



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Mamba 30 State Com

#706H

OH

Plan: Plan #0.2

Standard Planning Report

17 October, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #706H
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:	#706H	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	#706H					
Well Position	+N/-S	705.0 usft	Northing:	431,512.00 usft	Latitude:	32° 11' 3.325 N
	+E/-W	-3,093.0 usft	Easting:	763,960.00 usft	Longitude:	103° 36' 49.443 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	47,779.82742020

Design	Plan #0.2			
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	5.05

Plan Survey Tool Program	Date	10/17/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	17,452.4 Plan #0.2 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
3,353.2	7.06	157.17	3,352.3	-20.0	8.4	2.00	2.00	0.00	157.17	
11,697.4	7.06	157.17	11,633.2	-966.0	406.6	0.00	0.00	0.00	0.00	
12,050.6	0.00	0.01	11,985.5	-986.0	415.0	2.00	-2.00	0.00	180.00	KOP (Mamba 30 Stat
12,800.6	90.00	359.45	12,463.0	-508.6	410.4	12.00	12.00	-0.07	359.45	
17,452.4	90.00	359.45	12,463.0	4,143.0	366.0	0.00	0.00	0.00	0.00	PBHL (Mamba 30 Sta

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Site:	Mamba 30 State Corn	North Reference:	Grid
Well:	#706H	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	157.17	3,100.0	-1.6	0.7	-1.5	2.00	2.00	0.00
3,200.0	4.00	157.17	3,199.8	-6.4	2.7	-6.2	2.00	2.00	0.00
3,300.0	6.00	157.17	3,299.5	-14.5	6.1	-13.9	2.00	2.00	0.00
3,353.2	7.06	157.17	3,352.3	-20.0	8.4	-19.2	2.00	2.00	0.00
3,400.0	7.06	157.17	3,398.8	-25.3	10.7	-24.3	0.00	0.00	0.00
3,500.0	7.06	157.17	3,498.0	-36.7	15.4	-35.2	0.00	0.00	0.00
3,600.0	7.06	157.17	3,597.2	-48.0	20.2	-46.1	0.00	0.00	0.00
3,700.0	7.06	157.17	3,696.5	-59.4	25.0	-56.9	0.00	0.00	0.00
3,800.0	7.06	157.17	3,795.7	-70.7	29.8	-67.8	0.00	0.00	0.00
3,900.0	7.06	157.17	3,895.0	-82.0	34.5	-78.7	0.00	0.00	0.00
4,000.0	7.06	157.17	3,994.2	-93.4	39.3	-89.5	0.00	0.00	0.00
4,100.0	7.06	157.17	4,093.4	-104.7	44.1	-100.4	0.00	0.00	0.00
4,200.0	7.06	157.17	4,192.7	-116.0	48.8	-111.3	0.00	0.00	0.00
4,300.0	7.06	157.17	4,291.9	-127.4	53.6	-122.2	0.00	0.00	0.00
4,400.0	7.06	157.17	4,391.2	-138.7	58.4	-133.0	0.00	0.00	0.00
4,500.0	7.06	157.17	4,490.4	-150.0	63.2	-143.9	0.00	0.00	0.00
4,600.0	7.06	157.17	4,589.6	-161.4	67.9	-154.8	0.00	0.00	0.00
4,700.0	7.06	157.17	4,688.9	-172.7	72.7	-165.7	0.00	0.00	0.00
4,800.0	7.06	157.17	4,788.1	-184.1	77.5	-176.5	0.00	0.00	0.00
4,900.0	7.06	157.17	4,887.4	-195.4	82.2	-187.4	0.00	0.00	0.00
5,000.0	7.06	157.17	4,986.6	-206.7	87.0	-198.3	0.00	0.00	0.00
5,100.0	7.06	157.17	5,085.8	-218.1	91.8	-209.1	0.00	0.00	0.00
5,200.0	7.06	157.17	5,185.1	-229.4	96.6	-220.0	0.00	0.00	0.00

