



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Mamba 30 State Com

#743H

OH

Plan: Plan #0.1

Standard Planning Report

05 November, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Mamba 30 State Com
Well: #743H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #743H
TVD Reference: KB = 25 @ 3588.0usft
MD Reference: KB = 25 @ 3588.0usft
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	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	#743H			
Well Position	+N/-S	705.0 usft	Northing:	431,512.00 usft
	+E/-W	-3,126.0 usft	Easting:	763,927.00 usft
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	11/5/2018	6.82	60.00	47,766.58930651

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	1.04

Plan Survey Tool Program	Date	11/5/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	17,889.4 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,310.7	6.21	173.99	3,310.1	-16.7	1.8	2.00	2.00	0.00	173.99	
12,177.1	6.21	173.99	12,124.4	-971.3	102.2	0.00	0.00	0.00	0.00	
12,487.8	0.00	0.01	12,434.5	-988.0	104.0	2.00	-2.00	0.00	180.00	KOP (Mamba 30 Sta)
13,237.8	90.00	359.68	12,912.0	-510.5	101.3	12.00	12.00	-0.04	359.68	
17,889.4	90.00	359.68	12,912.0	4,141.0	75.0	0.00	0.00	0.00	0.00	PBHL (Mamba 30 Sta)



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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)
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	173.99	3,100.0	-1.7	0.2	-1.7	2.00	2.00	0.00
3,200.0	4.00	173.99	3,199.8	-6.9	0.7	-6.9	2.00	2.00	0.00
3,300.0	6.00	173.99	3,299.5	-15.6	1.6	-15.6	2.00	2.00	0.00
3,310.7	6.21	173.99	3,310.1	-16.7	1.8	-16.7	2.00	2.00	0.00
3,400.0	6.21	173.99	3,398.9	-26.4	2.8	-26.3	0.00	0.00	0.00
3,500.0	6.21	173.99	3,498.3	-37.1	3.9	-37.0	0.00	0.00	0.00
3,600.0	6.21	173.99	3,597.7	-47.9	5.0	-47.8	0.00	0.00	0.00
3,700.0	6.21	173.99	3,697.1	-58.6	6.2	-58.5	0.00	0.00	0.00
3,800.0	6.21	173.99	3,796.5	-69.4	7.3	-69.3	0.00	0.00	0.00
3,900.0	6.21	173.99	3,895.9	-80.2	8.4	-80.0	0.00	0.00	0.00
4,000.0	6.21	173.99	3,995.3	-90.9	9.6	-90.8	0.00	0.00	0.00
4,100.0	6.21	173.99	4,094.8	-101.7	10.7	-101.5	0.00	0.00	0.00
4,200.0	6.21	173.99	4,194.2	-112.5	11.8	-112.2	0.00	0.00	0.00
4,300.0	6.21	173.99	4,293.6	-123.2	13.0	-123.0	0.00	0.00	0.00
4,400.0	6.21	173.99	4,393.0	-134.0	14.1	-133.7	0.00	0.00	0.00
4,500.0	6.21	173.99	4,492.4	-144.8	15.2	-144.5	0.00	0.00	0.00
4,600.0	6.21	173.99	4,591.8	-155.5	16.4	-155.2	0.00	0.00	0.00
4,700.0	6.21	173.99	4,691.2	-166.3	17.5	-166.0	0.00	0.00	0.00
4,800.0	6.21	173.99	4,790.6	-177.1	18.6	-176.7	0.00	0.00	0.00
4,900.0	6.21	173.99	4,890.1	-187.8	19.8	-187.4	0.00	0.00	0.00
5,000.0	6.21	173.99	4,989.5	-198.6	20.9	-198.2	0.00	0.00	0.00
5,100.0	6.21	173.99	5,088.9	-209.4	22.0	-208.9	0.00	0.00	0.00
5,200.0	6.21	173.99	5,188.3	-220.1	23.2	-219.7	0.00	0.00	0.00



