

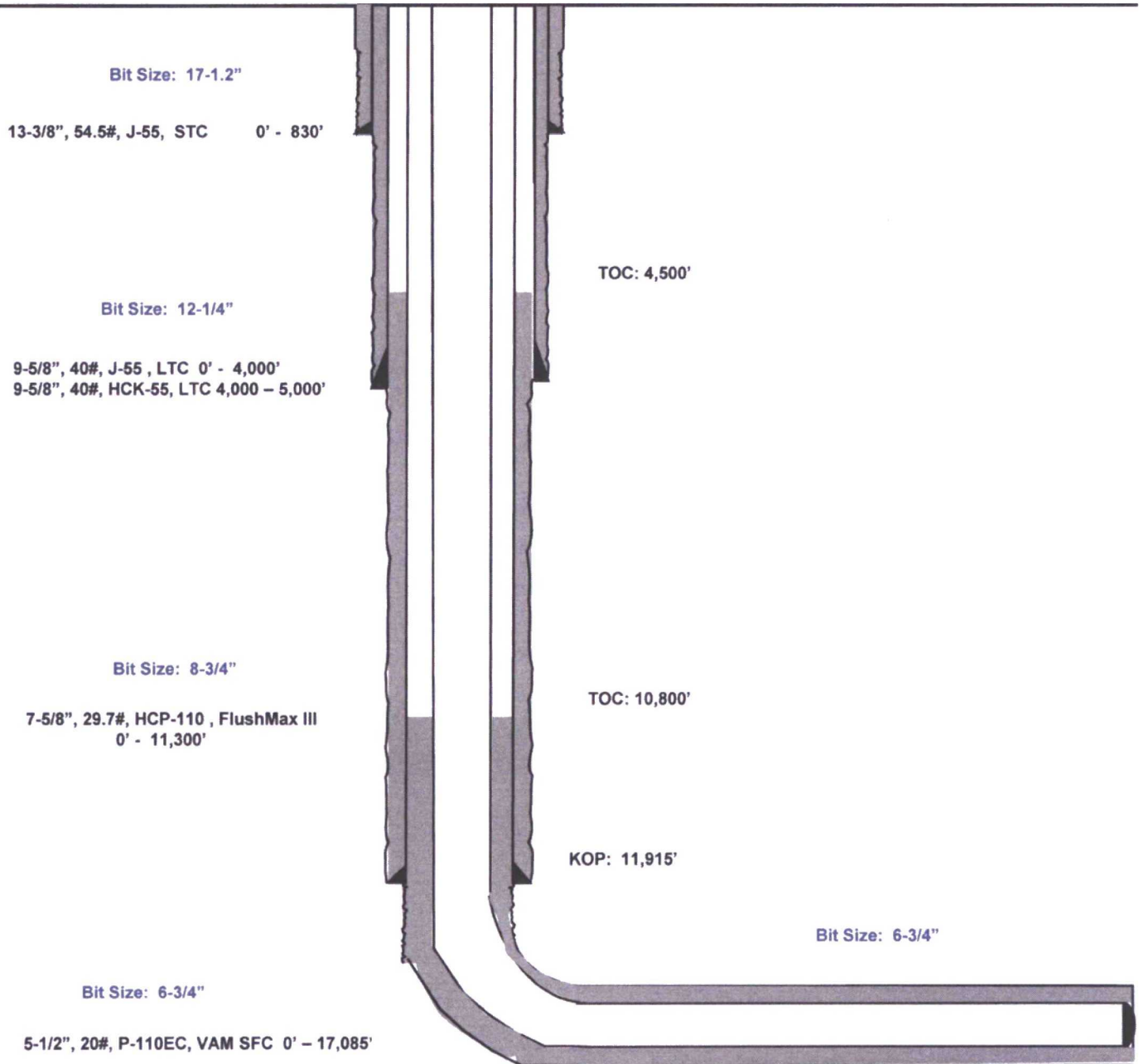
Barlow 34 Fed Com #704Y

**Lea County, New Mexico
Proposed Wellbore**

**300' FSL
1633' FWL
Section 34
T-26-S, R-33-E**

API: 30-025-*****

**KB: 3,304'
GL: 3,279'**



Lateral: 17,085' MD, 12,400' TVD
Upper Most Perf:
330' FSL & 1382' FWL Sec. 34
Lower Most Perf:
2322' FSL & 1377' FWL Sec. 27
BH Location: 2422' FSL & 1376' FWL
Section 27
T-26-S, R-33-E



Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com #704Y

H&P 610

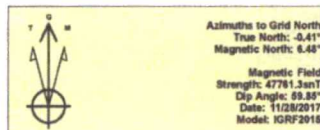
Plan #0.1

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: #704Y

KB = 35 @ 3304.0usft (H&P 610) 3279.0
Northing 364982.00 Easting 779995.00 Latitude 32° 0' 3.857" N Longitude 103° 33' 48.461" W



To convert a Magnetic Direction to a Grid Direction, Add 6.48°
To convert a Magnetic Direction to a True Direction, Add 5.86° East
To convert a True Direction to a Grid Direction, Subtract 5.41°

SECTION DETAILS

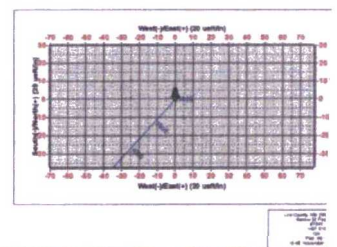
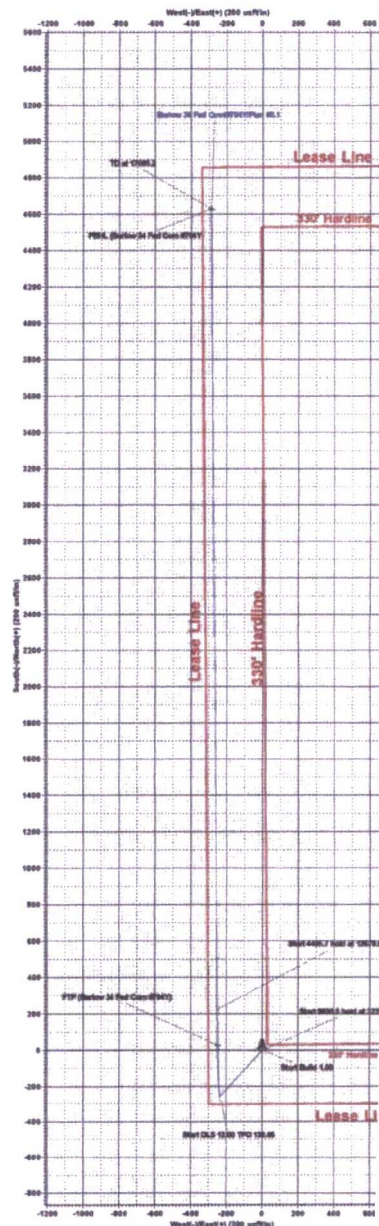
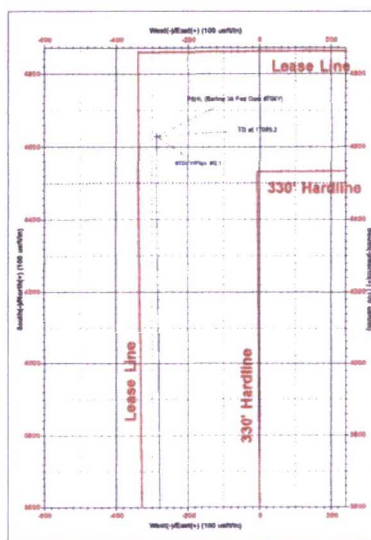
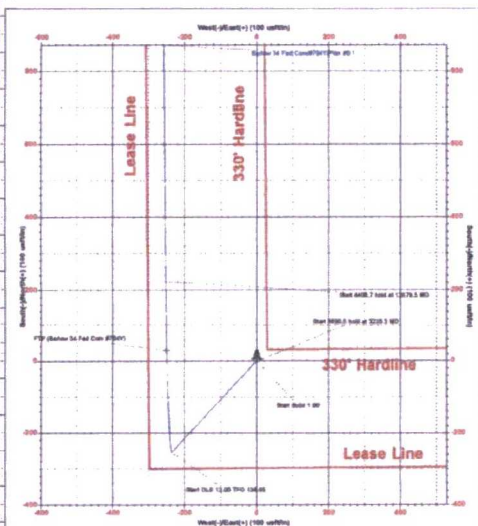
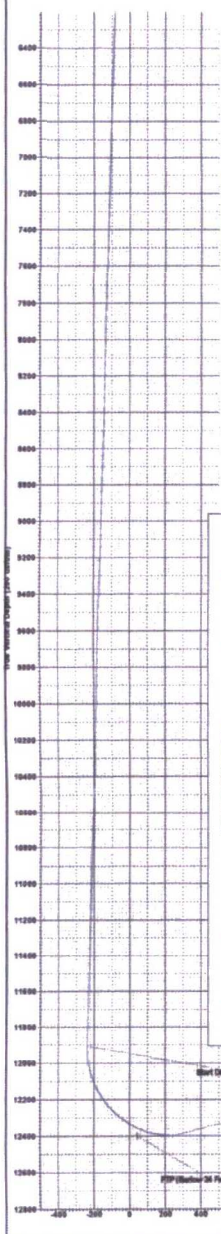
Sec	MD	Inc	Act	TVD	+N-S	+E-W	Drag	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0		
3	3225.0	2.35	322.87	3225.3	-3.2	-0.0	1.00	322.87	-3.1		
4	11918.8	2.35	222.87	11909.1	-293.7	-295.6	0.00	0.00	-238.6		
5	12879.5	90.00	389.54	13400.0	223.4	-292.8	12.00	126.65	238.7		
6	17085.2	90.00	389.54	13400.0	4629.0	-298.9	0.00	0.00	4639.0		PBHL (Barlow 34 Fed Com #704Y)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL (Barlow 34 Fed Com #704Y)	12400.0	4629.0	-288.0	369811.90	779701.00
FTP (Barlow 34 Fed Com #704Y)	13400.0	28.0	-281.0	369610.90	779739.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com

