



Lea County, NM (NAD 83 NME)

Hearns 34 State Com #712H

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: #712H

KB = 25' @ 3509.8usft 3484.6
Northing 425603.00 Easting 782644.00 Latitude 32° 10' 3.566 N Longitude 103° 33' 12.540 W

SECTION DETAILS

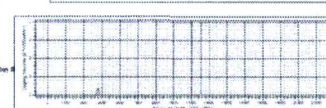
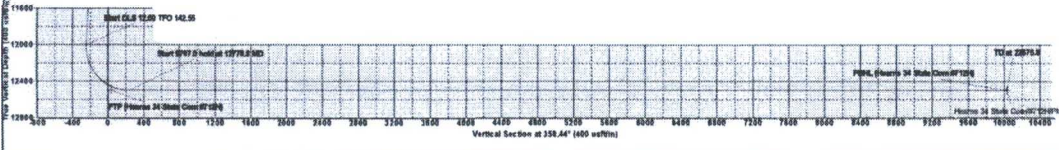
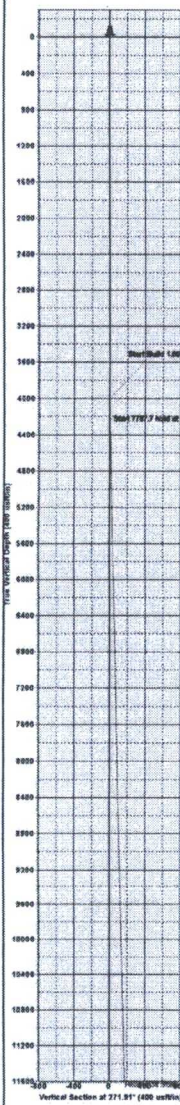
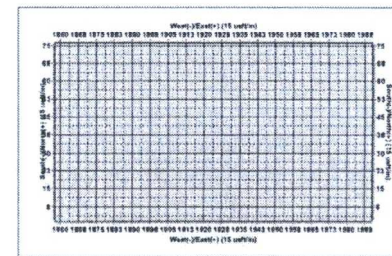
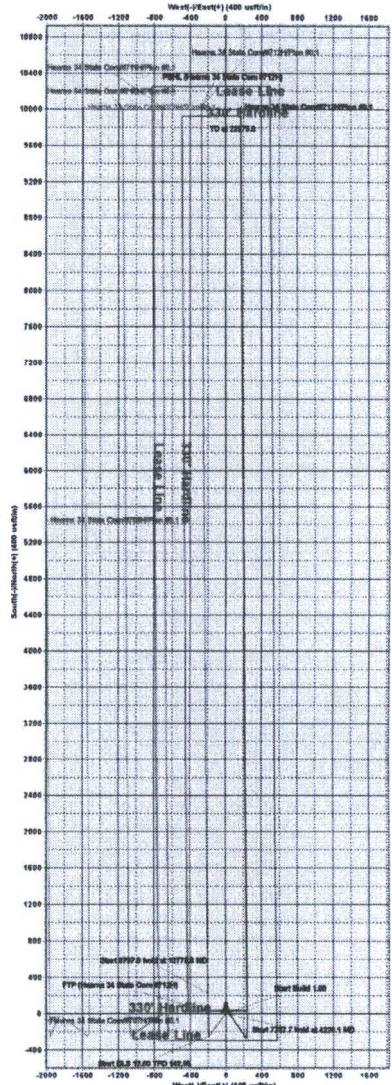
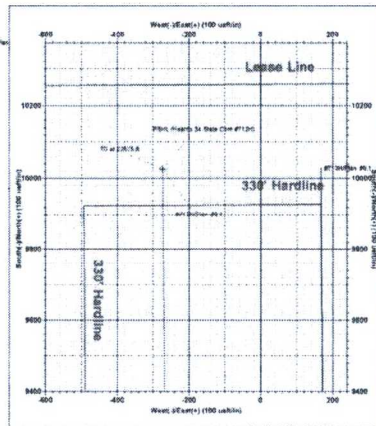
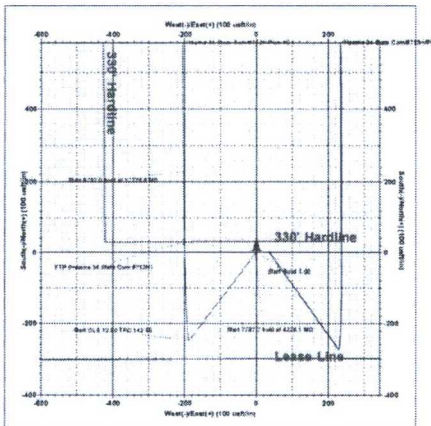
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4226.1	2.26	217.02	4226.0	-3.6	-2.7	1.00	217.02	-3.5	
4	12013.8	2.26	217.02	12007.7	-248.9	-187.7	0.00	0.00	-243.7	
5	12778.8	90.00	359.59	12500.0	228.3	-202.9	12.00	142.55	233.7	
6	22575.8	90.00	359.59	12500.0	10025.0	-273.0	0.00	0.00	10028.7	PBHL (Hearns 34 State Com #712H)

