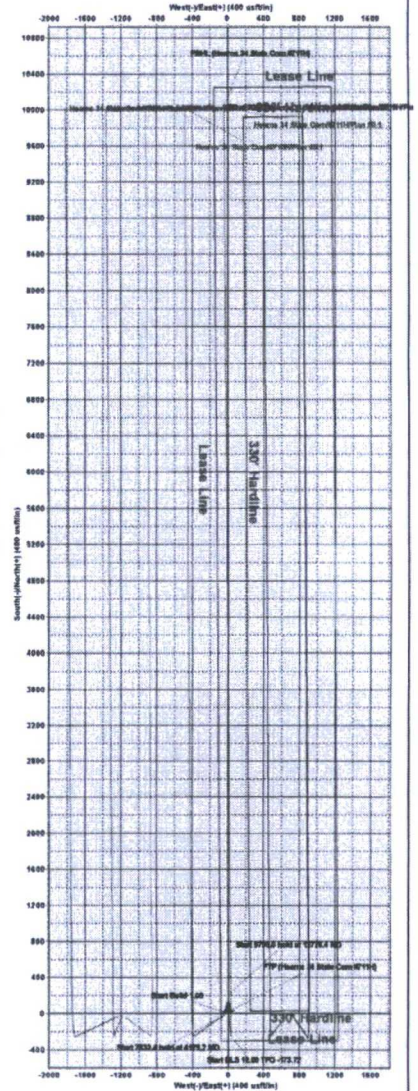
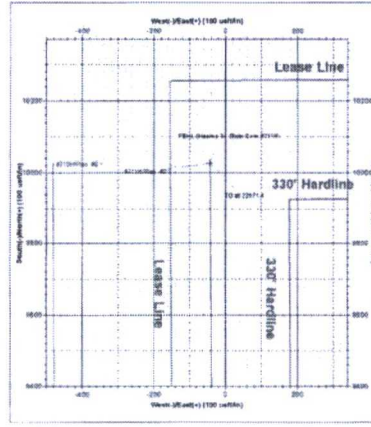
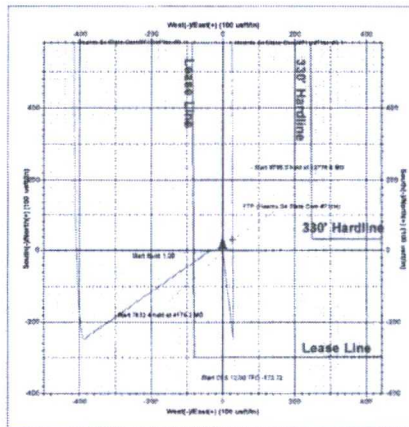
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4179.2	1.79	173.32	4179.1	-2.8	0.3	1.00	173.32	-2.8	
4	12011.6	1.79	173.32	12007.7	-246.0	28.8	0.00	0.00	-246.1	
5	12776.4	90.00	359.59	12500.0	231.3	27.1	12.00	-173.72	231.1	
6	22571.4	90.00	359.59	12500.0	10026.0	-43.0	0.00	0.00	10026.1	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	30.0	27.0	429830.00	782001.00
PBHL (Hearns 34 State Com #711H)	12600.0	10076.0	43.0	429826.00	781931.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#711H

OH

Plan: Plan #0.1

Standard Planning Report

15 June, 2017



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Com
Well: #711H
Wellbore: OH
Design: Plan #0.1

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

Site	Hearn 34 State Com		
Site Position:		Northing:	425,568.00 usft
From:	Map	Easting:	780,745.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 3.355 N
		Longitude:	103° 33' 34.635 W
		Grid Convergence:	0.41 °

Well	#711H		
Well Position	+N/-S	32.0 usft	Northing: 425,600.00 usft
	+E/-W	1,229.0 usft	Easting: 781,974.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,483.0 usft
		Latitude:	32° 10' 3.584 N
		Longitude:	103° 33' 20.335 W
		Ground Level:	

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

Design	Plan #0.1		
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
			(°)
			359.75

Plan Survey Tool Program	Date 6/15/2017		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	22,571.4 Plan #0.1 (OH)	MWD
			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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,179.2	1.79	173.32	4,179.1	-2.8	0.3	1.00	1.00	0.00	173.32	
12,011.6	1.79	173.32	12,007.7	-246.0	28.8	0.00	0.00	0.00	0.00	
12,776.4	90.00	359.59	12,500.0	231.3	27.1	12.00	11.53	-22.71	-173.72	
22,571.4	90.00	359.59	12,500.0	10,026.0	-43.0	0.00	0.00	0.00	0.00	0.00 PBHL (Hearn 34 Sta



