



Lea County, NM (NAD 83 NME)

Hearns 34 State Com #710H

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: #710H

KB = 25' @ 3507.0ust 3482.0
Northing 429889.00 Easting 781939.00 Latitude 32° 10' 3.577 N Longitude 103° 33' 20.742 W

SECTION DETAILS

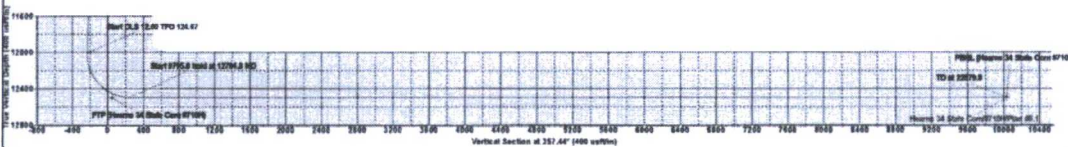
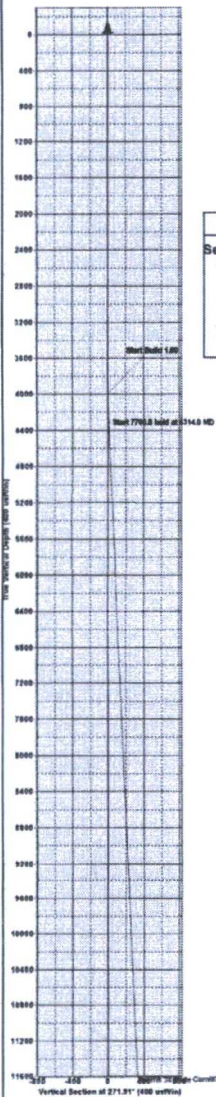
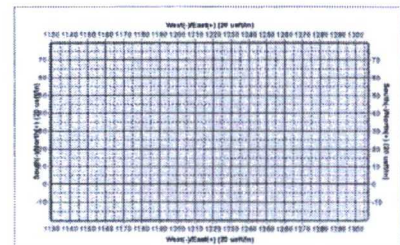
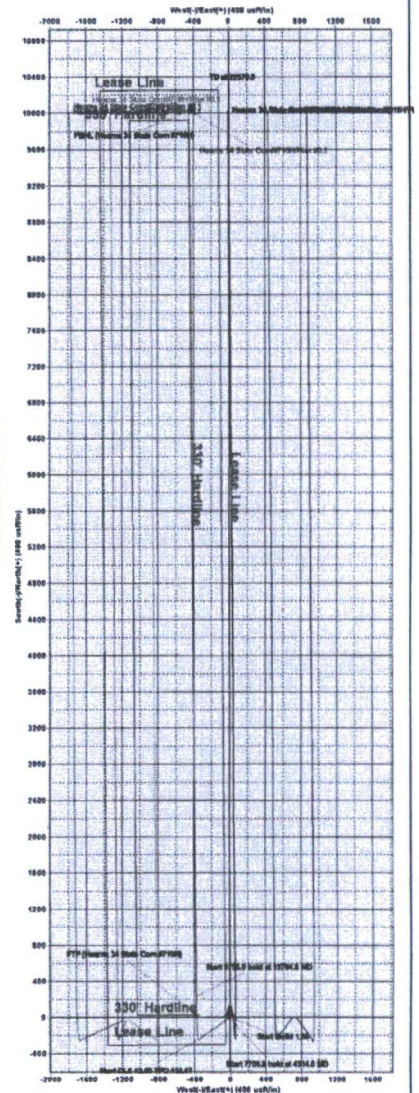
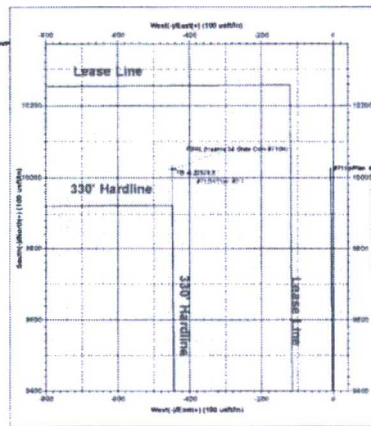
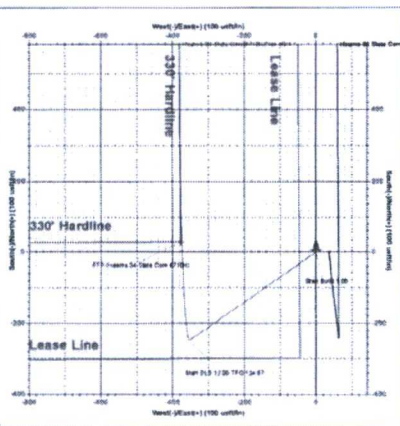
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4314.0	3.14	234.88	4313.9	-4.9	-7.0	1.00	234.88	-4.6	
4	12019.9	3.14	234.88	12008.1	-247.8	-352.3	0.00	0.00	-231.8	
5	12784.8	90.00	359.59	12500.0	229.3	-377.9	12.00	124.67	245.9	
6	22579.8	90.00	359.59	12500.0	10024.0	-448.0	0.00	0.00	10034.0	PBHL (Hearns 34 State Com #710H)

