



Lea County, NM (NAD 83 NME)

Hearns 34 State Com #708H

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: #708H

KB = 25' @ 3482.00surf 3487.00
Northing 429565.00 Easting 780780.00 Latitude 32.16759784 Longitude -103.55950778

SECTION DETAILS

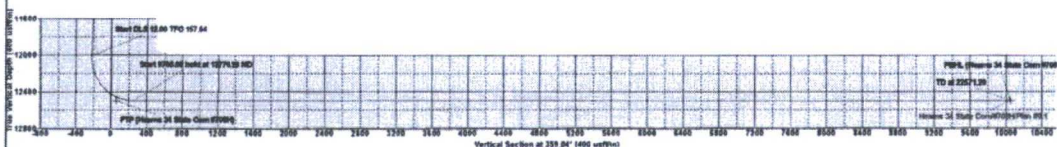
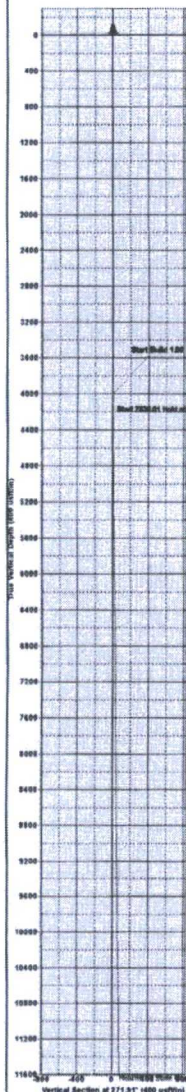
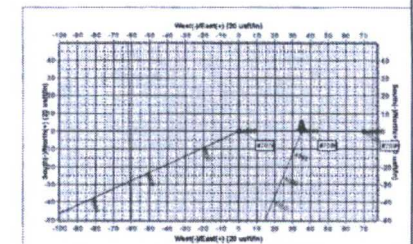
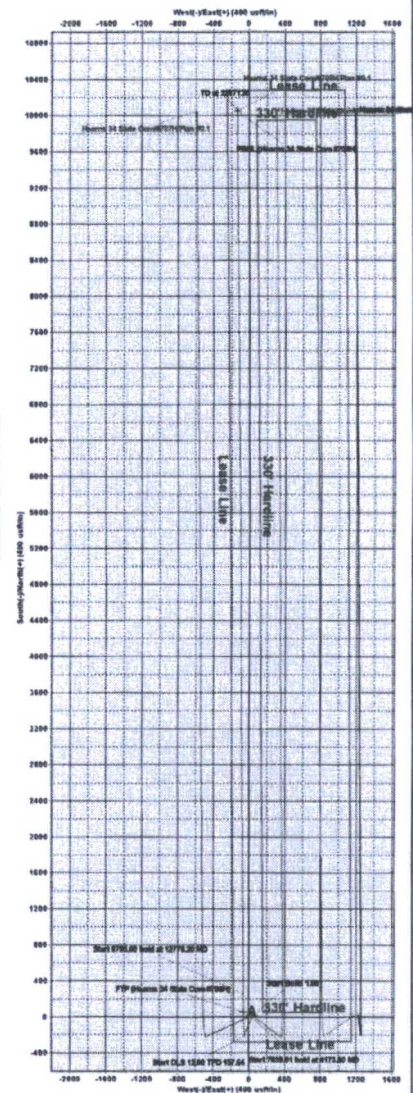
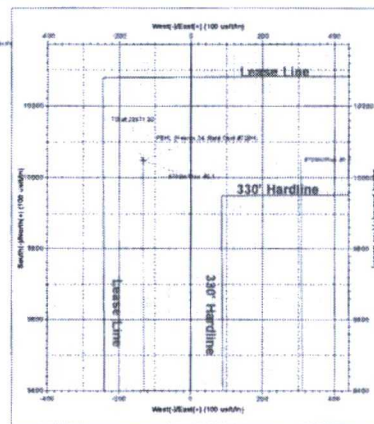
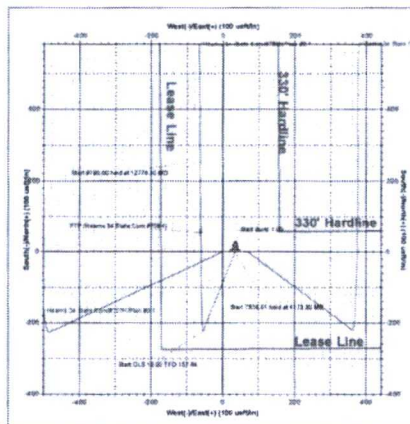
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	35.00	0.00	0.00	0.00	
3	4173.80	1.74	201.94	4173.77	-2.44	34.02	1.00	201.94	-2.43	
4	12012.81	1.74	201.94	12009.17	-222.97	-54.83	0.00	0.00	-221.43	
5	12776.20	90.00	359.59	12500.00	254.25	-63.91	12.00	157.64	255.88	
6	22571.20	90.00	359.59	12500.00	10049.00	-134.00	0.00	0.00	10050.42	PBHL (Hearns 34 State Com #708H)