#704Y

OH

Plan: Plan #0.1

Standard Planning Report

28 November, 2017



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3304.0usft (H&P 610)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3304.0usft (H&P 610)
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#704Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Barlow 34 Fed Com			
Site Position:		Northing:	364,974.00 usft	Latitude: 32° 0' 3.879 N
From:	Map	Easting:	778,981.00 usft	Longitude: 103° 34' 0.167 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.41 °

Well	#704Y			
Well Position	+N/-S	8.0 usft	Northing: 364,982.00 usft	Latitude: 32° 0' 3.887 N
	+E/-W	1,008.0 usft	Easting: 779,989.00 usft	Longitude: 103° 33' 48.461 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level: 3,279.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/28/2017	6.89	59.85	47,761.30879197

Design	Plan #0.1			
Audit Notes:				
Version:		Phase: PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	356.44

Plan Survey Tool Program	Date 11/28/2017			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,085.2 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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,225.3	2.25	222.87	3,225.3	-3.2	-3.0	1.00	1.00	0.00	222.87	
11,915.8	2.25	222.87	11,909.1	-253.7	-235.5	0.00	0.00	0.00	0.00	
12,679.5	90.00	359.54	12,400.0	223.4	-252.6	12.00	11.49	17.90	136.65	
17,085.2	90.00	359.54	12,400.0	4,629.0	-288.0	0.00	0.00	0.00	0.00	PBHL (Barlow 34 Fed