CASINGS DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
#710H (Hearns 34 State Com #710H)	12500.0	28.0	-378.9	429889.00	781939.00
PBHL (Hearns 34 State Com #710H)	12500.0	10024.0	-448.0	435823.00	781491.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State Com

#710H

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: Hearns 34 State Com
Well: #710H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
TVD Reference: KB = 25' @ 3507.0usft
MD Reference: KB = 25' @ 3507.0usft
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	#710H					
Well Position	+N/-S	31.0 usft	Northing:	425,599.00 usft	Latitude:	32° 10' 3.577 N
	+E/-W	1,194.0 usft	Easting:	781,939.00 usft	Longitude:	103° 33' 20.742 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,482.0 usft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
	IGRF2015	6/14/2017	(°)	(°)	(nT)	
			6.94	60.01	47,906.74346485	

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	357.44	

Plan Survey Tool Program	Date 6/15/2017				
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks	
(usft)	(usft)				
1	0.0	22,579.8 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		
4,314.0	3.14	234.88	4,313.9	-4.9	-7.0	1.00	1.00	0.00	234.88		
12,019.9	3.14	234.88	12,008.1	-247.8	-352.3	0.00	0.00	0.00	0.00		
12,784.8	90.00	359.59	12,500.0	229.3	-377.9	12.00	11.36	16.30	124.67		
22,579.8	90.00	359.59	12,500.0	10,024.0	-448.0	0.00	0.00	0.00	0.00	PBHL (Hearns 34 Sta	



EOG Resources, Inc.

