

HOBBS CCD

JUL 05 2018

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Lea County, NM (NAD 83 NME)

Mamba 30 State #701H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Elevation: GRS 1985
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #701H

KB = 25' @ 3554.0usft 3529.0
Northing 430771.00 Easting 794783.00 32° 10' 55.827" N 103° 36' 17.002" W

Alignments to Grid North
True North: -0.23°
Magnetic North: 8.55°
Magnetic Field Strength: 47859.9uT
Dip Angle: 60.02°
Date: 02/25/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.55°
To convert a Magnetic Direction to a True Direction, Add 0.23° East
To convert a True Direction to a Grid Direction, Subtract 0.23°

SECTION DETAILS

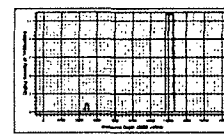
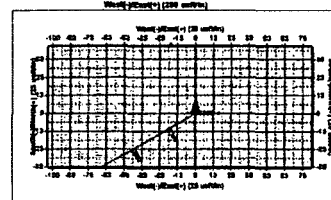
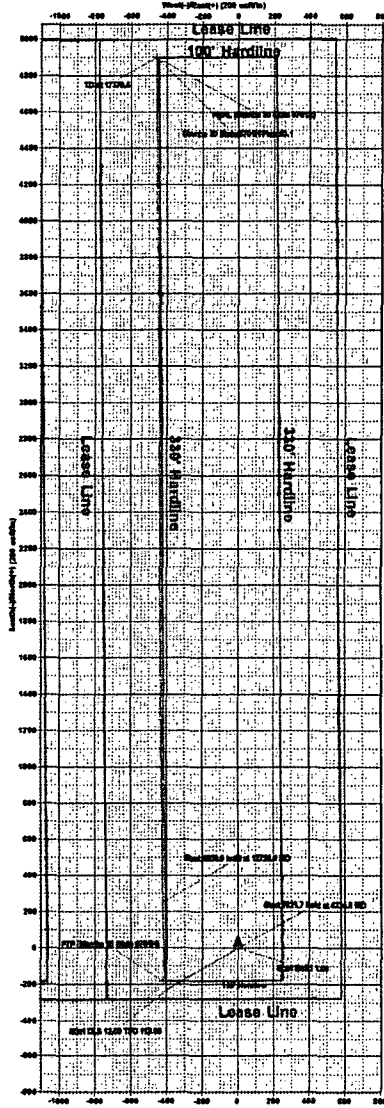
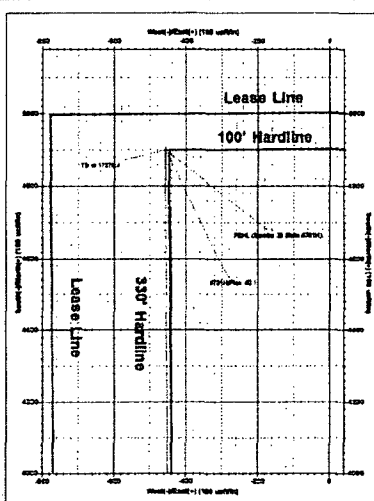
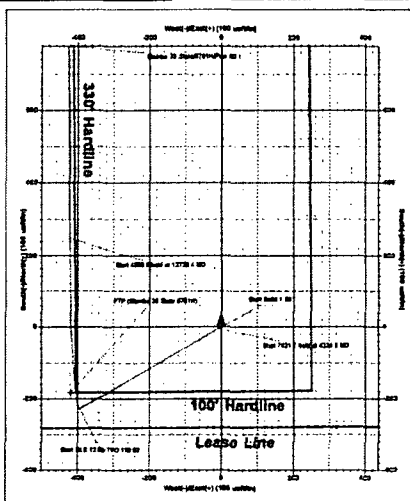
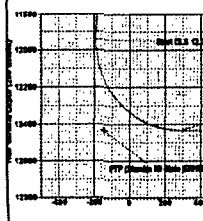
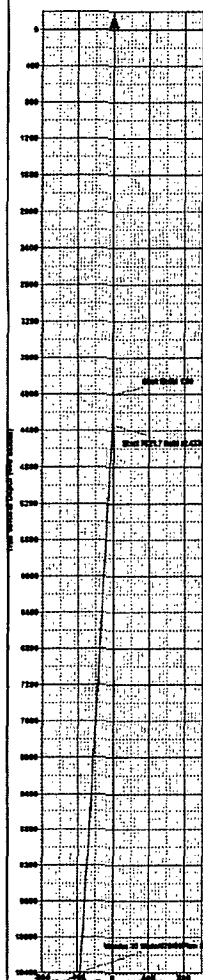
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
	4334.8	3.35	239.93	4334.7	-4.9	-8.5	1.00	239.93	-4.1	
	11956.6	3.35	239.93	11943.4	-228.0	-393.7	0.00	0.00	-190.4	
	12720.4	90.00	359.57	12434.0	249.1	-422.2	12.00	119.60	287.2	
	17370.4	90.00	359.57	12434.0	4899.0	-457.0	0.00	0.00	4920.3	PBHL (Mamba 30 State #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Mamba 30 State #701H)	12434.0	4298.0	-457.0	430670.00	795296.00
FTP (Mamba 30 State #701H)	12434.0	-182.0	-418.0	430628.00	795334.00