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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)
5,300.0	6.21	173.99	5,287.7	-230.9	24.3	-230.4	0.00	0.00	0.00
5,400.0	6.21	173.99	5,387.1	-241.7	25.4	-241.2	0.00	0.00	0.00
5,500.0	6.21	173.99	5,486.5	-252.4	26.6	-251.9	0.00	0.00	0.00
5,600.0	6.21	173.99	5,585.9	-263.2	27.7	-262.7	0.00	0.00	0.00
5,700.0	6.21	173.99	5,685.4	-274.0	28.8	-273.4	0.00	0.00	0.00
5,800.0	6.21	173.99	5,784.8	-284.7	30.0	-284.1	0.00	0.00	0.00
5,900.0	6.21	173.99	5,884.2	-295.5	31.1	-294.9	0.00	0.00	0.00
6,000.0	6.21	173.99	5,983.6	-306.3	32.2	-305.6	0.00	0.00	0.00
6,100.0	6.21	173.99	6,083.0	-317.0	33.4	-316.4	0.00	0.00	0.00
6,200.0	6.21	173.99	6,182.4	-327.8	34.5	-327.1	0.00	0.00	0.00
6,300.0	6.21	173.99	6,281.8	-338.6	35.6	-337.9	0.00	0.00	0.00
6,400.0	6.21	173.99	6,381.2	-349.3	36.8	-348.6	0.00	0.00	0.00
6,500.0	6.21	173.99	6,480.6	-360.1	37.9	-359.3	0.00	0.00	0.00
6,600.0	6.21	173.99	6,580.1	-370.9	39.0	-370.1	0.00	0.00	0.00
6,700.0	6.21	173.99	6,679.5	-381.6	40.2	-380.8	0.00	0.00	0.00
6,800.0	6.21	173.99	6,778.9	-392.4	41.3	-391.6	0.00	0.00	0.00
6,900.0	6.21	173.99	6,878.3	-403.1	42.4	-402.3	0.00	0.00	0.00
7,000.0	6.21	173.99	6,977.7	-413.9	43.6	-413.1	0.00	0.00	0.00
7,100.0	6.21	173.99	7,077.1	-424.7	44.7	-423.8	0.00	0.00	0.00
7,200.0	6.21	173.99	7,176.5	-435.4	45.8	-434.5	0.00	0.00	0.00
7,300.0	6.21	173.99	7,275.9	-446.2	47.0	-445.3	0.00	0.00	0.00
7,400.0	6.21	173.99	7,375.4	-457.0	48.1	-456.0	0.00	0.00	0.00
7,500.0	6.21	173.99	7,474.8	-467.7	49.2	-466.8	0.00	0.00	0.00
7,600.0	6.21	173.99	7,574.2	-478.5	50.4	-477.5	0.00	0.00	0.00
7,700.0	6.21	173.99	7,673.6	-489.3	51.5	-488.3	0.00	0.00	0.00
7,800.0	6.21	173.99	7,773.0	-500.0	52.6	-499.0	0.00	0.00	0.00
