



Lea County, NM (NAD 83 NME)

Hearns 34 State Com #707H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GR8 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #707H

KB = 25' @ 3491.00usR 3466.00
Northing 425568.00 Easting 780745.00 Latitude 32.16759863 Longitude -103.50962088

Azimuths to Grid North
True North: 0.41°
Magnetic North: 6.53°
Magnetic Field
Strength: 47905.4usT
Dip Angle: 60.91°
Date: 6/14/2017
Model: IGRF 2015



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

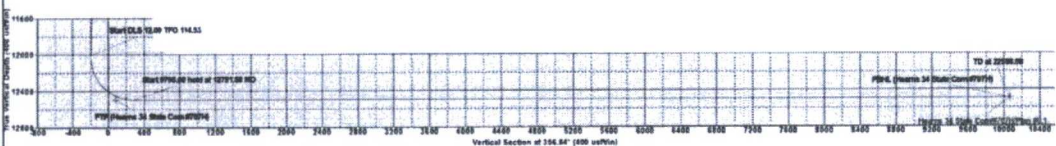
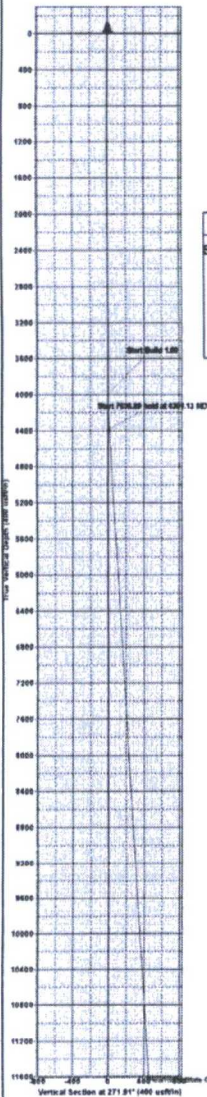
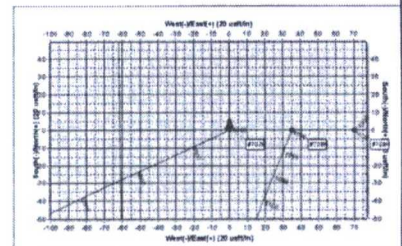
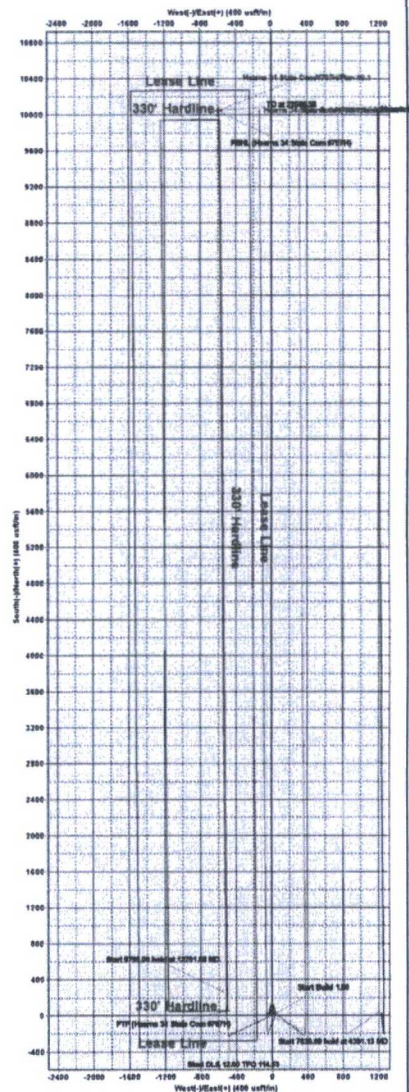
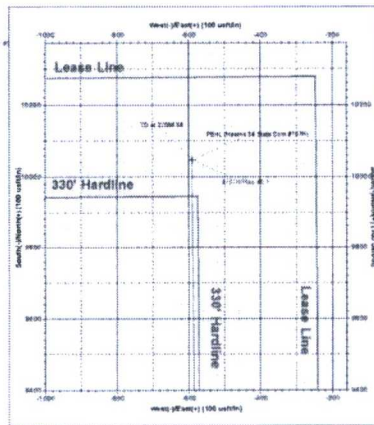
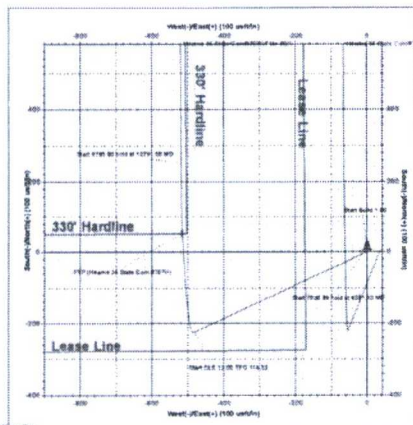
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4391.13	3.91	245.00	4390.83	-5.64	-12.10	1.00	245.00	-4.92	
4	12028.03	3.91	245.00	12009.94	-225.77	-484.23	0.00	0.00	-197.00	
5	12791.58	90.00	359.58	12500.00	251.26	-518.20	12.00	114.53	281.21	
6	22586.56	90.00	359.58	12500.00	10046.00	-590.00	0.00	0.00	10063.31	PBHL (Hearns 34 State Com #707H)