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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Mamba 30 State

#701H

OH

Plan: Plan #0.1

Standard Planning Report

05 July, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3554.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3554.0usft
Site:	Mamba 30 State	North Reference:	Grid
Well:	#701H	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	Mamba 30 State		
Site Position:		Northing:	430,807.00 usft
From:	Map	Easting:	767,053.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 56.143 N
		Longitude:	103° 36' 13.509 W
		Grid Convergence:	0.39 °

Well	#701H		
Well Position	+N/-S	-36.0 usft	Northing: 430,771.00 usft
	+E/-W	-300.0 usft	Easting: 766,753.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,529.0 usft
		Latitude:	32° 10' 55.807 N
		Longitude:	103° 36' 17.002 W
		Ground Level:	

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	9/25/2017	6.94
			Dip Angle (°) 60.02
			Field Strength (nT) 47,880.85032789

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)
	0.0	0.0	0.0
			Direction (°) 354.67

Plan Survey Tool Program	Date 7/5/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	17,370.4 Plan #0.1 (OH)	MWD
			OWSG 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	
4,334.8	3.35	239.93	4,334.7	-4.9	-8.5	1.00	1.00	0.00	239.93	
11,956.6	3.35	239.93	11,943.4	-228.0	-393.7	0.00	0.00	0.00	0.00	
12,720.4	90.00	359.57	12,434.0	249.1	-422.2	12.00	11.34	15.66	119.60	
17,370.4	90.00	359.57	12,434.0	4,899.0	-457.0	0.00	0.00	0.00	0.00	PBHL (Mamba 30 Sta



