

30-025-45319



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Mamba 30 State Com

#707H

OH

Plan: Plan #0.2

Standard Planning Report

17 October, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3588.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3588.0usft
Site:	Mamba 30 State Com	North Reference:	Grid
Well:	#707H	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 Com			
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	#707H					
Well Position	+N/-S	705.0 usft	Northing:	431,512.00 usft	Latitude:	32° 11' 3.330 N
	+E/-W	-3,159.0 usft	Easting:	763,894.00 usft	Longitude:	103° 36' 50.210 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,563.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/19/2018	6.83	60.00	47,779.80579562

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	357.00

Plan Survey Tool Program	Date 10/17/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,443.9 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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,332.2	6.64	190.75	3,331.4	-18.9	-3.6	2.00	2.00	0.00	190.75	
11,710.1	6.64	190.75	11,653.1	-971.1	-184.4	0.00	0.00	0.00	0.00	
12,042.2	0.00	0.00	11,984.5	-990.0	-188.0	2.00	-2.00	0.00	180.00	KOP (Mamba 30 Stat
12,792.2	90.00	359.68	12,462.0	-512.5	-190.7	12.00	12.00	-0.04	359.68	
17,443.9	90.00	359.68	12,462.0	4,139.0	-217.0	0.00	0.00	0.00	0.00	PBHL (Mamba 30 Sta

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Site:	Mamba 30 State Com	North Reference:	Grid
Well:	#707H	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	2.00	190.75	3,100.0	-1.7	-0.3	-1.7	2.00	2.00	0.00
3,200.0	4.00	190.75	3,199.8	-6.9	-1.3	-6.8	2.00	2.00	0.00
3,300.0	6.00	190.75	3,299.5	-15.4	-2.9	-15.2	2.00	2.00	0.00
3,332.2	6.64	190.75	3,331.4	-18.9	-3.6	-18.7	2.00	2.00	0.00
3,400.0	6.64	190.75	3,398.8	-26.6	-5.1	-26.3	0.00	0.00	0.00
3,500.0	6.64	190.75	3,498.1	-38.0	-7.2	-37.5	0.00	0.00	0.00
3,600.0	6.64	190.75	3,597.5	-49.3	-9.4	-48.8	0.00	0.00	0.00
3,700.0	6.64	190.75	3,696.8	-60.7	-11.5	-60.0	0.00	0.00	0.00
3,800.0	6.64	190.75	3,796.1	-72.1	-13.7	-71.3	0.00	0.00	0.00
3,900.0	6.64	190.75	3,895.4	-83.4	-15.8	-82.5	0.00	0.00	0.00
4,000.0	6.64	190.75	3,994.8	-94.8	-18.0	-93.7	0.00	0.00	0.00
4,100.0	6.64	190.75	4,094.1	-106.2	-20.2	-105.0	0.00	0.00	0.00
4,200.0	6.64	190.75	4,193.4	-117.5	-22.3	-116.2	0.00	0.00	0.00
4,300.0	6.64	190.75	4,292.8	-128.9	-24.5	-127.4	0.00	0.00	0.00
4,400.0	6.64	190.75	4,392.1	-140.3	-26.6	-138.7	0.00	0.00	0.00
4,500.0	6.64	190.75	4,491.4	-151.6	-28.8	-149.9	0.00	0.00	0.00
4,600.0	6.64	190.75	4,590.7	-163.0	-31.0	-161.2	0.00	0.00	0.00
4,700.0	6.64	190.75	4,690.1	-174.4	-33.1	-172.4	0.00	0.00	0.00
4,800.0	6.64	190.75	4,789.4	-185.7	-35.3	-183.6	0.00	0.00	0.00
4,900.0	6.64	190.75	4,888.7	-197.1	-37.4	-194.9	0.00	0.00	0.00
5,000.0	6.64	190.75	4,988.1	-208.5	-39.6	-206.1	0.00	0.00	0.00
5,100.0	6.64	190.75	5,087.4	-219.8	-41.7	-217.3	0.00	0.00	0.00
5,200.0	6.64	190.75	5,186.7	-231.2	-43.9	-228.6	0.00	0.00	0.00