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 #712H)	12000.0	28.9	-203.0	425632.00	782441.00
PBHL (Hearns 34 State Com #712H)	12500.0	10025.0	-273.0	435628.00	782371.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#712H

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: #712H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #712H
TVD Reference: KB = 25' @ 3509.0usft
MD Reference: KB = 25' @ 3509.0usft
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	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	#712H				
Well Position	+N/-S	35.0 usft	Northing:	425,603.00 usft	Latitude: 32° 10' 3.566 N
	+E/-W	1,899.0 usft	Easting:	782,644.00 usft	Longitude: 103° 33' 12.540 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	Ground Level: 3,484.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/14/2017	6.94	60.01	47,906.96740340

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	358.44	

Plan Survey Tool Program	Date 6/15/2017				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,575.8 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	
4,226.1	2.26	217.02	4,226.0	-3.6	-2.7	1.00	1.00	0.00	217.02	
12,013.8	2.26	217.02	12,007.7	-248.9	-187.7	0.00	0.00	0.00	0.00	
12,778.8	90.00	359.59	12,500.0	228.3	-202.9	12.00	11.47	18.64	142.55	
22,575.8	90.00	359.59	12,500.0	10,025.0	-273.0	0.00	0.00	0.00	0.00	PBHL (Hearn 34 Sta



EOG Resources, Inc.

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Well: #712H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #712H
TVD Reference: KB = 25' @ 3509.0usft
MD Reference: KB = 25' @ 3509.0usft
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	217.02	4,100.0	-0.7	-0.5	-0.7	1.00	1.00	0.00
4,200.0	2.00	217.02	4,200.0	-2.8	-2.1	-2.7	1.00	1.00	0.00
4,226.1	2.26	217.02	4,226.0	-3.6	-2.7	-3.5	1.00	1.00	0.00
4,300.0	2.26	217.02	4,299.9	-5.9	-4.4	-5.8	0.00	0.00	0.00
4,400.0	2.26	217.02	4,399.8	-9.0	-6.8	-8.9	0.00	0.00	0.00
4,500.0	2.26	217.02	4,499.7	-12.2	-9.2	-11.9	0.00	0.00	0.00
4,600.0	2.26	217.02	4,599.7	-15.3	-11.6	-15.0	0.00	0.00	0.00
4,700.0	2.26	217.02	4,699.6	-18.5	-13.9	-18.1	0.00	0.00	0.00
4,800.0	2.26	217.02	4,799.5	-21.6	-16.3	-21.2	0.00	0.00	0.00
4,900.0	2.26	217.02	4,899.4	-24.8	-18.7	-24.3	0.00	0.00	0.00
5,000.0	2.26	217.02	4,999.3	-27.9	-21.1	-27.4	0.00	0.00	0.00
5,100.0	2.26	217.02	5,099.3	-31.1	-23.4	-30.4	0.00	0.00	0.00
5,200.0	2.26	217.02	5,199.2	-34.2	-25.8	-33.5	0.00	0.00	0.00