7,900.0	6.21	173.99	7,872.4	-510.8	53.8	-509.7	0.00	0.00	0.00
8,000.0	6.21	173.99	7,971.8	-521.6	54.9	-520.5	0.00	0.00	0.00
8,100.0	6.21	173.99	8,071.2	-532.3	56.0	-531.2	0.00	0.00	0.00
8,200.0	6.21	173.99	8,170.7	-543.1	57.2	-542.0	0.00	0.00	0.00
8,300.0	6.21	173.99	8,270.1	-553.9	58.3	-552.7	0.00	0.00	0.00
8,400.0	6.21	173.99	8,369.5	-564.6	59.4	-563.5	0.00	0.00	0.00
8,500.0	6.21	173.99	8,468.9	-575.4	60.6	-574.2	0.00	0.00	0.00
8,600.0	6.21	173.99	8,568.3	-586.2	61.7	-584.9	0.00	0.00	0.00
8,700.0	6.21	173.99	8,667.7	-596.9	62.8	-595.7	0.00	0.00	0.00
8,800.0	6.21	173.99	8,767.1	-607.7	64.0	-606.4	0.00	0.00	0.00
8,900.0	6.21	173.99	8,866.5	-618.5	65.1	-617.2	0.00	0.00	0.00
9,000.0	6.21	173.99	8,966.0	-629.2	66.2	-627.9	0.00	0.00	0.00
9,100.0	6.21	173.99	9,065.4	-640.0	67.4	-638.7	0.00	0.00	0.00
9,200.0	6.21	173.99	9,164.8	-650.8	68.5	-649.4	0.00	0.00	0.00
9,300.0	6.21	173.99	9,264.2	-661.5	69.6	-660.2	0.00	0.00	0.00
9,400.0	6.21	173.99	9,363.6	-672.3	70.8	-670.9	0.00	0.00	0.00
9,500.0	6.21	173.99	9,463.0	-683.1	71.9	-681.6	0.00	0.00	0.00
9,600.0	6.21	173.99	9,562.4	-693.8	73.0	-692.4	0.00	0.00	0.00
9,700.0	6.21	173.99	9,661.8	-704.6	74.2	-703.1	0.00	0.00	0.00
9,800.0	6.21	173.99	9,761.3	-715.3	75.3	-713.9	0.00	0.00	0.00
9,900.0	6.21	173.99	9,860.7	-726.1	76.4	-724.6	0.00	0.00	0.00
10,000.0	6.21	173.99	9,960.1	-736.9	77.6	-735.4	0.00	0.00	0.00
10,100.0	6.21	173.99	10,059.5	-747.6	78.7	-746.1	0.00	0.00	0.00
10,200.0	6.21	173.99	10,158.9	-758.4	79.8	-756.8	0.00	0.00	0.00
10,300.0	6.21	173.99	10,258.3	-769.2	81.0	-767.6	0.00	0.00	0.00
10,400.0	6.21	173.99	10,357.7	-779.9	82.1	-778.3	0.00	0.00	0.00
10,500.0	6.21	173.99	10,457.1	-790.7	83.2	-789.1	0.00	0.00	0.00
10,600.0	6.21	173.99	10,556.6	-801.5	84.4	-799.8	0.00	0.00	0.00