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Barlow 34 Fed Com
 Well: #704Y
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704Y
 TVD Reference: KB = 25 @ 3304.0usft (H&P 610)
 MD Reference: KB = 25 @ 3304.0usft (H&P 610)
 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	1.00	222.87	3,100.0	-0.6	-0.6	-0.6	1.00	1.00	0.00
3,200.0	2.00	222.87	3,200.0	-2.6	-2.4	-2.4	1.00	1.00	0.00
3,225.3	2.25	222.87	3,225.3	-3.2	-3.0	-3.1	1.00	1.00	0.00
3,300.0	2.25	222.87	3,299.9	-5.4	-5.0	-5.1	0.00	0.00	0.00
3,400.0	2.25	222.87	3,399.8	-8.3	-7.7	-7.8	0.00	0.00	0.00
3,500.0	2.25	222.87	3,499.7	-11.2	-10.4	-10.5	0.00	0.00	0.00
3,600.0	2.25	222.87	3,599.7	-14.0	-13.0	-13.2	0.00	0.00	0.00
3,700.0	2.25	222.87	3,699.6	-16.9	-15.7	-15.9	0.00	0.00	0.00
3,800.0	2.25	222.87	3,799.5	-19.8	-18.4	-18.6	0.00	0.00	0.00
3,900.0	2.25	222.87	3,899.4	-22.7	-21.1	-21.3	0.00	0.00	0.00
4,000.0	2.25	222.87	3,999.3	-25.6	-23.7	-24.0	0.00	0.00	0.00
4,100.0	2.25	222.87	4,099.3	-28.5	-26.4	-26.8	0.00	0.00	0.00
4,200.0	2.25	222.87	4,199.2	-31.3	-29.1	-29.5	0.00	0.00	0.00
4,300.0	2.25	222.87	4,299.1	-34.2	-31.8	-32.2	0.00	0.00	0.00
4,400.0	2.25	222.87	4,399.0	-37.1	-34.4	-34.9	0.00	0.00	0.00
4,500.0	2.25	222.87	4,499.0	-40.0	-37.1	-37.6	0.00	0.00	0.00
4,600.0	2.25	222.87	4,598.9	-42.9	-39.8	-40.3	0.00	0.00	0.00
4,700.0	2.25	222.87	4,698.8	-45.7	-42.5	-43.0	0.00	0.00	0.00
4,800.0	2.25	222.87	4,798.7	-48.6	-45.1	-45.7	0.00	0.00	0.00
4,900.0	2.25	222.87	4,898.6	-51.5	-47.8	-48.4	0.00	0.00	0.00
5,000.0	2.25	222.87	4,998.6	-54.4	-50.5	-51.2	0.00	0.00	0.00
5,100.0	2.25	222.87	5,098.5	-57.3	-53.2	-53.9	0.00	0.00	0.00
5,200.0	2.25	222.87	5,198.4	-60.2	-55.8	-56.6	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Barlow 34 Fed Com
Well: #704Y
Wellbore: OH
Design: Plan #0.1