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 Project: Lea County, NM (NAD 83 NME)
 Site: Hearn 34 State Com
 Well: #711H
 Wellbore: OH
 Design: Plan #0.1

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	173.32	4,100.0	-0.9	0.1	-0.9	1.00	1.00	0.00
4,179.2	1.79	173.32	4,179.1	-2.8	0.3	-2.8	1.00	1.00	0.00
4,200.0	1.79	173.32	4,200.0	-3.4	0.4	-3.4	0.00	0.00	0.00
4,300.0	1.79	173.32	4,299.9	-6.5	0.8	-6.5	0.00	0.00	0.00
4,400.0	1.79	173.32	4,399.9	-9.6	1.1	-9.6	0.00	0.00	0.00
4,500.0	1.79	173.32	4,499.8	-12.7	1.5	-12.8	0.00	0.00	0.00
4,600.0	1.79	173.32	4,599.8	-15.8	1.9	-15.9	0.00	0.00	0.00
4,700.0	1.79	173.32	4,699.7	-19.0	2.2	-19.0	0.00	0.00	0.00
4,800.0	1.79	173.32	4,799.7	-22.1	2.6	-22.1	0.00	0.00	0.00
4,900.0	1.79	173.32	4,899.6	-25.2	2.9	-25.2	0.00	0.00	0.00
5,000.0	1.79	173.32	4,999.6	-28.3	3.3	-28.3	0.00	0.00	0.00
5,100.0	1.79	173.32	5,099.5	-31.4	3.7	-31.4	0.00	0.00	0.00
5,200.0	1.79	173.32	5,199.5	-34.5	4.0	-34.5	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Site: Hearn 34 State Corn
Well: #711H
Wellbore: OH
Design: Plan #0.1