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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	6.21	173.99	10,656.0	-812.2	85.5	-810.6	0.00	0.00	0.00	
10,800.0	6.21	173.99	10,755.4	-823.0	86.6	-821.3	0.00	0.00	0.00	
10,900.0	6.21	173.99	10,854.8	-833.8	87.8	-832.0	0.00	0.00	0.00	
11,000.0	6.21	173.99	10,954.2	-844.5	88.9	-842.8	0.00	0.00	0.00	
11,100.0	6.21	173.99	11,053.6	-855.3	90.0	-853.5	0.00	0.00	0.00	
11,200.0	6.21	173.99	11,153.0	-866.1	91.2	-864.3	0.00	0.00	0.00	
11,300.0	6.21	173.99	11,252.4	-876.8	92.3	-875.0	0.00	0.00	0.00	
11,400.0	6.21	173.99	11,351.9	-887.6	93.4	-885.8	0.00	0.00	0.00	
11,500.0	6.21	173.99	11,451.3	-898.4	94.6	-896.5	0.00	0.00	0.00	
11,600.0	6.21	173.99	11,550.7	-909.1	95.7	-907.2	0.00	0.00	0.00	
11,700.0	6.21	173.99	11,650.1	-919.9	96.8	-918.0	0.00	0.00	0.00	
11,800.0	6.21	173.99	11,749.5	-930.7	98.0	-928.7	0.00	0.00	0.00	
11,900.0	6.21	173.99	11,848.9	-941.4	99.1	-939.5	0.00	0.00	0.00	
12,000.0	6.21	173.99	11,948.3	-952.2	100.2	-950.2	0.00	0.00	0.00	
12,100.0	6.21	173.99	12,047.7	-963.0	101.4	-961.0	0.00	0.00	0.00	
12,177.1	6.21	173.99	12,124.4	-971.3	102.2	-969.2	0.00	0.00	0.00	
12,200.0	5.76	173.99	12,147.2	-973.6	102.5	-971.6	2.00	-2.00	0.00	
12,300.0	3.76	173.99	12,246.8	-981.9	103.4	-979.8	2.00	-2.00	0.00	
12,400.0	1.76	173.99	12,346.7	-986.7	103.9	-984.6	2.00	-2.00	0.00	
12,487.8	0.00	0.01	12,434.5	-988.0	104.0	-986.0	2.00	-2.00	0.00	
KOP (Mamba 30 State #743H)										
12,500.0	1.46	359.68	12,446.7	-987.8	104.0	-985.8	12.00	12.00	0.00	
12,525.0	4.46	359.68	12,471.6	-986.6	104.0	-984.5	12.00	12.00	0.00	
12,550.0	7.46	359.68	12,496.5	-984.0	104.0	-981.9	12.00	12.00	0.00	
12,575.0	10.46	359.68	12,521.2	-980.1	104.0	-978.0	12.00	12.00	0.00	
12,600.0	13.46	359.68	12,545.7	-974.9	103.9	-972.8	12.00	12.00	0.00	
12,625.0	16.46	359.68	12,569.8	-968.4	103.9	-966.4	12.00	12.00	0.00	
12,650.0	19.46	359.68	12,593.6	-960.7	103.8	-958.7	12.00	12.00	0.00	
12,675.0	22.46	359.68	12,616.9	-951.8	103.8	-949.7	12.00	12.00	0.00	
12,700.0	25.46	359.68	12,639.8	-941.6	103.7	-939.6	12.00	12.00	0.00	
12,725.0	28.46	359.68	12,662.0	-930.3	103.7	-928.3	12.00	12.00	0.00	
12,750.0	31.46	359.68	12,683.7	-917.8	103.6	-915.8	12.00	12.00	0.00	
12,775.0	34.46	359.68	12,704.7	-904.2	103.5	-902.2	12.00	12.00	0.00	
12,800.0	37.46	359.68	12,724.9	-889.5	103.4	-887.5	12.00	12.00	0.00	
12,825.0	40.46	359.68	12,744.3	-873.8	103.4	-871.8	12.00	12.00	0.00	
12,850.0	43.46	359.68	12,762.9	-857.1	103.3	-855.1	12.00	12.00	0.00	
12,875.0	46.46	359.68	12,780.6	-839.4	103.2	-837.4	12.00	12.00	0.00	
12,889.8	48.23	359.68	12,790.6	-828.6	103.1	-826.6	12.00	12.00	0.00	
FTP (Mamba 30 State #743H)										
12,900.0	49.46	359.68	12,797.4	-820.9	103.1	-818.9	12.00	12.00	0.00	
12,925.0	52.46	359.68	12,813.1	-801.5	102.9	-799.5	12.00	12.00	0.00	
12,950.0	55.46	359.68	12,827.8	-781.2	102.8	-779.3	12.00	12.00	0.00	
12,975.0	58.46	359.68	12,841.4	-760.3	102.7	-758.3	12.00	12.00	0.00	
13,000.0	61.46	359.68	12,854.0	-738.6	102.6	-736.7	12.00	12.00	0.00	
13,025.0	64.46	359.68	12,865.3	-716.4	102.5	-714.4	12.00	12.00	0.00	
13,050.0	67.46	359.68	12,875.5	-693.6	102.3	-691.6	12.00	12.00	0.00	
13,075.0	70.46	359.68	12,884.5	-670.2	102.2	-668.3	12.00	12.00	0.00	
13,100.0	73.46	359.68	12,892.2	-646.5	102.1	-644.5	12.00	12.00	0.00	
13,125.0	76.46	359.68	12,898.7	-622.3	101.9	-620.4	12.00	12.00	0.00	
13,150.0	79.46	359.68	12,903.9	-597.9	101.8	-595.9	12.00	12.00	0.00	
13,175.0	82.46	359.68	12,907.8	-573.2	101.7	-571.2	12.00	12.00	0.00	
13,200.0	85.46	359.68	12,910.5	-548.3	101.5	-546.4	12.00	12.00	0.00	
13,225.0	88.46	359.68	12,911.8	-523.4	101.4	-521.4	12.00	12.00	0.00	
13,237.8	90.00	359.68	12,912.0	-510.5	101.3	-508.6	12.00	12.00	0.00	