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

Well #704Y
KB = 25 @ 3304.0usft (H&P 610)
KB = 25 @ 3304.0usft (H&P 610)
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)
5,300.0	2.25	222.87	5,298.3	-63.0	-58.5	-59.3	0.00	0.00	0.00
5,400.0	2.25	222.87	5,398.3	-65.9	-61.2	-62.0	0.00	0.00	0.00
5,500.0	2.25	222.87	5,498.2	-68.8	-63.9	-64.7	0.00	0.00	0.00
5,600.0	2.25	222.87	5,598.1	-71.7	-66.5	-67.4	0.00	0.00	0.00
5,700.0	2.25	222.87	5,698.0	-74.6	-69.2	-70.1	0.00	0.00	0.00
5,800.0	2.25	222.87	5,798.0	-77.4	-71.9	-72.8	0.00	0.00	0.00
5,900.0	2.25	222.87	5,897.9	-80.3	-74.6	-75.5	0.00	0.00	0.00
6,000.0	2.25	222.87	5,997.8	-83.2	-77.2	-78.3	0.00	0.00	0.00
6,100.0	2.25	222.87	6,097.7	-86.1	-79.9	-81.0	0.00	0.00	0.00
6,200.0	2.25	222.87	6,197.6	-89.0	-82.6	-83.7	0.00	0.00	0.00
6,300.0	2.25	222.87	6,297.6	-91.9	-85.3	-86.4	0.00	0.00	0.00
6,400.0	2.25	222.87	6,397.5	-94.7	-87.9	-89.1	0.00	0.00	0.00
6,500.0	2.25	222.87	6,497.4	-97.6	-90.6	-91.8	0.00	0.00	0.00
6,600.0	2.25	222.87	6,597.3	-100.5	-93.3	-94.5	0.00	0.00	0.00
6,700.0	2.25	222.87	6,697.3	-103.4	-96.0	-97.2	0.00	0.00	0.00
6,800.0	2.25	222.87	6,797.2	-106.3	-98.6	-99.9	0.00	0.00	0.00
6,900.0	2.25	222.87	6,897.1	-109.2	-101.3	-102.6	0.00	0.00	0.00
7,000.0	2.25	222.87	6,997.0	-112.0	-104.0	-105.4	0.00	0.00	0.00
7,100.0	2.25	222.87	7,096.9	-114.9	-106.7	-108.1	0.00	0.00	0.00
7,200.0	2.25	222.87	7,196.9	-117.8	-109.3	-110.8	0.00	0.00	0.00
7,300.0	2.25	222.87	7,296.8	-120.7	-112.0	-113.5	0.00	0.00	0.00
7,400.0	2.25	222.87	7,396.7	-123.6	-114.7	-116.2	0.00	0.00	0.00
7,500.0	2.25	222.87	7,496.6	-126.4	-117.4	-118.9	0.00	0.00	0.00
7,600.0	2.25	222.87	7,596.6	-129.3	-120.0	-121.6	0.00	0.00	0.00
7,700.0	2.25	222.87	7,696.5	-132.2	-122.7	-124.3	0.00	0.00	0.00
7,800.0	2.25	222.87	7,796.4	-135.1	-125.4	-127.0	0.00	0.00	0.00
7,900.0	2.25	222.87	7,896.3	-138.0	-128.1	-129.8	0.00	0.00	0.00
8,000.0	2.25	222.87	7,996.2	-140.9	-130.7	-132.5	0.00	0.00	0.00
8,100.0	2.25	222.87	8,096.2	-143.7	-133.4	-135.2	0.00	0.00	0.00
8,200.0	2.25	222.87	8,196.1	-146.6	-136.1	-137.9	0.00	0.00	0.00
8,300.0	2.25	222.87	8,296.0	-149.5	-138.8	-140.6	0.00	0.00	0.00
8,400.0	2.25	222.87	8,395.9	-152.4	-141.4	-143.3	0.00	0.00	0.00
8,500.0	2.25	222.87	8,495.9	-155.3	-144.1	-146.0	0.00	0.00	0.00
8,600.0	2.25	222.87	8,595.8	-158.1	-146.8	-148.7	0.00	0.00	0.00
8,700.0	2.25	222.87	8,695.7	-161.0	-149.5	-151.4	0.00	0.00	0.00
8,800.0	2.25	222.87	8,795.6	-163.9	-152.1	-154.1	0.00	0.00	0.00
8,900.0	2.25	222.87	8,895.6	-166.8	-154.8	-156.9	0.00	0.00	0.00
