



Lea County, NM (NAD 83 NME)

Hearns 34 State Com #713H

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: #713H

KB = 25' @ 3510.0 surf
Northing 425604.69 Easting 782679.00 Latitude 32° 10' 3.573 N Longitude 103° 33' 12.133 W

SECTION DETAILS

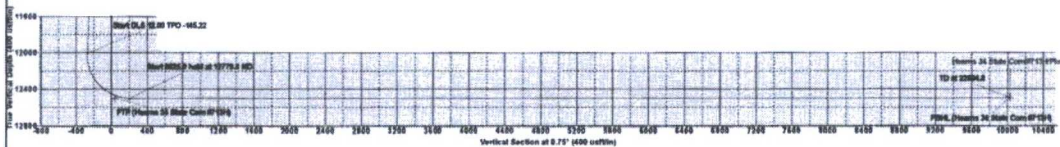
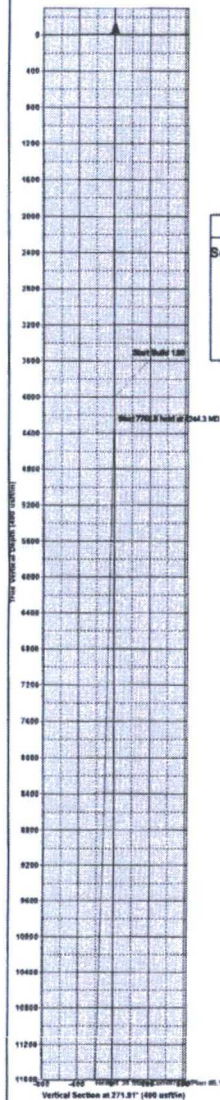
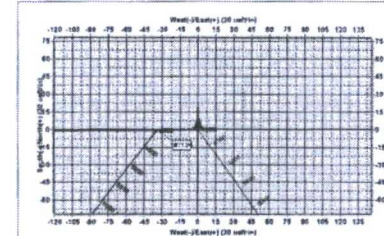
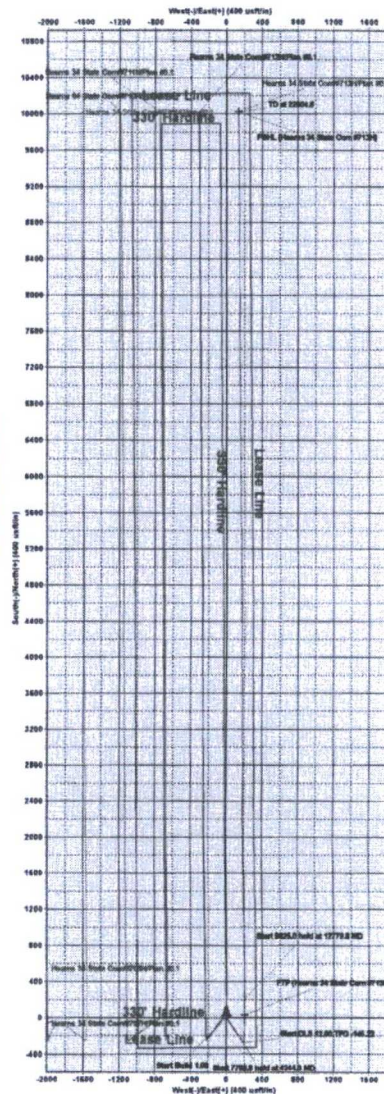
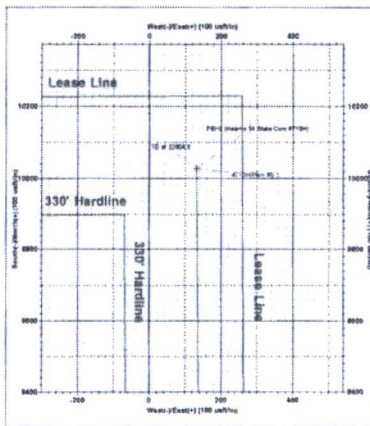
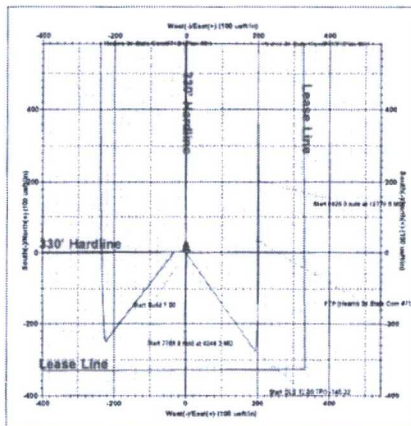
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Tface	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.00	0.00	0.00	0.0	
3	4244.3	2.44	144.84	4244.2	-4.3	3.0	1.00	144.84	-4.2	
4	12013.1	2.44	144.84	12008.0	-275.0	193.7	0.00	0.00	-272.4	
5	12779.8	90.00	359.59	12500.0	202.3	202.3	12.00	-145.22	204.9	
6	22604.8	90.00	359.59	12500.0	10027.0	132.0	0.00	0.00	10027.9	PBHL (Hearns 34 State Com #713H)