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Mamba 30 State
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3554.0usft
 MD Reference: KB = 25' @ 3554.0usft
 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	239.93	4,100.0	-0.4	-0.8	-0.4	1.00	1.00	0.00
4,200.0	2.00	239.93	4,200.0	-1.7	-3.0	-1.5	1.00	1.00	0.00
4,300.0	3.00	239.93	4,299.9	-3.9	-6.8	-3.3	1.00	1.00	0.00
4,334.8	3.35	239.93	4,334.7	-4.9	-8.5	-4.1	1.00	1.00	0.00
4,400.0	3.35	239.93	4,399.7	-6.8	-11.8	-5.7	0.00	0.00	0.00
4,500.0	3.35	239.93	4,499.5	-9.7	-16.8	-8.1	0.00	0.00	0.00
4,600.0	3.35	239.93	4,599.4	-12.7	-21.9	-10.6	0.00	0.00	0.00
4,700.0	3.35	239.93	4,699.2	-15.6	-26.9	-13.0	0.00	0.00	0.00
4,800.0	3.35	239.93	4,799.0	-18.5	-32.0	-15.5	0.00	0.00	0.00
4,900.0	3.35	239.93	4,898.8	-21.4	-37.0	-17.9	0.00	0.00	0.00
5,000.0	3.35	239.93	4,998.7	-24.4	-42.1	-20.4	0.00	0.00	0.00
5,100.0	3.35	239.93	5,098.5	-27.3	-47.1	-22.8	0.00	0.00	0.00
5,200.0	3.35	239.93	5,198.3	-30.2	-52.2	-25.2	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Mamba 30 State
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3554.0usft
 MD Reference: KB = 25' @ 3554.0usft
 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	3.35	239.93	5,298.2	-33.1	-57.2	-27.7	0.00	0.00	0.00
5,400.0	3.35	239.93	5,398.0	-36.1	-62.3	-30.1	0.00	0.00	0.00
5,500.0	3.35	239.93	5,497.8	-39.0	-67.4	-32.6	0.00	0.00	0.00
5,600.0	3.35	239.93	5,597.6	-41.9	-72.4	-35.0	0.00	0.00	0.00
5,700.0	3.35	239.93	5,697.5	-44.9	-77.5	-37.5	0.00	0.00	0.00
5,800.0	3.35	239.93	5,797.3	-47.8	-82.5	-39.9	0.00	0.00	0.00
5,900.0	3.35	239.93	5,897.1	-50.7	-87.6	-42.4	0.00	0.00	0.00
6,000.0	3.35	239.93	5,997.0	-53.6	-92.6	-44.8	0.00	0.00	0.00
6,100.0	3.35	239.93	6,096.8	-56.6	-97.7	-47.2	0.00	0.00	0.00
6,200.0	3.35	239.93	6,196.6	-59.5	-102.7	-49.7	0.00	0.00	0.00
6,300.0	3.35	239.93	6,296.5	-62.4	-107.8	-52.1	0.00	0.00	0.00
6,400.0	3.35	239.93	6,396.3	-65.3	-112.9	-54.6	0.00	0.00	0.00
6,500.0	3.35	239.93	6,496.1	-68.3	-117.9	-57.0	0.00	0.00	0.00
6,600.0	3.35	239.93	6,595.9	-71.2	-123.0	-59.5	0.00	0.00	0.00
6,700.0	3.35	239.93	6,695.8	-74.1	-128.0	-61.9	0.00	0.00	0.00
6,800.0	3.35	239.93	6,795.6	-77.0	-133.1	-64.4	0.00	0.00	0.00
6,900.0	3.35	239.93	6,895.4	-80.0	-138.1	-66.8	0.00	0.00	0.00
7,000.0	3.35	239.93	6,995.3	-82.9	-143.2	-69.2	0.00	0.00	0.00