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 #708H)	12500.00	54.00	-81.00	429522.00	780682.00
PBHL (Hearns 34 State Com #708H)	12500.00	10049.00	-134.00	439817.00	780611.00



Vertical Section at 271.91' (4000 surface)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#708H

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: #708H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25' @ 3492.0usft
MD Reference: KB = 25' @ 3492.0usft
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	#708H		
Well Position	+N/-S	0.0 usft	Northing: 425,568.00 usft
	+E/-W	35.0 usft	Easting: 780,780.00 usft
Position Uncertainty	0.0 usft		Latitude: 32° 10' 3.353 N
		Wellhead Elevation:	Longitude: 103° 33' 34.228 W
			Ground Level: 3,467.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	6/14/2017	(°)	(°)	(nT)
			6.94	60.01	47,906.42108114

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	359.04

Plan Survey Tool Program	Date	6/15/2017		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	22,571.2 Plan #0.1 (OH)	MWD	
			MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
4,173.8	1.74	201.94	4,173.8	-2.4	-1.0	1.00	1.00	0.00	201.94	
12,012.8	1.74	201.94	12,009.2	-223.0	-89.8	0.00	0.00	0.00	0.00	
12,776.2	90.00	359.59	12,500.0	254.3	-98.9	12.00	11.56	20.65	157.64	
22,571.2	90.00	359.59	12,500.0	10,049.0	-169.0	0.00	0.00	0.00	0.00	PBHL (Hearn 34 Sta



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 Well: #708H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
 TVD Reference: KB = 25' @ 3492.0usft
 MD Reference: KB = 25' @ 3492.0usft
 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	201.94	4,100.0	-0.8	-0.3	-0.8	1.00	1.00	0.00
4,173.8	1.74	201.94	4,173.8	-2.4	-1.0	-2.4	1.00	1.00	0.00
4,200.0	1.74	201.94	4,200.0	-3.2	-1.3	-3.2	0.00	0.00	0.00
4,300.0	1.74	201.94	4,299.9	-6.0	-2.4	-6.0	0.00	0.00	0.00
4,400.0	1.74	201.94	4,399.9	-8.8	-3.5	-8.7	0.00	0.00	0.00
4,500.0	1.74	201.94	4,499.8	-11.6	-4.7	-11.5	0.00	0.00	0.00
4,600.0	1.74	201.94	4,599.8	-14.4	-5.8	-14.3	0.00	0.00	0.00
4,700.0	1.74	201.94	4,699.7	-17.2	-6.9	-17.1	0.00	0.00	0.00
4,800.0	1.74	201.94	4,799.7	-20.1	-8.1	-19.9	0.00	0.00	0.00
4,900.0	1.74	201.94	4,899.6	-22.9	-9.2	-22.7	0.00	0.00	0.00
5,000.0	1.74	201.94	4,999.6	-25.7	-10.3	-25.5	0.00	0.00	0.00
5,100.0	1.74	201.94	5,099.5	-28.5	-11.5	-28.3	0.00	0.00	0.00
5,200.0	1.74	201.94	5,199.5	-31.3	-12.6	-31.1	0.00	0.00	0.00