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Site:	Mamba 30 State Com	North Reference:	Grid
Well:	#707H	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	6.64	190.75	5,286.0	-242.6	-46.1	-239.8	0.00	0.00	0.00
5,400.0	6.64	190.75	5,385.4	-253.9	-48.2	-251.0	0.00	0.00	0.00
5,500.0	6.64	190.75	5,484.7	-265.3	-50.4	-262.3	0.00	0.00	0.00
5,600.0	6.64	190.75	5,584.0	-276.7	-52.5	-273.5	0.00	0.00	0.00
5,700.0	6.64	190.75	5,683.4	-288.0	-54.7	-284.8	0.00	0.00	0.00
5,800.0	6.64	190.75	5,782.7	-299.4	-56.9	-296.0	0.00	0.00	0.00
5,900.0	6.64	190.75	5,882.0	-310.7	-59.0	-307.2	0.00	0.00	0.00
6,000.0	6.64	190.75	5,981.3	-322.1	-61.2	-318.5	0.00	0.00	0.00
6,100.0	6.64	190.75	6,080.7	-333.5	-63.3	-329.7	0.00	0.00	0.00
6,200.0	6.64	190.75	6,180.0	-344.8	-65.5	-340.9	0.00	0.00	0.00
6,300.0	6.64	190.75	6,279.3	-356.2	-67.6	-352.2	0.00	0.00	0.00
6,400.0	6.64	190.75	6,378.7	-367.6	-69.8	-363.4	0.00	0.00	0.00
6,500.0	6.64	190.75	6,478.0	-378.9	-72.0	-374.7	0.00	0.00	0.00
6,600.0	6.64	190.75	6,577.3	-390.3	-74.1	-385.9	0.00	0.00	0.00
6,700.0	6.64	190.75	6,676.6	-401.7	-76.3	-397.1	0.00	0.00	0.00
6,800.0	6.64	190.75	6,776.0	-413.0	-78.4	-408.4	0.00	0.00	0.00
6,900.0	6.64	190.75	6,875.3	-424.4	-80.6	-419.6	0.00	0.00	0.00
7,000.0	6.64	190.75	6,974.6	-435.8	-82.8	-430.8	0.00	0.00	0.00
7,100.0	6.64	190.75	7,074.0	-447.1	-84.9	-442.1	0.00	0.00	0.00
7,200.0	6.64	190.75	7,173.3	-458.5	-87.1	-453.3	0.00	0.00	0.00
7,300.0	6.64	190.75	7,272.6	-469.9	-89.2	-464.6	0.00	0.00	0.00
7,400.0	6.64	190.75	7,371.9	-481.2	-91.4	-475.8	0.00	0.00	0.00
7,500.0	6.64	190.75	7,471.3	-492.6	-93.5	-487.0	0.00	0.00	0.00
7,600.0	6.64	190.75	7,570.6	-504.0	-95.7	-498.3	0.00	0.00	0.00
7,700.0	6.64	190.75	7,669.9	-515.3	-97.9	-509.5	0.00	0.00	0.00
7,800.0	6.64	190.75	7,769.3	-526.7	-100.0	-520.7	0.00	0.00	0.00
7,900.0	6.64	190.75	7,868.6	-538.1	-102.2	-532.0	0.00	0.00	0.00
8,000.0	6.64	190.75	7,967.9	-549.4	-104.3	-543.2	0.00	0.00	0.00
8,100.0	6.64	190.75	8,067.2	-560.8	-106.5	-554.4	0.00	0.00	0.00
8,200.0	6.64	190.75	8,166.6	-572.2	-108.7	-565.7	0.00	0.00	0.00
8,300.0	6.64	190.75	8,265.9	-583.5	-110.8	-576.9	0.00	0.00	0.00