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 #707H)	12800.00	\$2.00	-616.00	435620.00	780729.00
PBHL (Hearns 34 State Com #707H)	12500.00	10946.00	890.00	435614.00	780186.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#707H

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's 34 State Com
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25' @ 3491.0usft
MD Reference: KB = 25' @ 3491.0usft
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	Hearns 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	#707H					
Well Position	+N/-S	0.0 usft	Northing:	425,568.00 usft	Latitude:	32° 10' 3.355 N
	+E/-W	0.0 usft	Easting:	780,745.00 usft	Longitude:	103° 33' 34.635 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,466.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/14/2017	6.94	60.01	47,906.41688900

Design	Plan #0.1			
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	356.64

Plan Survey Tool Program	Date 6/15/2017			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,586.6 Plan #0.1 (OH)	MWD	
			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	
4,391.1	3.91	245.00	4,390.8	-5.6	-12.1	1.00	1.00	0.00	245.00	
12,028.0	3.91	245.00	12,009.9	-225.8	-484.2	0.00	0.00	0.00	0.00	
12,791.6	90.00	359.58	12,500.0	251.3	-518.2	12.00	11.27	15.01	114.53	
22,586.6	90.00	359.58	12,500.0	10,046.0	-590.0	0.00	0.00	0.00	0.00	PBHL (Hearn's 34 Sta



EOG Resources, Inc.

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Well: #707H
Wellbore: OH
Design: Plan #0.1

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MD Reference: KB = 25' @ 3491.0usft
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	245.00	4,100.0	-0.4	-0.8	-0.3	1.00	1.00	0.00
4,200.0	2.00	245.00	4,200.0	-1.5	-3.2	-1.3	1.00	1.00	0.00
4,300.0	3.00	245.00	4,299.9	-3.3	-7.1	-2.9	1.00	1.00	0.00
4,391.1	3.91	245.00	4,390.8	-5.6	-12.1	-4.9	1.00	1.00	0.00
4,400.0	3.91	245.00	4,399.7	-5.9	-12.6	-5.1	0.00	0.00	0.00
4,500.0	3.91	245.00	4,499.4	-8.8	-18.8	-7.7	0.00	0.00	0.00
4,600.0	3.91	245.00	4,599.2	-11.7	-25.0	-10.2	0.00	0.00	0.00
4,700.0	3.91	245.00	4,699.0	-14.5	-31.2	-12.7	0.00	0.00	0.00
4,800.0	3.91	245.00	4,798.7	-17.4	-37.4	-15.2	0.00	0.00	0.00
4,900.0	3.91	245.00	4,898.5	-20.3	-43.6	-17.7	0.00	0.00	0.00
5,000.0	3.91	245.00	4,998.3	-23.2	-49.7	-20.2	0.00	0.00	0.00
5,100.0	3.91	245.00	5,098.0	-26.1	-55.9	-22.7	0.00	0.00	0.00
5,200.0	3.91	245.00	5,197.8	-29.0	-62.1	-25.3	0.00	0.00	0.00