7,100.0	3.35	239.93	7,095.1	-85.8	-148.2	-71.7	0.00	0.00	0.00
7,200.0	3.35	239.93	7,194.9	-88.8	-153.3	-74.1	0.00	0.00	0.00
7,300.0	3.35	239.93	7,294.7	-91.7	-158.3	-76.6	0.00	0.00	0.00
7,400.0	3.35	239.93	7,394.6	-94.6	-163.4	-79.0	0.00	0.00	0.00
7,500.0	3.35	239.93	7,494.4	-97.5	-168.5	-81.5	0.00	0.00	0.00
7,600.0	3.35	239.93	7,594.2	-100.5	-173.5	-83.9	0.00	0.00	0.00
7,700.0	3.35	239.93	7,694.1	-103.4	-178.6	-86.4	0.00	0.00	0.00
7,800.0	3.35	239.93	7,793.9	-106.3	-183.6	-88.8	0.00	0.00	0.00
7,900.0	3.35	239.93	7,893.7	-109.2	-188.7	-91.2	0.00	0.00	0.00
8,000.0	3.35	239.93	7,993.6	-112.2	-193.7	-93.7	0.00	0.00	0.00
8,100.0	3.35	239.93	8,093.4	-115.1	-198.8	-96.1	0.00	0.00	0.00
8,200.0	3.35	239.93	8,193.2	-118.0	-203.8	-98.6	0.00	0.00	0.00
8,300.0	3.35	239.93	8,293.0	-120.9	-208.9	-101.0	0.00	0.00	0.00
8,400.0	3.35	239.93	8,392.9	-123.9	-213.9	-103.5	0.00	0.00	0.00
8,500.0	3.35	239.93	8,492.7	-126.8	-219.0	-105.9	0.00	0.00	0.00
8,600.0	3.35	239.93	8,592.5	-129.7	-224.1	-108.4	0.00	0.00	0.00
8,700.0	3.35	239.93	8,692.4	-132.7	-229.1	-110.8	0.00	0.00	0.00
8,800.0	3.35	239.93	8,792.2	-135.6	-234.2	-113.2	0.00	0.00	0.00
8,900.0	3.35	239.93	8,892.0	-138.5	-239.2	-115.7	0.00	0.00	0.00
9,000.0	3.35	239.93	8,991.8	-141.4	-244.3	-118.1	0.00	0.00	0.00
9,100.0	3.35	239.93	9,091.7	-144.4	-249.3	-120.6	0.00	0.00	0.00
9,200.0	3.35	239.93	9,191.5	-147.3	-254.4	-123.0	0.00	0.00	0.00
9,300.0	3.35	239.93	9,291.3	-150.2	-259.4	-125.5	0.00	0.00	0.00
9,400.0	3.35	239.93	9,391.2	-153.1	-264.5	-127.9	0.00	0.00	0.00
9,500.0	3.35	239.93	9,491.0	-156.1	-269.5	-130.4	0.00	0.00	0.00
9,600.0	3.35	239.93	9,590.8	-159.0	-274.6	-132.8	0.00	0.00	0.00
9,700.0	3.35	239.93	9,690.6	-161.9	-279.7	-135.2	0.00	0.00	0.00
9,800.0	3.35	239.93	9,790.5	-164.9	-284.7	-137.7	0.00	0.00	0.00
9,900.0	3.35	239.93	9,890.3	-167.8	-289.8	-140.1	0.00	0.00	0.00
10,000.0	3.35	239.93	9,990.1	-170.7	-294.8	-142.6	0.00	0.00	0.00
10,100.0	3.35	239.93	10,090.0	-173.6	-299.9	-145.0	0.00	0.00	0.00
10,200.0	3.35	239.93	10,189.8	-176.6	-304.9	-147.5	0.00	0.00	0.00
10,300.0	3.35	239.93	10,289.6	-179.5	-310.0	-149.9	0.00	0.00	0.00
10,400.0	3.35	239.93	10,389.5	-182.4	-315.0	-152.4	0.00	0.00	0.00
10,500.0	3.35	239.93	10,489.3	-185.3	-320.1	-154.8	0.00	0.00	0.00
10,600.0	3.35	239.93	10,589.1	-188.3	-325.1	-157.3	0.00	0.00	0.00



