



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Mamba 30 State

#701H

OH

Plan: Plan #0.2

Standard Planning Report

19 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 #0.2		

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	Latitude: 32° 10' 56.143 N
From:	Map	Easting:	767,053.00 usft	Longitude: 103° 36' 13.509 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.39 °

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

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

Design	Plan #0.2			
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	354.79

Plan Survey Tool Program	Date 7/19/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,369.6 Plan #0.2 (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	
4,325.4	3.25	238.99	4,325.2	-4.8	-7.9	1.00	1.00	0.00	238.99	
11,955.8	3.25	238.99	11,943.4	-227.9	-379.1	0.00	0.00	0.00	0.00	
12,719.6	90.00	359.51	12,434.0	249.1	-407.2	12.00	11.36	15.78	120.48	
17,369.6	90.00	359.51	12,434.0	4,899.0	-447.0	0.00	0.00	0.00	0.00	PBHL (Mamba 30 Sta



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Site:	Mamba 30 State	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	238.99	4,100.0	-0.4	-0.7	-0.4	1.00	1.00	0.00
4,200.0	2.00	238.99	4,200.0	-1.8	-3.0	-1.5	1.00	1.00	0.00
4,300.0	3.00	238.99	4,299.9	-4.0	-6.7	-3.4	1.00	1.00	0.00
4,325.4	3.25	238.99	4,325.2	-4.8	-7.9	-4.0	1.00	1.00	0.00
4,400.0	3.25	238.99	4,399.7	-6.9	-11.5	-5.9	0.00	0.00	0.00
4,500.0	3.25	238.99	4,499.5	-9.9	-16.4	-8.3	0.00	0.00	0.00
4,600.0	3.25	238.99	4,599.4	-12.8	-21.3	-10.8	0.00	0.00	0.00
4,700.0	3.25	238.99	4,699.2	-15.7	-26.1	-13.3	0.00	0.00	0.00
4,800.0	3.25	238.99	4,799.1	-18.6	-31.0	-15.7	0.00	0.00	0.00
4,900.0	3.25	238.99	4,898.9	-21.6	-35.9	-18.2	0.00	0.00	0.00
5,000.0	3.25	238.99	4,998.7	-24.5	-40.7	-20.7	0.00	0.00	0.00
5,100.0	3.25	238.99	5,098.6	-27.4	-45.6	-23.2	0.00	0.00	0.00
5,200.0	3.25	238.99	5,198.4	-30.3	-50.5	-25.6	0.00	0.00	0.00