8,400.0	6.64	190.75	8,365.2	-594.9	-113.0	-588.2	0.00	0.00	0.00
8,500.0	6.64	190.75	8,464.6	-606.3	-115.1	-599.4	0.00	0.00	0.00
8,600.0	6.64	190.75	8,563.9	-617.6	-117.3	-610.6	0.00	0.00	0.00
8,700.0	6.64	190.75	8,663.2	-629.0	-119.4	-621.9	0.00	0.00	0.00
8,800.0	6.64	190.75	8,762.5	-640.4	-121.6	-633.1	0.00	0.00	0.00
8,900.0	6.64	190.75	8,861.9	-651.7	-123.8	-644.3	0.00	0.00	0.00
9,000.0	6.64	190.75	8,961.2	-663.1	-125.9	-655.6	0.00	0.00	0.00
9,100.0	6.64	190.75	9,060.5	-674.5	-128.1	-666.8	0.00	0.00	0.00
9,200.0	6.64	190.75	9,159.9	-685.8	-130.2	-678.1	0.00	0.00	0.00
9,300.0	6.64	190.75	9,259.2	-697.2	-132.4	-689.3	0.00	0.00	0.00
9,400.0	6.64	190.75	9,358.5	-708.5	-134.6	-700.5	0.00	0.00	0.00
9,500.0	6.64	190.75	9,457.8	-719.9	-136.7	-711.8	0.00	0.00	0.00
9,600.0	6.64	190.75	9,557.2	-731.3	-138.9	-723.0	0.00	0.00	0.00
9,700.0	6.64	190.75	9,656.5	-742.6	-141.0	-734.2	0.00	0.00	0.00
9,800.0	6.64	190.75	9,755.8	-754.0	-143.2	-745.5	0.00	0.00	0.00
9,900.0	6.64	190.75	9,855.2	-765.4	-145.3	-756.7	0.00	0.00	0.00
10,000.0	6.64	190.75	9,954.5	-776.7	-147.5	-768.0	0.00	0.00	0.00
10,100.0	6.64	190.75	10,053.8	-788.1	-149.7	-779.2	0.00	0.00	0.00
10,200.0	6.64	190.75	10,153.1	-799.5	-151.8	-790.4	0.00	0.00	0.00
10,300.0	6.64	190.75	10,252.5	-810.8	-154.0	-801.7	0.00	0.00	0.00
10,400.0	6.64	190.75	10,351.8	-822.2	-156.1	-812.9	0.00	0.00	0.00
10,500.0	6.64	190.75	10,451.1	-833.6	-158.3	-824.1	0.00	0.00	0.00
10,600.0	6.64	190.75	10,550.5	-844.9	-160.5	-835.4	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	6.64	190.75	10,649.8	-856.3	-162.6	-846.6	0.00	0.00	0.00
10,800.0	6.64	190.75	10,749.1	-867.7	-164.8	-857.8	0.00	0.00	0.00
10,900.0	6.64	190.75	10,848.4	-879.0	-166.9	-869.1	0.00	0.00	0.00
11,000.0	6.64	190.75	10,947.8	-890.4	-169.1	-880.3	0.00	0.00	0.00
11,100.0	6.64	190.75	11,047.1	-901.8	-171.2	-891.6	0.00	0.00	0.00
11,200.0	6.64	190.75	11,146.4	-913.1	-173.4	-902.8	0.00	0.00	0.00
11,300.0	6.64	190.75	11,245.8	-924.5	-175.6	-914.0	0.00	0.00	0.00
11,400.0	6.64	190.75	11,345.1	-935.9	-177.7	-925.3	0.00	0.00	0.00