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 Site: Hearn 34 State Com
 Well: #710H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
 TVD Reference: KB = 25' @ 3507.0usft
 MD Reference: KB = 25' @ 3507.0usft
 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	234.88	4,100.0	-0.5	-0.7	-0.5	1.00	1.00	0.00
4,200.0	2.00	234.88	4,200.0	-2.0	-2.9	-1.9	1.00	1.00	0.00
4,300.0	3.00	234.88	4,299.9	-4.5	-6.4	-4.2	1.00	1.00	0.00
4,314.0	3.14	234.88	4,313.9	-4.9	-7.0	-4.6	1.00	1.00	0.00
4,400.0	3.14	234.88	4,399.7	-7.7	-10.9	-7.2	0.00	0.00	0.00
4,500.0	3.14	234.88	4,499.6	-10.8	-15.4	-10.1	0.00	0.00	0.00
4,600.0	3.14	234.88	4,599.4	-14.0	-19.9	-13.1	0.00	0.00	0.00
4,700.0	3.14	234.88	4,699.3	-17.1	-24.3	-16.0	0.00	0.00	0.00
4,800.0	3.14	234.88	4,799.1	-20.3	-28.8	-19.0	0.00	0.00	0.00
4,900.0	3.14	234.88	4,899.0	-23.4	-33.3	-21.9	0.00	0.00	0.00
5,000.0	3.14	234.88	4,998.8	-26.6	-37.8	-24.9	0.00	0.00	0.00
5,100.0	3.14	234.88	5,098.7	-29.7	-42.3	-27.8	0.00	0.00	0.00
5,200.0	3.14	234.88	5,198.5	-32.9	-46.7	-30.8	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Project: Lea County, NM (NAD 83 NME)
 Site: Hearn 34 State Com
 Well: #710H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
 TVD Reference: KB = 25' @ 3507.0usft
 MD Reference: KB = 25' @ 3507.0usft
 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	3.14	234.88	5,298.4	-36.0	-51.2	-33.7	0.00	0.00	0.00
5,400.0	3.14	234.88	5,398.2	-39.2	-55.7	-36.6	0.00	0.00	0.00
5,500.0	3.14	234.88	5,498.1	-42.3	-60.2	-39.6	0.00	0.00	0.00
5,600.0	3.14	234.88	5,597.9	-45.5	-64.7	-42.5	0.00	0.00	0.00
5,700.0	3.14	234.88	5,697.8	-48.6	-69.1	-45.5	0.00	0.00	0.00
5,800.0	3.14	234.88	5,797.6	-51.8	-73.6	-48.4	0.00	0.00	0.00
5,900.0	3.14	234.88	5,897.5	-54.9	-78.1	-51.4	0.00	0.00	0.00
6,000.0	3.14	234.88	5,997.3	-58.1	-82.6	-54.3	0.00	0.00	0.00
6,100.0	3.14	234.88	6,097.2	-61.2	-87.1	-57.3	0.00	0.00	0.00
6,200.0	3.14	234.88	6,197.0	-64.4	-91.5	-60.2	0.00	0.00	0.00
6,300.0	3.14	234.88	6,296.9	-67.5	-96.0	-63.2	0.00	0.00	0.00
6,400.0	3.14	234.88	6,396.7	-70.7	-100.5	-66.1	0.00	0.00	0.00
6,500.0	3.14	234.88	6,496.6	-73.8	-105.0	-69.1	0.00	0.00	0.00
6,600.0	3.14	234.88	6,596.4	-77.0	-109.5	-72.0	0.00	0.00	0.00
6,700.0	3.14	234.88	6,696.3	-80.1	-113.9	-75.0	0.00	0.00	0.00
6,800.0	3.14	234.88	6,796.1	-83.3	-118.4	-77.9	0.00	0.00	0.00
6,900.0	3.14	234.88	6,896.0	-86.5	-122.9	-80.9	0.00	0.00	0.00