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Site:	Mamba 30 State Com	North Reference:	Grid
Well:	#706H	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	7.06	157.17	5,284.3	-240.7	101.3	-230.9	0.00	0.00	0.00
5,400.0	7.06	157.17	5,383.6	-252.1	106.1	-241.8	0.00	0.00	0.00
5,500.0	7.06	157.17	5,482.8	-263.4	110.9	-252.6	0.00	0.00	0.00
5,600.0	7.06	157.17	5,582.0	-274.7	115.6	-263.5	0.00	0.00	0.00
5,700.0	7.06	157.17	5,681.3	-286.1	120.4	-274.4	0.00	0.00	0.00
5,800.0	7.06	157.17	5,780.5	-297.4	125.2	-285.2	0.00	0.00	0.00
5,900.0	7.06	157.17	5,879.8	-308.8	130.0	-296.1	0.00	0.00	0.00
6,000.0	7.06	157.17	5,979.0	-320.1	134.7	-307.0	0.00	0.00	0.00
6,100.0	7.06	157.17	6,078.3	-331.4	139.5	-317.9	0.00	0.00	0.00
6,200.0	7.06	157.17	6,177.5	-342.8	144.3	-328.7	0.00	0.00	0.00
6,300.0	7.06	157.17	6,276.7	-354.1	149.0	-339.6	0.00	0.00	0.00
6,400.0	7.06	157.17	6,376.0	-365.4	153.8	-350.5	0.00	0.00	0.00
6,500.0	7.06	157.17	6,475.2	-376.8	158.6	-361.4	0.00	0.00	0.00
6,600.0	7.06	157.17	6,574.5	-388.1	163.4	-372.2	0.00	0.00	0.00
6,700.0	7.06	157.17	6,673.7	-399.4	168.1	-383.1	0.00	0.00	0.00
6,800.0	7.06	157.17	6,772.9	-410.8	172.9	-394.0	0.00	0.00	0.00
6,900.0	7.06	157.17	6,872.2	-422.1	177.7	-404.8	0.00	0.00	0.00
7,000.0	7.06	157.17	6,971.4	-433.4	182.4	-415.7	0.00	0.00	0.00
7,100.0	7.06	157.17	7,070.7	-444.8	187.2	-426.6	0.00	0.00	0.00
7,200.0	7.06	157.17	7,169.9	-456.1	192.0	-437.5	0.00	0.00	0.00
7,300.0	7.06	157.17	7,269.1	-467.5	196.7	-448.3	0.00	0.00	0.00
7,400.0	7.06	157.17	7,368.4	-478.8	201.5	-459.2	0.00	0.00	0.00
7,500.0	7.06	157.17	7,467.6	-490.1	206.3	-470.1	0.00	0.00	0.00
7,600.0	7.06	157.17	7,566.9	-501.5	211.1	-480.9	0.00	0.00	0.00
7,700.0	7.06	157.17	7,666.1	-512.8	215.8	-491.8	0.00	0.00	0.00
7,800.0	7.06	157.17	7,765.3	-524.1	220.6	-502.7	0.00	0.00	0.00
7,900.0	7.06	157.17	7,864.6	-535.5	225.4	-513.6	0.00	0.00	0.00
8,000.0	7.06	157.17	7,963.8	-546.8	230.1	-524.4	0.00	0.00	0.00
8,100.0	7.06	157.17	8,063.1	-558.1	234.9	-535.3	0.00	0.00	0.00
8,200.0	7.06	157.17	8,162.3	-569.5	239.7	-546.2	0.00	0.00	0.00
8,300.0	7.06	157.17	8,261.5	-580.8	244.5	-557.1	0.00	0.00	0.00
8,400.0	7.06	157.17	8,360.8	-592.2	249.2	-567.9	0.00	0.00	0.00
8,500.0	7.06	157.17	8,460.0	-603.5	254.0	-578.8	0.00	0.00	0.00
8,600.0	7.06	157.17	8,559.3	-614.8	258.8	-589.7	0.00	0.00	0.00
8,700.0	7.06	157.17	8,658.5	-626.2	263.5	-600.5	0.00	0.00	0.00
8,800.0	7.06	157.17	8,757.8	-637.5	268.3	-611.4	0.00	0.00	0.00
8,900.0	7.06	157.17	8,857.0	-648.8	273.1	-622.3	0.00	0.00	0.00
9,000.0	7.06	157.17	8,956.2	-660.2	277.9	-633.2	0.00	0.00	0.00
9,100.0	7.06	157.17	9,055.5	-671.5	282.6	-644.0	0.00	0.00	0.00
9,200.0	7.06	157.17	9,154.7	-682.8	287.4	-654.9	0.00	0.00	0.00
9,300.0	7.06	157.17	9,254.0	-694.2	292.2	-665.8	0.00	0.00	0.00
9,400.0	7.06	157.17	9,353.2	-705.5	296.9	-676.6	0.00	0.00	0.00
9,500.0	7.06	157.17	9,452.4	-716.9	301.7	-687.5	0.00	0.00	0.00
9,600.0	7.06	157.17	9,551.7	-728.2	306.5	-698.4	0.00	0.00	0.00
9,700.0	7.06	157.17	9,650.9	-739.5	311.3	-709.3	0.00	0.00	0.00
9,800.0	7.06	157.17	9,750.2	-750.9	316.0	-720.1	0.00	0.00	0.00
9,900.0	7.06	157.17	9,849.4	-762.2	320.8	-731.0	0.00	0.00	0.00
10,000.0	7.06	157.17	9,948.6	-773.5	325.6	-741.9	0.00	0.00	0.00
10,100.0	7.06	157.17	10,047.9	-784.9	330.3	-752.8	0.00	0.00	0.00
10,200.0	7.06	157.17	10,147.1	-796.2	335.1	-763.6	0.00	0.00	0.00
10,300.0	7.06	157.17	10,246.4	-807.5	339.9	-774.5	0.00	0.00	0.00
10,400.0	7.06	157.17	10,345.6	-818.9	344.7	-785.4	0.00	0.00	0.00
10,500.0	7.06	157.17	10,444.8	-830.2	349.4	-796.2	0.00	0.00	0.00
10,600.0	7.06	157.17	10,544.1	-841.5	354.2	-807.1	0.00	0.00	0.00