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Planning Report

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Site: Hearn 34 State Corn
Well: #708H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
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MD Reference: KB = 25' @ 3492.0usft
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	1.74	201.94	5,299.5	-34.1	-13.7	-33.9	0.00	0.00	0.00
5,400.0	1.74	201.94	5,399.4	-36.9	-14.9	-36.7	0.00	0.00	0.00
5,500.0	1.74	201.94	5,499.4	-39.8	-16.0	-39.5	0.00	0.00	0.00
5,600.0	1.74	201.94	5,599.3	-42.6	-17.1	-42.3	0.00	0.00	0.00
5,700.0	1.74	201.94	5,699.3	-45.4	-18.3	-45.1	0.00	0.00	0.00
5,800.0	1.74	201.94	5,799.2	-48.2	-19.4	-47.9	0.00	0.00	0.00
5,900.0	1.74	201.94	5,899.2	-51.0	-20.5	-50.7	0.00	0.00	0.00
6,000.0	1.74	201.94	5,999.1	-53.8	-21.7	-53.4	0.00	0.00	0.00
6,100.0	1.74	201.94	6,099.1	-56.6	-22.8	-56.2	0.00	0.00	0.00
6,200.0	1.74	201.94	6,199.0	-59.4	-23.9	-59.0	0.00	0.00	0.00
6,300.0	1.74	201.94	6,299.0	-62.3	-25.1	-61.8	0.00	0.00	0.00
6,400.0	1.74	201.94	6,398.9	-65.1	-26.2	-64.6	0.00	0.00	0.00
6,500.0	1.74	201.94	6,498.9	-67.9	-27.3	-67.4	0.00	0.00	0.00
6,600.0	1.74	201.94	6,598.9	-70.7	-28.5	-70.2	0.00	0.00	0.00
6,700.0	1.74	201.94	6,698.8	-73.5	-29.6	-73.0	0.00	0.00	0.00
6,800.0	1.74	201.94	6,798.8	-76.3	-30.7	-75.8	0.00	0.00	0.00
6,900.0	1.74	201.94	6,898.7	-79.1	-31.9	-78.6	0.00	0.00	0.00
7,000.0	1.74	201.94	6,998.7	-82.0	-33.0	-81.4	0.00	0.00	0.00
7,100.0	1.74	201.94	7,098.6	-84.8	-34.1	-84.2	0.00	0.00	0.00
7,200.0	1.74	201.94	7,198.6	-87.6	-35.3	-87.0	0.00	0.00	0.00
7,300.0	1.74	201.94	7,298.5	-90.4	-36.4	-89.8	0.00	0.00	0.00
7,400.0	1.74	201.94	7,398.5	-93.2	-37.5	-92.6	0.00	0.00	0.00
7,500.0	1.74	201.94	7,498.4	-96.0	-38.7	-95.4	0.00	0.00	0.00
7,600.0	1.74	201.94	7,598.4	-98.8	-39.8	-98.1	0.00	0.00	0.00
7,700.0	1.74	201.94	7,698.4	-101.6	-40.9	-100.9	0.00	0.00	0.00