7,000.0	3.14	234.88	6,995.8	-89.6	-127.4	-83.8	0.00	0.00	0.00
7,100.0	3.14	234.88	7,095.7	-92.8	-131.9	-86.8	0.00	0.00	0.00
7,200.0	3.14	234.88	7,195.5	-95.9	-136.3	-89.7	0.00	0.00	0.00
7,300.0	3.14	234.88	7,295.4	-99.1	-140.8	-92.7	0.00	0.00	0.00
7,400.0	3.14	234.88	7,395.2	-102.2	-145.3	-95.6	0.00	0.00	0.00
7,500.0	3.14	234.88	7,495.1	-105.4	-149.8	-98.6	0.00	0.00	0.00
7,600.0	3.14	234.88	7,594.9	-108.5	-154.3	-101.5	0.00	0.00	0.00
7,700.0	3.14	234.88	7,694.8	-111.7	-158.8	-104.5	0.00	0.00	0.00
7,800.0	3.14	234.88	7,794.6	-114.8	-163.2	-107.4	0.00	0.00	0.00
7,900.0	3.14	234.88	7,894.5	-118.0	-167.7	-110.4	0.00	0.00	0.00
8,000.0	3.14	234.88	7,994.3	-121.1	-172.2	-113.3	0.00	0.00	0.00
8,100.0	3.14	234.88	8,094.2	-124.3	-176.7	-116.3	0.00	0.00	0.00
8,200.0	3.14	234.88	8,194.0	-127.4	-181.2	-119.2	0.00	0.00	0.00
8,300.0	3.14	234.88	8,293.9	-130.6	-185.6	-122.2	0.00	0.00	0.00
8,400.0	3.14	234.88	8,393.7	-133.7	-190.1	-125.1	0.00	0.00	0.00
8,500.0	3.14	234.88	8,493.6	-136.9	-194.6	-128.1	0.00	0.00	0.00
8,600.0	3.14	234.88	8,593.4	-140.0	-199.1	-131.0	0.00	0.00	0.00
8,700.0	3.14	234.88	8,693.3	-143.2	-203.6	-133.9	0.00	0.00	0.00
8,800.0	3.14	234.88	8,793.1	-146.3	-208.0	-136.9	0.00	0.00	0.00
8,900.0	3.14	234.88	8,893.0	-149.5	-212.5	-139.8	0.00	0.00	0.00
9,000.0	3.14	234.88	8,992.8	-152.6	-217.0	-142.8	0.00	0.00	0.00
9,100.0	3.14	234.88	9,092.7	-155.8	-221.5	-145.7	0.00	0.00	0.00
9,200.0	3.14	234.88	9,192.5	-158.9	-226.0	-148.7	0.00	0.00	0.00
9,300.0	3.14	234.88	9,292.4	-162.1	-230.4	-151.6	0.00	0.00	0.00
9,400.0	3.14	234.88	9,392.2	-165.2	-234.9	-154.6	0.00	0.00	0.00
9,500.0	3.14	234.88	9,492.1	-168.4	-239.4	-157.5	0.00	0.00	0.00
9,600.0	3.14	234.88	9,591.9	-171.5	-243.9	-160.5	0.00	0.00	0.00
9,700.0	3.14	234.88	9,691.8	-174.7	-248.4	-163.4	0.00	0.00	0.00
9,800.0	3.14	234.88	9,791.6	-177.8	-252.8	-166.4	0.00	0.00	0.00
9,900.0	3.14	234.88	9,891.5	-181.0	-257.3	-169.3	0.00	0.00	0.00
10,000.0	3.14	234.88	9,991.3	-184.2	-261.8	-172.3	0.00	0.00	0.00
10,100.0	3.14	234.88	10,091.2	-187.3	-266.3	-175.2	0.00	0.00	0.00
10,200.0	3.14	234.88	10,191.0	-190.5	-270.8	-178.2	0.00	0.00	0.00
10,300.0	3.14	234.88	10,290.9	-193.6	-275.3	-181.1	0.00	0.00	0.00
10,400.0	3.14	234.88	10,390.7	-196.8	-279.7	-184.1	0.00	0.00	0.00
10,500.0	3.14	234.88	10,490.6	-199.9	-284.2	-187.0	0.00	0.00	0.00
10,600.0	3.14	234.88	10,590.4	-203.1	-288.7	-190.0	0.00	0.00	0.00