CASINGS 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 #713H)	12800.0	21.0	202.0	429639.00	782881.00
PBHL (Hearns 34 State Com #713H)	12800.0	10027.0	132.0	430631.00	782811.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#713H

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 Corn
Well: #713H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #713H
TVD Reference: KB = 25' @ 3510.0usft
MD Reference: KB = 25' @ 3510.0usft
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 Corn
Site Position: **From:** Map **Northing:** 425,568.00 usft **Latitude:** 32° 10' 3.355 N
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 #713H
Well Position **+N/-S** 36.0 usft **Northing:** 425,604.00 usft **Latitude:** 32° 10' 3.573 N
+E/-W 1,934.0 usft **Easting:** 782,679.00 usft **Longitude:** 103° 33' 12.133 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** **Ground Level:** 3,485.0 usft

Wellbore OH
Magnetics **Model Name** IGRF2015 **Sample Date** 6/14/2017 **Declination (°)** 6.94 **Dip Angle (°)** 60.01 **Field Strength (nT)** 47,906.97322511

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 0.75

Plan Survey Tool Program **Date** 6/15/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,604.8 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	
4,244.3	2.44	144.84	4,244.2	-4.3	3.0	1.00	1.00	0.00	144.84	
12,013.1	2.44	144.84	12,006.0	-275.0	193.7	0.00	0.00	0.00	0.00	
12,779.8	90.00	359.59	12,500.0	202.3	202.3	12.00	11.42	-18.94	-145.22	
22,604.8	90.00	359.59	12,500.0	10,027.0	132.0	0.00	0.00	0.00	0.00	PBHL (Hearn 34 Sta



EOG Resources, Inc.

Planning Report

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Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Com
Well: #713H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #713H
TVD Reference: KB = 25' @ 3510.0usft
MD Reference: KB = 25' @ 3510.0usft
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	144.84	4,100.0	-0.7	0.5	-0.7	1.00	1.00	0.00
4,200.0	2.00	144.84	4,200.0	-2.9	2.0	-2.8	1.00	1.00	0.00
4,244.3	2.44	144.84	4,244.2	-4.3	3.0	-4.2	1.00	1.00	0.00
4,300.0	2.44	144.84	4,299.9	-6.2	4.4	-6.1	0.00	0.00	0.00
4,400.0	2.44	144.84	4,399.8	-9.7	6.8	-9.6	0.00	0.00	0.00
4,500.0	2.44	144.84	4,499.7	-13.2	9.3	-13.0	0.00	0.00	0.00
4,600.0	2.44	144.84	4,599.6	-16.7	11.7	-16.5	0.00	0.00	0.00
4,700.0	2.44	144.84	4,699.5	-20.1	14.2	-19.9	0.00	0.00	0.00
4,800.0	2.44	144.84	4,799.4	-23.6	16.6	-23.4	0.00	0.00	0.00
4,900.0	2.44	144.84	4,899.3	-27.1	19.1	-26.9	0.00	0.00	0.00
5,000.0	2.44	144.84	4,999.2	-30.6	21.5	-30.3	0.00	0.00	0.00
5,100.0	2.44	144.84	5,099.1	-34.1	24.0	-33.8	0.00	0.00	0.00
5,200.0	2.44	144.84	5,199.1	-37.6	26.5	-37.2	0.00	0.00	0.00