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Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	3.25	238.99	5,298.3	-33.3	-55.3	-28.1	0.00	0.00	0.00	
5,400.0	3.25	238.99	5,398.1	-36.2	-60.2	-30.6	0.00	0.00	0.00	
5,500.0	3.25	238.99	5,497.9	-39.1	-65.1	-33.0	0.00	0.00	0.00	
5,600.0	3.25	238.99	5,597.8	-42.0	-69.9	-35.5	0.00	0.00	0.00	
5,700.0	3.25	238.99	5,697.6	-45.0	-74.8	-38.0	0.00	0.00	0.00	
5,800.0	3.25	238.99	5,797.4	-47.9	-79.7	-40.4	0.00	0.00	0.00	
5,900.0	3.25	238.99	5,897.3	-50.8	-84.5	-42.9	0.00	0.00	0.00	
6,000.0	3.25	238.99	5,997.1	-53.7	-89.4	-45.4	0.00	0.00	0.00	
6,100.0	3.25	238.99	6,097.0	-56.7	-94.2	-47.9	0.00	0.00	0.00	
6,200.0	3.25	238.99	6,196.8	-59.6	-99.1	-50.3	0.00	0.00	0.00	
6,300.0	3.25	238.99	6,296.6	-62.5	-104.0	-52.8	0.00	0.00	0.00	
6,400.0	3.25	238.99	6,396.5	-65.4	-108.8	-55.3	0.00	0.00	0.00	
6,500.0	3.25	238.99	6,496.3	-68.4	-113.7	-57.7	0.00	0.00	0.00	
6,600.0	3.25	238.99	6,596.2	-71.3	-118.6	-60.2	0.00	0.00	0.00	
6,700.0	3.25	238.99	6,696.0	-74.2	-123.4	-62.7	0.00	0.00	0.00	
6,800.0	3.25	238.99	6,795.8	-77.1	-128.3	-65.2	0.00	0.00	0.00	
6,900.0	3.25	238.99	6,895.7	-80.1	-133.2	-67.6	0.00	0.00	0.00	
7,000.0	3.25	238.99	6,995.5	-83.0	-138.0	-70.1	0.00	0.00	0.00	
7,100.0	3.25	238.99	7,095.4	-85.9	-142.9	-72.6	0.00	0.00	0.00	
7,200.0	3.25	238.99	7,195.2	-88.8	-147.8	-75.0	0.00	0.00	0.00	
7,300.0	3.25	238.99	7,295.0	-91.7	-152.6	-77.5	0.00	0.00	0.00	
7,400.0	3.25	238.99	7,394.9	-94.7	-157.5	-80.0	0.00	0.00	0.00	
7,500.0	3.25	238.99	7,494.7	-97.6	-162.4	-82.4	0.00	0.00	0.00	
7,600.0	3.25	238.99	7,594.5	-100.5	-167.2	-84.9	0.00	0.00	0.00	
7,700.0	3.25	238.99	7,694.4	-103.4	-172.1	-87.4	0.00	0.00	0.00	
7,800.0	3.25	238.99	7,794.2	-106.4	-176.9	-89.9	0.00	0.00	0.00	
7,900.0	3.25	238.99	7,894.1	-109.3	-181.8	-92.3	0.00	0.00	0.00	
8,000.0	3.25	238.99	7,993.9	-112.2	-186.7	-94.8	0.00	0.00	0.00	
8,100.0	3.25	238.99	8,093.7	-115.1	-191.5	-97.3	0.00	0.00	0.00	
8,200.0	3.25	238.99	8,193.6	-118.1	-196.4	-99.7	0.00	0.00	0.00	
8,300.0	3.25	238.99	8,293.4	-121.0	-201.3	-102.2	0.00	0.00	0.00	
8,400.0	3.25	238.99	8,393.3	-123.9	-206.1	-104.7	0.00	0.00	0.00	
8,500.0	3.25	238.99	8,493.1	-126.8	-211.0	-107.1	0.00	0.00	0.00	
8,600.0	3.25	238.99	8,592.9	-129.8	-215.9	-109.6	0.00	0.00	0.00	
8,700.0	3.25	238.99	8,692.8	-132.7	-220.7	-112.1	0.00	0.00	0.00	
8,800.0	3.25	238.99	8,792.6	-135.6	-225.6	-114.6	0.00	0.00	0.00	
8,900.0	3.25	238.99	8,892.4	-138.5	-230.5	-117.0	0.00	0.00	0.00	
9,000.0	3.25	238.99	8,992.3	-141.5	-235.3	-119.5	0.00	0.00	0.00	
9,100.0	3.25	238.99	9,092.1	-144.4	-240.2	-122.0	0.00	0.00	0.00	
9,200.0	3.25	238.99	9,192.0	-147.3	-245.1	-124.4	0.00	0.00	0.00	
9,300.0	3.25	238.99	9,291.8	-150.2	-249.9	-126.9	0.00	0.00	0.00	
9,400.0	3.25	238.99	9,391.6	-153.2	-254.8	-129.4	0.00	0.00	0.00	
9,500.0	3.25	238.99	9,491.5	-156.1	-259.7	-131.9	0.00	0.00	0.00	
9,600.0	3.25	238.99	9,591.3	-159.0	-264.5	-134.3	0.00	0.00	0.00	
9,700.0	3.25	238.99	9,691.2	-161.9	-269.4	-136.8	0.00	0.00	0.00	
9,800.0	3.25	238.99	9,791.0	-164.9	-274.2	-139.3	0.00	0.00	0.00	
9,900.0	3.25	238.99	9,890.8	-167.8	-279.1	-141.7	0.00	0.00	0.00	
10,000.0	3.25	238.99	9,990.7	-170.7	-284.0	-144.2	0.00	0.00	0.00	
10,100.0	3.25	238.99	10,090.5	-173.6	-288.8	-146.7	0.00	0.00	0.00	
10,200.0	3.25	238.99	10,190.4	-176.6	-293.7	-149.1	0.00	0.00	0.00	
10,300.0	3.25	238.99	10,290.2	-179.5	-298.6	-151.6	0.00	0.00	0.00	
10,400.0	3.25	238.99	10,390.0	-182.4	-303.4	-154.1	0.00	0.00	0.00	
10,500.0	3.25	238.99	10,489.9	-185.3	-308.3	-156.6	0.00	0.00	0.00	
10,600.0	3.25	238.99	10,589.7	-188.3	-313.2	-159.0	0.00	0.00	0.00	