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Planning Report

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

Local Co-ordinate Reference: Well #712H
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MD Reference: KB = 25' @ 3509.0usft
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	2.26	217.02	5,299.1	-37.4	-28.2	-36.6	0.00	0.00	0.00
5,400.0	2.26	217.02	5,399.0	-40.5	-30.6	-39.7	0.00	0.00	0.00
5,500.0	2.26	217.02	5,498.9	-43.7	-32.9	-42.8	0.00	0.00	0.00
5,600.0	2.26	217.02	5,598.9	-46.8	-35.3	-45.9	0.00	0.00	0.00
5,700.0	2.26	217.02	5,698.8	-50.0	-37.7	-48.9	0.00	0.00	0.00
5,800.0	2.26	217.02	5,798.7	-53.1	-40.1	-52.0	0.00	0.00	0.00
5,900.0	2.26	217.02	5,898.6	-56.3	-42.4	-55.1	0.00	0.00	0.00
6,000.0	2.26	217.02	5,998.6	-59.4	-44.8	-58.2	0.00	0.00	0.00
6,100.0	2.26	217.02	6,098.5	-62.6	-47.2	-61.3	0.00	0.00	0.00
6,200.0	2.26	217.02	6,198.4	-65.7	-49.6	-64.4	0.00	0.00	0.00
6,300.0	2.26	217.02	6,298.3	-68.9	-51.9	-67.5	0.00	0.00	0.00
6,400.0	2.26	217.02	6,398.2	-72.0	-54.3	-70.5	0.00	0.00	0.00
6,500.0	2.26	217.02	6,498.2	-75.2	-56.7	-73.6	0.00	0.00	0.00
6,600.0	2.26	217.02	6,598.1	-78.3	-59.1	-76.7	0.00	0.00	0.00
6,700.0	2.26	217.02	6,698.0	-81.5	-61.4	-79.8	0.00	0.00	0.00
6,800.0	2.26	217.02	6,797.9	-84.6	-63.8	-82.9	0.00	0.00	0.00
6,900.0	2.26	217.02	6,897.9	-87.8	-66.2	-86.0	0.00	0.00	0.00
7,000.0	2.26	217.02	6,997.8	-90.9	-68.6	-89.0	0.00	0.00	0.00
7,100.0	2.26	217.02	7,097.7	-94.1	-70.9	-92.1	0.00	0.00	0.00
7,200.0	2.26	217.02	7,197.6	-97.2	-73.3	-95.2	0.00	0.00	0.00
7,300.0	2.26	217.02	7,297.5	-100.4	-75.7	-98.3	0.00	0.00	0.00
7,400.0	2.26	217.02	7,397.5	-103.5	-78.1	-101.4	0.00	0.00	0.00
7,500.0	2.26	217.02	7,497.4	-106.7	-80.5	-104.5	0.00	0.00	0.00
7,600.0	2.26	217.02	7,597.3	-109.8	-82.8	-107.5	0.00	0.00	0.00
7,700.0	2.26	217.02	7,697.2	-113.0	-85.2	-110.6	0.00	0.00	0.00