9,000.0	2.25	222.87	8,995.5	-169.7	-157.5	-159.6	0.00	0.00	0.00
9,100.0	2.25	222.87	9,095.4	-172.6	-160.2	-162.3	0.00	0.00	0.00
9,200.0	2.25	222.87	9,195.3	-175.4	-162.8	-165.0	0.00	0.00	0.00
9,300.0	2.25	222.87	9,295.2	-178.3	-165.5	-167.7	0.00	0.00	0.00
9,400.0	2.25	222.87	9,395.2	-181.2	-168.2	-170.4	0.00	0.00	0.00
9,500.0	2.25	222.87	9,495.1	-184.1	-170.9	-173.1	0.00	0.00	0.00
9,600.0	2.25	222.87	9,595.0	-187.0	-173.5	-175.8	0.00	0.00	0.00
9,700.0	2.25	222.87	9,694.9	-189.8	-176.2	-178.5	0.00	0.00	0.00
9,800.0	2.25	222.87	9,794.9	-192.7	-178.9	-181.2	0.00	0.00	0.00
9,900.0	2.25	222.87	9,894.8	-195.6	-181.6	-184.0	0.00	0.00	0.00
10,000.0	2.25	222.87	9,994.7	-198.5	-184.2	-186.7	0.00	0.00	0.00
10,100.0	2.25	222.87	10,094.6	-201.4	-186.9	-189.4	0.00	0.00	0.00
10,200.0	2.25	222.87	10,194.5	-204.3	-189.6	-192.1	0.00	0.00	0.00
10,300.0	2.25	222.87	10,294.5	-207.1	-192.3	-194.8	0.00	0.00	0.00
10,400.0	2.25	222.87	10,394.4	-210.0	-194.9	-197.5	0.00	0.00	0.00
10,500.0	2.25	222.87	10,494.3	-212.9	-197.6	-200.2	0.00	0.00	0.00
10,600.0	2.25	222.87	10,594.2	-215.8	-200.3	-202.9	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3304.0usft (H&P 610)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3304.0usft (H&P 610)
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#704Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
10,700.0	2.25	222.87	10,694.2	-218.7	-203.0	-205.6	0.00	0.00	0.00
10,800.0	2.25	222.87	10,794.1	-221.5	-205.6	-208.4	0.00	0.00	0.00
10,900.0	2.25	222.87	10,894.0	-224.4	-208.3	-211.1	0.00	0.00	0.00
11,000.0	2.25	222.87	10,993.9	-227.3	-211.0	-213.8	0.00	0.00	0.00
11,100.0	2.25	222.87	11,093.9	-230.2	-213.7	-216.5	0.00	0.00	0.00
11,200.0	2.25	222.87	11,193.8	-233.1	-216.3	-219.2	0.00	0.00	0.00
11,300.0	2.25	222.87	11,293.7	-236.0	-219.0	-221.9	0.00	0.00	0.00
11,400.0	2.25	222.87	11,393.6	-238.8	-221.7	-224.6	0.00	0.00	0.00
11,500.0	2.25	222.87	11,493.5	-241.7	-224.4	-227.3	0.00	0.00	0.00
11,600.0	2.25	222.87	11,593.5	-244.6	-227.0	-230.0	0.00	0.00	0.00
11,700.0	2.25	222.87	11,693.4	-247.5	-229.7	-232.7	0.00	0.00	0.00
11,800.0	2.25	222.87	11,793.3	-250.4	-232.4	-235.5	0.00	0.00	0.00
11,900.0	2.25	222.87	11,893.2	-253.2	-235.1	-238.2	0.00	0.00	0.00
11,915.8	2.25	222.87	11,909.1	-253.7	-235.5	-238.6	0.00	0.00	0.00
11,925.0	1.64	250.31	11,918.2	-253.9	-235.7	-238.8	12.00	-6.72	299.48
11,950.0	2.91	327.41	11,943.2	-253.5	-236.4	-238.3	12.00	5.07	308.38
11,975.0	5.67	343.77	11,968.1	-251.7	-237.1	-236.5	12.00	11.07	65.47