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Mamba 30 State Com
 Well: #743H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25 @ 3588.0usft
 MD Reference: KB = 25 @ 3588.0usft
 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)
13,300.0	90.00	359.68	12,912.0	-448.4	100.9	-446.5	0.00	0.00	0.00
13,400.0	90.00	359.68	12,912.0	-348.4	100.4	-346.5	0.00	0.00	0.00
13,500.0	90.00	359.68	12,912.0	-248.4	99.8	-246.5	0.00	0.00	0.00
13,600.0	90.00	359.68	12,912.0	-148.4	99.3	-146.5	0.00	0.00	0.00
13,700.0	90.00	359.68	12,912.0	-48.4	98.7	-46.6	0.00	0.00	0.00
13,800.0	90.00	359.68	12,912.0	51.6	98.1	53.4	0.00	0.00	0.00
13,900.0	90.00	359.68	12,912.0	151.6	97.6	153.4	0.00	0.00	0.00
14,000.0	90.00	359.68	12,912.0	251.6	97.0	253.3	0.00	0.00	0.00
14,100.0	90.00	359.68	12,912.0	351.6	96.4	353.3	0.00	0.00	0.00
14,200.0	90.00	359.68	12,912.0	451.6	95.9	453.3	0.00	0.00	0.00
14,300.0	90.00	359.68	12,912.0	551.6	95.3	553.3	0.00	0.00	0.00
14,400.0	90.00	359.68	12,912.0	651.6	94.7	653.2	0.00	0.00	0.00
14,500.0	90.00	359.68	12,912.0	751.6	94.2	753.2	0.00	0.00	0.00
14,600.0	90.00	359.68	12,912.0	851.6	93.6	853.2	0.00	0.00	0.00
14,700.0	90.00	359.68	12,912.0	951.6	93.0	953.1	0.00	0.00	0.00
14,800.0	90.00	359.68	12,912.0	1,051.6	92.5	1,053.1	0.00	0.00	0.00
14,900.0	90.00	359.68	12,912.0	1,151.6	91.9	1,153.1	0.00	0.00	0.00
15,000.0	90.00	359.68	12,912.0	1,251.6	91.3	1,253.1	0.00	0.00	0.00
15,100.0	90.00	359.68	12,912.0	1,351.6	90.8	1,353.0	0.00	0.00	0.00
15,200.0	90.00	359.68	12,912.0	1,451.6	90.2	1,453.0	0.00	0.00	0.00
15,300.0	90.00	359.68	12,912.0	1,551.6	89.6	1,553.0	0.00	0.00	0.00
15,400.0	90.00	359.68	12,912.0	1,651.6	89.1	1,652.9	0.00	0.00	0.00
15,500.0	90.00	359.68	12,912.0	1,751.6	88.5	1,752.9	0.00	0.00	0.00
15,600.0	90.00	359.68	12,912.0	1,851.6	87.9	1,852.9	0.00	0.00	0.00
15,700.0	90.00	359.68	12,912.0	1,951.6	87.4	1,952.9	0.00	0.00	0.00
15,800.0	90.00	359.68	12,912.0	2,051.6	86.8	2,052.8	0.00	0.00	0.00
15,900.0	90.00	359.68	12,912.0	2,151.6	86.2	2,152.8	0.00	0.00	0.00
16,000.0	90.00	359.68	12,912.0	2,251.6	85.7	2,252.8	0.00	0.00	0.00
16,100.0	90.00	359.68	12,912.0	2,351.6	85.1	2,352.7	0.00	0.00	0.00
16,200.0	90.00	359.68	12,912.0	2,451.6	84.6	2,452.7	0.00	0.00	0.00
16,300.0	90.00	359.68	12,912.0	2,551.6	84.0	2,552.7	0.00	0.00	0.00
16,400.0	90.00	359.68	12,912.0	2,651.6	83.4	2,652.7	0.00	0.00	0.00
16,500.0	90.00	359.68	12,912.0	2,751.6	82.9	2,752.6	0.00	0.00	0.00
16,600.0	90.00	359.68	12,912.0	2,851.6	82.3	2,852.6	0.00	0.00	0.00
16,700.0	90.00	359.68	12,912.0	2,951.6	81.7	2,952.6	0.00	0.00	0.00
16,800.0	90.00	359.68	12,912.0	3,051.6	81.2	3,052.5	0.00	0.00	0.00
16,900.0	90.00	359.68	12,912.0	3,151.6	80.6	3,152.5	0.00	0.00	0.00
17,000.0	90.00	359.68	12,912.0	3,251.6	80.0	3,252.5	0.00	0.00	0.00
17,100.0	90.00	359.68	12,912.0	3,351.6	79.5	3,352.5	0.00	0.00	0.00
17,200.0	90.00	359.68	12,912.0	3,451.6	78.9	3,452.4	0.00	0.00	0.00
17,300.0	90.00	359.68	12,912.0	3,551.6	78.3	3,552.4	0.00	0.00	0.00
17,400.0	90.00	359.68	12,912.0	3,651.6	77.8	3,652.4	0.00	0.00	0.00
17,500.0	90.00	359.68	12,912.0	3,751.6	77.2	3,752.4	0.00	0.00	0.00
17,600.0	90.00	359.68	12,912.0	3,851.6	76.6	3,852.3	0.00	0.00	0.00
17,700.0	90.00	359.68	12,912.0	3,951.6	76.1	3,952.3	0.00	0.00	0.00
17,800.0	90.00	359.68	12,912.0	4,051.6	75.5	4,052.3	0.00	0.00	0.00
17,889.4	90.00	359.68	12,912.0	4,141.0	75.0	4,141.7	0.00	0.00	0.00