7,800.0	2.26	217.02	7,797.2	-116.1	-87.6	-113.7	0.00	0.00	0.00
7,900.0	2.26	217.02	7,897.1	-119.3	-90.0	-116.8	0.00	0.00	0.00
8,000.0	2.26	217.02	7,997.0	-122.4	-92.3	-119.9	0.00	0.00	0.00
8,100.0	2.26	217.02	8,096.9	-125.6	-94.7	-123.0	0.00	0.00	0.00
8,200.0	2.26	217.02	8,196.8	-128.7	-97.1	-126.1	0.00	0.00	0.00
8,300.0	2.26	217.02	8,296.8	-131.9	-99.5	-129.1	0.00	0.00	0.00
8,400.0	2.26	217.02	8,396.7	-135.0	-101.8	-132.2	0.00	0.00	0.00
8,500.0	2.26	217.02	8,496.6	-138.2	-104.2	-135.3	0.00	0.00	0.00
8,600.0	2.26	217.02	8,596.5	-141.3	-106.6	-138.4	0.00	0.00	0.00
8,700.0	2.26	217.02	8,696.5	-144.5	-109.0	-141.5	0.00	0.00	0.00
8,800.0	2.26	217.02	8,796.4	-147.6	-111.3	-144.6	0.00	0.00	0.00
8,900.0	2.26	217.02	8,896.3	-150.8	-113.7	-147.6	0.00	0.00	0.00
9,000.0	2.26	217.02	8,996.2	-153.9	-116.1	-150.7	0.00	0.00	0.00
9,100.0	2.26	217.02	9,096.1	-157.1	-118.5	-153.8	0.00	0.00	0.00
9,200.0	2.26	217.02	9,196.1	-160.2	-120.8	-156.9	0.00	0.00	0.00
9,300.0	2.26	217.02	9,296.0	-163.4	-123.2	-160.0	0.00	0.00	0.00
9,400.0	2.26	217.02	9,395.9	-166.5	-125.6	-163.1	0.00	0.00	0.00
9,500.0	2.26	217.02	9,495.8	-169.7	-128.0	-166.1	0.00	0.00	0.00
9,600.0	2.26	217.02	9,595.8	-172.8	-130.3	-169.2	0.00	0.00	0.00
9,700.0	2.26	217.02	9,695.7	-176.0	-132.7	-172.3	0.00	0.00	0.00
9,800.0	2.26	217.02	9,795.6	-179.1	-135.1	-175.4	0.00	0.00	0.00
9,900.0	2.26	217.02	9,895.5	-182.3	-137.5	-178.5	0.00	0.00	0.00
10,000.0	2.26	217.02	9,995.4	-185.4	-139.8	-181.6	0.00	0.00	0.00
10,100.0	2.26	217.02	10,095.4	-188.6	-142.2	-184.7	0.00	0.00	0.00
10,200.0	2.26	217.02	10,195.3	-191.7	-144.6	-187.7	0.00	0.00	0.00
10,300.0	2.26	217.02	10,295.2	-194.9	-147.0	-190.8	0.00	0.00	0.00
10,400.0	2.26	217.02	10,395.1	-198.0	-149.3	-193.9	0.00	0.00	0.00
10,500.0	2.26	217.02	10,495.1	-201.2	-151.7	-197.0	0.00	0.00	0.00
10,600.0	2.26	217.02	10,595.0	-204.3	-154.1	-200.1	0.00	0.00	0.00