12,000.0	8.60	349.25	11,992.9	-248.7	-237.8	-233.5	12.00	11.70	21.93
12,025.0	11.56	351.96	12,017.5	-244.4	-238.5	-229.1	12.00	11.85	10.81
12,050.0	14.54	353.56	12,041.9	-238.8	-239.2	-223.5	12.00	11.91	6.43
12,075.0	17.53	354.63	12,065.9	-231.9	-239.9	-216.6	12.00	11.94	4.28
12,100.0	20.52	355.40	12,089.6	-223.8	-240.6	-208.4	12.00	11.96	3.07
12,125.0	23.51	355.98	12,112.7	-214.5	-241.3	-199.1	12.00	11.97	2.32
12,150.0	26.50	356.44	12,135.4	-203.9	-242.0	-188.5	12.00	11.98	1.82
12,175.0	29.50	356.80	12,157.5	-192.2	-242.7	-176.8	12.00	11.98	1.47
12,200.0	32.49	357.11	12,178.9	-179.4	-243.4	-163.9	12.00	11.98	1.22
12,225.0	35.49	357.37	12,199.6	-165.4	-244.0	-149.9	12.00	11.99	1.04
12,250.0	38.49	357.59	12,219.6	-150.4	-244.7	-134.9	12.00	11.99	0.90
12,275.0	41.48	357.79	12,238.7	-134.3	-245.3	-118.8	12.00	11.99	0.79
12,300.0	44.48	357.96	12,257.0	-117.3	-246.0	-101.8	12.00	11.99	0.70
12,325.0	47.48	358.12	12,274.4	-99.3	-246.6	-83.8	12.00	11.99	0.63
12,350.0	50.48	358.26	12,290.8	-80.5	-247.2	-65.0	12.00	11.99	0.57
12,375.0	53.48	358.39	12,306.2	-60.8	-247.8	-45.3	12.00	11.99	0.52
12,400.0	56.47	358.51	12,320.5	-40.3	-248.3	-24.8	12.00	11.99	0.48
12,425.0	59.47	358.63	12,333.8	-19.1	-248.8	-3.7	12.00	11.99	0.45
12,450.0	62.47	358.73	12,345.9	2.7	-249.3	18.2	12.00	11.99	0.42
12,475.0	65.47	358.83	12,356.9	25.2	-249.8	40.6	12.00	11.99	0.40
12,500.0	68.47	358.93	12,366.7	48.2	-250.3	63.6	12.00	11.99	0.38
12,525.0	71.47	359.02	12,375.2	71.6	-250.7	87.1	12.00	12.00	0.37
12,550.0	74.47	359.11	12,382.6	95.5	-251.1	110.9	12.00	12.00	0.35
12,575.0	77.47	359.20	12,388.6	119.8	-251.4	135.2	12.00	12.00	0.34
12,600.0	80.46	359.28	12,393.4	144.3	-251.8	159.7	12.00	12.00	0.34
12,625.0	83.46	359.36	12,396.9	169.1	-252.1	184.4	12.00	12.00	0.33
12,650.0	86.46	359.44	12,399.1	194.0	-252.3	209.3	12.00	12.00	0.33
12,675.0	89.46	359.52	12,400.0	218.9	-252.5	234.2	12.00	12.00	0.32
12,679.5	90.00	359.54	12,400.0	223.4	-252.6	238.7	12.00	12.00	0.32
12,700.0	90.00	359.54	12,400.0	243.9	-252.7	259.2	0.00	0.00	0.00
12,800.0	90.00	359.54	12,400.0	343.9	-253.5	359.0	0.00	0.00	0.00
12,900.0	90.00	359.54	12,400.0	443.9	-254.3	458.9	0.00	0.00	0.00
13,000.0	90.00	359.54	12,400.0	543.9	-255.1	558.7	0.00	0.00	0.00
13,100.0	90.00	359.54	12,400.0	643.9	-256.0	658.6	0.00	0.00	0.00
13,200.0	90.00	359.54	12,400.0	743.9	-256.8	758.4	0.00	0.00	0.00
13,300.0	90.00	359.54	12,400.0	843.9	-257.6	858.3	0.00	0.00	0.00
13,400.0	90.00	359.54	12,400.0	943.9	-258.4	958.1	0.00	0.00	0.00