Planning Report

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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Mamba 30 State
Well: #701H
Wellbore: OH
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Local Co-ordinate Reference: Well #701H
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MD Reference: KB = 25' @ 3554.0usft
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	3.35	239.93	10,688.9	-191.2	-330.2	-159.7	0.00	0.00	0.00
10,800.0	3.35	239.93	10,788.8	-194.1	-335.3	-162.1	0.00	0.00	0.00
10,900.0	3.35	239.93	10,888.6	-197.0	-340.3	-164.6	0.00	0.00	0.00
11,000.0	3.35	239.93	10,988.4	-200.0	-345.4	-167.0	0.00	0.00	0.00
11,100.0	3.35	239.93	11,088.3	-202.9	-350.4	-169.5	0.00	0.00	0.00
11,200.0	3.35	239.93	11,188.1	-205.8	-355.5	-171.9	0.00	0.00	0.00
11,300.0	3.35	239.93	11,287.9	-208.8	-360.5	-174.4	0.00	0.00	0.00
11,400.0	3.35	239.93	11,387.7	-211.7	-365.6	-176.8	0.00	0.00	0.00
11,500.0	3.35	239.93	11,487.6	-214.6	-370.6	-179.3	0.00	0.00	0.00
11,600.0	3.35	239.93	11,587.4	-217.5	-375.7	-181.7	0.00	0.00	0.00
11,700.0	3.35	239.93	11,687.2	-220.5	-380.7	-184.1	0.00	0.00	0.00
11,800.0	3.35	239.93	11,787.1	-223.4	-385.8	-186.6	0.00	0.00	0.00
11,900.0	3.35	239.93	11,886.9	-226.3	-390.9	-189.0	0.00	0.00	0.00
11,956.8	3.35	239.93	11,943.4	-228.0	-393.7	-190.4	0.00	0.00	0.00
11,975.0	2.96	280.37	11,961.8	-228.2	-394.6	-190.5	12.00	-2.09	219.56
12,000.0	4.59	320.31	11,986.7	-227.3	-395.9	-189.5	12.00	6.52	159.74
12,025.0	7.17	335.73	12,011.6	-225.1	-397.2	-187.2	12.00	10.30	61.88
12,050.0	9.98	342.78	12,036.3	-221.6	-398.5	-183.6	12.00	11.26	28.22
12,075.0	12.88	346.73	12,060.8	-216.8	-399.8	-178.7	12.00	11.59	15.77
12,100.0	15.82	349.23	12,085.0	-210.7	-401.0	-172.6	12.00	11.74	10.03
12,125.0	18.77	350.97	12,108.9	-203.4	-402.3	-165.2	12.00	11.82	6.94
12,150.0	21.74	352.25	12,132.3	-194.8	-403.6	-156.5	12.00	11.87	5.11
12,175.0	24.72	353.23	12,155.3	-185.1	-404.8	-146.7	12.00	11.90	3.93
12,200.0	27.70	354.01	12,177.7	-174.1	-406.0	-135.6	12.00	11.92	3.13
12,225.0	30.68	354.65	12,199.6	-162.0	-407.2	-123.4	12.00	11.93	2.57
12,250.0	33.67	355.19	12,220.7	-148.7	-408.4	-110.1	12.00	11.95	2.15
12,275.0	36.65	355.65	12,241.2	-134.4	-409.6	-95.7	12.00	11.95	1.84
12,300.0	39.64	356.05	12,260.8	-119.0	-410.7	-80.3	12.00	11.96	1.60
12,325.0	42.64	356.41	12,279.6	-102.5	-411.8	-63.9	12.00	11.96	1.41
12,350.0	45.63	356.72	12,297.6	-85.2	-412.8	-46.5	12.00	11.97	1.26
12,371.5	48.20	356.97	12,312.3	-69.5	-413.7	-30.8	12.00	11.97	1.14
FTP (Mamba 30 State #701H)									