11,500.0	6.64	190.75	11,444.4	-947.2	-179.9	-936.5	0.00	0.00	0.00
11,600.0	6.64	190.75	11,543.7	-958.6	-182.0	-947.7	0.00	0.00	0.00
11,700.0	6.64	190.75	11,643.1	-970.0	-184.2	-959.0	0.00	0.00	0.00
11,710.1	6.64	190.75	11,653.1	-971.1	-184.4	-960.1	0.00	0.00	0.00
11,800.0	4.84	190.75	11,742.5	-979.9	-186.1	-968.9	2.00	-2.00	0.00
11,900.0	2.84	190.75	11,842.3	-986.5	-187.3	-975.4	2.00	-2.00	0.00
12,000.0	0.84	190.75	11,942.3	-989.7	-187.9	-978.5	2.00	-2.00	0.00
12,042.2	0.00	0.00	11,984.5	-990.0	-188.0	-978.8	2.00	-2.00	0.00
KOP (Mamba 30 State #707H)									
12,050.0	0.93	359.68	11,992.3	-989.9	-188.0	-978.7	12.00	12.00	0.00
12,075.0	3.93	359.68	12,017.2	-988.9	-188.0	-977.7	12.00	12.00	0.00
12,100.0	6.93	359.68	12,042.1	-986.5	-188.0	-975.3	12.00	12.00	0.00
12,125.0	9.93	359.68	12,066.8	-982.8	-188.0	-971.7	12.00	12.00	0.00
12,150.0	12.93	359.68	12,091.3	-977.9	-188.1	-966.7	12.00	12.00	0.00
12,175.0	15.93	359.68	12,115.6	-971.7	-188.1	-960.5	12.00	12.00	0.00
12,200.0	18.93	359.68	12,139.4	-964.2	-188.1	-953.0	12.00	12.00	0.00
12,225.0	21.93	359.68	12,162.8	-955.4	-188.2	-944.3	12.00	12.00	0.00
12,250.0	24.93	359.68	12,185.8	-945.5	-188.3	-934.4	12.00	12.00	0.00
12,275.0	27.93	359.68	12,208.1	-934.4	-188.3	-923.2	12.00	12.00	0.00
12,300.0	30.93	359.68	12,229.9	-922.1	-188.4	-911.0	12.00	12.00	0.00
12,325.0	33.93	359.68	12,251.0	-908.7	-188.5	-897.6	12.00	12.00	0.00
12,350.0	36.93	359.68	12,271.4	-894.2	-188.5	-883.1	12.00	12.00	0.00
12,375.0	39.93	359.68	12,291.0	-878.7	-188.6	-867.6	12.00	12.00	0.00
12,400.0	42.93	359.68	12,309.7	-862.1	-188.7	-851.1	12.00	12.00	0.00
12,425.0	45.93	359.68	12,327.6	-844.6	-188.8	-833.6	12.00	12.00	0.00
12,445.7	48.42	359.68	12,341.6	-829.4	-188.9	-818.4	12.00	12.00	0.00
FTP (Mamba 30 State #707H)									
12,450.0	48.93	359.68	12,344.5	-826.2	-188.9	-815.2	12.00	12.00	0.00
12,475.0	51.93	359.68	12,360.4	-806.9	-189.0	-795.9	12.00	12.00	0.00
12,500.0	54.93	359.68	12,375.3	-786.9	-189.1	-775.9	12.00	12.00	0.00
12,525.0	57.93	359.68	12,389.1	-766.0	-189.3	-755.1	12.00	12.00	0.00
12,550.0	60.93	359.68	12,401.8	-744.5	-189.4	-733.6	12.00	12.00	0.00