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Site:	Mamba 30 State Com	North Reference:	Grid
Well:	#706H	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)
10,700.0	7.06	157.17	10,643.3	-852.9	359.0	-818.0	0.00	0.00	0.00
10,800.0	7.06	157.17	10,742.6	-864.2	363.7	-828.9	0.00	0.00	0.00
10,900.0	7.06	157.17	10,841.8	-875.6	368.5	-839.7	0.00	0.00	0.00
11,000.0	7.06	157.17	10,941.0	-886.9	373.3	-850.6	0.00	0.00	0.00
11,100.0	7.06	157.17	11,040.3	-898.2	378.1	-861.5	0.00	0.00	0.00
11,200.0	7.06	157.17	11,139.5	-909.6	382.8	-872.3	0.00	0.00	0.00
11,300.0	7.06	157.17	11,238.8	-920.9	387.6	-883.2	0.00	0.00	0.00
11,400.0	7.06	157.17	11,338.0	-932.2	392.4	-894.1	0.00	0.00	0.00
11,500.0	7.06	157.17	11,437.3	-943.6	397.1	-905.0	0.00	0.00	0.00
11,600.0	7.06	157.17	11,536.5	-954.9	401.9	-915.8	0.00	0.00	0.00
11,697.4	7.06	157.17	11,633.2	-966.0	406.6	-926.4	0.00	0.00	0.00
11,700.0	7.01	157.17	11,635.7	-966.2	406.7	-926.7	2.00	-2.00	0.00
11,800.0	5.01	157.17	11,735.2	-975.9	410.7	-936.0	2.00	-2.00	0.00
11,900.0	3.01	157.17	11,834.9	-982.4	413.5	-942.2	2.00	-2.00	0.00
12,000.0	1.01	157.17	11,934.9	-985.6	414.8	-945.3	2.00	-2.00	0.00
12,050.6	0.00	0.01	11,985.5	-986.0	415.0	-945.7	2.00	-2.00	0.00
KOP (Mamba 30 State #706H)									
12,075.0	2.92	359.45	12,009.8	-985.4	415.0	-945.0	12.00	12.00	0.00
12,100.0	5.92	359.45	12,034.8	-983.5	415.0	-943.1	12.00	12.00	0.00
12,125.0	8.92	359.45	12,059.6	-980.2	414.9	-939.9	12.00	12.00	0.00
12,150.0	11.92	359.45	12,084.1	-975.7	414.9	-935.4	12.00	12.00	0.00
12,175.0	14.92	359.45	12,108.5	-969.9	414.8	-929.6	12.00	12.00	0.00
12,200.0	17.92	359.45	12,132.4	-962.8	414.8	-922.6	12.00	12.00	0.00
12,225.0	20.92	359.45	12,156.0	-954.5	414.7	-914.3	12.00	12.00	0.00
12,250.0	23.92	359.45	12,179.1	-945.0	414.6	-904.8	12.00	12.00	0.00
12,275.0	26.92	359.45	12,201.7	-934.3	414.5	-894.2	12.00	12.00	0.00
12,300.0	29.92	359.45	12,223.7	-922.4	414.4	-882.3	12.00	12.00	0.00
12,325.0	32.92	359.45	12,245.0	-909.3	414.3	-869.3	12.00	12.00	0.00
12,350.0	35.92	359.45	12,265.6	-895.2	414.1	-855.3	12.00	12.00	0.00
12,375.0	38.92	359.45	12,285.5	-880.0	414.0	-840.2	12.00	12.00	0.00
12,400.0	41.92	359.45	12,304.5	-863.8	413.8	-824.0	12.00	12.00	0.00