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MD Reference: KB = 25' @ 3510.0usft
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	2.44	144.84	5,299.0	-41.0	28.9	-40.7	0.00	0.00	0.00
5,400.0	2.44	144.84	5,398.9	-44.5	31.4	-44.1	0.00	0.00	0.00
5,500.0	2.44	144.84	5,498.8	-48.0	33.8	-47.6	0.00	0.00	0.00
5,600.0	2.44	144.84	5,598.7	-51.5	36.3	-51.0	0.00	0.00	0.00
5,700.0	2.44	144.84	5,698.6	-55.0	38.7	-54.5	0.00	0.00	0.00
5,800.0	2.44	144.84	5,798.5	-58.5	41.2	-57.9	0.00	0.00	0.00
5,900.0	2.44	144.84	5,898.4	-62.0	43.6	-61.4	0.00	0.00	0.00
6,000.0	2.44	144.84	5,998.3	-65.4	46.1	-64.8	0.00	0.00	0.00
6,100.0	2.44	144.84	6,098.2	-68.9	48.6	-68.3	0.00	0.00	0.00
6,200.0	2.44	144.84	6,198.1	-72.4	51.0	-71.7	0.00	0.00	0.00
6,300.0	2.44	144.84	6,298.1	-75.9	53.5	-75.2	0.00	0.00	0.00
6,400.0	2.44	144.84	6,398.0	-79.4	55.9	-78.6	0.00	0.00	0.00
6,500.0	2.44	144.84	6,497.9	-82.9	58.4	-82.1	0.00	0.00	0.00
6,600.0	2.44	144.84	6,597.8	-86.4	60.8	-85.5	0.00	0.00	0.00
6,700.0	2.44	144.84	6,697.7	-89.8	63.3	-89.0	0.00	0.00	0.00
6,800.0	2.44	144.84	6,797.6	-93.3	65.7	-92.4	0.00	0.00	0.00
6,900.0	2.44	144.84	6,897.5	-96.8	68.2	-95.9	0.00	0.00	0.00
7,000.0	2.44	144.84	6,997.4	-100.3	70.6	-99.4	0.00	0.00	0.00
7,100.0	2.44	144.84	7,097.3	-103.8	73.1	-102.8	0.00	0.00	0.00
7,200.0	2.44	144.84	7,197.2	-107.3	75.6	-106.3	0.00	0.00	0.00
7,300.0	2.44	144.84	7,297.1	-110.7	78.0	-109.7	0.00	0.00	0.00
7,400.0	2.44	144.84	7,397.1	-114.2	80.5	-113.2	0.00	0.00	0.00
7,500.0	2.44	144.84	7,497.0	-117.7	82.9	-116.6	0.00	0.00	0.00
7,600.0	2.44	144.84	7,596.9	-121.2	85.4	-120.1	0.00	0.00	0.00
7,700.0	2.44	144.84	7,696.8	-124.7	87.8	-123.5	0.00	0.00	0.00
7,800.0	2.44	144.84	7,796.7	-128.2	90.3	-127.0	0.00	0.00	0.00
7,900.0	2.44	144.84	7,896.6	-131.7	92.7	-130.4	0.00	0.00	0.00