7,800.0	1.74	201.94	7,798.3	-104.5	-42.1	-103.7	0.00	0.00	0.00
7,900.0	1.74	201.94	7,898.3	-107.3	-43.2	-106.5	0.00	0.00	0.00
8,000.0	1.74	201.94	7,998.2	-110.1	-44.3	-109.3	0.00	0.00	0.00
8,100.0	1.74	201.94	8,098.2	-112.9	-45.5	-112.1	0.00	0.00	0.00
8,200.0	1.74	201.94	8,198.1	-115.7	-46.6	-114.9	0.00	0.00	0.00
8,300.0	1.74	201.94	8,298.1	-118.5	-47.7	-117.7	0.00	0.00	0.00
8,400.0	1.74	201.94	8,398.0	-121.3	-48.9	-120.5	0.00	0.00	0.00
8,500.0	1.74	201.94	8,498.0	-124.2	-50.0	-123.3	0.00	0.00	0.00
8,600.0	1.74	201.94	8,597.9	-127.0	-51.2	-126.1	0.00	0.00	0.00
8,700.0	1.74	201.94	8,697.9	-129.8	-52.3	-128.9	0.00	0.00	0.00
8,800.0	1.74	201.94	8,797.8	-132.6	-53.4	-131.7	0.00	0.00	0.00
8,900.0	1.74	201.94	8,897.8	-135.4	-54.6	-134.5	0.00	0.00	0.00
9,000.0	1.74	201.94	8,997.8	-138.2	-55.7	-137.3	0.00	0.00	0.00
9,100.0	1.74	201.94	9,097.7	-141.0	-56.8	-140.1	0.00	0.00	0.00
9,200.0	1.74	201.94	9,197.7	-143.8	-58.0	-142.8	0.00	0.00	0.00
9,300.0	1.74	201.94	9,297.6	-146.7	-59.1	-145.6	0.00	0.00	0.00
9,400.0	1.74	201.94	9,397.6	-149.5	-60.2	-148.4	0.00	0.00	0.00
9,500.0	1.74	201.94	9,497.5	-152.3	-61.4	-151.2	0.00	0.00	0.00
9,600.0	1.74	201.94	9,597.5	-155.1	-62.5	-154.0	0.00	0.00	0.00
9,700.0	1.74	201.94	9,697.4	-157.9	-63.6	-156.8	0.00	0.00	0.00
9,800.0	1.74	201.94	9,797.4	-160.7	-64.8	-159.6	0.00	0.00	0.00
9,900.0	1.74	201.94	9,897.3	-163.5	-65.9	-162.4	0.00	0.00	0.00
10,000.0	1.74	201.94	9,997.3	-166.3	-67.0	-165.2	0.00	0.00	0.00
10,100.0	1.74	201.94	10,097.2	-169.2	-68.2	-168.0	0.00	0.00	0.00
10,200.0	1.74	201.94	10,197.2	-172.0	-69.3	-170.8	0.00	0.00	0.00
10,300.0	1.74	201.94	10,297.2	-174.8	-70.4	-173.6	0.00	0.00	0.00
10,400.0	1.74	201.94	10,397.1	-177.6	-71.6	-176.4	0.00	0.00	0.00
10,500.0	1.74	201.94	10,497.1	-180.4	-72.7	-179.2	0.00	0.00	0.00
10,600.0	1.74	201.94	10,597.0	-183.2	-73.8	-182.0	0.00	0.00	0.00