PBHL (Mamba 30 State #743H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Mamba 30 State Com
Well: #743H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #743H
TVD Reference: KB = 25 @ 3588.0usft
MD Reference: KB = 25 @ 3588.0usft
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
KOP (Mamba 30 State # - plan hits target center - Point	0.00	0.01	12,434.5	-988.0	104.0	430,524.00	764,031.00	32° 10' 53.544 N	103° 36' 48.693 W
PBHL (Mamba 30 State - plan hits target center - Point	0.00	0.00	12,912.0	4,141.0	75.0	435,653.00	764,002.00	32° 11' 44.299 N	103° 36' 48.631 W
FTP (Mamba 30 State # - plan misses target center by 163.4usft at 12889.8usft MD (12790.6 TVD, -828.6 N, 103.1 E) - Point	0.00	0.01	12,912.0	-938.0	104.0	430,574.00	764,031.00	32° 10' 54.039 N	103° 36' 48.689 W

HOBBS OCD
NOV 06 2018
RECEIVED



Lea County, NM (NAD 83 NME)

Mamba 30 State Com #743H

Plan #0.1

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

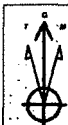
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #743H

KB = 25 @ 3683.00ft 3683.0
Northing 431612.00 Easting 763927.00 Latitude 32° 11' 3.323 N Longitude 103° 36' 49.828 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Oleg	TFace	V/Sect	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	3310.7	6.21	173.99	3310.1	-16.7	1.8	2.00	173.99	-16.7	
4	12177.1	6.21	173.99	12124.4	-971.3	102.2	0.00	0.00	-969.2	
5	12487.8	0.00	0.00	12434.5	-988.0	104.0	2.00	180.00	-986.0	KOP (Mamba 30 State #743H)
6	13237.8	90.00	359.68	12912.0	-810.5	101.3	12.00	359.68	-508.6	PBHL (Mamba 30 State #743H)
7	17889.4	90.00	359.68	12912.0	-8141.0	75.0	0.00	0.00	4141.7	



Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.64°
Magnetic Field
Strength: 47768.8 nT
Dip Angle: 80.00°
Date: 11/02/2018
Model: IGRF2018

To convert a Magnetic Direction to a Grid Direction, Add 6.44°
To convert a Magnetic Direction to a True Direction, Add 6.82° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

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 #743H)	12434.5	-988.0	104.0	430626.00	764031.00
PBHL (Mamba 30 State #743H)	12912.0	-8141.0	75.0	430683.00	764002.00
FTP (Mamba 30 State #743H)	12912.0	-858.0	104.0	430676.00	764031.00