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10,700.0	3.14	234.88	10,690.3	-206.2	-293.2	-192.9	0.00	0.00	0.00
10,800.0	3.14	234.88	10,790.1	-209.4	-297.7	-195.9	0.00	0.00	0.00
10,900.0	3.14	234.88	10,890.0	-212.5	-302.1	-198.8	0.00	0.00	0.00
11,000.0	3.14	234.88	10,989.8	-215.7	-306.6	-201.8	0.00	0.00	0.00
11,100.0	3.14	234.88	11,089.7	-218.8	-311.1	-204.7	0.00	0.00	0.00
11,200.0	3.14	234.88	11,189.5	-222.0	-315.6	-207.7	0.00	0.00	0.00
11,300.0	3.14	234.88	11,289.4	-225.1	-320.1	-210.6	0.00	0.00	0.00
11,400.0	3.14	234.88	11,389.2	-228.3	-324.5	-213.6	0.00	0.00	0.00
11,500.0	3.14	234.88	11,489.1	-231.4	-329.0	-216.5	0.00	0.00	0.00
11,600.0	3.14	234.88	11,588.9	-234.6	-333.5	-219.5	0.00	0.00	0.00
11,700.0	3.14	234.88	11,688.8	-237.7	-338.0	-222.4	0.00	0.00	0.00
11,800.0	3.14	234.88	11,788.6	-240.9	-342.5	-225.4	0.00	0.00	0.00
11,900.0	3.14	234.88	11,888.5	-244.0	-346.9	-228.3	0.00	0.00	0.00
12,000.0	3.14	234.88	11,988.3	-247.2	-351.4	-231.2	0.00	0.00	0.00
12,019.9	3.14	234.88	12,008.1	-247.8	-352.3	-231.8	0.00	0.00	0.00
12,025.0	2.84	245.17	12,013.3	-247.9	-352.5	-232.0	12.00	-5.94	200.57
12,050.0	3.16	304.90	12,038.2	-247.8	-353.7	-231.8	12.00	1.31	238.94
12,075.0	5.47	331.52	12,063.2	-246.4	-354.8	-230.3	12.00	9.24	106.44
12,100.0	8.24	341.45	12,088.0	-243.6	-355.9	-227.5	12.00	11.07	39.72
12,125.0	11.13	346.34	12,112.6	-239.6	-357.1	-223.4	12.00	11.55	19.56
12,150.0	14.06	349.22	12,137.0	-234.2	-358.2	-218.0	12.00	11.74	11.53
12,175.0	17.02	351.12	12,161.1	-227.6	-359.4	-211.4	12.00	11.83	7.60
12,200.0	19.99	352.47	12,184.8	-219.8	-360.5	-203.5	12.00	11.88	5.40
12,225.0	22.97	353.48	12,208.1	-210.7	-361.6	-194.4	12.00	11.91	4.05
12,250.0	25.95	354.27	12,230.8	-200.4	-362.7	-184.0	12.00	11.93	3.17
12,275.0	28.93	354.91	12,253.0	-189.0	-363.8	-172.5	12.00	11.94	2.55
12,300.0	31.92	355.44	12,274.6	-176.3	-364.8	-159.9	12.00	11.95	2.11
12,325.0	34.91	355.88	12,295.4	-162.6	-365.9	-146.1	12.00	11.96	1.79
12,350.0	37.90	356.27	12,315.5	-147.8	-366.9	-131.3	12.00	11.97	1.54
12,375.0	40.90	356.61	12,334.9	-132.0	-367.9	-115.4	12.00	11.97	1.34
12,400.0	43.89	356.90	12,353.3	-115.1	-368.8	-98.6	12.00	11.97	1.19
12,425.0	46.88	357.17	12,370.9	-97.4	-369.7	-80.8	12.00	11.98	1.07
12,450.0	49.88	357.41	12,387.5	-78.7	-370.6	-62.1	12.00	11.98	0.97
12,475.0	52.87	357.63	12,403.1	-59.2	-371.5	-42.6	12.00	11.98	0.89
12,500.0	55.87	357.84	12,417.7	-38.9	-372.3	-22.2	12.00	11.98	0.82
12,525.0	58.86	358.03	12,431.1	-17.9	-373.0	-1.2	12.00	11.98	0.76
12,550.0	61.86	358.21	12,443.5	3.9	-373.7	20.5	12.00	11.98	0.72
12,575.0	64.86	358.38	12,454.7	26.2	-374.4	42.9	12.00	11.98	0.68
12,594.9	67.24	358.51	12,462.8	44.4	-374.9	61.1	12.00	11.99	0.65
FTP (Hearn's 34 State Com #710H)									
12,600.0	67.85	358.54	12,464.7	49.1	-375.0	65.8	12.00	11.99	0.63
12,625.0	70.85	358.69	12,473.5	72.5	-375.6	89.2	12.00	11.99	0.62
12,650.0	73.84	358.84	12,481.1	96.3	-376.1	113.0	12.00	11.99	0.60
12,675.0	76.84	358.99	12,487.5	120.5	-376.6	137.1	12.00	11.99	0.58
12,700.0	79.84	359.13	12,492.5	144.9	-377.0	161.6	12.00	11.99	0.56
12,725.0	82.84	359.27	12,496.3	169.6	-377.3	186.3	12.00	11.99	0.55
12,750.0	85.83	359.40	12,498.7	194.5	-377.6	211.2	12.00	11.99	0.55
12,775.0	88.83	359.54	12,499.9	219.5	-377.8	236.1	12.00	11.99	0.54
12,784.8	90.00	359.59	12,500.0	229.3	-377.9	245.9	12.00	11.99	0.54
12,800.0	90.00	359.59	12,500.0	244.5	-378.0	261.1	0.00	0.00	0.00
12,900.0	90.00	359.59	12,500.0	344.5	-378.7	361.0	0.00	0.00	0.00
13,000.0	90.00	359.59	12,500.0	444.5	-379.4	461.0	0.00	0.00	0.00
13,100.0	90.00	359.59	12,500.0	544.5	-380.2	560.9	0.00	0.00	0.00