12,575.0	63.93	359.68	12,413.4	-722.4	-189.5	-711.4	12.00	12.00	0.00
12,600.0	66.93	359.68	12,423.8	-699.6	-189.6	-688.7	12.00	12.00	0.00
12,625.0	69.93	359.68	12,433.0	-676.4	-189.8	-665.5	12.00	12.00	0.00
12,650.0	72.93	359.68	12,440.9	-652.7	-189.9	-641.8	12.00	12.00	0.00
12,675.0	75.93	359.68	12,447.6	-628.6	-190.0	-617.8	12.00	12.00	0.00
12,700.0	78.93	359.68	12,453.1	-604.2	-190.2	-593.4	12.00	12.00	0.00
12,725.0	81.93	359.68	12,457.2	-579.6	-190.3	-568.8	12.00	12.00	0.00
12,750.0	84.93	359.68	12,460.1	-554.7	-190.5	-544.0	12.00	12.00	0.00
12,775.0	87.93	359.68	12,461.7	-529.8	-190.6	-519.1	12.00	12.00	0.00
12,792.2	90.00	359.68	12,462.0	-512.5	-190.7	-501.9	12.00	12.00	0.00
12,800.0	90.00	359.68	12,462.0	-504.8	-190.7	-494.1	0.00	0.00	0.00
12,900.0	90.00	359.68	12,462.0	-404.8	-191.3	-394.2	0.00	0.00	0.00
13,000.0	90.00	359.68	12,462.0	-304.8	-191.9	-294.3	0.00	0.00	0.00
13,100.0	90.00	359.68	12,462.0	-204.8	-192.4	-194.4	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3588.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3588.0usft
Site:	Mamba 30 State Com	North Reference:	Grid
Well:	#707H	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)
13,200.0	90.00	359.68	12,462.0	-104.8	-193.0	-94.5	0.00	0.00	0.00
13,300.0	90.00	359.68	12,462.0	-4.8	-193.6	5.4	0.00	0.00	0.00
13,400.0	90.00	359.68	12,462.0	95.2	-194.1	105.2	0.00	0.00	0.00
13,500.0	90.00	359.68	12,462.0	195.2	-194.7	205.1	0.00	0.00	0.00
13,600.0	90.00	359.68	12,462.0	295.2	-195.3	305.0	0.00	0.00	0.00
13,700.0	90.00	359.68	12,462.0	395.2	-195.8	404.9	0.00	0.00	0.00
13,800.0	90.00	359.68	12,462.0	495.2	-196.4	504.8	0.00	0.00	0.00
13,900.0	90.00	359.68	12,462.0	595.2	-197.0	604.7	0.00	0.00	0.00
14,000.0	90.00	359.68	12,462.0	695.2	-197.5	704.6	0.00	0.00	0.00
14,100.0	90.00	359.68	12,462.0	795.2	-198.1	804.5	0.00	0.00	0.00
14,200.0	90.00	359.68	12,462.0	895.2	-198.7	904.4	0.00	0.00	0.00
14,300.0	90.00	359.68	12,462.0	995.2	-199.2	1,004.3	0.00	0.00	0.00
14,400.0	90.00	359.68	12,462.0	1,095.2	-199.8	1,104.1	0.00	0.00	0.00
14,500.0	90.00	359.68	12,462.0	1,195.2	-200.4	1,204.0	0.00	0.00	0.00