12,425.0	44.92	359.45	12,322.7	-846.6	413.7	-806.9	12.00	12.00	0.00
12,450.0	47.92	359.45	12,339.9	-828.5	413.5	-788.9	12.00	12.00	0.00
FTP (Mamba 30 State #706H)									
12,475.0	50.92	359.45	12,356.2	-809.5	413.3	-770.0	12.00	12.00	0.00
12,500.0	53.92	359.45	12,371.4	-789.7	413.1	-750.3	12.00	12.00	0.00
12,525.0	56.92	359.45	12,385.6	-769.1	412.9	-729.8	12.00	12.00	0.00
12,550.0	59.92	359.45	12,398.7	-747.8	412.7	-708.6	12.00	12.00	0.00
12,575.0	62.92	359.45	12,410.6	-725.9	412.5	-686.8	12.00	12.00	0.00
12,600.0	65.92	359.45	12,421.4	-703.3	412.3	-664.3	12.00	12.00	0.00
12,625.0	68.92	359.45	12,431.0	-680.3	412.1	-641.4	12.00	12.00	0.00
12,650.0	71.92	359.45	12,439.4	-656.7	411.9	-617.9	12.00	12.00	0.00
12,675.0	74.92	359.45	12,446.5	-632.7	411.6	-594.1	12.00	12.00	0.00
12,700.0	77.92	359.45	12,452.4	-608.5	411.4	-569.9	12.00	12.00	0.00
12,725.0	80.92	359.45	12,457.0	-583.9	411.2	-545.4	12.00	12.00	0.00
12,750.0	83.92	359.45	12,460.3	-559.1	410.9	-520.8	12.00	12.00	0.00
12,775.0	86.92	359.45	12,462.3	-534.2	410.7	-496.0	12.00	12.00	0.00
12,800.6	90.00	359.45	12,463.0	-508.6	410.4	-470.5	12.00	12.00	0.00
12,900.0	90.00	359.45	12,463.0	-409.2	409.5	-371.6	0.00	0.00	0.00
13,000.0	90.00	359.45	12,463.0	-309.2	408.5	-272.1	0.00	0.00	0.00
13,100.0	90.00	359.45	12,463.0	-209.2	407.6	-172.5	0.00	0.00	0.00
13,200.0	90.00	359.45	12,463.0	-109.2	406.6	-73.0	0.00	0.00	0.00
13,300.0	90.00	359.45	12,463.0	-9.2	405.7	26.5	0.00	0.00	0.00
13,400.0	90.00	359.45	12,463.0	90.8	404.7	126.0	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #706H
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:	#706H	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)
13,500.0	90.00	359.45	12,463.0	190.8	403.8	225.6	0.00	0.00	0.00
13,600.0	90.00	359.45	12,463.0	290.8	402.8	325.1	0.00	0.00	0.00
13,700.0	90.00	359.45	12,463.0	390.8	401.8	424.6	0.00	0.00	0.00
13,800.0	90.00	359.45	12,463.0	490.8	400.9	524.1	0.00	0.00	0.00
13,900.0	90.00	359.45	12,463.0	590.8	399.9	623.7	0.00	0.00	0.00
14,000.0	90.00	359.45	12,463.0	690.7	399.0	723.2	0.00	0.00	0.00
14,100.0	90.00	359.45	12,463.0	790.7	398.0	822.7	0.00	0.00	0.00
14,200.0	90.00	359.45	12,463.0	890.7	397.1	922.2	0.00	0.00	0.00
14,300.0	90.00	359.45	12,463.0	990.7	396.1	1,021.7	0.00	0.00	0.00