8,000.0	2.44	144.84	7,996.5	-135.1	95.2	-133.9	0.00	0.00	0.00
8,100.0	2.44	144.84	8,096.4	-138.6	97.6	-137.3	0.00	0.00	0.00
8,200.0	2.44	144.84	8,196.3	-142.1	100.1	-140.8	0.00	0.00	0.00
8,300.0	2.44	144.84	8,296.2	-145.6	102.6	-144.2	0.00	0.00	0.00
8,400.0	2.44	144.84	8,396.1	-149.1	105.0	-147.7	0.00	0.00	0.00
8,500.0	2.44	144.84	8,496.1	-152.6	107.5	-151.1	0.00	0.00	0.00
8,600.0	2.44	144.84	8,596.0	-156.1	109.9	-154.6	0.00	0.00	0.00
8,700.0	2.44	144.84	8,695.9	-159.5	112.4	-158.0	0.00	0.00	0.00
8,800.0	2.44	144.84	8,795.8	-163.0	114.8	-161.5	0.00	0.00	0.00
8,900.0	2.44	144.84	8,895.7	-166.5	117.3	-164.9	0.00	0.00	0.00
9,000.0	2.44	144.84	8,995.6	-170.0	119.7	-168.4	0.00	0.00	0.00
9,100.0	2.44	144.84	9,095.5	-173.5	122.2	-171.9	0.00	0.00	0.00
9,200.0	2.44	144.84	9,195.4	-177.0	124.7	-175.3	0.00	0.00	0.00
9,300.0	2.44	144.84	9,295.3	-180.4	127.1	-178.8	0.00	0.00	0.00
9,400.0	2.44	144.84	9,395.2	-183.9	129.6	-182.2	0.00	0.00	0.00
9,500.0	2.44	144.84	9,495.1	-187.4	132.0	-185.7	0.00	0.00	0.00
9,600.0	2.44	144.84	9,595.1	-190.9	134.5	-189.1	0.00	0.00	0.00
9,700.0	2.44	144.84	9,695.0	-194.4	136.9	-192.6	0.00	0.00	0.00
9,800.0	2.44	144.84	9,794.9	-197.9	139.4	-196.0	0.00	0.00	0.00
9,900.0	2.44	144.84	9,894.8	-201.4	141.8	-199.5	0.00	0.00	0.00
10,000.0	2.44	144.84	9,994.7	-204.8	144.3	-202.9	0.00	0.00	0.00
10,100.0	2.44	144.84	10,094.6	-208.3	146.7	-206.4	0.00	0.00	0.00
10,200.0	2.44	144.84	10,194.5	-211.8	149.2	-209.8	0.00	0.00	0.00
10,300.0	2.44	144.84	10,294.4	-215.3	151.7	-213.3	0.00	0.00	0.00
10,400.0	2.44	144.84	10,394.3	-218.8	154.1	-216.7	0.00	0.00	0.00
10,500.0	2.44	144.84	10,494.2	-222.3	156.6	-220.2	0.00	0.00	0.00
10,600.0	2.44	144.84	10,594.1	-225.7	159.0	-223.6	0.00	0.00	0.00