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Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#704Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
13,500.0	90.00	359.54	12,400.0	1,043.9	-259.2	1,058.0	0.00	0.00	0.00
13,600.0	90.00	359.54	12,400.0	1,143.9	-260.0	1,157.9	0.00	0.00	0.00
13,700.0	90.00	359.54	12,400.0	1,243.9	-260.8	1,257.7	0.00	0.00	0.00
13,800.0	90.00	359.54	12,400.0	1,343.9	-261.6	1,357.6	0.00	0.00	0.00
13,900.0	90.00	359.54	12,400.0	1,443.9	-262.4	1,457.4	0.00	0.00	0.00
14,000.0	90.00	359.54	12,400.0	1,543.9	-263.2	1,557.3	0.00	0.00	0.00
14,100.0	90.00	359.54	12,400.0	1,643.9	-264.0	1,657.1	0.00	0.00	0.00
14,200.0	90.00	359.54	12,400.0	1,743.9	-264.8	1,757.0	0.00	0.00	0.00
14,300.0	90.00	359.54	12,400.0	1,843.9	-265.6	1,856.8	0.00	0.00	0.00
14,400.0	90.00	359.54	12,400.0	1,943.9	-266.4	1,956.7	0.00	0.00	0.00
14,500.0	90.00	359.54	12,400.0	2,043.9	-267.2	2,056.5	0.00	0.00	0.00
14,600.0	90.00	359.54	12,400.0	2,143.9	-268.0	2,156.4	0.00	0.00	0.00
14,700.0	90.00	359.54	12,400.0	2,243.9	-268.8	2,256.2	0.00	0.00	0.00
14,800.0	90.00	359.54	12,400.0	2,343.9	-269.6	2,356.1	0.00	0.00	0.00
14,900.0	90.00	359.54	12,400.0	2,443.9	-270.4	2,456.0	0.00	0.00	0.00
15,000.0	90.00	359.54	12,400.0	2,543.9	-271.2	2,555.8	0.00	0.00	0.00
15,100.0	90.00	359.54	12,400.0	2,643.9	-272.0	2,655.7	0.00	0.00	0.00
15,200.0	90.00	359.54	12,400.0	2,743.9	-272.8	2,755.5	0.00	0.00	0.00
15,300.0	90.00	359.54	12,400.0	2,843.9	-273.6	2,855.4	0.00	0.00	0.00
15,400.0	90.00	359.54	12,400.0	2,943.9	-274.4	2,955.2	0.00	0.00	0.00
15,500.0	90.00	359.54	12,400.0	3,043.9	-275.3	3,055.1	0.00	0.00	0.00
15,600.0	90.00	359.54	12,400.0	3,143.9	-276.1	3,154.9	0.00	0.00	0.00
15,700.0	90.00	359.54	12,400.0	3,243.8	-276.9	3,254.8	0.00	0.00	0.00
15,800.0	90.00	359.54	12,400.0	3,343.8	-277.7	3,354.6	0.00	0.00	0.00
15,900.0	90.00	359.54	12,400.0	3,443.8	-278.5	3,454.5	0.00	0.00	0.00
16,000.0	90.00	359.54	12,400.0	3,543.8	-279.3	3,554.3	0.00	0.00	0.00
16,100.0	90.00	359.54	12,400.0	3,643.8	-280.1	3,654.2	0.00	0.00	0.00
16,200.0	90.00	359.54	12,400.0	3,743.8	-280.9	3,754.1	0.00	0.00	0.00
16,300.0	90.00	359.54	12,400.0	3,843.8	-281.7	3,853.9	0.00	0.00	0.00
16,400.0	90.00	359.54	12,400.0	3,943.8	-282.5	3,953.8	0.00	0.00	0.00
16,500.0	90.00	359.54	12,400.0	4,043.8	-283.3	4,053.6	0.00	0.00	0.00
16,600.0	90.00	359.54	12,400.0	4,143.8	-284.1	4,153.5	0.00	0.00	0.00
16,700.0	90.00	359.54	12,400.0	4,243.8	-284.9	4,253.3	0.00	0.00	0.00
16,800.0	90.00	359.54	12,400.0	4,343.8	-285.7	4,353.2	0.00	0.00	0.00
16,900.0	90.00	359.54	12,400.0	4,443.8	-286.5	4,453.0	0.00	0.00	0.00
17,000.0	90.00	359.54	12,400.0	4,543.8	-287.3	4,552.9	0.00	0.00	0.00
17,085.2	90.00	359.54	12,400.0	4,629.0	-288.0	4,638.0	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Barlow 34 Fed Cor)	0.00	0.00	12,400.0	4,629.0	-288.0	369,611.00	779,701.00	32° 0' 49.714 N	103° 33' 51.423 W
- plan hits target center									
- Point									
FTP (Barlow 34 Fed Cor)	0.00	0.00	12,400.0	28.0	-251.0	365,010.00	779,738.00	32° 0' 4.182 N	103° 33' 51.373 W
- plan misses target center by 38.5usft at 12494.5usft MD (12364.6 TVD, 43.1 N, -250.2 E)									
- Point									