14,400.0	90.00	359.45	12,463.0	1,090.7	395.2	1,121.3	0.00	0.00	0.00
14,500.0	90.00	359.45	12,463.0	1,190.7	394.2	1,220.8	0.00	0.00	0.00
14,600.0	90.00	359.45	12,463.0	1,290.7	393.2	1,320.3	0.00	0.00	0.00
14,700.0	90.00	359.45	12,463.0	1,390.7	392.3	1,419.8	0.00	0.00	0.00
14,800.0	90.00	359.45	12,463.0	1,490.7	391.3	1,519.4	0.00	0.00	0.00
14,900.0	90.00	359.45	12,463.0	1,590.7	390.4	1,618.9	0.00	0.00	0.00
15,000.0	90.00	359.45	12,463.0	1,690.7	389.4	1,718.4	0.00	0.00	0.00
15,100.0	90.00	359.45	12,463.0	1,790.7	388.5	1,817.9	0.00	0.00	0.00
15,200.0	90.00	359.45	12,463.0	1,890.7	387.5	1,917.5	0.00	0.00	0.00
15,300.0	90.00	359.45	12,463.0	1,990.7	386.6	2,017.0	0.00	0.00	0.00
15,400.0	90.00	359.45	12,463.0	2,090.7	385.6	2,116.5	0.00	0.00	0.00
15,500.0	90.00	359.45	12,463.0	2,190.7	384.7	2,216.0	0.00	0.00	0.00
15,600.0	90.00	359.45	12,463.0	2,290.7	383.7	2,315.6	0.00	0.00	0.00
15,700.0	90.00	359.45	12,463.0	2,390.7	382.7	2,415.1	0.00	0.00	0.00
15,800.0	90.00	359.45	12,463.0	2,490.7	381.8	2,514.6	0.00	0.00	0.00
15,900.0	90.00	359.45	12,463.0	2,590.7	380.8	2,614.1	0.00	0.00	0.00
16,000.0	90.00	359.45	12,463.0	2,690.7	379.9	2,713.6	0.00	0.00	0.00
16,100.0	90.00	359.45	12,463.0	2,790.7	378.9	2,813.2	0.00	0.00	0.00
16,200.0	90.00	359.45	12,463.0	2,890.6	378.0	2,912.7	0.00	0.00	0.00
16,300.0	90.00	359.45	12,463.0	2,990.6	377.0	3,012.2	0.00	0.00	0.00
16,400.0	90.00	359.45	12,463.0	3,090.6	376.1	3,111.7	0.00	0.00	0.00
16,500.0	90.00	359.45	12,463.0	3,190.6	375.1	3,211.3	0.00	0.00	0.00
16,600.0	90.00	359.45	12,463.0	3,290.6	374.1	3,310.8	0.00	0.00	0.00
16,700.0	90.00	359.45	12,463.0	3,390.6	373.2	3,410.3	0.00	0.00	0.00
16,800.0	90.00	359.45	12,463.0	3,490.6	372.2	3,509.8	0.00	0.00	0.00
16,900.0	90.00	359.45	12,463.0	3,590.6	371.3	3,609.4	0.00	0.00	0.00
17,000.0	90.00	359.45	12,463.0	3,690.6	370.3	3,708.9	0.00	0.00	0.00
17,100.0	90.00	359.45	12,463.0	3,790.6	369.4	3,808.4	0.00	0.00	0.00
17,200.0	90.00	359.45	12,463.0	3,890.6	368.4	3,907.9	0.00	0.00	0.00
17,300.0	90.00	359.45	12,463.0	3,990.6	367.5	4,007.5	0.00	0.00	0.00
17,400.0	90.00	359.45	12,463.0	4,090.6	366.5	4,107.0	0.00	0.00	0.00
17,452.4	90.00	359.45	12,463.0	4,143.0	366.0	4,159.1	0.00	0.00	0.00
PBHL (Mamba 30 State #706H)									