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10,700.0	2.44	144.84	10,694.1	-229.2	161.5	-227.1	0.00	0.00	0.00
10,800.0	2.44	144.84	10,794.0	-232.7	163.9	-230.5	0.00	0.00	0.00
10,900.0	2.44	144.84	10,893.9	-236.2	166.4	-234.0	0.00	0.00	0.00
11,000.0	2.44	144.84	10,993.8	-239.7	168.8	-237.4	0.00	0.00	0.00
11,100.0	2.44	144.84	11,093.7	-243.2	171.3	-240.9	0.00	0.00	0.00
11,200.0	2.44	144.84	11,193.6	-246.7	173.7	-244.3	0.00	0.00	0.00
11,300.0	2.44	144.84	11,293.5	-250.1	176.2	-247.8	0.00	0.00	0.00
11,400.0	2.44	144.84	11,393.4	-253.6	178.7	-251.3	0.00	0.00	0.00
11,500.0	2.44	144.84	11,493.3	-257.1	181.1	-254.7	0.00	0.00	0.00
11,600.0	2.44	144.84	11,593.2	-260.6	183.6	-258.2	0.00	0.00	0.00
11,700.0	2.44	144.84	11,693.1	-264.1	186.0	-261.6	0.00	0.00	0.00
11,800.0	2.44	144.84	11,793.1	-267.6	188.5	-265.1	0.00	0.00	0.00
11,900.0	2.44	144.84	11,893.0	-271.1	190.9	-268.5	0.00	0.00	0.00
12,000.0	2.44	144.84	11,992.9	-274.5	193.4	-272.0	0.00	0.00	0.00
12,013.1	2.44	144.84	12,006.0	-275.0	193.7	-272.4	0.00	0.00	0.00
12,025.0	1.51	112.14	12,017.9	-275.3	194.0	-272.7	12.00	-7.85	-274.64
12,050.0	2.79	29.48	12,042.8	-274.9	194.6	-272.3	12.00	5.14	-330.62
12,075.0	5.60	13.96	12,067.8	-273.1	195.2	-270.5	12.00	11.21	-62.11
12,100.0	8.54	8.92	12,092.6	-270.1	195.8	-267.5	12.00	11.75	-20.17
12,125.0	11.51	6.45	12,117.2	-265.8	196.3	-263.2	12.00	11.88	-9.85
12,150.0	14.49	4.99	12,141.6	-260.2	196.9	-257.6	12.00	11.93	-5.85
12,175.0	17.48	4.02	12,165.6	-253.4	197.4	-250.7	12.00	11.95	-3.88
12,200.0	20.47	3.33	12,189.2	-245.2	197.9	-242.6	12.00	11.97	-2.78
12,225.0	23.46	2.80	12,212.4	-235.9	198.4	-233.3	12.00	11.97	-2.09
12,250.0	26.46	2.39	12,235.1	-225.4	198.9	-222.7	12.00	11.98	-1.64
12,275.0	29.45	2.06	12,257.2	-213.7	199.4	-211.0	12.00	11.98	-1.33
12,300.0	32.45	1.78	12,278.6	-200.8	199.8	-198.2	12.00	11.99	-1.11
12,325.0	35.45	1.55	12,299.3	-186.9	200.2	-184.2	12.00	11.99	-0.94
12,350.0	38.44	1.35	12,319.3	-171.8	200.6	-169.2	12.00	11.99	-0.81
12,375.0	41.44	1.17	12,338.5	-155.8	200.9	-153.1	12.00	11.99	-0.71
12,400.0	44.44	1.01	12,356.8	-138.8	201.3	-136.1	12.00	11.99	-0.63
12,425.0	47.44	0.87	12,374.2	-120.8	201.6	-118.2	12.00	11.99	-0.57
12,450.0	50.44	0.74	12,390.6	-102.0	201.8	-99.3	12.00	11.99	-0.51
12,475.0	53.43	0.62	12,406.0	-82.3	202.1	-79.6	12.00	11.99	-0.47
12,500.0	56.43	0.51	12,420.3	-61.8	202.3	-59.2	12.00	11.99	-0.44
12,525.0	59.43	0.41	12,433.6	-40.6	202.4	-38.0	12.00	12.00	-0.41
12,550.0	62.43	0.32	12,445.8	-18.8	202.6	-16.1	12.00	12.00	-0.38
12,575.0	65.43	0.23	12,456.8	3.7	202.7	6.3	12.00	12.00	-0.36
12,600.0	68.43	0.14	12,466.5	26.7	202.7	29.3	12.00	12.00	-0.34
12,615.6	70.30	0.09	12,472.0	41.2	202.8	43.9	12.00	12.00	-0.33
FTP (Hearn 34 State Corn #713H)									
12,625.0	71.43	0.06	12,475.1	50.1	202.8	52.8	12.00	12.00	-0.33
12,650.0	74.43	359.98	12,482.5	74.0	202.8	76.7	12.00	12.00	-0.32
12,675.0	77.43	359.90	12,488.5	98.3	202.8	100.9	12.00	12.00	-0.31
12,700.0	80.42	359.83	12,493.3	122.8	202.7	125.5	12.00	12.00	-0.30
12,725.0	83.42	359.75	12,496.9	147.6	202.6	150.2	12.00	12.00	-0.30
12,750.0	86.42	359.68	12,499.1	172.5	202.5	175.1	12.00	12.00	-0.29
12,775.0	89.42	359.60	12,500.0	197.4	202.3	200.1	12.00	12.00	-0.29
12,779.8	90.00	359.59	12,500.0	202.3	202.3	204.9	12.00	12.00	-0.29
12,800.0	90.00	359.59	12,500.0	222.4	202.2	225.1	0.00	0.00	0.00
12,900.0	90.00	359.59	12,500.0	322.4	201.4	325.1	0.00	0.00	0.00
13,000.0	90.00	359.59	12,500.0	422.4	200.7	425.0	0.00	0.00	0.00
13,100.0	90.00	359.59	12,500.0	522.4	200.0	525.0	0.00	0.00	0.00