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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)
5,300.0	1.79	173.32	5,299.4	-37.6	4.4	-37.6	0.00	0.00	0.00
5,400.0	1.79	173.32	5,399.4	-40.7	4.8	-40.7	0.00	0.00	0.00
5,500.0	1.79	173.32	5,499.3	-43.8	5.1	-43.8	0.00	0.00	0.00
5,600.0	1.79	173.32	5,599.3	-46.9	5.5	-46.9	0.00	0.00	0.00
5,700.0	1.79	173.32	5,699.2	-50.0	5.9	-50.0	0.00	0.00	0.00
5,800.0	1.79	173.32	5,799.2	-53.1	6.2	-53.1	0.00	0.00	0.00
5,900.0	1.79	173.32	5,899.1	-56.2	6.6	-56.2	0.00	0.00	0.00
6,000.0	1.79	173.32	5,999.1	-59.3	7.0	-59.3	0.00	0.00	0.00
6,100.0	1.79	173.32	6,099.0	-62.4	7.3	-62.5	0.00	0.00	0.00
6,200.0	1.79	173.32	6,199.0	-65.5	7.7	-65.6	0.00	0.00	0.00
6,300.0	1.79	173.32	6,298.9	-68.6	8.0	-68.7	0.00	0.00	0.00
6,400.0	1.79	173.32	6,398.9	-71.7	8.4	-71.8	0.00	0.00	0.00
6,500.0	1.79	173.32	6,498.8	-74.8	8.8	-74.9	0.00	0.00	0.00
6,600.0	1.79	173.32	6,598.8	-78.0	9.1	-78.0	0.00	0.00	0.00
6,700.0	1.79	173.32	6,698.7	-81.1	9.5	-81.1	0.00	0.00	0.00
6,800.0	1.79	173.32	6,798.7	-84.2	9.9	-84.2	0.00	0.00	0.00
6,900.0	1.79	173.32	6,898.6	-87.3	10.2	-87.3	0.00	0.00	0.00
7,000.0	1.79	173.32	6,998.6	-90.4	10.6	-90.4	0.00	0.00	0.00
7,100.0	1.79	173.32	7,098.5	-93.5	11.0	-93.5	0.00	0.00	0.00
7,200.0	1.79	173.32	7,198.5	-96.6	11.3	-96.6	0.00	0.00	0.00
7,300.0	1.79	173.32	7,298.4	-99.7	11.7	-99.7	0.00	0.00	0.00
7,400.0	1.79	173.32	7,398.4	-102.8	12.0	-102.8	0.00	0.00	0.00
7,500.0	1.79	173.32	7,498.3	-105.9	12.4	-105.9	0.00	0.00	0.00
7,600.0	1.79	173.32	7,598.3	-109.0	12.8	-109.1	0.00	0.00	0.00
7,700.0	1.79	173.32	7,698.2	-112.1	13.1	-112.2	0.00	0.00	0.00
7,800.0	1.79	173.32	7,798.2	-115.2	13.5	-115.3	0.00	0.00	0.00
7,900.0	1.79	173.32	7,898.2	-118.3	13.9	-118.4	0.00	0.00	0.00
8,000.0	1.79	173.32	7,998.1	-121.4	14.2	-121.5	0.00	0.00	0.00
8,100.0	1.79	173.32	8,098.1	-124.5	14.6	-124.6	0.00	0.00	0.00
8,200.0	1.79	173.32	8,198.0	-127.6	15.0	-127.7	0.00	0.00	0.00
8,300.0	1.79	173.32	8,298.0	-130.7	15.3	-130.8	0.00	0.00	0.00
8,400.0	1.79	173.32	8,397.9	-133.8	15.7	-133.9	0.00	0.00	0.00
8,500.0	1.79	173.32	8,497.9	-136.9	16.0	-137.0	0.00	0.00	0.00
8,600.0	1.79	173.32	8,597.8	-140.1	16.4	-140.1	0.00	0.00	0.00
8,700.0	1.79	173.32	8,697.8	-143.2	16.8	-143.2	0.00	0.00	0.00
8,800.0	1.79	173.32	8,797.7	-146.3	17.1	-146.3	0.00	0.00	0.00
8,900.0	1.79	173.32	8,897.7	-149.4	17.5	-149.4	0.00	0.00	0.00
9,000.0	1.79	173.32	8,997.6	-152.5	17.9	-152.5	0.00	0.00	0.00
9,100.0	1.79	173.32	9,097.6	-155.6	18.2	-155.7	0.00	0.00	0.00
9,200.0	1.79	173.32	9,197.5	-158.7	18.6	-158.8	0.00	0.00	0.00
9,300.0	1.79	173.32	9,297.5	-161.8	19.0	-161.9	0.00	0.00	0.00
9,400.0	1.79	173.32	9,397.4	-164.9	19.3	-165.0	0.00	0.00	0.00
9,500.0	1.79	173.32	9,497.4	-168.0	19.7	-168.1	0.00	0.00	0.00
9,600.0	1.79	173.32	9,597.3	-171.1	20.0	-171.2	0.00	0.00	0.00
9,700.0	1.79	173.32	9,697.3	-174.2	20.4	-174.3	0.00	0.00	0.00
9,800.0	1.79	173.32	9,797.2	-177.3	20.8	-177.4	0.00	0.00	0.00
9,900.0	1.79	173.32	9,897.2	-180.4	21.1	-180.5	0.00	0.00	0.00
10,000.0	1.79	173.32	9,997.1	-183.5	21.5	-183.6	0.00	0.00	0.00
10,100.0	1.79	173.32	10,097.1	-186.6	21.9	-186.7	0.00	0.00	0.00
10,200.0	1.79	173.32	10,197.0	-189.7	22.2	-189.8	0.00	0.00	0.00
10,300.0	1.79	173.32	10,297.0	-192.8	22.6	-192.9	0.00	0.00	0.00
10,400.0	1.79	173.32	10,396.9	-195.9	23.0	-196.0	0.00	0.00	0.00
10,500.0	1.79	173.32	10,496.9	-199.0	23.3	-199.1	0.00	0.00	0.00
10,600.0	1.79	173.32	10,596.8	-202.2	23.7	-202.3	0.00	0.00	0.00