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10,700.0	1.74	201.94	10,697.0	-186.0	-75.0	-184.8	0.00	0.00	0.00
10,800.0	1.74	201.94	10,796.9	-188.9	-76.1	-187.5	0.00	0.00	0.00
10,900.0	1.74	201.94	10,896.9	-191.7	-77.2	-190.3	0.00	0.00	0.00
11,000.0	1.74	201.94	10,996.8	-194.5	-78.4	-193.1	0.00	0.00	0.00
11,100.0	1.74	201.94	11,096.8	-197.3	-79.5	-195.9	0.00	0.00	0.00
11,200.0	1.74	201.94	11,196.7	-200.1	-80.6	-198.7	0.00	0.00	0.00
11,300.0	1.74	201.94	11,296.7	-202.9	-81.8	-201.5	0.00	0.00	0.00
11,400.0	1.74	201.94	11,396.6	-205.7	-82.9	-204.3	0.00	0.00	0.00
11,500.0	1.74	201.94	11,496.6	-208.5	-84.0	-207.1	0.00	0.00	0.00
11,600.0	1.74	201.94	11,596.6	-211.4	-85.2	-209.9	0.00	0.00	0.00
11,700.0	1.74	201.94	11,696.5	-214.2	-86.3	-212.7	0.00	0.00	0.00
11,800.0	1.74	201.94	11,796.5	-217.0	-87.4	-215.5	0.00	0.00	0.00
11,900.0	1.74	201.94	11,896.4	-219.8	-88.6	-218.3	0.00	0.00	0.00
12,000.0	1.74	201.94	11,996.4	-222.6	-89.7	-221.1	0.00	0.00	0.00
12,012.8	1.74	201.94	12,009.2	-223.0	-89.8	-221.4	0.00	0.00	0.00
12,025.0	0.68	257.28	12,021.4	-223.2	-90.0	-221.6	12.00	-8.70	453.85
12,050.0	2.93	346.56	12,046.4	-222.6	-90.3	-221.0	12.00	9.02	357.15
12,075.0	5.89	353.17	12,071.3	-220.7	-90.6	-219.1	12.00	11.85	26.42
12,100.0	8.88	355.35	12,096.1	-217.5	-90.9	-215.9	12.00	11.95	8.74
12,125.0	11.87	356.44	12,120.7	-213.0	-91.2	-211.4	12.00	11.97	4.36
12,150.0	14.87	357.10	12,145.0	-207.2	-91.5	-205.6	12.00	11.98	2.62
12,175.0	17.87	357.54	12,169.0	-200.2	-91.8	-198.6	12.00	11.99	1.76
12,200.0	20.87	357.86	12,192.5	-191.9	-92.2	-190.3	12.00	11.99	1.27
12,225.0	23.86	358.10	12,215.7	-182.4	-92.5	-180.8	12.00	11.99	0.96
12,250.0	26.86	358.28	12,238.2	-171.7	-92.8	-170.1	12.00	12.00	0.76
12,275.0	29.86	358.44	12,260.2	-159.8	-93.2	-158.2	12.00	12.00	0.62
12,300.0	32.86	358.57	12,281.6	-146.8	-93.5	-145.2	12.00	12.00	0.51
12,325.0	35.86	358.68	12,302.2	-132.7	-93.9	-131.1	12.00	12.00	0.44
12,350.0	38.86	358.77	12,322.1	-117.5	-94.2	-115.9	12.00	12.00	0.38
12,375.0	41.86	358.85	12,341.1	-101.4	-94.5	-99.8	12.00	12.00	0.33
12,400.0	44.86	358.93	12,359.3	-84.2	-94.9	-82.6	12.00	12.00	0.29
12,425.0	47.86	358.99	12,376.6	-66.1	-95.2	-64.5	12.00	12.00	0.26
12,450.0	50.86	359.05	12,392.8	-47.1	-95.5	-45.5	12.00	12.00	0.24
12,475.0	53.86	359.11	12,408.1	-27.4	-95.8	-25.7	12.00	12.00	0.22
12,500.0	56.86	359.16	12,422.3	-6.8	-96.1	-5.2	12.00	12.00	0.20
12,525.0	59.86	359.21	12,435.4	14.5	-96.4	16.1	12.00	12.00	0.19
12,550.0	62.86	359.25	12,447.4	36.4	-96.7	38.0	12.00	12.00	0.18
12,575.0	65.86	359.29	12,458.2	59.0	-97.0	60.6	12.00	12.00	0.17
12,586.5	67.24	359.31	12,462.8	69.5	-97.2	71.1	12.00	12.00	0.16
FTP (Hearn 34 State Corn #708H)									
12,600.0	68.86	359.33	12,467.9	82.0	-97.3	83.7	12.00	12.00	0.16
12,625.0	71.86	359.37	12,476.3	105.6	-97.6	107.2	12.00	12.00	0.16
12,650.0	74.86	359.41	12,483.4	129.5	-97.8	131.1	12.00	12.00	0.15
12,675.0	77.86	359.45	12,489.3	153.8	-98.1	155.4	12.00	12.00	0.15
12,700.0	80.86	359.48	12,493.9	178.4	-98.3	180.0	12.00	12.00	0.14
12,725.0	83.86	359.52	12,497.3	203.1	-98.5	204.8	12.00	12.00	0.14
12,750.0	86.86	359.55	12,499.3	228.1	-98.7	229.7	12.00	12.00	0.14
12,776.2	90.00	359.59	12,500.0	254.3	-98.9	255.9	12.00	12.00	0.14
12,800.0	90.00	359.59	12,500.0	278.0	-99.1	279.7	0.00	0.00	0.00
12,900.0	90.00	359.59	12,500.0	378.0	-99.8	379.7	0.00	0.00	0.00
13,000.0	90.00	359.59	12,500.0	478.0	-100.5	479.7	0.00	0.00	0.00
13,100.0	90.00	359.59	12,500.0	578.0	-101.2	579.7	0.00	0.00	0.00
13,200.0	90.00	359.59	12,500.0	678.0	-101.9	679.7	0.00	0.00	0.00