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Planning Report

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Wellbore: OH
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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)
5,300.0	3.91	245.00	5,297.6	-31.8	-68.3	-27.8	0.00	0.00	0.00
5,400.0	3.91	245.00	5,397.3	-34.7	-74.5	-30.3	0.00	0.00	0.00
5,500.0	3.91	245.00	5,497.1	-37.6	-80.6	-32.8	0.00	0.00	0.00
5,600.0	3.91	245.00	5,596.9	-40.5	-86.8	-35.3	0.00	0.00	0.00
5,700.0	3.91	245.00	5,696.6	-43.4	-93.0	-37.8	0.00	0.00	0.00
5,800.0	3.91	245.00	5,796.4	-46.3	-99.2	-40.4	0.00	0.00	0.00
5,900.0	3.91	245.00	5,896.2	-49.1	-105.4	-42.9	0.00	0.00	0.00
6,000.0	3.91	245.00	5,995.9	-52.0	-111.6	-45.4	0.00	0.00	0.00
6,100.0	3.91	245.00	6,095.7	-54.9	-117.7	-47.9	0.00	0.00	0.00
6,200.0	3.91	245.00	6,195.5	-57.8	-123.9	-50.4	0.00	0.00	0.00
6,300.0	3.91	245.00	6,295.3	-60.7	-130.1	-52.9	0.00	0.00	0.00
6,400.0	3.91	245.00	6,395.0	-63.5	-136.3	-55.4	0.00	0.00	0.00
6,500.0	3.91	245.00	6,494.8	-66.4	-142.5	-58.0	0.00	0.00	0.00
6,600.0	3.91	245.00	6,594.6	-69.3	-148.7	-60.5	0.00	0.00	0.00
6,700.0	3.91	245.00	6,694.3	-72.2	-154.8	-63.0	0.00	0.00	0.00
6,800.0	3.91	245.00	6,794.1	-75.1	-161.0	-65.5	0.00	0.00	0.00
6,900.0	3.91	245.00	6,893.9	-78.0	-167.2	-68.0	0.00	0.00	0.00
7,000.0	3.91	245.00	6,993.6	-80.8	-173.4	-70.5	0.00	0.00	0.00
7,100.0	3.91	245.00	7,093.4	-83.7	-179.6	-73.1	0.00	0.00	0.00
7,200.0	3.91	245.00	7,193.2	-86.6	-185.7	-75.6	0.00	0.00	0.00
7,300.0	3.91	245.00	7,292.9	-89.5	-191.9	-78.1	0.00	0.00	0.00
7,400.0	3.91	245.00	7,392.7	-92.4	-198.1	-80.6	0.00	0.00	0.00
7,500.0	3.91	245.00	7,492.5	-95.3	-204.3	-83.1	0.00	0.00	0.00
7,600.0	3.91	245.00	7,592.2	-98.1	-210.5	-85.6	0.00	0.00	0.00
7,700.0	3.91	245.00	7,692.0	-101.0	-216.7	-88.1	0.00	0.00	0.00
7,800.0	3.91	245.00	7,791.8	-103.9	-222.8	-90.7	0.00	0.00	0.00