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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	1.79	173.32	10,696.8	-205.3	24.1	-205.4	0.00	0.00	0.00
10,800.0	1.79	173.32	10,796.7	-208.4	24.4	-208.5	0.00	0.00	0.00
10,900.0	1.79	173.32	10,896.7	-211.5	24.8	-211.6	0.00	0.00	0.00
11,000.0	1.79	173.32	10,996.6	-214.6	25.1	-214.7	0.00	0.00	0.00
11,100.0	1.79	173.32	11,096.6	-217.7	25.5	-217.8	0.00	0.00	0.00
11,200.0	1.79	173.32	11,196.5	-220.8	25.9	-220.9	0.00	0.00	0.00
11,300.0	1.79	173.32	11,296.5	-223.9	26.2	-224.0	0.00	0.00	0.00
11,400.0	1.79	173.32	11,396.4	-227.0	26.6	-227.1	0.00	0.00	0.00
11,500.0	1.79	173.32	11,496.4	-230.1	27.0	-230.2	0.00	0.00	0.00
11,600.0	1.79	173.32	11,596.3	-233.2	27.3	-233.3	0.00	0.00	0.00
11,700.0	1.79	173.32	11,696.3	-236.3	27.7	-236.4	0.00	0.00	0.00
11,800.0	1.79	173.32	11,796.2	-239.4	28.1	-239.5	0.00	0.00	0.00
11,900.0	1.79	173.32	11,896.2	-242.5	28.4	-242.6	0.00	0.00	0.00
12,000.0	1.79	173.32	11,996.1	-245.6	28.8	-245.7	0.00	0.00	0.00
12,011.6	1.79	173.32	12,007.7	-246.0	28.8	-246.1	0.00	0.00	0.00
12,025.0	0.26	130.18	12,021.1	-246.2	28.9	-246.3	12.00	-11.41	-320.91
12,050.0	2.84	3.54	12,046.1	-245.6	29.0	-245.8	12.00	10.32	-506.55
12,075.0	5.84	1.51	12,071.1	-243.7	29.0	-243.9	12.00	11.99	-8.14
12,100.0	8.83	0.85	12,095.8	-240.6	29.1	-240.7	12.00	12.00	-2.63
12,125.0	11.83	0.52	12,120.4	-236.1	29.1	-236.2	12.00	12.00	-1.30
12,150.0	14.83	0.33	12,144.8	-230.3	29.2	-230.4	12.00	12.00	-0.78
12,175.0	17.83	0.20	12,168.8	-223.3	29.2	-223.4	12.00	12.00	-0.52
12,200.0	20.83	0.10	12,192.3	-215.0	29.2	-215.1	12.00	12.00	-0.38
12,225.0	23.83	0.03	12,215.5	-205.5	29.2	-205.6	12.00	12.00	-0.29
12,250.0	26.83	359.98	12,238.1	-194.8	29.2	-194.9	12.00	12.00	-0.22
12,275.0	29.83	359.93	12,260.1	-182.9	29.2	-183.1	12.00	12.00	-0.18
12,300.0	32.83	359.89	12,281.4	-169.9	29.2	-170.1	12.00	12.00	-0.15
12,325.0	35.83	359.86	12,302.1	-155.8	29.2	-156.0	12.00	12.00	-0.13
12,350.0	38.83	359.83	12,321.9	-140.7	29.1	-140.8	12.00	12.00	-0.11
12,375.0	41.83	359.81	12,341.0	-124.5	29.1	-124.6	12.00	12.00	-0.10
12,400.0	44.83	359.79	12,359.2	-107.3	29.0	-107.5	12.00	12.00	-0.09
12,425.0	47.83	359.77	12,376.4	-89.3	29.0	-89.4	12.00	12.00	-0.08
12,450.0	50.83	359.75	12,392.7	-70.3	28.9	-70.4	12.00	12.00	-0.07
12,475.0	53.83	359.73	12,408.0	-50.5	28.8	-50.6	12.00	12.00	-0.07
12,500.0	56.83	359.72	12,422.2	-30.0	28.7	-30.1	12.00	12.00	-0.06
12,525.0	59.83	359.70	12,435.3	-8.7	28.6	-8.8	12.00	12.00	-0.06
12,550.0	62.83	359.69	12,447.3	13.2	28.5	13.1	12.00	12.00	-0.05
12,575.0	65.83	359.68	12,458.2	35.8	28.3	35.7	12.00	12.00	-0.05
12,585.8	67.13	359.67	12,462.5	45.7	28.3	45.6	12.00	12.00	-0.05
FTP (Hearn 34 State Com #711H)									
12,600.0	68.83	359.67	12,467.8	58.8	28.2	58.7	12.00	12.00	-0.05
12,625.0	71.83	359.65	12,476.2	82.4	28.1	82.3	12.00	12.00	-0.05
12,650.0	74.83	359.64	12,483.4	106.3	27.9	106.2	12.00	12.00	-0.04
12,675.0	77.83	359.63	12,489.3	130.6	27.8	130.5	12.00	12.00	-0.04
12,700.0	80.83	359.62	12,493.9	155.2	27.6	155.1	12.00	12.00	-0.04
12,725.0	83.83	359.61	12,497.2	180.0	27.4	179.8	12.00	12.00	-0.04
12,750.0	86.83	359.60	12,499.3	204.9	27.3	204.7	12.00	12.00	-0.04
12,776.4	90.00	359.59	12,500.0	231.3	27.1	231.1	12.00	12.00	-0.04
12,800.0	90.00	359.59	12,500.0	254.9	26.9	254.7	0.00	0.00	0.00
12,900.0	90.00	359.59	12,500.0	354.8	26.2	354.7	0.00	0.00	0.00
13,000.0	90.00	359.59	12,500.0	454.8	25.5	454.7	0.00	0.00	0.00
13,100.0	90.00	359.59	12,500.0	554.8	24.8	554.7	0.00	0.00	0.00
13,200.0	90.00	359.59	12,500.0	654.8	24.1	654.7	0.00	0.00	0.00