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Planning Report

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 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Hearn's 34 State Corn
 Well: #713H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #713H
 TVD Reference: KB = 25' @ 3510.0usft
 MD Reference: KB = 25' @ 3510.0usft
 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)
13,200.0	90.00	359.59	12,500.0	622.4	199.3	625.0	0.00	0.00	0.00
13,300.0	90.00	359.59	12,500.0	722.4	198.6	725.0	0.00	0.00	0.00
13,400.0	90.00	359.59	12,500.0	822.4	197.9	824.9	0.00	0.00	0.00
13,500.0	90.00	359.59	12,500.0	922.4	197.2	924.9	0.00	0.00	0.00
13,600.0	90.00	359.59	12,500.0	1,022.4	196.4	1,024.9	0.00	0.00	0.00
13,700.0	90.00	359.59	12,500.0	1,122.4	195.7	1,124.9	0.00	0.00	0.00
13,800.0	90.00	359.59	12,500.0	1,222.4	195.0	1,224.9	0.00	0.00	0.00
13,900.0	90.00	359.59	12,500.0	1,322.4	194.3	1,324.8	0.00	0.00	0.00
14,000.0	90.00	359.59	12,500.0	1,422.4	193.6	1,424.8	0.00	0.00	0.00
14,100.0	90.00	359.59	12,500.0	1,522.4	192.9	1,524.8	0.00	0.00	0.00
14,200.0	90.00	359.59	12,500.0	1,622.4	192.1	1,624.8	0.00	0.00	0.00
14,300.0	90.00	359.59	12,500.0	1,722.4	191.4	1,724.8	0.00	0.00	0.00
14,400.0	90.00	359.59	12,500.0	1,822.4	190.7	1,824.7	0.00	0.00	0.00
14,500.0	90.00	359.59	12,500.0	1,922.4	190.0	1,924.7	0.00	0.00	0.00
14,600.0	90.00	359.59	12,500.0	2,022.4	189.3	2,024.7	0.00	0.00	0.00
14,700.0	90.00	359.59	12,500.0	2,122.4	188.6	2,124.7	0.00	0.00	0.00
14,800.0	90.00	359.59	12,500.0	2,222.4	187.8	2,224.7	0.00	0.00	0.00
14,900.0	90.00	359.59	12,500.0	2,322.4	187.1	2,324.6	0.00	0.00	0.00
15,000.0	90.00	359.59	12,500.0	2,422.4	186.4	2,424.6	0.00	0.00	0.00
15,100.0	90.00	359.59	12,500.0	2,522.4	185.7	2,524.6	0.00	0.00	0.00
15,200.0	90.00	359.59	12,500.0	2,622.4	185.0	2,624.6	0.00	0.00	0.00
15,300.0	90.00	359.59	12,500.0	2,722.4	184.3	2,724.6	0.00	0.00	0.00
15,400.0	90.00	359.59	12,500.0	2,822.4	183.6	2,824.5	0.00	0.00	0.00
15,500.0	90.00	359.59	12,500.0	2,922.4	182.8	2,924.5	0.00	0.00	0.00
15,600.0	90.00	359.59	12,500.0	3,022.4	182.1	3,024.5	0.00	0.00	0.00