EOG Resources, Inc.

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Project: Lea County, NM (NAD 83 NME)
Site: Hearn 34 State Com
Well: #710H
Wellbore: OH
Design: Plan #0.1

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

Well #710H
 KB = 25' @ 3507.0usft
 KB = 25' @ 3507.0usft
 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	644.5	-380.9	660.8	0.00	0.00	0.00
13,300.0	90.00	359.59	12,500.0	744.5	-381.6	760.8	0.00	0.00	0.00
13,400.0	90.00	359.59	12,500.0	844.5	-382.3	860.7	0.00	0.00	0.00
13,500.0	90.00	359.59	12,500.0	944.5	-383.0	960.6	0.00	0.00	0.00
13,600.0	90.00	359.59	12,500.0	1,044.5	-383.7	1,060.6	0.00	0.00	0.00
13,700.0	90.00	359.59	12,500.0	1,144.5	-384.5	1,160.5	0.00	0.00	0.00
13,800.0	90.00	359.59	12,500.0	1,244.5	-385.2	1,260.4	0.00	0.00	0.00
13,900.0	90.00	359.59	12,500.0	1,344.5	-385.9	1,360.3	0.00	0.00	0.00
14,000.0	90.00	359.59	12,500.0	1,444.5	-386.6	1,460.3	0.00	0.00	0.00
14,100.0	90.00	359.59	12,500.0	1,544.5	-387.3	1,560.2	0.00	0.00	0.00
14,200.0	90.00	359.59	12,500.0	1,644.4	-388.0	1,660.1	0.00	0.00	0.00
14,300.0	90.00	359.59	12,500.0	1,744.4	-388.8	1,760.1	0.00	0.00	0.00
14,400.0	90.00	359.59	12,500.0	1,844.4	-389.5	1,860.0	0.00	0.00	0.00
14,500.0	90.00	359.59	12,500.0	1,944.4	-390.2	1,959.9	0.00	0.00	0.00
14,600.0	90.00	359.59	12,500.0	2,044.4	-390.9	2,059.9	0.00	0.00	0.00
14,700.0	90.00	359.59	12,500.0	2,144.4	-391.6	2,159.8	0.00	0.00	0.00
14,800.0	90.00	359.59	12,500.0	2,244.4	-392.3	2,259.7	0.00	0.00	0.00
14,900.0	90.00	359.59	12,500.0	2,344.4	-393.0	2,359.6	0.00	0.00	0.00
15,000.0	90.00	359.59	12,500.0	2,444.4	-393.8	2,459.6	0.00	0.00	0.00
15,100.0	90.00	359.59	12,500.0	2,544.4	-394.5	2,559.5	0.00	0.00	0.00
15,200.0	90.00	359.59	12,500.0	2,644.4	-395.2	2,659.4	0.00	0.00	0.00
15,300.0	90.00	359.59	12,500.0	2,744.4	-395.9	2,759.4	0.00	0.00	0.00
15,400.0	90.00	359.59	12,500.0	2,844.4	-396.6	2,859.3	0.00	0.00	0.00
15,500.0	90.00	359.59	12,500.0	2,944.4	-397.3	2,959.2	0.00	0.00	0.00
15,600.0	90.00	359.59	12,500.0	3,044.4	-398.1	3,059.1	0.00	0.00	0.00
15,700.0	90.00	359.59	12,500.0	3,144.4	-398.8	3,159.1	0.00	0.00	0.00
15,800.0	90.00	359.59	12,500.0	3,244.4	-399.5	3,259.0	0.00	0.00	0.00
15,900.0	90.00	359.59	12,500.0	3,344.4	-400.2	3,358.9	0.00	0.00	0.00
16,000.0	90.00	359.59	12,500.0	3,444.4	-400.9	3,458.9	0.00	0.00	0.00
16,100.0	90.00	359.59	12,500.0	3,544.4	-401.6	3,558.8	0.00	0.00	0.00
16,200.0	90.00	359.59	12,500.0	3,644.4	-402.3	3,658.7	0.00	0.00	0.00
16,300.0	90.00	359.59	12,500.0	3,744.4	-403.1	3,758.7	0.00	0.00	0.00
16,400.0	90.00	359.59	12,500.0	3,844.4	-403.8	3,858.6	0.00	0.00	0.00