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Wellbore:	OH		
Design:	Plan #0.2		

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	3.25	238.99	10,689.5	-191.2	-318.0	-161.5	0.00	0.00	0.00
10,800.0	3.25	238.99	10,789.4	-194.1	-322.9	-164.0	0.00	0.00	0.00
10,900.0	3.25	238.99	10,889.2	-197.0	-327.8	-166.4	0.00	0.00	0.00
11,000.0	3.25	238.99	10,989.1	-200.0	-332.6	-168.9	0.00	0.00	0.00
11,100.0	3.25	238.99	11,088.9	-202.9	-337.5	-171.4	0.00	0.00	0.00
11,200.0	3.25	238.99	11,188.7	-205.8	-342.4	-173.8	0.00	0.00	0.00
11,300.0	3.25	238.99	11,288.6	-208.7	-347.2	-176.3	0.00	0.00	0.00
11,400.0	3.25	238.99	11,388.4	-211.6	-352.1	-178.8	0.00	0.00	0.00
11,500.0	3.25	238.99	11,488.3	-214.6	-356.9	-181.3	0.00	0.00	0.00
11,600.0	3.25	238.99	11,588.1	-217.5	-361.8	-183.7	0.00	0.00	0.00
11,700.0	3.25	238.99	11,687.9	-220.4	-366.7	-186.2	0.00	0.00	0.00
11,800.0	3.25	238.99	11,787.8	-223.3	-371.5	-188.7	0.00	0.00	0.00
11,900.0	3.25	238.99	11,887.6	-226.3	-376.4	-191.1	0.00	0.00	0.00
11,955.8	3.25	238.99	11,943.4	-227.9	-379.1	-192.5	0.00	0.00	0.00
11,975.0	2.88	282.52	11,962.5	-228.1	-380.1	-192.6	12.00	-1.96	227.18
12,000.0	4.60	322.01	11,987.4	-227.2	-381.3	-191.6	12.00	6.89	157.95
12,025.0	7.21	336.74	12,012.3	-224.9	-382.5	-189.2	12.00	10.45	58.92
12,050.0	10.04	343.46	12,037.0	-221.4	-383.8	-185.6	12.00	11.32	26.86
12,075.0	12.95	347.21	12,061.5	-216.6	-385.0	-180.7	12.00	11.63	15.02
12,100.0	15.89	349.60	12,085.7	-210.5	-386.2	-174.5	12.00	11.76	9.57
12,125.0	18.85	351.26	12,109.6	-203.1	-387.5	-167.1	12.00	11.84	6.63
12,150.0	21.82	352.48	12,133.0	-194.5	-388.7	-158.4	12.00	11.88	4.89
12,175.0	24.80	353.42	12,156.0	-184.7	-389.9	-148.5	12.00	11.91	3.76
12,200.0	27.78	354.18	12,178.4	-173.7	-391.1	-137.4	12.00	11.93	3.00
12,225.0	30.76	354.79	12,200.2	-161.5	-392.3	-125.2	12.00	11.94	2.46
12,250.0	33.75	355.31	12,221.3	-148.2	-393.4	-111.9	12.00	11.95	2.06
12,275.0	36.74	355.75	12,241.8	-133.8	-394.5	-97.4	12.00	11.96	1.77
12,300.0	39.73	356.13	12,261.4	-118.4	-395.6	-82.0	12.00	11.96	1.53
12,325.0	42.72	356.47	12,280.2	-102.0	-396.7	-65.5	12.00	11.97	1.35
12,350.0	45.71	356.77	12,298.1	-84.6	-397.7	-48.1	12.00	11.97	1.21
12,370.4	48.16	357.00	12,312.1	-69.7	-398.5	-33.2	12.00	11.97	1.10
FTP (Mamba 30 State #701H)									
12,375.0	48.71	357.04	12,315.1	-66.3	-398.7	-29.8	12.00	11.97	1.05
12,400.0	51.70	357.29	12,331.1	-47.1	-399.7	-10.6	12.00	11.98	1.00
12,425.0	54.70	357.52	12,346.1	-27.1	-400.6	9.4	12.00	11.98	0.92
12,450.0	57.69	357.74	12,360.0	-6.3	-401.4	30.2	12.00	11.98	0.85
12,475.0	60.69	357.93	12,372.8	15.1	-402.2	51.6	12.00	11.98	0.80
12,500.0	63.68	358.12	12,384.4	37.2	-403.0	73.7	12.00	11.98	0.75
12,525.0	66.68	358.30	12,394.9	59.9	-403.7	96.3	12.00	11.98	0.71
12,550.0	69.67	358.47	12,404.2	83.1	-404.4	119.5	12.00	11.98	0.68
12,575.0	72.67	358.63	12,412.3	106.8	-405.0	143.1	12.00	11.98	0.66
12,600.0	75.67	358.79	12,419.1	130.8	-405.5	167.1	12.00	11.98	0.63
12,625.0	78.66	358.95	12,424.7	155.2	-406.0	191.4	12.00	11.98	0.62
12,650.0	81.66	359.10	12,428.9	179.8	-406.4	216.0	12.00	11.99	0.60
12,675.0	84.65	359.25	12,431.9	204.6	-406.8	240.7	12.00	11.99	0.60
12,700.0	87.65	359.39	12,433.6	229.5	-407.0	265.6	12.00	11.99	0.59
12,719.6	90.00	359.51	12,434.0	249.1	-407.2	285.1	12.00	11.99	0.59
12,800.0	90.00	359.51	12,434.0	329.5	-407.9	365.2	0.00	0.00	0.00
12,900.0	90.00	359.51	12,434.0	429.5	-408.8	464.9	0.00	0.00	0.00
13,000.0	90.00	359.51	12,434.0	529.5	-409.6	564.6	0.00	0.00	0.00
13,100.0	90.00	359.51	12,434.0	629.5	-410.5	664.2	0.00	0.00	0.00
13,200.0	90.00	359.51	12,434.0	729.5	-411.3	763.9	0.00	0.00	0.00
13,300.0	90.00	359.51	12,434.0	829.5	-412.2	863.5	0.00	0.00	0.00