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10,700.0	2.26	217.02	10,894.9	-207.5	-156.5	-203.2	0.00	0.00	0.00
10,800.0	2.26	217.02	10,794.8	-210.6	-158.8	-206.2	0.00	0.00	0.00
10,900.0	2.26	217.02	10,894.7	-213.8	-161.2	-209.3	0.00	0.00	0.00
11,000.0	2.26	217.02	10,994.7	-216.9	-163.6	-212.4	0.00	0.00	0.00
11,100.0	2.26	217.02	11,094.6	-220.1	-166.0	-215.5	0.00	0.00	0.00
11,200.0	2.26	217.02	11,194.5	-223.2	-168.3	-218.6	0.00	0.00	0.00
11,300.0	2.26	217.02	11,294.4	-226.4	-170.7	-221.7	0.00	0.00	0.00
11,400.0	2.26	217.02	11,394.4	-229.5	-173.1	-224.7	0.00	0.00	0.00
11,500.0	2.26	217.02	11,494.3	-232.7	-175.5	-227.8	0.00	0.00	0.00
11,600.0	2.26	217.02	11,594.2	-235.8	-177.8	-230.9	0.00	0.00	0.00
11,700.0	2.26	217.02	11,694.1	-239.0	-180.2	-234.0	0.00	0.00	0.00
11,800.0	2.26	217.02	11,794.0	-242.1	-182.6	-237.1	0.00	0.00	0.00
11,900.0	2.26	217.02	11,894.0	-245.3	-185.0	-240.2	0.00	0.00	0.00
12,000.0	2.26	217.02	11,993.9	-248.4	-187.3	-243.3	0.00	0.00	0.00
12,013.8	2.26	217.02	12,007.7	-248.9	-187.7	-243.7	0.00	0.00	0.00
12,025.0	1.45	251.23	12,018.9	-249.1	-187.9	-243.9	12.00	-7.28	306.56
12,050.0	2.89	331.22	12,043.9	-248.7	-188.5	-243.4	12.00	5.77	319.97
12,075.0	5.71	345.71	12,068.8	-246.9	-189.1	-241.7	12.00	11.28	57.94
12,100.0	8.65	350.52	12,093.6	-243.8	-189.8	-238.6	12.00	11.77	19.24
12,125.0	11.62	352.89	12,118.2	-239.5	-190.4	-234.2	12.00	11.89	9.49
12,150.0	14.61	354.31	12,142.5	-233.8	-191.0	-228.6	12.00	11.93	5.66
12,175.0	17.60	355.25	12,166.6	-226.9	-191.6	-221.6	12.00	11.95	3.77
12,200.0	20.59	355.93	12,190.2	-218.8	-192.3	-213.5	12.00	11.97	2.71
12,225.0	23.58	356.44	12,213.3	-209.4	-192.9	-204.1	12.00	11.98	2.05
12,250.0	26.58	356.84	12,236.0	-198.8	-193.5	-193.5	12.00	11.98	1.61
12,275.0	29.57	357.17	12,258.0	-187.1	-194.1	-181.7	12.00	11.98	1.30
12,300.0	32.57	357.44	12,279.4	-174.2	-194.7	-168.8	12.00	11.99	1.08
12,325.0	35.57	357.67	12,300.2	-160.2	-195.3	-154.8	12.00	11.99	0.92
12,350.0	38.56	357.87	12,320.1	-145.1	-195.9	-139.8	12.00	11.99	0.79
12,375.0	41.56	358.04	12,339.2	-129.1	-196.5	-123.7	12.00	11.99	0.70
12,400.0	44.56	358.19	12,357.5	-112.0	-197.0	-106.6	12.00	11.99	0.62
12,425.0	47.56	358.33	12,374.8	-94.0	-197.6	-88.6	12.00	11.99	0.56
12,450.0	50.56	358.46	12,391.2	-75.1	-198.1	-69.7	12.00	11.99	0.50
12,475.0	53.56	358.57	12,406.6	-55.4	-198.6	-50.0	12.00	11.99	0.46
12,500.0	56.55	358.68	12,420.9	-35.0	-199.1	-29.5	12.00	11.99	0.43
12,525.0	59.55	358.78	12,434.1	-13.7	-199.6	-8.3	12.00	12.00	0.40
12,550.0	62.55	358.88	12,446.2	8.1	-200.0	13.6	12.00	12.00	0.38
12,575.0	65.55	358.96	12,457.2	30.6	-200.5	36.0	12.00	12.00	0.36
12,590.3	67.38	359.02	12,463.3	44.6	-200.7	50.0	12.00	12.00	0.34
FTP (Hearn 34 State Com #712H)									
12,600.0	68.55	359.05	12,466.9	53.6	-200.9	59.1	12.00	12.00	0.34
12,625.0	71.55	359.13	12,475.4	77.1	-201.2	82.6	12.00	12.00	0.33
12,650.0	74.55	359.21	12,482.7	101.0	-201.6	106.5	12.00	12.00	0.31
12,675.0	77.55	359.29	12,488.8	125.3	-201.9	130.7	12.00	12.00	0.31
12,700.0	80.55	359.36	12,493.5	149.8	-202.2	155.3	12.00	12.00	0.30
12,725.0	83.55	359.43	12,497.0	174.6	-202.4	180.0	12.00	12.00	0.29
12,750.0	86.54	359.51	12,499.1	199.5	-202.7	204.9	12.00	12.00	0.29
12,775.0	89.54	359.58	12,500.0	224.4	-202.9	229.9	12.00	12.00	0.29
12,778.8	90.00	359.59	12,500.0	228.3	-202.9	233.7	12.00	12.00	0.29
12,800.0	90.00	359.59	12,500.0	249.4	-203.0	254.9	0.00	0.00	0.00
12,900.0	90.00	359.59	12,500.0	349.4	-203.8	354.9	0.00	0.00	0.00
13,000.0	90.00	359.59	12,500.0	449.4	-204.5	454.8	0.00	0.00	0.00
13,100.0	90.00	359.59	12,500.0	549.4	-205.2	554.8	0.00	0.00	0.00