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Well: #708H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25' @ 3492.0usft
MD Reference: KB = 25' @ 3492.0usft
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	359.59	12,500.0	778.0	-102.7	779.7	0.00	0.00	0.00
13,400.0	90.00	359.59	12,500.0	878.0	-103.4	879.6	0.00	0.00	0.00
13,500.0	90.00	359.59	12,500.0	978.0	-104.1	979.6	0.00	0.00	0.00
13,600.0	90.00	359.59	12,500.0	1,078.0	-104.8	1,079.6	0.00	0.00	0.00
13,700.0	90.00	359.59	12,500.0	1,178.0	-105.5	1,179.6	0.00	0.00	0.00
13,800.0	90.00	359.59	12,500.0	1,278.0	-106.2	1,279.6	0.00	0.00	0.00
13,900.0	90.00	359.59	12,500.0	1,378.0	-107.0	1,379.6	0.00	0.00	0.00
14,000.0	90.00	359.59	12,500.0	1,478.0	-107.7	1,479.6	0.00	0.00	0.00
14,100.0	90.00	359.59	12,500.0	1,578.0	-108.4	1,579.6	0.00	0.00	0.00
14,200.0	90.00	359.59	12,500.0	1,678.0	-109.1	1,679.6	0.00	0.00	0.00
14,300.0	90.00	359.59	12,500.0	1,778.0	-109.8	1,779.6	0.00	0.00	0.00
14,400.0	90.00	359.59	12,500.0	1,878.0	-110.5	1,879.6	0.00	0.00	0.00
14,500.0	90.00	359.59	12,500.0	1,978.0	-111.2	1,979.6	0.00	0.00	0.00
14,600.0	90.00	359.59	12,500.0	2,078.0	-112.0	2,079.6	0.00	0.00	0.00
14,700.0	90.00	359.59	12,500.0	2,178.0	-112.7	2,179.6	0.00	0.00	0.00
14,800.0	90.00	359.59	12,500.0	2,278.0	-113.4	2,279.6	0.00	0.00	0.00
14,900.0	90.00	359.59	12,500.0	2,378.0	-114.1	2,379.6	0.00	0.00	0.00
15,000.0	90.00	359.59	12,500.0	2,478.0	-114.8	2,479.6	0.00	0.00	0.00
15,100.0	90.00	359.59	12,500.0	2,578.0	-115.5	2,579.6	0.00	0.00	0.00
15,200.0	90.00	359.59	12,500.0	2,678.0	-116.3	2,679.6	0.00	0.00	0.00
15,300.0	90.00	359.59	12,500.0	2,778.0	-117.0	2,779.6	0.00	0.00	0.00
15,400.0	90.00	359.59	12,500.0	2,878.0	-117.7	2,879.6	0.00	0.00	0.00
15,500.0	90.00	359.59	12,500.0	2,978.0	-118.4	2,979.5	0.00	0.00	0.00
15,600.0	90.00	359.59	12,500.0	3,078.0	-119.1	3,079.5	0.00	0.00	0.00
15,700.0	90.00	359.59	12,500.0	3,178.0	-119.8	3,179.5	0.00	0.00	0.00
15,800.0	90.00	359.59	12,500.0	3,278.0	-120.5	3,279.5	0.00	0.00	0.00