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 #0.2		

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	359.51	12,434.0	929.5	-413.1	963.2	0.00	0.00	0.00
13,500.0	90.00	359.51	12,434.0	1,029.5	-413.9	1,062.9	0.00	0.00	0.00
13,600.0	90.00	359.51	12,434.0	1,129.5	-414.8	1,162.5	0.00	0.00	0.00
13,700.0	90.00	359.51	12,434.0	1,229.5	-415.6	1,262.2	0.00	0.00	0.00
13,800.0	90.00	359.51	12,434.0	1,329.5	-416.5	1,361.8	0.00	0.00	0.00
13,900.0	90.00	359.51	12,434.0	1,429.5	-417.3	1,461.5	0.00	0.00	0.00
14,000.0	90.00	359.51	12,434.0	1,529.5	-418.2	1,561.2	0.00	0.00	0.00
14,100.0	90.00	359.51	12,434.0	1,629.5	-419.0	1,660.8	0.00	0.00	0.00
14,200.0	90.00	359.51	12,434.0	1,729.5	-419.9	1,760.5	0.00	0.00	0.00
14,300.0	90.00	359.51	12,434.0	1,829.5	-420.7	1,860.1	0.00	0.00	0.00
14,400.0	90.00	359.51	12,434.0	1,929.5	-421.6	1,959.8	0.00	0.00	0.00
14,500.0	90.00	359.51	12,434.0	2,029.5	-422.5	2,059.5	0.00	0.00	0.00
14,600.0	90.00	359.51	12,434.0	2,129.5	-423.3	2,159.1	0.00	0.00	0.00
14,700.0	90.00	359.51	12,434.0	2,229.5	-424.2	2,258.8	0.00	0.00	0.00
14,800.0	90.00	359.51	12,434.0	2,329.5	-425.0	2,358.4	0.00	0.00	0.00
14,900.0	90.00	359.51	12,434.0	2,429.5	-425.9	2,458.1	0.00	0.00	0.00
15,000.0	90.00	359.51	12,434.0	2,529.5	-426.7	2,557.8	0.00	0.00	0.00
15,100.0	90.00	359.51	12,434.0	2,629.4	-427.6	2,657.4	0.00	0.00	0.00
15,200.0	90.00	359.51	12,434.0	2,729.4	-428.4	2,757.1	0.00	0.00	0.00
15,300.0	90.00	359.51	12,434.0	2,829.4	-429.3	2,856.7	0.00	0.00	0.00
15,400.0	90.00	359.51	12,434.0	2,929.4	-430.2	2,956.4	0.00	0.00	0.00
15,500.0	90.00	359.51	12,434.0	3,029.4	-431.0	3,056.1	0.00	0.00	0.00
15,600.0	90.00	359.51	12,434.0	3,129.4	-431.9	3,155.7	0.00	0.00	0.00
15,700.0	90.00	359.51	12,434.0	3,229.4	-432.7	3,255.4	0.00	0.00	0.00
15,800.0	90.00	359.51	12,434.0	3,329.4	-433.6	3,355.0	0.00	0.00	0.00
15,900.0	90.00	359.51	12,434.0	3,429.4	-434.4	3,454.7	0.00	0.00	0.00
16,000.0	90.00	359.51	12,434.0	3,529.4	-435.3	3,554.4	0.00	0.00	0.00
16,100.0	90.00	359.51	12,434.0	3,629.4	-436.1	3,654.0	0.00	0.00	0.00
16,200.0	90.00	359.51	12,434.0	3,729.4	-437.0	3,753.7	0.00	0.00	0.00
16,300.0	90.00	359.51	12,434.0	3,829.4	-437.9	3,853.3	0.00	0.00	0.00
16,400.0	90.00	359.51	12,434.0	3,929.4	-438.7	3,953.0	0.00	0.00	0.00
16,500.0	90.00	359.51	12,434.0	4,029.4	-439.6	4,052.7	0.00	0.00	0.00