14,600.0	90.00	359.68	12,462.0	1,295.2	-200.9	1,303.9	0.00	0.00	0.00
14,700.0	90.00	359.68	12,462.0	1,395.2	-201.5	1,403.8	0.00	0.00	0.00
14,800.0	90.00	359.68	12,462.0	1,495.2	-202.1	1,503.7	0.00	0.00	0.00
14,900.0	90.00	359.68	12,462.0	1,595.2	-202.6	1,603.6	0.00	0.00	0.00
15,000.0	90.00	359.68	12,462.0	1,695.2	-203.2	1,703.5	0.00	0.00	0.00
15,100.0	90.00	359.68	12,462.0	1,795.2	-203.7	1,803.4	0.00	0.00	0.00
15,200.0	90.00	359.68	12,462.0	1,895.2	-204.3	1,903.3	0.00	0.00	0.00
15,300.0	90.00	359.68	12,462.0	1,995.2	-204.9	2,003.2	0.00	0.00	0.00
15,400.0	90.00	359.68	12,462.0	2,095.2	-205.4	2,103.1	0.00	0.00	0.00
15,500.0	90.00	359.68	12,462.0	2,195.2	-206.0	2,202.9	0.00	0.00	0.00
15,600.0	90.00	359.68	12,462.0	2,295.2	-206.6	2,302.8	0.00	0.00	0.00
15,700.0	90.00	359.68	12,462.0	2,395.2	-207.1	2,402.7	0.00	0.00	0.00
15,800.0	90.00	359.68	12,462.0	2,495.2	-207.7	2,502.6	0.00	0.00	0.00
15,900.0	90.00	359.68	12,462.0	2,595.2	-208.3	2,602.5	0.00	0.00	0.00
16,000.0	90.00	359.68	12,462.0	2,695.2	-208.8	2,702.4	0.00	0.00	0.00
16,100.0	90.00	359.68	12,462.0	2,795.2	-209.4	2,802.3	0.00	0.00	0.00
16,200.0	90.00	359.68	12,462.0	2,895.2	-210.0	2,902.2	0.00	0.00	0.00
16,300.0	90.00	359.68	12,462.0	2,995.2	-210.5	3,002.1	0.00	0.00	0.00
16,400.0	90.00	359.68	12,462.0	3,095.2	-211.1	3,102.0	0.00	0.00	0.00
16,500.0	90.00	359.68	12,462.0	3,195.2	-211.7	3,201.9	0.00	0.00	0.00
16,600.0	90.00	359.68	12,462.0	3,295.2	-212.2	3,301.7	0.00	0.00	0.00
16,700.0	90.00	359.68	12,462.0	3,395.2	-212.8	3,401.6	0.00	0.00	0.00
16,800.0	90.00	359.68	12,462.0	3,495.2	-213.4	3,501.5	0.00	0.00	0.00
16,900.0	90.00	359.68	12,462.0	3,595.2	-213.9	3,601.4	0.00	0.00	0.00
17,000.0	90.00	359.68	12,462.0	3,695.1	-214.5	3,701.3	0.00	0.00	0.00
17,100.0	90.00	359.68	12,462.0	3,795.1	-215.1	3,801.2	0.00	0.00	0.00
17,200.0	90.00	359.68	12,462.0	3,895.1	-215.6	3,901.1	0.00	0.00	0.00
17,300.0	90.00	359.68	12,462.0	3,995.1	-216.2	4,001.0	0.00	0.00	0.00
17,400.0	90.00	359.68	12,462.0	4,095.1	-216.8	4,100.9	0.00	0.00	0.00
17,443.9	90.00	359.68	12,462.0	4,139.0	-217.0	4,144.7	0.00	0.00	0.00