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #706H
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:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP (Mamba 30 State # - plan hits target center - Point	0.00	0.01	11,985.5	-986.0	415.0	430,526.00	764,375.00	32° 10' 53.541 N	103° 36' 44.691 W
FTP (Mamba 30 State # - plan misses target center by 163.4usft at 12450.0usft MD (12339.9 TVD, -828.5 N, 413.5 E) - Point	0.00	0.00	12,463.0	-936.0	415.0	430,576.00	764,375.00	32° 10' 54.036 N	103° 36' 44.687 W
PBHL (Mamba 30 State - plan hits target center - Point	0.00	0.00	12,463.0	4,143.0	366.0	435,655.00	764,326.00	32° 11' 44.298 N	103° 36' 44.861 W



Lea County, NM (NAD 83 NME)

Mamba 30 State Com #706H

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: #706H

KB = 25 @ 3585.0usft 3583.0
Northing 431512.00 Easting 763960.00 32° 11' 3.325 N 103° 36' 49.443 W

Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.45°

Magnetic Field
Strength: 47779.5nT
Dip Angle: 60.00°
Date: 9/16/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.45°
To convert a Magnetic Direction to a True Direction, Add 6.83° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

SECTION DETAILS

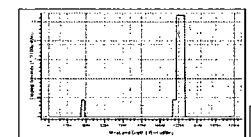
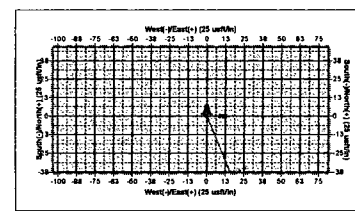
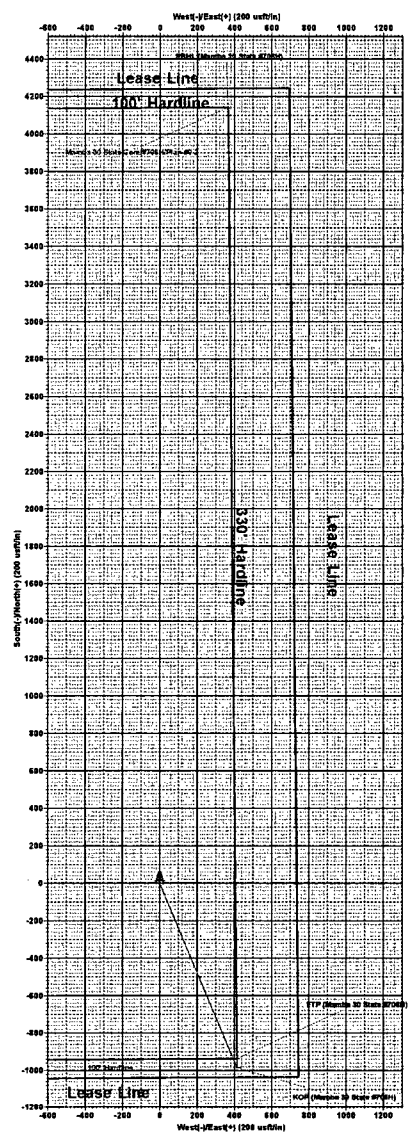
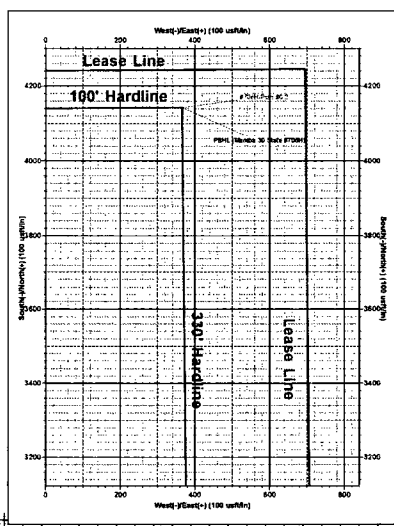
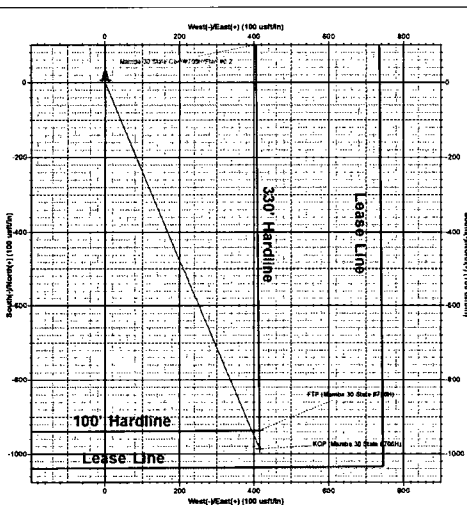
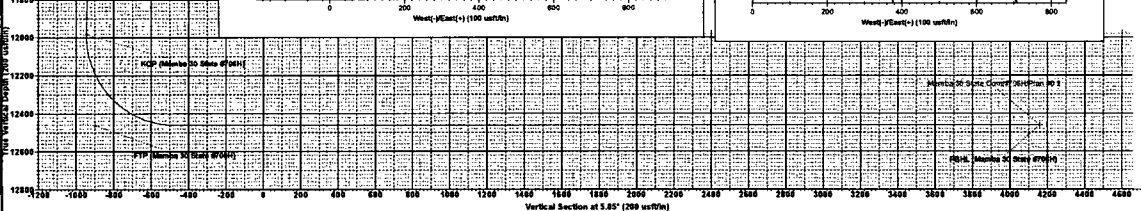
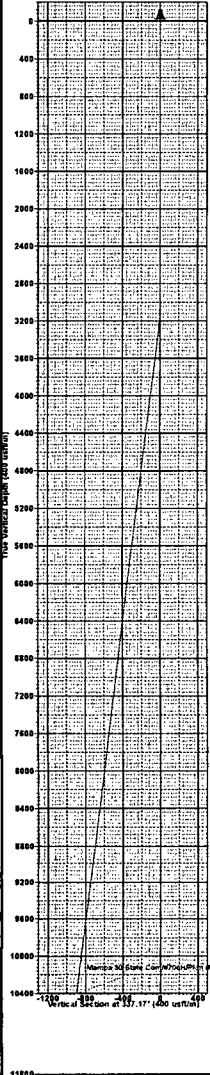
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3353.2	7.06	157.17	3352.3	-20.0	8.4	2.00	157.17	-19.2	
4	11697.4	7.06	157.17	11633.2	-966.0	406.6	0.00	0.00	-926.4	
5	12050.6	0.00	0.00	11985.5	-966.0	415.0	2.00	180.00	-945.7	KOP (Mamba 30 State #706H)
6	12800.6	90.00	359.45	12463.0	-508.6	410.4	12.00	359.45	-470.5	PBHL (Mamba 30 State #706H)
7	17452.4	90.00	359.45	12463.0	4143.0	366.0	0.00	0.00	4159.1	

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 #706H)	11985.5	-966.0	415.0	430525.00	764376.00
PBHL (Mamba 30 State #706H)	12463.0	4143.0	366.0	430585.00	764326.00
FTP (Mamba 30 State #706H)	12463.0	-936.0	415.0	430576.00	764375.00



UTM Zone 18Q UTM Datum NAD 83
UTM Easting 764376.00
UTM Northing 430525.00
UTM Zone 18Q
UTM Datum NAD 83