16,600.0	90.00	359.51	12,434.0	4,129.4	-440.4	4,152.3	0.00	0.00	0.00
16,700.0	90.00	359.51	12,434.0	4,229.4	-441.3	4,252.0	0.00	0.00	0.00
16,800.0	90.00	359.51	12,434.0	4,329.4	-442.1	4,351.7	0.00	0.00	0.00
16,900.0	90.00	359.51	12,434.0	4,429.4	-443.0	4,451.3	0.00	0.00	0.00
17,000.0	90.00	359.51	12,434.0	4,529.4	-443.8	4,551.0	0.00	0.00	0.00
17,100.0	90.00	359.51	12,434.0	4,629.4	-444.7	4,650.6	0.00	0.00	0.00
17,200.0	90.00	359.51	12,434.0	4,729.4	-445.5	4,750.3	0.00	0.00	0.00
17,300.0	90.00	359.51	12,434.0	4,829.4	-446.4	4,850.0	0.00	0.00	0.00
17,369.6	90.00	359.51	12,434.0	4,899.0	-447.0	4,919.4	0.00	0.00	0.00
PBHL (Mamba 30 State #701H)									



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 #0.2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
FTP (Mamba 30 State #	0.00	0.01	12,434.0	-183.0	-404.0	430,588.00	766,349.00	32° 10' 54.023 N	103° 36' 21.717 W
- plan misses target center by 166.6usft at 12370.4usft MD (12312.1 TVD, -69.7 N, -398.5 E)									
- Point									
PBHL (Mamba 30 State	0.00	0.00	12,434.0	4,899.0	-447.0	435,670.00	766,306.00	32° 11' 44.314 N	103° 36' 21.818 W
- plan hits target center									
- Point									



Lea County, NM (NAD 83 NME)

Mamba 30 State #701H

Plan #0.2

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: #701H

KB = 25' @ 3554.0usft 3529.0
Northing 430771.00 Easting 766753.00 Latitude 32° 10' 55.807 N Longitude 103° 36' 17.002 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	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	4325.4	3.25	238.99	4325.2	-4.8	-7.9	1.00	238.99	-4.0	
4	11955.8	3.25	238.99	11943.4	-227.9	-379.1	0.00	0.00	-192.5	
5	12719.6	90.00	359.51	12434.0	249.1	-407.2	12.00	120.48	285.1	
6	17369.6	90.00	359.51	12434.0	4899.0	-447.0	0.00	0.00	4919.4	PBHL (Mamba 30 State #701H)



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.55°
Magnetic Field
Strength: 47830.9nT
Dip Angle: 60.82°
Date: 9/26/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction: Add 6.55°
To convert a Magnetic Direction to a True Direction: Add 6.94° East
To convert a True Direction to a Grid Direction: Subtract 0.39°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Mamba 30 State #701H)	12434.0	4899.0	-447.0	435670.00	766306.00
FTP (Mamba 30 State #701H)	12434.0	-183.0	-454.0	430588.00	766349.00