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 Corn
Well: #712H
Wellbore: OH
Design: Plan #0.1

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

Well #712H
KB = 25' @ 3509.0usft
KB = 25' @ 3509.0usft
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)
13,200.0	90.00	359.59	12,500.0	649.4	-205.9	654.8	0.00	0.00	0.00
13,300.0	90.00	359.59	12,500.0	749.4	-206.6	754.8	0.00	0.00	0.00
13,400.0	90.00	359.59	12,500.0	849.4	-207.3	854.8	0.00	0.00	0.00
13,500.0	90.00	359.59	12,500.0	949.4	-208.1	954.7	0.00	0.00	0.00
13,600.0	90.00	359.59	12,500.0	1,049.4	-208.8	1,054.7	0.00	0.00	0.00
13,700.0	90.00	359.59	12,500.0	1,149.4	-209.5	1,154.7	0.00	0.00	0.00
13,800.0	90.00	359.59	12,500.0	1,249.4	-210.2	1,254.7	0.00	0.00	0.00
13,900.0	90.00	359.59	12,500.0	1,349.4	-210.9	1,354.7	0.00	0.00	0.00
14,000.0	90.00	359.59	12,500.0	1,449.4	-211.6	1,454.6	0.00	0.00	0.00
14,100.0	90.00	359.59	12,500.0	1,549.4	-212.3	1,554.6	0.00	0.00	0.00
14,200.0	90.00	359.59	12,500.0	1,649.4	-213.1	1,654.6	0.00	0.00	0.00
14,300.0	90.00	359.59	12,500.0	1,749.4	-213.8	1,754.6	0.00	0.00	0.00
14,400.0	90.00	359.59	12,500.0	1,849.4	-214.5	1,854.6	0.00	0.00	0.00
14,500.0	90.00	359.59	12,500.0	1,949.4	-215.2	1,954.5	0.00	0.00	0.00
14,600.0	90.00	359.59	12,500.0	2,049.4	-215.9	2,054.5	0.00	0.00	0.00
14,700.0	90.00	359.59	12,500.0	2,149.4	-216.6	2,154.5	0.00	0.00	0.00
14,800.0	90.00	359.59	12,500.0	2,249.4	-217.4	2,254.5	0.00	0.00	0.00
14,900.0	90.00	359.59	12,500.0	2,349.4	-218.1	2,354.5	0.00	0.00	0.00
15,000.0	90.00	359.59	12,500.0	2,449.4	-218.8	2,454.4	0.00	0.00	0.00
15,100.0	90.00	359.59	12,500.0	2,549.4	-219.5	2,554.4	0.00	0.00	0.00
15,200.0	90.00	359.59	12,500.0	2,649.4	-220.2	2,654.4	0.00	0.00	0.00
15,300.0	90.00	359.59	12,500.0	2,749.4	-220.9	2,754.4	0.00	0.00	0.00
15,400.0	90.00	359.59	12,500.0	2,849.4	-221.7	2,854.4	0.00	0.00	0.00
15,500.0	90.00	359.59	12,500.0	2,949.4	-222.4	2,954.3	0.00	0.00	0.00
15,600.0	90.00	359.59	12,500.0	3,049.4	-223.1	3,054.3	0.00	0.00	0.00