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Well: #711H
Wellbore: OH
Design: Plan #0.1

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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)
13,300.0	90.00	359.59	12,500.0	754.8	23.3	754.7	0.00	0.00	0.00
13,400.0	90.00	359.59	12,500.0	854.8	22.6	854.7	0.00	0.00	0.00
13,500.0	90.00	359.59	12,500.0	954.8	21.9	954.7	0.00	0.00	0.00
13,600.0	90.00	359.59	12,500.0	1,054.8	21.2	1,054.7	0.00	0.00	0.00
13,700.0	90.00	359.59	12,500.0	1,154.8	20.5	1,154.7	0.00	0.00	0.00
13,800.0	90.00	359.59	12,500.0	1,254.8	19.8	1,254.7	0.00	0.00	0.00
13,900.0	90.00	359.59	12,500.0	1,354.8	19.1	1,354.7	0.00	0.00	0.00
14,000.0	90.00	359.59	12,500.0	1,454.8	18.3	1,454.7	0.00	0.00	0.00
14,100.0	90.00	359.59	12,500.0	1,554.8	17.6	1,554.7	0.00	0.00	0.00
14,200.0	90.00	359.59	12,500.0	1,654.8	16.9	1,654.7	0.00	0.00	0.00
14,300.0	90.00	359.59	12,500.0	1,754.8	16.2	1,754.7	0.00	0.00	0.00
14,400.0	90.00	359.59	12,500.0	1,854.8	15.5	1,854.7	0.00	0.00	0.00
14,500.0	90.00	359.59	12,500.0	1,954.8	14.8	1,954.7	0.00	0.00	0.00
14,600.0	90.00	359.59	12,500.0	2,054.8	14.0	2,054.7	0.00	0.00	0.00
14,700.0	90.00	359.59	12,500.0	2,154.8	13.3	2,154.7	0.00	0.00	0.00
14,800.0	90.00	359.59	12,500.0	2,254.8	12.6	2,254.7	0.00	0.00	0.00
14,900.0	90.00	359.59	12,500.0	2,354.8	11.9	2,354.7	0.00	0.00	0.00
15,000.0	90.00	359.59	12,500.0	2,454.8	11.2	2,454.7	0.00	0.00	0.00
15,100.0	90.00	359.59	12,500.0	2,554.8	10.5	2,554.7	0.00	0.00	0.00
15,200.0	90.00	359.59	12,500.0	2,654.8	9.7	2,654.7	0.00	0.00	0.00
15,300.0	90.00	359.59	12,500.0	2,754.8	9.0	2,754.7	0.00	0.00	0.00
15,400.0	90.00	359.59	12,500.0	2,854.8	8.3	2,854.7	0.00	0.00	0.00
15,500.0	90.00	359.59	12,500.0	2,954.8	7.6	2,954.7	0.00	0.00	0.00
15,600.0	90.00	359.59	12,500.0	3,054.8	6.9	3,054.7	0.00	0.00	0.00
15,700.0	90.00	359.59	12,500.0	3,154.8	6.2	3,154.7	0.00	0.00	0.00
15,800.0	90.00	359.59	12,500.0	3,254.8	5.5	3,254.7	0.00	0.00	0.00
15,900.0	90.00	359.59	12,500.0	3,354.8	4.7	3,354.7	0.00	0.00	0.00
16,000.0	90.00	359.59	12,500.0	3,454.8	4.0	3,454.7	0.00	0.00	0.00
16,100.0	90.00	359.59	12,500.0	3,554.8	3.3	3,554.7	0.00	0.00	0.00
16,200.0	90.00	359.59	12,500.0	3,654.8	2.6	3,654.7	0.00	0.00	0.00
16,300.0	90.00	359.59	12,500.0	3,754.8	1.9	3,754.7	0.00	0.00	0.00
16,400.0	90.00	359.59	12,500.0	3,854.8	1.2	3,854.7	0.00	0.00	0.00