12,375.0	48.62	357.00	12,314.6	-66.9	-413.8	-28.2	12.00	11.97	1.09
12,400.0	51.61	357.26	12,330.6	-47.7	-414.8	-9.0	12.00	11.97	1.04
12,425.0	54.61	357.50	12,345.6	-27.8	-415.7	11.0	12.00	11.98	0.95
12,450.0	57.60	357.72	12,359.6	-7.0	-416.5	31.7	12.00	11.98	0.88
12,475.0	60.60	357.93	12,372.4	14.4	-417.3	53.1	12.00	11.98	0.83
12,500.0	63.59	358.12	12,384.1	36.5	-418.1	75.2	12.00	11.98	0.78
12,525.0	66.59	358.31	12,394.6	59.2	-418.8	97.8	12.00	11.98	0.74
12,550.0	69.58	358.49	12,404.0	82.3	-419.5	120.9	12.00	11.98	0.71
12,575.0	72.58	358.66	12,412.1	106.0	-420.0	144.5	12.00	11.98	0.68
12,600.0	75.57	358.82	12,418.9	130.0	-420.6	168.5	12.00	11.98	0.66
12,625.0	78.57	358.98	12,424.5	154.4	-421.0	192.8	12.00	11.98	0.64
12,650.0	81.57	359.14	12,428.8	179.0	-421.4	217.4	12.00	11.98	0.63
12,675.0	84.56	359.29	12,431.8	203.8	-421.8	242.1	12.00	11.98	0.62
12,700.0	87.56	359.45	12,433.6	228.7	-422.1	266.9	12.00	11.98	0.61
12,720.4	90.00	359.57	12,434.0	249.1	-422.2	287.2	12.00	11.98	0.61
12,800.0	90.00	359.57	12,434.0	328.7	-422.8	366.6	0.00	0.00	0.00
12,900.0	90.00	359.57	12,434.0	428.7	-423.6	466.2	0.00	0.00	0.00
13,000.0	90.00	359.57	12,434.0	528.7	-424.3	565.8	0.00	0.00	0.00
13,100.0	90.00	359.57	12,434.0	628.7	-425.1	665.5	0.00	0.00	0.00
13,200.0	90.00	359.57	12,434.0	728.7	-425.8	765.1	0.00	0.00	0.00
13,300.0	90.00	359.57	12,434.0	828.7	-426.6	864.7	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Mamba 30 State
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3554.0usft
 MD Reference: KB = 25' @ 3554.0usft
 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)
13,400.0	90.00	359.57	12,434.0	928.7	-427.3	964.4	0.00	0.00	0.00
13,500.0	90.00	359.57	12,434.0	1,028.7	-428.1	1,064.0	0.00	0.00	0.00
13,600.0	90.00	359.57	12,434.0	1,128.7	-428.8	1,163.6	0.00	0.00	0.00
13,700.0	90.00	359.57	12,434.0	1,228.7	-429.6	1,263.3	0.00	0.00	0.00
13,800.0	90.00	359.57	12,434.0	1,328.7	-430.3	1,362.9	0.00	0.00	0.00
13,900.0	90.00	359.57	12,434.0	1,428.7	-431.1	1,462.6	0.00	0.00	0.00
14,000.0	90.00	359.57	12,434.0	1,528.7	-431.8	1,562.2	0.00	0.00	0.00
14,100.0	90.00	359.57	12,434.0	1,628.7	-432.5	1,661.8	0.00	0.00	0.00
14,200.0	90.00	359.57	12,434.0	1,728.7	-433.3	1,761.5	0.00	0.00	0.00
14,300.0	90.00	359.57	12,434.0	1,828.7	-434.0	1,861.1	0.00	0.00	0.00
14,400.0	90.00	359.57	12,434.0	1,928.7	-434.8	1,960.7	0.00	0.00	0.00
14,500.0	90.00	359.57	12,434.0	2,028.7	-435.5	2,060.4	0.00	0.00	0.00
14,600.0	90.00	359.57	12,434.0	2,128.7	-436.3	2,160.0	0.00	0.00	0.00
14,700.0	90.00	359.57	12,434.0	2,228.7	-437.0	2,259.6	0.00	0.00	0.00