7,900.0	3.91	245.00	7,891.5	-106.8	-229.0	-93.2	0.00	0.00	0.00
8,000.0	3.91	245.00	7,991.3	-109.7	-235.2	-95.7	0.00	0.00	0.00
8,100.0	3.91	245.00	8,091.1	-112.5	-241.4	-98.2	0.00	0.00	0.00
8,200.0	3.91	245.00	8,190.8	-115.4	-247.6	-100.7	0.00	0.00	0.00
8,300.0	3.91	245.00	8,290.6	-118.3	-253.8	-103.2	0.00	0.00	0.00
8,400.0	3.91	245.00	8,390.4	-121.2	-259.9	-105.7	0.00	0.00	0.00
8,500.0	3.91	245.00	8,490.1	-124.1	-266.1	-108.3	0.00	0.00	0.00
8,600.0	3.91	245.00	8,589.9	-127.0	-272.3	-110.8	0.00	0.00	0.00
8,700.0	3.91	245.00	8,689.7	-129.8	-278.5	-113.3	0.00	0.00	0.00
8,800.0	3.91	245.00	8,789.4	-132.7	-284.7	-115.8	0.00	0.00	0.00
8,900.0	3.91	245.00	8,889.2	-135.6	-290.8	-118.3	0.00	0.00	0.00
9,000.0	3.91	245.00	8,989.0	-138.5	-297.0	-120.8	0.00	0.00	0.00
9,100.0	3.91	245.00	9,088.7	-141.4	-303.2	-123.4	0.00	0.00	0.00
9,200.0	3.91	245.00	9,188.5	-144.3	-309.4	-125.9	0.00	0.00	0.00
9,300.0	3.91	245.00	9,288.3	-147.1	-315.6	-128.4	0.00	0.00	0.00
9,400.0	3.91	245.00	9,388.0	-150.0	-321.8	-130.9	0.00	0.00	0.00
9,500.0	3.91	245.00	9,487.8	-152.9	-327.9	-133.4	0.00	0.00	0.00
9,600.0	3.91	245.00	9,587.6	-155.8	-334.1	-135.9	0.00	0.00	0.00
9,700.0	3.91	245.00	9,687.3	-158.7	-340.3	-138.4	0.00	0.00	0.00
9,800.0	3.91	245.00	9,787.1	-161.6	-346.5	-141.0	0.00	0.00	0.00
9,900.0	3.91	245.00	9,886.9	-164.4	-352.7	-143.5	0.00	0.00	0.00
10,000.0	3.91	245.00	9,986.6	-167.3	-358.9	-146.0	0.00	0.00	0.00
10,100.0	3.91	245.00	10,086.4	-170.2	-365.0	-148.5	0.00	0.00	0.00
10,200.0	3.91	245.00	10,186.2	-173.1	-371.2	-151.0	0.00	0.00	0.00
10,300.0	3.91	245.00	10,285.9	-176.0	-377.4	-153.5	0.00	0.00	0.00
10,400.0	3.91	245.00	10,385.7	-178.8	-383.6	-156.0	0.00	0.00	0.00
10,500.0	3.91	245.00	10,485.5	-181.7	-389.8	-158.6	0.00	0.00	0.00
10,600.0	3.91	245.00	10,585.2	-184.6	-395.9	-161.1	0.00	0.00	0.00