16,500.0	90.00	359.59	12,500.0	3,944.4	-404.5	3,958.5	0.00	0.00	0.00
16,600.0	90.00	359.59	12,500.0	4,044.4	-405.2	4,058.4	0.00	0.00	0.00
16,700.0	90.00	359.59	12,500.0	4,144.4	-405.9	4,158.4	0.00	0.00	0.00
16,800.0	90.00	359.59	12,500.0	4,244.4	-406.6	4,258.3	0.00	0.00	0.00
16,900.0	90.00	359.59	12,500.0	4,344.4	-407.4	4,358.2	0.00	0.00	0.00
17,000.0	90.00	359.59	12,500.0	4,444.4	-408.1	4,458.2	0.00	0.00	0.00
17,100.0	90.00	359.59	12,500.0	4,544.4	-408.8	4,558.1	0.00	0.00	0.00
17,200.0	90.00	359.59	12,500.0	4,644.4	-409.5	4,658.0	0.00	0.00	0.00
17,300.0	90.00	359.59	12,500.0	4,744.4	-410.2	4,758.0	0.00	0.00	0.00
17,400.0	90.00	359.59	12,500.0	4,844.4	-410.9	4,857.9	0.00	0.00	0.00
17,500.0	90.00	359.59	12,500.0	4,944.4	-411.7	4,957.8	0.00	0.00	0.00
17,600.0	90.00	359.59	12,500.0	5,044.4	-412.4	5,057.7	0.00	0.00	0.00
17,700.0	90.00	359.59	12,500.0	5,144.4	-413.1	5,157.7	0.00	0.00	0.00
17,800.0	90.00	359.59	12,500.0	5,244.4	-413.8	5,257.6	0.00	0.00	0.00
17,900.0	90.00	359.59	12,500.0	5,344.4	-414.5	5,357.5	0.00	0.00	0.00
18,000.0	90.00	359.59	12,500.0	5,444.4	-415.2	5,457.5	0.00	0.00	0.00
18,100.0	90.00	359.59	12,500.0	5,544.3	-415.9	5,557.4	0.00	0.00	0.00
18,200.0	90.00	359.59	12,500.0	5,644.3	-416.7	5,657.3	0.00	0.00	0.00
18,300.0	90.00	359.59	12,500.0	5,744.3	-417.4	5,757.3	0.00	0.00	0.00
18,400.0	90.00	359.59	12,500.0	5,844.3	-418.1	5,857.2	0.00	0.00	0.00
18,500.0	90.00	359.59	12,500.0	5,944.3	-418.8	5,957.1	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Site: Hearn 34 State Com
 Well: #710H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
 TVD Reference: KB = 25' @ 3507.0usft
 MD Reference: KB = 25' @ 3507.0usft
 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)
18,600.0	90.00	359.59	12,500.0	6,044.3	-419.5	6,057.0	0.00	0.00	0.00
18,700.0	90.00	359.59	12,500.0	6,144.3	-420.2	6,157.0	0.00	0.00	0.00
18,800.0	90.00	359.59	12,500.0	6,244.3	-421.0	6,256.9	0.00	0.00	0.00
18,900.0	90.00	359.59	12,500.0	6,344.3	-421.7	6,356.8	0.00	0.00	0.00
19,000.0	90.00	359.59	12,500.0	6,444.3	-422.4	6,456.8	0.00	0.00	0.00
19,100.0	90.00	359.59	12,500.0	6,544.3	-423.1	6,556.7	0.00	0.00	0.00
19,200.0	90.00	359.59	12,500.0	6,644.3	-423.8	6,656.6	0.00	0.00	0.00
19,300.0	90.00	359.59	12,500.0	6,744.3	-424.5	6,756.5	0.00	0.00	0.00
19,400.0	90.00	359.59	12,500.0	6,844.3	-425.2	6,856.5	0.00	0.00	0.00
19,500.0	90.00	359.59	12,500.0	6,944.3	-426.0	6,956.4	0.00	0.00	0.00
19,600.0	90.00	359.59	12,500.0	7,044.3	-426.7	7,056.3	0.00	0.00	0.00
19,700.0	90.00	359.59	12,500.0	7,144.3	-427.4	7,156.3	0.00	0.00	0.00
19,800.0	90.00	359.59	12,500.0	7,244.3	-428.1	7,256.2	0.00	0.00	0.00