PBHL (Mamba 30 State #707H)

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3588.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3588.0usft
Site:	Mamba 30 State Com	North Reference:	Grid
Well:	#707H	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									
KOP (Mamba 30 State # - plan hits target center - Point	0.00	0.00	11,984.5	-990.0	-188.0	430,522.00	763,706.00	32° 10' 53.546 N	103° 36' 52.475 W
FTP (Mamba 30 State # - plan misses target center by 163.4usft at 12445.7usft MD (12341.6 TVD, -829.4 N, -188.9 E) - Point	0.00	0.00	12,462.0	-940.0	-188.0	430,572.00	763,706.00	32° 10' 54.041 N	103° 36' 52.471 W
PBHL (Mamba 30 State - plan hits target center - Point	0.00	0.00	12,462.0	4,139.0	-217.0	435,651.00	763,677.00	32° 11' 44.301 N	103° 36' 52.414 W



Lea County, NM (NAD 83 NME)

Mamba 30 State Com #707H

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: #707H

KB = 25 @ 3588.0ust
Northing 431512.00 Easting 763894.00 Latitude 32° 11' 3.330 N Longitude 103° 38' 50.210 W

SECTION DETAILS

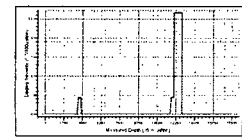
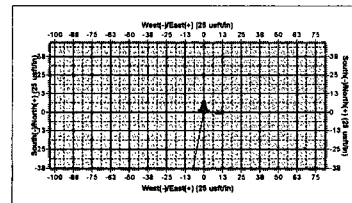
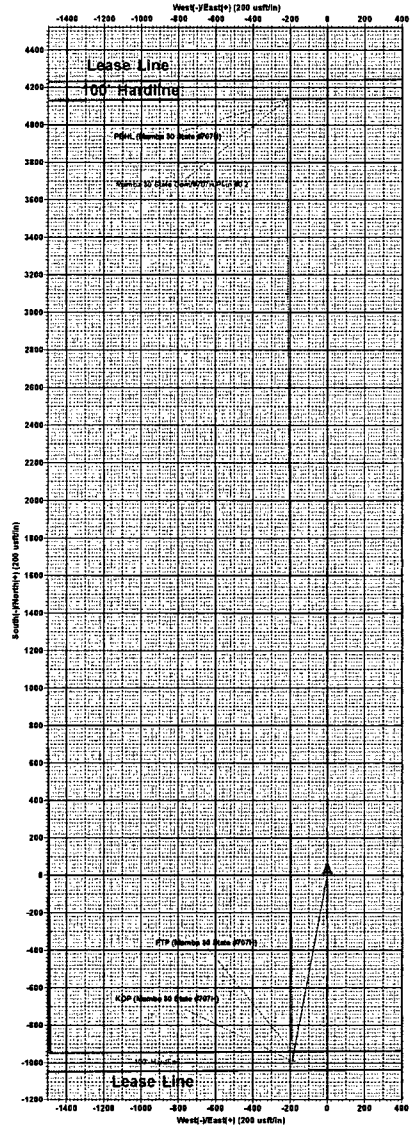
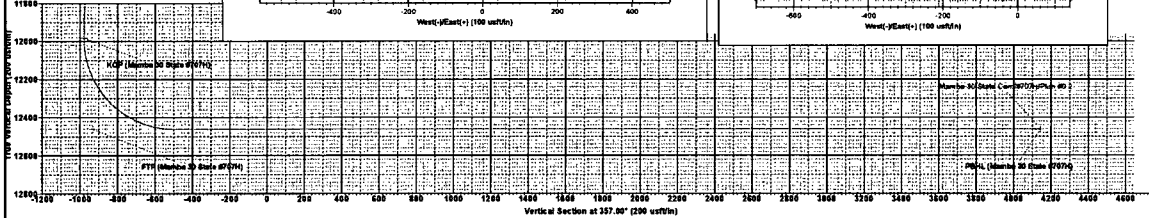
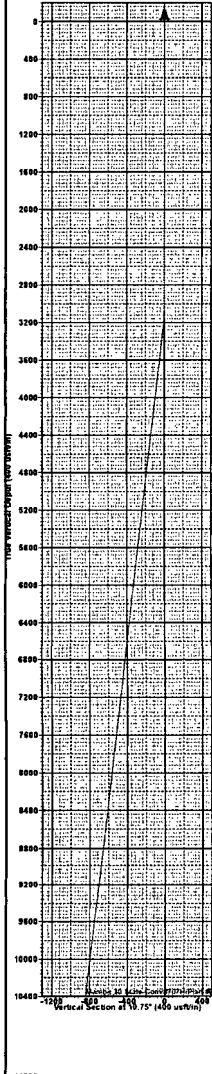
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3332.2	6.64	190.75	3331.4	-18.9	-3.6	2.00	190.75	-18.7	
4	11710.1	6.64	190.75	11653.1	-971.1	-184.4	0.00	0.00	-960.1	
5	12042.2	0.00	0.00	11984.5	-950.0	-188.0	2.00	180.00	-978.8	KOP (Mamba 30 State #707H)
6	12792.2	90.00	359.68	12462.0	-512.5	-190.7	12.00	359.68	-501.9	
7	17443.9	90.00	359.68	12462.0	4139.0	-217.0	0.00	0.00	4144.7	PBHL (Mamba 30 State #707H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Mamba 30 State #707H)	11984.5	-890.0	-188.0	430822.00	763708.00
PBHL (Mamba 30 State #707H)	12462.0	4139.0	-217.0	430881.00	763677.00
FTP (Mamba 30 State #707H)	12462.0	-840.0	-188.0	430872.00	763708.00



Lea County, NM (NAD 83 NME)
Mamba 30 State Com #707H
Plan #0.2