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10,700.0	3.91	245.00	10,685.0	-187.5	-402.1	-163.6	0.00	0.00	0.00
10,800.0	3.91	245.00	10,784.8	-190.4	-408.3	-166.1	0.00	0.00	0.00
10,900.0	3.91	245.00	10,884.5	-193.3	-414.5	-168.6	0.00	0.00	0.00
11,000.0	3.91	245.00	10,984.3	-196.1	-420.7	-171.1	0.00	0.00	0.00
11,100.0	3.91	245.00	11,084.1	-199.0	-426.9	-173.7	0.00	0.00	0.00
11,200.0	3.91	245.00	11,183.8	-201.9	-433.0	-176.2	0.00	0.00	0.00
11,300.0	3.91	245.00	11,283.6	-204.8	-439.2	-178.7	0.00	0.00	0.00
11,400.0	3.91	245.00	11,383.4	-207.7	-445.4	-181.2	0.00	0.00	0.00
11,500.0	3.91	245.00	11,483.1	-210.6	-451.6	-183.7	0.00	0.00	0.00
11,600.0	3.91	245.00	11,582.9	-213.4	-457.8	-186.2	0.00	0.00	0.00
11,700.0	3.91	245.00	11,682.7	-216.3	-464.0	-188.7	0.00	0.00	0.00
11,800.0	3.91	245.00	11,782.4	-219.2	-470.1	-191.3	0.00	0.00	0.00
11,900.0	3.91	245.00	11,882.2	-222.1	-476.3	-193.8	0.00	0.00	0.00
12,000.0	3.91	245.00	11,982.0	-225.0	-482.5	-196.3	0.00	0.00	0.00
12,028.0	3.91	245.00	12,009.9	-225.8	-484.2	-197.0	0.00	0.00	0.00
12,050.0	3.70	285.45	12,031.9	-225.9	-485.6	-197.0	12.00	-0.97	184.10
12,075.0	5.36	318.07	12,056.8	-224.8	-487.2	-195.9	12.00	6.64	130.47
12,100.0	7.86	332.80	12,081.6	-222.4	-488.7	-193.4	12.00	9.99	58.93
12,125.0	10.62	340.21	12,106.3	-218.7	-490.3	-189.6	12.00	11.04	29.63
12,150.0	13.48	344.55	12,130.7	-213.8	-491.8	-184.6	12.00	11.45	17.34
12,175.0	16.39	347.38	12,154.9	-207.5	-493.4	-178.2	12.00	11.64	11.32
12,200.0	19.33	349.37	12,178.7	-200.0	-494.9	-170.6	12.00	11.75	7.97
12,225.0	22.28	350.85	12,202.1	-191.3	-496.4	-161.8	12.00	11.81	5.93
12,250.0	25.25	352.00	12,224.9	-181.3	-497.9	-151.8	12.00	11.86	4.60
12,275.0	28.22	352.93	12,247.3	-170.1	-499.4	-140.6	12.00	11.88	3.69
12,300.0	31.19	353.69	12,269.0	-157.8	-500.8	-128.2	12.00	11.91	3.04
12,325.0	34.17	354.33	12,290.0	-144.4	-502.2	-114.7	12.00	11.92	2.56
12,350.0	37.16	354.87	12,310.3	-129.9	-503.6	-100.2	12.00	11.93	2.19
12,375.0	40.14	355.35	12,329.8	-114.3	-504.9	-84.5	12.00	11.94	1.91
12,400.0	43.13	355.77	12,348.5	-97.8	-506.2	-67.9	12.00	11.95	1.69
12,425.0	46.12	356.15	12,366.3	-80.3	-507.5	-50.4	12.00	11.95	1.51
12,450.0	49.11	356.49	12,383.2	-61.9	-508.6	-31.9	12.00	11.96	1.37
12,475.0	52.10	356.81	12,399.0	-42.6	-509.8	-12.6	12.00	11.96	1.25
12,500.0	55.09	357.09	12,413.9	-22.5	-510.8	7.5	12.00	11.96	1.15
12,525.0	58.08	357.36	12,427.6	-1.6	-511.8	28.4	12.00	11.97	1.07
12,550.0	61.07	357.61	12,440.3	19.9	-512.8	49.9	12.00	11.97	1.00
12,575.0	64.06	357.85	12,451.8	42.1	-513.7	72.1	12.00	11.97	0.95
12,600.0	67.06	358.07	12,462.2	64.8	-514.5	94.9	12.00	11.97	0.90
12,602.0	67.29	358.09	12,462.9	66.6	-514.5	96.7	12.00	11.97	0.88
FTP (Hearn's 34 State Corn #707H)									
12,625.0	70.05	358.29	12,471.3	88.1	-515.2	118.1	12.00	11.97	0.86
12,650.0	73.04	358.49	12,479.2	111.8	-515.9	141.8	12.00	11.97	0.83
12,675.0	76.04	358.69	12,485.9	135.9	-516.5	165.9	12.00	11.98	0.80
12,700.0	79.03	358.89	12,491.3	160.3	-517.0	190.3	12.00	11.98	0.78
12,725.0	82.03	359.08	12,495.4	184.9	-517.4	214.9	12.00	11.98	0.77
12,750.0	85.02	359.27	12,498.2	209.7	-517.8	239.7	12.00	11.98	0.75
12,775.0	88.01	359.46	12,499.7	234.7	-518.1	264.7	12.00	11.98	0.75
12,791.6	90.00	359.58	12,500.0	251.3	-518.2	281.2	12.00	11.98	0.74
12,800.0	90.00	359.58	12,500.0	259.7	-518.3	289.6	0.00	0.00	0.00
12,900.0	90.00	359.58	12,500.0	359.7	-519.0	389.5	0.00	0.00	0.00
13,000.0	90.00	359.58	12,500.0	459.7	-519.7	489.4	0.00	0.00	0.00
13,100.0	90.00	359.58	12,500.0	559.7	-520.5	589.2	0.00	0.00	0.00
13,200.0	90.00	359.58	12,500.0	659.7	-521.2	689.1	0.00	0.00	0.00