19,900.0	90.00	359.59	12,500.0	7,344.3	-428.8	7,356.1	0.00	0.00	0.00
20,000.0	90.00	359.59	12,500.0	7,444.3	-429.5	7,456.1	0.00	0.00	0.00
20,100.0	90.00	359.59	12,500.0	7,544.3	-430.3	7,556.0	0.00	0.00	0.00
20,200.0	90.00	359.59	12,500.0	7,644.3	-431.0	7,655.9	0.00	0.00	0.00
20,300.0	90.00	359.59	12,500.0	7,744.3	-431.7	7,755.8	0.00	0.00	0.00
20,400.0	90.00	359.59	12,500.0	7,844.3	-432.4	7,855.8	0.00	0.00	0.00
20,500.0	90.00	359.59	12,500.0	7,944.3	-433.1	7,955.7	0.00	0.00	0.00
20,600.0	90.00	359.59	12,500.0	8,044.3	-433.8	8,055.6	0.00	0.00	0.00
20,700.0	90.00	359.59	12,500.0	8,144.3	-434.5	8,155.6	0.00	0.00	0.00
20,800.0	90.00	359.59	12,500.0	8,244.3	-435.3	8,255.5	0.00	0.00	0.00
20,900.0	90.00	359.59	12,500.0	8,344.3	-436.0	8,355.4	0.00	0.00	0.00
21,000.0	90.00	359.59	12,500.0	8,444.3	-436.7	8,455.4	0.00	0.00	0.00
21,100.0	90.00	359.59	12,500.0	8,544.3	-437.4	8,555.3	0.00	0.00	0.00
21,200.0	90.00	359.59	12,500.0	8,644.3	-438.1	8,655.2	0.00	0.00	0.00
21,300.0	90.00	359.59	12,500.0	8,744.3	-438.8	8,755.1	0.00	0.00	0.00
21,400.0	90.00	359.59	12,500.0	8,844.3	-439.6	8,855.1	0.00	0.00	0.00
21,500.0	90.00	359.59	12,500.0	8,944.3	-440.3	8,955.0	0.00	0.00	0.00
21,600.0	90.00	359.59	12,500.0	9,044.3	-441.0	9,054.9	0.00	0.00	0.00
21,700.0	90.00	359.59	12,500.0	9,144.3	-441.7	9,154.9	0.00	0.00	0.00
21,800.0	90.00	359.59	12,500.0	9,244.3	-442.4	9,254.8	0.00	0.00	0.00
21,900.0	90.00	359.59	12,500.0	9,344.3	-443.1	9,354.7	0.00	0.00	0.00
22,000.0	90.00	359.59	12,500.0	9,444.2	-443.9	9,454.6	0.00	0.00	0.00
22,100.0	90.00	359.59	12,500.0	9,544.2	-444.6	9,554.6	0.00	0.00	0.00
22,200.0	90.00	359.59	12,500.0	9,644.2	-445.3	9,654.5	0.00	0.00	0.00
22,300.0	90.00	359.59	12,500.0	9,744.2	-446.0	9,754.4	0.00	0.00	0.00
22,400.0	90.00	359.59	12,500.0	9,844.2	-446.7	9,854.4	0.00	0.00	0.00
22,500.0	90.00	359.59	12,500.0	9,944.2	-447.4	9,954.3	0.00	0.00	0.00
22,579.8	90.00	359.59	12,500.0	10,024.0	-448.0	10,034.0	0.00	0.00	0.00

PBHL (Hearn 34 State Com #710H)



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Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
TVD Reference: KB = 25' @ 3507.0usft
MD Reference: KB = 25' @ 3507.0usft
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
PBHL (Hearn 34 State - plan hits target center - Point	0.00	0.00	12,500.0	10,024.0	-448.0	435,623.00	781,491.00	32° 11' 42.798 N	103° 33' 25.112 W
FTP (Hearn 34 State C - plan misses target center by 40.8usft at 12594.9usft MD (12462.8 TVD, 44.4 N, -374.9 E) - Point	0.00	0.00	12,500.0	28.0	-378.0	425,627.00	781,561.00	32° 10' 3.881 N	103° 33' 25.137 W