15,700.0	90.00	359.59	12,500.0	3,122.4	181.4	3,124.5	0.00	0.00	0.00
15,800.0	90.00	359.59	12,500.0	3,222.4	180.7	3,224.5	0.00	0.00	0.00
15,900.0	90.00	359.59	12,500.0	3,322.4	180.0	3,324.4	0.00	0.00	0.00
16,000.0	90.00	359.59	12,500.0	3,422.3	179.3	3,424.4	0.00	0.00	0.00
16,100.0	90.00	359.59	12,500.0	3,522.3	178.5	3,524.4	0.00	0.00	0.00
16,200.0	90.00	359.59	12,500.0	3,622.3	177.8	3,624.4	0.00	0.00	0.00
16,300.0	90.00	359.59	12,500.0	3,722.3	177.1	3,724.4	0.00	0.00	0.00
16,400.0	90.00	359.59	12,500.0	3,822.3	176.4	3,824.3	0.00	0.00	0.00
16,500.0	90.00	359.59	12,500.0	3,922.3	175.7	3,924.3	0.00	0.00	0.00
16,600.0	90.00	359.59	12,500.0	4,022.3	175.0	4,024.3	0.00	0.00	0.00
16,700.0	90.00	359.59	12,500.0	4,122.3	174.3	4,124.3	0.00	0.00	0.00
16,800.0	90.00	359.59	12,500.0	4,222.3	173.5	4,224.2	0.00	0.00	0.00
16,900.0	90.00	359.59	12,500.0	4,322.3	172.8	4,324.2	0.00	0.00	0.00
17,000.0	90.00	359.59	12,500.0	4,422.3	172.1	4,424.2	0.00	0.00	0.00
17,100.0	90.00	359.59	12,500.0	4,522.3	171.4	4,524.2	0.00	0.00	0.00
17,200.0	90.00	359.59	12,500.0	4,622.3	170.7	4,624.2	0.00	0.00	0.00
17,300.0	90.00	359.59	12,500.0	4,722.3	170.0	4,724.1	0.00	0.00	0.00
17,400.0	90.00	359.59	12,500.0	4,822.3	169.2	4,824.1	0.00	0.00	0.00
17,500.0	90.00	359.59	12,500.0	4,922.3	168.5	4,924.1	0.00	0.00	0.00
17,600.0	90.00	359.59	12,500.0	5,022.3	167.8	5,024.1	0.00	0.00	0.00
17,700.0	90.00	359.59	12,500.0	5,122.3	167.1	5,124.1	0.00	0.00	0.00
17,800.0	90.00	359.59	12,500.0	5,222.3	166.4	5,224.0	0.00	0.00	0.00
17,900.0	90.00	359.59	12,500.0	5,322.3	165.7	5,324.0	0.00	0.00	0.00
18,000.0	90.00	359.59	12,500.0	5,422.3	165.0	5,424.0	0.00	0.00	0.00
18,100.0	90.00	359.59	12,500.0	5,522.3	164.2	5,524.0	0.00	0.00	0.00
18,200.0	90.00	359.59	12,500.0	5,622.3	163.5	5,624.0	0.00	0.00	0.00
18,300.0	90.00	359.59	12,500.0	5,722.3	162.8	5,723.9	0.00	0.00	0.00
18,400.0	90.00	359.59	12,500.0	5,822.3	162.1	5,823.9	0.00	0.00	0.00
18,500.0	90.00	359.59	12,500.0	5,922.3	161.4	5,923.9	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
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 Site: Hearn 34 State Com
 Well: #713H
 Wellbore: OH
 Design: Plan #0.1