14,800.0	90.00	359.57	12,434.0	2,328.7	-437.8	2,359.3	0.00	0.00	0.00
14,900.0	90.00	359.57	12,434.0	2,428.7	-438.5	2,458.9	0.00	0.00	0.00
15,000.0	90.00	359.57	12,434.0	2,528.7	-439.3	2,558.5	0.00	0.00	0.00
15,100.0	90.00	359.57	12,434.0	2,628.7	-440.0	2,658.2	0.00	0.00	0.00
15,200.0	90.00	359.57	12,434.0	2,728.7	-440.8	2,757.8	0.00	0.00	0.00
15,300.0	90.00	359.57	12,434.0	2,828.7	-441.5	2,857.4	0.00	0.00	0.00
15,400.0	90.00	359.57	12,434.0	2,928.7	-442.3	2,957.1	0.00	0.00	0.00
15,500.0	90.00	359.57	12,434.0	3,028.6	-443.0	3,056.7	0.00	0.00	0.00
15,600.0	90.00	359.57	12,434.0	3,128.6	-443.8	3,156.3	0.00	0.00	0.00
15,700.0	90.00	359.57	12,434.0	3,228.6	-444.5	3,256.0	0.00	0.00	0.00
15,800.0	90.00	359.57	12,434.0	3,328.6	-445.3	3,355.6	0.00	0.00	0.00
15,900.0	90.00	359.57	12,434.0	3,428.6	-446.0	3,455.2	0.00	0.00	0.00
16,000.0	90.00	359.57	12,434.0	3,528.6	-446.8	3,554.9	0.00	0.00	0.00
16,100.0	90.00	359.57	12,434.0	3,628.6	-447.5	3,654.5	0.00	0.00	0.00
16,200.0	90.00	359.57	12,434.0	3,728.6	-448.2	3,754.1	0.00	0.00	0.00
16,300.0	90.00	359.57	12,434.0	3,828.6	-449.0	3,853.8	0.00	0.00	0.00
16,400.0	90.00	359.57	12,434.0	3,928.6	-449.7	3,953.4	0.00	0.00	0.00
16,500.0	90.00	359.57	12,434.0	4,028.6	-450.5	4,053.0	0.00	0.00	0.00
16,600.0	90.00	359.57	12,434.0	4,128.6	-451.2	4,152.7	0.00	0.00	0.00
16,700.0	90.00	359.57	12,434.0	4,228.6	-452.0	4,252.3	0.00	0.00	0.00
16,800.0	90.00	359.57	12,434.0	4,328.6	-452.7	4,351.9	0.00	0.00	0.00
16,900.0	90.00	359.57	12,434.0	4,428.6	-453.5	4,451.6	0.00	0.00	0.00
17,000.0	90.00	359.57	12,434.0	4,528.6	-454.2	4,551.2	0.00	0.00	0.00
17,100.0	90.00	359.57	12,434.0	4,628.6	-455.0	4,650.9	0.00	0.00	0.00
17,200.0	90.00	359.57	12,434.0	4,728.6	-455.7	4,750.5	0.00	0.00	0.00
17,300.0	90.00	359.57	12,434.0	4,828.6	-456.5	4,850.1	0.00	0.00	0.00
17,370.4	90.00	359.57	12,434.0	4,899.0	-457.0	4,920.3	0.00	0.00	0.00

PBHL (Mamba 30 State #701H)



Planning Report

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Project: Lea County, NM (NAD 83 NME)
Site: Mamba 30 State
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3554.0usft
MD Reference: KB = 25' @ 3554.0usft
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 (Mamba 30 State # - plan misses target center by 166.5usft at 12371.5usft MD (12312.3 TVD, -69.5 N, -413.7 E) - Point	0.00	0.00	12,434.0	-183.0	-419.0	430,588.00	766,334.00	32° 10' 54.024 N	103° 36' 21.892 W
PBHL (Mamba 30 State - plan hits target center - Point	0.00	0.00	12,434.0	4,899.0	-457.0	435,670.00	766,296.00	32° 11' 44.315 N	103° 36' 21.934 W