15,700.0	90.00	359.59	12,500.0	3,149.4	-223.8	3,154.3	0.00	0.00	0.00
15,800.0	90.00	359.59	12,500.0	3,249.4	-224.5	3,254.3	0.00	0.00	0.00
15,900.0	90.00	359.59	12,500.0	3,349.4	-225.2	3,354.3	0.00	0.00	0.00
16,000.0	90.00	359.59	12,500.0	3,449.4	-225.9	3,454.2	0.00	0.00	0.00
16,100.0	90.00	359.59	12,500.0	3,549.4	-226.7	3,554.2	0.00	0.00	0.00
16,200.0	90.00	359.59	12,500.0	3,649.4	-227.4	3,654.2	0.00	0.00	0.00
16,300.0	90.00	359.59	12,500.0	3,749.4	-228.1	3,754.2	0.00	0.00	0.00
16,400.0	90.00	359.59	12,500.0	3,849.4	-228.8	3,854.2	0.00	0.00	0.00
16,500.0	90.00	359.59	12,500.0	3,949.4	-229.5	3,954.1	0.00	0.00	0.00
16,600.0	90.00	359.59	12,500.0	4,049.4	-230.2	4,054.1	0.00	0.00	0.00
16,700.0	90.00	359.59	12,500.0	4,149.3	-231.0	4,154.1	0.00	0.00	0.00
16,800.0	90.00	359.59	12,500.0	4,249.3	-231.7	4,254.1	0.00	0.00	0.00
16,900.0	90.00	359.59	12,500.0	4,349.3	-232.4	4,354.1	0.00	0.00	0.00
17,000.0	90.00	359.59	12,500.0	4,449.3	-233.1	4,454.0	0.00	0.00	0.00
17,100.0	90.00	359.59	12,500.0	4,549.3	-233.8	4,554.0	0.00	0.00	0.00
17,200.0	90.00	359.59	12,500.0	4,649.3	-234.5	4,654.0	0.00	0.00	0.00
17,300.0	90.00	359.59	12,500.0	4,749.3	-235.2	4,754.0	0.00	0.00	0.00
17,400.0	90.00	359.59	12,500.0	4,849.3	-236.0	4,854.0	0.00	0.00	0.00
17,500.0	90.00	359.59	12,500.0	4,949.3	-236.7	4,953.9	0.00	0.00	0.00
17,600.0	90.00	359.59	12,500.0	5,049.3	-237.4	5,053.9	0.00	0.00	0.00
17,700.0	90.00	359.59	12,500.0	5,149.3	-238.1	5,153.9	0.00	0.00	0.00
17,800.0	90.00	359.59	12,500.0	5,249.3	-238.8	5,253.9	0.00	0.00	0.00
17,900.0	90.00	359.59	12,500.0	5,349.3	-239.5	5,353.9	0.00	0.00	0.00
18,000.0	90.00	359.59	12,500.0	5,449.3	-240.3	5,453.8	0.00	0.00	0.00
18,100.0	90.00	359.59	12,500.0	5,549.3	-241.0	5,553.8	0.00	0.00	0.00
18,200.0	90.00	359.59	12,500.0	5,649.3	-241.7	5,653.8	0.00	0.00	0.00
18,300.0	90.00	359.59	12,500.0	5,749.3	-242.4	5,753.8	0.00	0.00	0.00
18,400.0	90.00	359.59	12,500.0	5,849.3	-243.1	5,853.8	0.00	0.00	0.00
18,500.0	90.00	359.59	12,500.0	5,949.3	-243.8	5,953.7	0.00	0.00	0.00