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Site: Hearn 34 State Com
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
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MD Reference: KB = 25' @ 3491.0usft
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)
13,300.0	90.00	359.58	12,500.0	759.7	-521.9	789.0	0.00	0.00	0.00
13,400.0	90.00	359.58	12,500.0	859.7	-522.7	888.8	0.00	0.00	0.00
13,500.0	90.00	359.58	12,500.0	959.7	-523.4	988.7	0.00	0.00	0.00
13,600.0	90.00	359.58	12,500.0	1,059.7	-524.1	1,088.6	0.00	0.00	0.00
13,700.0	90.00	359.58	12,500.0	1,159.7	-524.9	1,188.4	0.00	0.00	0.00
13,800.0	90.00	359.58	12,500.0	1,259.7	-525.6	1,288.3	0.00	0.00	0.00
13,900.0	90.00	359.58	12,500.0	1,359.7	-526.3	1,388.2	0.00	0.00	0.00
14,000.0	90.00	359.58	12,500.0	1,459.7	-527.1	1,488.0	0.00	0.00	0.00
14,100.0	90.00	359.58	12,500.0	1,559.7	-527.8	1,587.9	0.00	0.00	0.00
14,200.0	90.00	359.58	12,500.0	1,659.7	-528.5	1,687.8	0.00	0.00	0.00
14,300.0	90.00	359.58	12,500.0	1,759.6	-529.3	1,787.7	0.00	0.00	0.00
14,400.0	90.00	359.58	12,500.0	1,859.6	-530.0	1,887.5	0.00	0.00	0.00
14,500.0	90.00	359.58	12,500.0	1,959.6	-530.7	1,987.4	0.00	0.00	0.00
14,600.0	90.00	359.58	12,500.0	2,059.6	-531.5	2,087.3	0.00	0.00	0.00
14,700.0	90.00	359.58	12,500.0	2,159.6	-532.2	2,187.1	0.00	0.00	0.00
14,800.0	90.00	359.58	12,500.0	2,259.6	-532.9	2,287.0	0.00	0.00	0.00
14,900.0	90.00	359.58	12,500.0	2,359.6	-533.7	2,386.9	0.00	0.00	0.00
15,000.0	90.00	359.58	12,500.0	2,459.6	-534.4	2,486.7	0.00	0.00	0.00
15,100.0	90.00	359.58	12,500.0	2,559.6	-535.1	2,586.6	0.00	0.00	0.00
15,200.0	90.00	359.58	12,500.0	2,659.6	-535.9	2,686.5	0.00	0.00	0.00
15,300.0	90.00	359.58	12,500.0	2,759.6	-536.6	2,786.3	0.00	0.00	0.00
15,400.0	90.00	359.58	12,500.0	2,859.6	-537.3	2,886.2	0.00	0.00	0.00
15,500.0	90.00	359.58	12,500.0	2,959.6	-538.1	2,986.1	0.00	0.00	0.00
15,600.0	90.00	359.58	12,500.0	3,059.6	-538.8	3,085.9	0.00	0.00	0.00
15,700.0	90.00	359.58	12,500.0	3,159.6	-539.5	3,185.8	0.00	0.00	0.00