16,500.0	90.00	359.59	12,500.0	3,954.8	0.4	3,954.7	0.00	0.00	0.00
16,600.0	90.00	359.59	12,500.0	4,054.8	-0.3	4,054.7	0.00	0.00	0.00
16,700.0	90.00	359.59	12,500.0	4,154.8	-1.0	4,154.7	0.00	0.00	0.00
16,800.0	90.00	359.59	12,500.0	4,254.7	-1.7	4,254.7	0.00	0.00	0.00
16,900.0	90.00	359.59	12,500.0	4,354.7	-2.4	4,354.7	0.00	0.00	0.00
17,000.0	90.00	359.59	12,500.0	4,454.7	-3.1	4,454.7	0.00	0.00	0.00
17,100.0	90.00	359.59	12,500.0	4,554.7	-3.8	4,554.7	0.00	0.00	0.00
17,200.0	90.00	359.59	12,500.0	4,654.7	-4.6	4,654.7	0.00	0.00	0.00
17,300.0	90.00	359.59	12,500.0	4,754.7	-5.3	4,754.7	0.00	0.00	0.00
17,400.0	90.00	359.59	12,500.0	4,854.7	-6.0	4,854.7	0.00	0.00	0.00
17,500.0	90.00	359.59	12,500.0	4,954.7	-6.7	4,954.7	0.00	0.00	0.00
17,600.0	90.00	359.59	12,500.0	5,054.7	-7.4	5,054.7	0.00	0.00	0.00
17,700.0	90.00	359.59	12,500.0	5,154.7	-8.1	5,154.7	0.00	0.00	0.00
17,800.0	90.00	359.59	12,500.0	5,254.7	-8.9	5,254.7	0.00	0.00	0.00
17,900.0	90.00	359.59	12,500.0	5,354.7	-9.6	5,354.7	0.00	0.00	0.00
18,000.0	90.00	359.59	12,500.0	5,454.7	-10.3	5,454.7	0.00	0.00	0.00
18,100.0	90.00	359.59	12,500.0	5,554.7	-11.0	5,554.7	0.00	0.00	0.00
18,200.0	90.00	359.59	12,500.0	5,654.7	-11.7	5,654.7	0.00	0.00	0.00
18,300.0	90.00	359.59	12,500.0	5,754.7	-12.4	5,754.7	0.00	0.00	0.00
18,400.0	90.00	359.59	12,500.0	5,854.7	-13.2	5,854.7	0.00	0.00	0.00
18,500.0	90.00	359.59	12,500.0	5,954.7	-13.9	5,954.7	0.00	0.00	0.00
18,600.0	90.00	359.59	12,500.0	6,054.7	-14.6	6,054.7	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)
18,700.0	90.00	359.59	12,500.0	6,154.7	-15.3	6,154.7	0.00	0.00	0.00
18,800.0	90.00	359.59	12,500.0	6,254.7	-16.0	6,254.7	0.00	0.00	0.00
18,900.0	90.00	359.59	12,500.0	6,354.7	-16.7	6,354.7	0.00	0.00	0.00
19,000.0	90.00	359.59	12,500.0	6,454.7	-17.4	6,454.7	0.00	0.00	0.00
19,100.0	90.00	359.59	12,500.0	6,554.7	-18.2	6,554.7	0.00	0.00	0.00
19,200.0	90.00	359.59	12,500.0	6,654.7	-18.9	6,654.7	0.00	0.00	0.00
19,300.0	90.00	359.59	12,500.0	6,754.7	-19.6	6,754.7	0.00	0.00	0.00
19,400.0	90.00	359.59	12,500.0	6,854.7	-20.3	6,854.7	0.00	0.00	0.00
19,500.0	90.00	359.59	12,500.0	6,954.7	-21.0	6,954.7	0.00	0.00	0.00
19,600.0	90.00	359.59	12,500.0	7,054.7	-21.7	7,054.7	0.00	0.00	0.00
19,700.0	90.00	359.59	12,500.0	7,154.7	-22.5	7,154.7	0.00	0.00	0.00
19,800.0	90.00	359.59	12,500.0	7,254.7	-23.2	7,254.7	0.00	0.00	0.00