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: #712H
Wellbore: OH
Design: Plan #0.1

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

Well #712H
KB = 25' @ 3509.0usft
KB = 25' @ 3509.0usft
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)
18,600.0	90.00	359.59	12,500.0	6,049.3	-244.6	6,053.7	0.00	0.00	0.00
18,700.0	90.00	359.59	12,500.0	6,149.3	-245.3	6,153.7	0.00	0.00	0.00
18,800.0	90.00	359.59	12,500.0	6,249.3	-246.0	6,253.7	0.00	0.00	0.00
18,900.0	90.00	359.59	12,500.0	6,349.3	-246.7	6,353.7	0.00	0.00	0.00
19,000.0	90.00	359.59	12,500.0	6,449.3	-247.4	6,453.6	0.00	0.00	0.00
19,100.0	90.00	359.59	12,500.0	6,549.3	-248.1	6,553.6	0.00	0.00	0.00
19,200.0	90.00	359.59	12,500.0	6,649.3	-248.8	6,653.6	0.00	0.00	0.00
19,300.0	90.00	359.59	12,500.0	6,749.3	-249.6	6,753.6	0.00	0.00	0.00
19,400.0	90.00	359.59	12,500.0	6,849.3	-250.3	6,853.6	0.00	0.00	0.00
19,500.0	90.00	359.59	12,500.0	6,949.3	-251.0	6,953.5	0.00	0.00	0.00
19,600.0	90.00	359.59	12,500.0	7,049.3	-251.7	7,053.5	0.00	0.00	0.00
19,700.0	90.00	359.59	12,500.0	7,149.3	-252.4	7,153.5	0.00	0.00	0.00
19,800.0	90.00	359.59	12,500.0	7,249.3	-253.1	7,253.5	0.00	0.00	0.00
19,900.0	90.00	359.59	12,500.0	7,349.3	-253.9	7,353.5	0.00	0.00	0.00
20,000.0	90.00	359.59	12,500.0	7,449.3	-254.6	7,453.4	0.00	0.00	0.00
20,100.0	90.00	359.59	12,500.0	7,549.3	-255.3	7,553.4	0.00	0.00	0.00
20,200.0	90.00	359.59	12,500.0	7,649.3	-256.0	7,653.4	0.00	0.00	0.00
20,300.0	90.00	359.59	12,500.0	7,749.3	-256.7	7,753.4	0.00	0.00	0.00
20,400.0	90.00	359.59	12,500.0	7,849.3	-257.4	7,853.4	0.00	0.00	0.00
20,500.0	90.00	359.59	12,500.0	7,949.3	-258.1	7,953.3	0.00	0.00	0.00
20,600.0	90.00	359.59	12,500.0	8,049.2	-258.9	8,053.3	0.00	0.00	0.00
20,700.0	90.00	359.59	12,500.0	8,149.2	-259.6	8,153.3	0.00	0.00	0.00
20,800.0	90.00	359.59	12,500.0	8,249.2	-260.3	8,253.3	0.00	0.00	0.00
20,900.0	90.00	359.59	12,500.0	8,349.2	-261.0	8,353.3	0.00	0.00	0.00
21,000.0	90.00	359.59	12,500.0	8,449.2	-261.7	8,453.2	0.00	0.00	0.00
21,100.0	90.00	359.59	12,500.0	8,549.2	-262.4	8,553.2	0.00	0.00	0.00
21,200.0	90.00	359.59	12,500.0	8,649.2	-263.2	8,653.2	0.00	0.00	0.00
21,300.0	90.00	359.59	12,500.0	8,749.2	-263.9	8,753.2	0.00	0.00	0.00
21,400.0	90.00	359.59	12,500.0	8,849.2	-264.6	8,853.2	0.00	0.00	0.00
21,500.0	90.00	359.59	12,500.0	8,949.2	-265.3	8,953.1	0.00	0.00	0.00
21,600.0	90.00	359.59	12,500.0	9,049.2	-266.0	9,053.1	0.00	0.00	0.00
21,700.0	90.00	359.59	12,500.0	9,149.2	-266.7	9,153.1	0.00	0.00	0.00
21,800.0	90.00	359.59	12,500.0	9,249.2	-267.4	9,253.1	0.00	0.00	0.00
21,900.0	90.00	359.59	12,500.0	9,349.2	-268.2	9,353.1	0.00	0.00	0.00
22,000.0	90.00	359.59	12,500.0	9,449.2	-268.9	9,453.0	0.00	0.00	0.00
22,100.0	90.00	359.59	12,500.0	9,549.2	-269.6	9,553.0	0.00	0.00	0.00
22,200.0	90.00	359.59	12,500.0	9,649.2	-270.3	9,653.0	0.00	0.00	0.00
22,300.0	90.00	359.59	12,500.0	9,749.2	-271.0	9,753.0	0.00	0.00	0.00
22,400.0	90.00	359.59	12,500.0	9,849.2	-271.7	9,853.0	0.00	0.00	0.00
22,500.0	90.00	359.59	12,500.0	9,949.2	-272.5	9,952.9	0.00	0.00	0.00
22,575.8	90.00	359.59	12,500.0	10,025.0	-273.0	10,028.7	0.00	0.00	0.00

PBHL (Hearn's 34 State Com #712H)



EOG Resources, Inc.

Planning Report

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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Com
Well: #712H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #712H
TVD Reference: KB = 25' @ 3509.0usft
MD Reference: KB = 25' @ 3509.0usft
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 40.0usft at 12590.3usft MD (12463.3 TVD, 44.6 N, -200.7 E) - Point	0.00	0.00	12,500.0	29.0	-203.0	425,632.00	782,441.00	32° 10' 3.867 N	103° 33' 14.899 W
PBHL (Hearn 34 State - plan hits target center - Point	0.00	0.00	12,500.0	10,025.0	-273.0	435,628.00	782,371.00	32° 11' 42.785 N	103° 33' 14.871 W