15,900.0	90.00	359.59	12,500.0	3,378.0	-121.3	3,379.5	0.00	0.00	0.00
16,000.0	90.00	359.59	12,500.0	3,478.0	-122.0	3,479.5	0.00	0.00	0.00
16,100.0	90.00	359.59	12,500.0	3,578.0	-122.7	3,579.5	0.00	0.00	0.00
16,200.0	90.00	359.59	12,500.0	3,678.0	-123.4	3,679.5	0.00	0.00	0.00
16,300.0	90.00	359.59	12,500.0	3,778.0	-124.1	3,779.5	0.00	0.00	0.00
16,400.0	90.00	359.59	12,500.0	3,878.0	-124.8	3,879.5	0.00	0.00	0.00
16,500.0	90.00	359.59	12,500.0	3,978.0	-125.6	3,979.5	0.00	0.00	0.00
16,600.0	90.00	359.59	12,500.0	4,078.0	-126.3	4,079.5	0.00	0.00	0.00
16,700.0	90.00	359.59	12,500.0	4,177.9	-127.0	4,179.5	0.00	0.00	0.00
16,800.0	90.00	359.59	12,500.0	4,277.9	-127.7	4,279.5	0.00	0.00	0.00
16,900.0	90.00	359.59	12,500.0	4,377.9	-128.4	4,379.5	0.00	0.00	0.00
17,000.0	90.00	359.59	12,500.0	4,477.9	-129.1	4,479.5	0.00	0.00	0.00
17,100.0	90.00	359.59	12,500.0	4,577.9	-129.8	4,579.5	0.00	0.00	0.00
17,200.0	90.00	359.59	12,500.0	4,677.9	-130.6	4,679.5	0.00	0.00	0.00
17,300.0	90.00	359.59	12,500.0	4,777.9	-131.3	4,779.5	0.00	0.00	0.00
17,400.0	90.00	359.59	12,500.0	4,877.9	-132.0	4,879.5	0.00	0.00	0.00
17,500.0	90.00	359.59	12,500.0	4,977.9	-132.7	4,979.5	0.00	0.00	0.00
17,600.0	90.00	359.59	12,500.0	5,077.9	-133.4	5,079.5	0.00	0.00	0.00
17,700.0	90.00	359.59	12,500.0	5,177.9	-134.1	5,179.4	0.00	0.00	0.00
17,800.0	90.00	359.59	12,500.0	5,277.9	-134.9	5,279.4	0.00	0.00	0.00
17,900.0	90.00	359.59	12,500.0	5,377.9	-135.6	5,379.4	0.00	0.00	0.00
18,000.0	90.00	359.59	12,500.0	5,477.9	-136.3	5,479.4	0.00	0.00	0.00
18,100.0	90.00	359.59	12,500.0	5,577.9	-137.0	5,579.4	0.00	0.00	0.00
18,200.0	90.00	359.59	12,500.0	5,677.9	-137.7	5,679.4	0.00	0.00	0.00
18,300.0	90.00	359.59	12,500.0	5,777.9	-138.4	5,779.4	0.00	0.00	0.00
18,400.0	90.00	359.59	12,500.0	5,877.9	-139.2	5,879.4	0.00	0.00	0.00
18,500.0	90.00	359.59	12,500.0	5,977.9	-139.9	5,979.4	0.00	0.00	0.00
18,600.0	90.00	359.59	12,500.0	6,077.9	-140.6	6,079.4	0.00	0.00	0.00