19,900.0	90.00	359.59	12,500.0	7,354.7	-23.9	7,354.7	0.00	0.00	0.00
20,000.0	90.00	359.59	12,500.0	7,454.7	-24.6	7,454.7	0.00	0.00	0.00
20,100.0	90.00	359.59	12,500.0	7,554.7	-25.3	7,554.7	0.00	0.00	0.00
20,200.0	90.00	359.59	12,500.0	7,654.7	-26.0	7,654.7	0.00	0.00	0.00
20,300.0	90.00	359.59	12,500.0	7,754.7	-26.7	7,754.7	0.00	0.00	0.00
20,400.0	90.00	359.59	12,500.0	7,854.7	-27.5	7,854.7	0.00	0.00	0.00
20,500.0	90.00	359.59	12,500.0	7,954.7	-28.2	7,954.7	0.00	0.00	0.00
20,600.0	90.00	359.59	12,500.0	8,054.7	-28.9	8,054.7	0.00	0.00	0.00
20,700.0	90.00	359.59	12,500.0	8,154.6	-29.6	8,154.7	0.00	0.00	0.00
20,800.0	90.00	359.59	12,500.0	8,254.6	-30.3	8,254.7	0.00	0.00	0.00
20,900.0	90.00	359.59	12,500.0	8,354.6	-31.0	8,354.7	0.00	0.00	0.00
21,000.0	90.00	359.59	12,500.0	8,454.6	-31.8	8,454.7	0.00	0.00	0.00
21,100.0	90.00	359.59	12,500.0	8,554.6	-32.5	8,554.7	0.00	0.00	0.00
21,200.0	90.00	359.59	12,500.0	8,654.6	-33.2	8,654.7	0.00	0.00	0.00
21,300.0	90.00	359.59	12,500.0	8,754.6	-33.9	8,754.7	0.00	0.00	0.00
21,400.0	90.00	359.59	12,500.0	8,854.6	-34.6	8,854.7	0.00	0.00	0.00
21,500.0	90.00	359.59	12,500.0	8,954.6	-35.3	8,954.7	0.00	0.00	0.00
21,600.0	90.00	359.59	12,500.0	9,054.6	-36.0	9,054.7	0.00	0.00	0.00
21,700.0	90.00	359.59	12,500.0	9,154.6	-36.8	9,154.7	0.00	0.00	0.00
21,800.0	90.00	359.59	12,500.0	9,254.6	-37.5	9,254.7	0.00	0.00	0.00
21,900.0	90.00	359.59	12,500.0	9,354.6	-38.2	9,354.7	0.00	0.00	0.00
22,000.0	90.00	359.59	12,500.0	9,454.6	-38.9	9,454.7	0.00	0.00	0.00
22,100.0	90.00	359.59	12,500.0	9,554.6	-39.6	9,554.7	0.00	0.00	0.00
22,200.0	90.00	359.59	12,500.0	9,654.6	-40.3	9,654.7	0.00	0.00	0.00
22,300.0	90.00	359.59	12,500.0	9,754.6	-41.1	9,754.7	0.00	0.00	0.00
22,400.0	90.00	359.59	12,500.0	9,854.6	-41.8	9,854.7	0.00	0.00	0.00
22,500.0	90.00	359.59	12,500.0	9,954.6	-42.5	9,954.7	0.00	0.00	0.00
22,571.4	90.00	359.59	12,500.0	10,026.0	-43.0	10,026.1	0.00	0.00	0.00

PBHL (Hearn 34 State Com #711H)



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 (Hearn 34 State C - plan misses target center by 40.7usft at 12585.8usft MD (12462.5 TVD, 45.7 N, 28.3 E) - Point	0.00	0.00	12,500.0	30.0	27.0	425,630.00	782,001.00	32° 10' 3.879 N	103° 33' 20.018 W
PBHL (Hearn 34 State - plan hits target center - Point	0.00	0.00	12,500.0	10,026.0	-43.0	435,626.00	781,931.00	32° 11' 42.797 N	103° 33' 19.992 W