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

Well #713H
 KB = 25' @ 3510.0usft
 KB = 25' @ 3510.0usft
 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	6,022.3	160.7	6,023.9	0.00	0.00	0.00
18,700.0	90.00	359.59	12,500.0	6,122.3	159.9	6,123.9	0.00	0.00	0.00
18,800.0	90.00	359.59	12,500.0	6,222.3	159.2	6,223.8	0.00	0.00	0.00
18,900.0	90.00	359.59	12,500.0	6,322.3	158.5	6,323.8	0.00	0.00	0.00
19,000.0	90.00	359.59	12,500.0	6,422.3	157.8	6,423.8	0.00	0.00	0.00
19,100.0	90.00	359.59	12,500.0	6,522.3	157.1	6,523.8	0.00	0.00	0.00
19,200.0	90.00	359.59	12,500.0	6,622.3	156.4	6,623.8	0.00	0.00	0.00
19,300.0	90.00	359.59	12,500.0	6,722.3	155.6	6,723.7	0.00	0.00	0.00
19,400.0	90.00	359.59	12,500.0	6,822.3	154.9	6,823.7	0.00	0.00	0.00
19,500.0	90.00	359.59	12,500.0	6,922.3	154.2	6,923.7	0.00	0.00	0.00
19,600.0	90.00	359.59	12,500.0	7,022.3	153.5	7,023.7	0.00	0.00	0.00
19,700.0	90.00	359.59	12,500.0	7,122.3	152.8	7,123.6	0.00	0.00	0.00
19,800.0	90.00	359.59	12,500.0	7,222.3	152.1	7,223.6	0.00	0.00	0.00
19,900.0	90.00	359.59	12,500.0	7,322.2	151.4	7,323.6	0.00	0.00	0.00
20,000.0	90.00	359.59	12,500.0	7,422.2	150.6	7,423.6	0.00	0.00	0.00
20,100.0	90.00	359.59	12,500.0	7,522.2	149.9	7,523.6	0.00	0.00	0.00
20,200.0	90.00	359.59	12,500.0	7,622.2	149.2	7,623.5	0.00	0.00	0.00
20,300.0	90.00	359.59	12,500.0	7,722.2	148.5	7,723.5	0.00	0.00	0.00
20,400.0	90.00	359.59	12,500.0	7,822.2	147.8	7,823.5	0.00	0.00	0.00
20,500.0	90.00	359.59	12,500.0	7,922.2	147.1	7,923.5	0.00	0.00	0.00
20,600.0	90.00	359.59	12,500.0	8,022.2	146.3	8,023.5	0.00	0.00	0.00
20,700.0	90.00	359.59	12,500.0	8,122.2	145.6	8,123.4	0.00	0.00	0.00
20,800.0	90.00	359.59	12,500.0	8,222.2	144.9	8,223.4	0.00	0.00	0.00
20,900.0	90.00	359.59	12,500.0	8,322.2	144.2	8,323.4	0.00	0.00	0.00
21,000.0	90.00	359.59	12,500.0	8,422.2	143.5	8,423.4	0.00	0.00	0.00
21,100.0	90.00	359.59	12,500.0	8,522.2	142.8	8,523.4	0.00	0.00	0.00
21,200.0	90.00	359.59	12,500.0	8,622.2	142.1	8,623.3	0.00	0.00	0.00
21,300.0	90.00	359.59	12,500.0	8,722.2	141.3	8,723.3	0.00	0.00	0.00
21,400.0	90.00	359.59	12,500.0	8,822.2	140.6	8,823.3	0.00	0.00	0.00
21,500.0	90.00	359.59	12,500.0	8,922.2	139.9	8,923.3	0.00	0.00	0.00
21,600.0	90.00	359.59	12,500.0	9,022.2	139.2	9,023.3	0.00	0.00	0.00
21,700.0	90.00	359.59	12,500.0	9,122.2	138.5	9,123.2	0.00	0.00	0.00
21,800.0	90.00	359.59	12,500.0	9,222.2	137.8	9,223.2	0.00	0.00	0.00
21,900.0	90.00	359.59	12,500.0	9,322.2	137.0	9,323.2	0.00	0.00	0.00
22,000.0	90.00	359.59	12,500.0	9,422.2	136.3	9,423.2	0.00	0.00	0.00
22,100.0	90.00	359.59	12,500.0	9,522.2	135.6	9,523.2	0.00	0.00	0.00
22,200.0	90.00	359.59	12,500.0	9,622.2	134.9	9,623.1	0.00	0.00	0.00
22,300.0	90.00	359.59	12,500.0	9,722.2	134.2	9,723.1	0.00	0.00	0.00
22,400.0	90.00	359.59	12,500.0	9,822.2	133.5	9,823.1	0.00	0.00	0.00
22,500.0	90.00	359.59	12,500.0	9,922.2	132.8	9,923.1	0.00	0.00	0.00
22,604.8	90.00	359.59	12,500.0	10,027.0	132.0	10,027.9	0.00	0.00	0.00

PBHL (Hearn 34 State Com #713H)



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Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #713H
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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's 34 State C - plan hits target center - Point	0.00	0.00	12,500.0	10,027.0	132.0	435,631.00	782,811.00	32° 11' 42.783 N	103° 33' 9.751 W
FTP (Hearn's 34 State C - plan misses target center by 29.8usft at 12615.6usft MD (12472.0 TVD, 41.2 N, 202.8 E) - Point	0.00	0.00	12,500.0	31.0	202.0	425,635.00	782,881.00	32° 10' 3.865 N	103° 33' 9.780 W