15,800.0	90.00	359.58	12,500.0	3,259.6	-540.3	3,285.7	0.00	0.00	0.00
15,900.0	90.00	359.58	12,500.0	3,359.6	-541.0	3,385.5	0.00	0.00	0.00
16,000.0	90.00	359.58	12,500.0	3,459.6	-541.7	3,485.4	0.00	0.00	0.00
16,100.0	90.00	359.58	12,500.0	3,559.6	-542.5	3,585.3	0.00	0.00	0.00
16,200.0	90.00	359.58	12,500.0	3,659.6	-543.2	3,685.1	0.00	0.00	0.00
16,300.0	90.00	359.58	12,500.0	3,759.6	-543.9	3,785.0	0.00	0.00	0.00
16,400.0	90.00	359.58	12,500.0	3,859.6	-544.7	3,884.9	0.00	0.00	0.00
16,500.0	90.00	359.58	12,500.0	3,959.6	-545.4	3,984.8	0.00	0.00	0.00
16,600.0	90.00	359.58	12,500.0	4,059.6	-546.1	4,084.6	0.00	0.00	0.00
16,700.0	90.00	359.58	12,500.0	4,159.6	-546.8	4,184.5	0.00	0.00	0.00
16,800.0	90.00	359.58	12,500.0	4,259.6	-547.6	4,284.4	0.00	0.00	0.00
16,900.0	90.00	359.58	12,500.0	4,359.6	-548.3	4,384.2	0.00	0.00	0.00
17,000.0	90.00	359.58	12,500.0	4,459.6	-549.0	4,484.1	0.00	0.00	0.00
17,100.0	90.00	359.58	12,500.0	4,559.6	-549.8	4,584.0	0.00	0.00	0.00
17,200.0	90.00	359.58	12,500.0	4,659.6	-550.5	4,683.8	0.00	0.00	0.00
17,300.0	90.00	359.58	12,500.0	4,759.6	-551.2	4,783.7	0.00	0.00	0.00
17,400.0	90.00	359.58	12,500.0	4,859.6	-552.0	4,883.6	0.00	0.00	0.00
17,500.0	90.00	359.58	12,500.0	4,959.6	-552.7	4,983.4	0.00	0.00	0.00
17,600.0	90.00	359.58	12,500.0	5,059.6	-553.4	5,083.3	0.00	0.00	0.00
17,700.0	90.00	359.58	12,500.0	5,159.6	-554.2	5,183.2	0.00	0.00	0.00
17,800.0	90.00	359.58	12,500.0	5,259.6	-554.9	5,283.0	0.00	0.00	0.00
17,900.0	90.00	359.58	12,500.0	5,359.6	-555.6	5,382.9	0.00	0.00	0.00
18,000.0	90.00	359.58	12,500.0	5,459.5	-556.4	5,482.8	0.00	0.00	0.00
18,100.0	90.00	359.58	12,500.0	5,559.5	-557.1	5,582.6	0.00	0.00	0.00
18,200.0	90.00	359.58	12,500.0	5,659.5	-557.8	5,682.5	0.00	0.00	0.00
18,300.0	90.00	359.58	12,500.0	5,759.5	-558.6	5,782.4	0.00	0.00	0.00
18,400.0	90.00	359.58	12,500.0	5,859.5	-559.3	5,882.2	0.00	0.00	0.00
18,500.0	90.00	359.58	12,500.0	5,959.5	-560.0	5,982.1	0.00	0.00	0.00
18,600.0	90.00	359.58	12,500.0	6,059.5	-560.8	6,082.0	0.00	0.00	0.00