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Design: Plan #0.1

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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)
18,700.0	90.00	359.59	12,500.0	6,177.9	-141.3	6,179.4	0.00	0.00	0.00
18,800.0	90.00	359.59	12,500.0	6,277.9	-142.0	6,279.4	0.00	0.00	0.00
18,900.0	90.00	359.59	12,500.0	6,377.9	-142.7	6,379.4	0.00	0.00	0.00
19,000.0	90.00	359.59	12,500.0	6,477.9	-143.4	6,479.4	0.00	0.00	0.00
19,100.0	90.00	359.59	12,500.0	6,577.9	-144.2	6,579.4	0.00	0.00	0.00
19,200.0	90.00	359.59	12,500.0	6,677.9	-144.9	6,679.4	0.00	0.00	0.00
19,300.0	90.00	359.59	12,500.0	6,777.9	-145.6	6,779.4	0.00	0.00	0.00
19,400.0	90.00	359.59	12,500.0	6,877.9	-146.3	6,879.4	0.00	0.00	0.00
19,500.0	90.00	359.59	12,500.0	6,977.9	-147.0	6,979.4	0.00	0.00	0.00
19,600.0	90.00	359.59	12,500.0	7,077.9	-147.7	7,079.4	0.00	0.00	0.00
19,700.0	90.00	359.59	12,500.0	7,177.9	-148.5	7,179.4	0.00	0.00	0.00
19,800.0	90.00	359.59	12,500.0	7,277.9	-149.2	7,279.3	0.00	0.00	0.00
19,900.0	90.00	359.59	12,500.0	7,377.9	-149.9	7,379.3	0.00	0.00	0.00
20,000.0	90.00	359.59	12,500.0	7,477.9	-150.6	7,479.3	0.00	0.00	0.00
20,100.0	90.00	359.59	12,500.0	7,577.9	-151.3	7,579.3	0.00	0.00	0.00
20,200.0	90.00	359.59	12,500.0	7,677.9	-152.0	7,679.3	0.00	0.00	0.00
20,300.0	90.00	359.59	12,500.0	7,777.9	-152.7	7,779.3	0.00	0.00	0.00
20,400.0	90.00	359.59	12,500.0	7,877.9	-153.5	7,879.3	0.00	0.00	0.00
20,500.0	90.00	359.59	12,500.0	7,977.9	-154.2	7,979.3	0.00	0.00	0.00
20,600.0	90.00	359.59	12,500.0	8,077.8	-154.9	8,079.3	0.00	0.00	0.00
20,700.0	90.00	359.59	12,500.0	8,177.8	-155.6	8,179.3	0.00	0.00	0.00
20,800.0	90.00	359.59	12,500.0	8,277.8	-156.3	8,279.3	0.00	0.00	0.00
20,900.0	90.00	359.59	12,500.0	8,377.8	-157.0	8,379.3	0.00	0.00	0.00
21,000.0	90.00	359.59	12,500.0	8,477.8	-157.8	8,479.3	0.00	0.00	0.00
21,100.0	90.00	359.59	12,500.0	8,577.8	-158.5	8,579.3	0.00	0.00	0.00
21,200.0	90.00	359.59	12,500.0	8,677.8	-159.2	8,679.3	0.00	0.00	0.00
21,300.0	90.00	359.59	12,500.0	8,777.8	-159.9	8,779.3	0.00	0.00	0.00
21,400.0	90.00	359.59	12,500.0	8,877.8	-160.6	8,879.3	0.00	0.00	0.00
21,500.0	90.00	359.59	12,500.0	8,977.8	-161.3	8,979.3	0.00	0.00	0.00
21,600.0	90.00	359.59	12,500.0	9,077.8	-162.1	9,079.3	0.00	0.00	0.00
21,700.0	90.00	359.59	12,500.0	9,177.8	-162.8	9,179.3	0.00	0.00	0.00
21,800.0	90.00	359.59	12,500.0	9,277.8	-163.5	9,279.3	0.00	0.00	0.00
21,900.0	90.00	359.59	12,500.0	9,377.8	-164.2	9,379.2	0.00	0.00	0.00
22,000.0	90.00	359.59	12,500.0	9,477.8	-164.9	9,479.2	0.00	0.00	0.00
22,100.0	90.00	359.59	12,500.0	9,577.8	-165.6	9,579.2	0.00	0.00	0.00
22,200.0	90.00	359.59	12,500.0	9,677.8	-166.3	9,679.2	0.00	0.00	0.00
22,300.0	90.00	359.59	12,500.0	9,777.8	-167.1	9,779.2	0.00	0.00	0.00
22,400.0	90.00	359.59	12,500.0	9,877.8	-167.8	9,879.2	0.00	0.00	0.00
22,500.0	90.00	359.59	12,500.0	9,977.8	-168.5	9,979.2	0.00	0.00	0.00
22,571.2	90.00	359.59	12,500.0	10,049.0	-169.0	10,050.4	0.00	0.00	0.00

PBHL (Hearn 34 State Com #708H)



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Design: Plan #0.1

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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
PBHL (Hearn 34 State - plan hits target center - Point	0.00	0.00	12,500.0	10,049.0	-169.0	435,617.00	780,611.00	32° 11' 42.802 N	103° 33' 35.353 W
FTP (Hearn 34 State C - plan misses target center by 40.3usft at 12586.5usft MD (12462.8 TVD, 69.5 N, -97.2 E) - Point	0.00	0.00	12,500.0	54.0	-98.0	425,622.00	780,682.00	32° 10' 3.894 N	103° 33' 35.364 W