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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)
18,700.0	90.00	359.58	12,500.0	6,159.5	-561.5	6,181.9	0.00	0.00	0.00
18,800.0	90.00	359.58	12,500.0	6,259.5	-562.2	6,281.7	0.00	0.00	0.00
18,900.0	90.00	359.58	12,500.0	6,359.5	-563.0	6,381.6	0.00	0.00	0.00
19,000.0	90.00	359.58	12,500.0	6,459.5	-563.7	6,481.5	0.00	0.00	0.00
19,100.0	90.00	359.58	12,500.0	6,559.5	-564.4	6,581.3	0.00	0.00	0.00
19,200.0	90.00	359.58	12,500.0	6,659.5	-565.2	6,681.2	0.00	0.00	0.00
19,300.0	90.00	359.58	12,500.0	6,759.5	-565.9	6,781.1	0.00	0.00	0.00
19,400.0	90.00	359.58	12,500.0	6,859.5	-566.6	6,880.9	0.00	0.00	0.00
19,500.0	90.00	359.58	12,500.0	6,959.5	-567.4	6,980.8	0.00	0.00	0.00
19,600.0	90.00	359.58	12,500.0	7,059.5	-568.1	7,080.7	0.00	0.00	0.00
19,700.0	90.00	359.58	12,500.0	7,159.5	-568.8	7,180.5	0.00	0.00	0.00
19,800.0	90.00	359.58	12,500.0	7,259.5	-569.6	7,280.4	0.00	0.00	0.00
19,900.0	90.00	359.58	12,500.0	7,359.5	-570.3	7,380.3	0.00	0.00	0.00
20,000.0	90.00	359.58	12,500.0	7,459.5	-571.0	7,480.1	0.00	0.00	0.00
20,100.0	90.00	359.58	12,500.0	7,559.5	-571.8	7,580.0	0.00	0.00	0.00
20,200.0	90.00	359.58	12,500.0	7,659.5	-572.5	7,679.9	0.00	0.00	0.00
20,300.0	90.00	359.58	12,500.0	7,759.5	-573.2	7,779.7	0.00	0.00	0.00
20,400.0	90.00	359.58	12,500.0	7,859.5	-574.0	7,879.6	0.00	0.00	0.00
20,500.0	90.00	359.58	12,500.0	7,959.5	-574.7	7,979.5	0.00	0.00	0.00
20,600.0	90.00	359.58	12,500.0	8,059.5	-575.4	8,079.4	0.00	0.00	0.00
20,700.0	90.00	359.58	12,500.0	8,159.5	-576.2	8,179.2	0.00	0.00	0.00
20,800.0	90.00	359.58	12,500.0	8,259.5	-576.9	8,279.1	0.00	0.00	0.00
20,900.0	90.00	359.58	12,500.0	8,359.5	-577.6	8,379.0	0.00	0.00	0.00
21,000.0	90.00	359.58	12,500.0	8,459.5	-578.4	8,478.8	0.00	0.00	0.00
21,100.0	90.00	359.58	12,500.0	8,559.5	-579.1	8,578.7	0.00	0.00	0.00
21,200.0	90.00	359.58	12,500.0	8,659.5	-579.8	8,678.6	0.00	0.00	0.00
21,300.0	90.00	359.58	12,500.0	8,759.5	-580.6	8,778.4	0.00	0.00	0.00
21,400.0	90.00	359.58	12,500.0	8,859.5	-581.3	8,878.3	0.00	0.00	0.00
21,500.0	90.00	359.58	12,500.0	8,959.5	-582.0	8,978.2	0.00	0.00	0.00
21,600.0	90.00	359.58	12,500.0	9,059.5	-582.8	9,078.0	0.00	0.00	0.00
21,700.0	90.00	359.58	12,500.0	9,159.4	-583.5	9,177.9	0.00	0.00	0.00
21,800.0	90.00	359.58	12,500.0	9,259.4	-584.2	9,277.8	0.00	0.00	0.00
21,900.0	90.00	359.58	12,500.0	9,359.4	-585.0	9,377.6	0.00	0.00	0.00
22,000.0	90.00	359.58	12,500.0	9,459.4	-585.7	9,477.5	0.00	0.00	0.00
22,100.0	90.00	359.58	12,500.0	9,559.4	-586.4	9,577.4	0.00	0.00	0.00
22,200.0	90.00	359.58	12,500.0	9,659.4	-587.2	9,677.2	0.00	0.00	0.00
22,300.0	90.00	359.58	12,500.0	9,759.4	-587.9	9,777.1	0.00	0.00	0.00
22,400.0	90.00	359.58	12,500.0	9,859.4	-588.6	9,877.0	0.00	0.00	0.00
22,500.0	90.00	359.58	12,500.0	9,959.4	-589.4	9,976.8	0.00	0.00	0.00
22,586.6	90.00	359.58	12,500.0	10,046.0	-590.0	10,063.3	0.00	0.00	0.00

PBHL (Hearn's 34 State Com #707H)



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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's 34 State C - plan misses target center by 39.9usft at 12602.0usft MD (12462.9 TVD, 66.6 N, -514.5 E) - Point	0.00	0.00	12,500.0	52.0	-516.0	425,620.00	780,229.00	32° 10' 3.906 N	103° 33' 40.634 W
PBHL (Hearn's 34 State - plan hits target center - Point	0.00	0.00	12,500.0	10,046.0	-590.0	435,614.00	780,155.00	32° 11' 42.804 N	103° 33' 40.660 W