



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Mamba 30 State

#702H

OH

Plan: Plan #0.2

HOBBS OCD
JUL 31 2018
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Standard Planning Report

24 July, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB= 25 @ 3563.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB= 25 @ 3563.0usft
Site:	Mamba 30 State	North Reference:	Grid
Well:	#702H	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	#702H					
Well Position	+N/-S	8.0 usft	Northing:	430,815.00 usft	Latitude:	32° 10' 56.305 N
	+E/-W	-1,230.0 usft	Easting:	765,823.00 usft	Longitude:	103° 36' 27.820 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,538.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	9/25/2017	6.94	60.02	47,880.65907407

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	10.71	

Plan Survey Tool Program	Date 7/24/2018				
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks	
(usft)	(usft)				
1	0.0	17,371.4 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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,254.8	2.55	142.24	4,254.7	-4.5	3.5	1.00	1.00	0.00	142.24	
11,954.5	2.55	142.24	11,946.8	-275.1	213.1	0.00	0.00	0.00	0.00	
12,721.4	90.00	359.52	12,441.0	202.2	222.4	12.00	11.40	-18.61	-142.70	
17,371.4	90.00	359.52	12,441.0	4,852.0	183.0	0.00	0.00	0.00	0.00	PBHL (Mamba 30 Sta



Planning Report

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Site:	Mamba 30 State	North Reference:	Grid
Well:	#702H	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	142.24	4,100.0	-0.7	0.5	-0.6	1.00	1.00	0.00
4,200.0	2.00	142.24	4,200.0	-2.8	2.1	-2.3	1.00	1.00	0.00
4,254.8	2.55	142.24	4,254.7	-4.5	3.5	-3.8	1.00	1.00	0.00
4,300.0	2.55	142.24	4,299.9	-6.1	4.7	-5.1	0.00	0.00	0.00
4,400.0	2.55	142.24	4,399.8	-9.6	7.4	-8.0	0.00	0.00	0.00
4,500.0	2.55	142.24	4,499.7	-13.1	10.1	-11.0	0.00	0.00	0.00
4,600.0	2.55	142.24	4,599.6	-16.6	12.9	-13.9	0.00	0.00	0.00
4,700.0	2.55	142.24	4,699.5	-20.1	15.6	-16.9	0.00	0.00	0.00
4,800.0	2.55	142.24	4,799.4	-23.6	18.3	-19.8	0.00	0.00	0.00
4,900.0	2.55	142.24	4,899.3	-27.2	21.0	-22.8	0.00	0.00	0.00
5,000.0	2.55	142.24	4,999.2	-30.7	23.8	-25.7	0.00	0.00	0.00
5,100.0	2.55	142.24	5,099.1	-34.2	26.5	-28.7	0.00	0.00	0.00
5,200.0	2.55	142.24	5,199.0	-37.7	29.2	-31.6	0.00	0.00	0.00

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Well:	#702H	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	2.55	142.24	5,298.9	-41.2	31.9	-34.6	0.00	0.00	0.00	
5,400.0	2.55	142.24	5,398.8	-44.7	34.6	-37.5	0.00	0.00	0.00	
5,500.0	2.55	142.24	5,498.7	-48.2	37.4	-40.5	0.00	0.00	0.00	
5,600.0	2.55	142.24	5,598.6	-51.8	40.1	-43.4	0.00	0.00	0.00	
5,700.0	2.55	142.24	5,698.5	-55.3	42.8	-46.4	0.00	0.00	0.00	
5,800.0	2.55	142.24	5,798.4	-58.8	45.5	-49.3	0.00	0.00	0.00	
5,900.0	2.55	142.24	5,898.3	-62.3	48.3	-52.3	0.00	0.00	0.00	
6,000.0	2.55	142.24	5,998.2	-65.8	51.0	-55.2	0.00	0.00	0.00	
6,100.0	2.55	142.24	6,098.1	-69.3	53.7	-58.1	0.00	0.00	0.00	
6,200.0	2.55	142.24	6,198.0	-72.8	56.4	-61.1	0.00	0.00	0.00	
6,300.0	2.55	142.24	6,297.9	-76.4	59.1	-64.0	0.00	0.00	0.00	
6,400.0	2.55	142.24	6,397.8	-79.9	61.9	-67.0	0.00	0.00	0.00	
6,500.0	2.55	142.24	6,497.7	-83.4	64.6	-69.9	0.00	0.00	0.00	
6,600.0	2.55	142.24	6,597.6	-86.9	67.3	-72.9	0.00	0.00	0.00	
6,700.0	2.55	142.24	6,697.5	-90.4	70.0	-75.8	0.00	0.00	0.00	
6,800.0	2.55	142.24	6,797.4	-93.9	72.8	-78.8	0.00	0.00	0.00	
6,900.0	2.55	142.24	6,897.3	-97.4	75.5	-81.7	0.00	0.00	0.00	
7,000.0	2.55	142.24	6,997.2	-101.0	78.2	-84.7	0.00	0.00	0.00	
7,100.0	2.55	142.24	7,097.1	-104.5	80.9	-87.6	0.00	0.00	0.00	
7,200.0	2.55	142.24	7,197.0	-108.0	83.6	-90.6	0.00	0.00	0.00	
7,300.0	2.55	142.24	7,296.9	-111.5	86.4	-93.5	0.00	0.00	0.00	
7,400.0	2.55	142.24	7,396.8	-115.0	89.1	-96.5	0.00	0.00	0.00	
7,500.0	2.55	142.24	7,496.7	-118.5	91.8	-99.4	0.00	0.00	0.00	
7,600.0	2.55	142.24	7,596.6	-122.0	94.5	-102.4	0.00	0.00	0.00	
7,700.0	2.55	142.24	7,696.5	-125.6	97.3	-105.3	0.00	0.00	0.00	
7,800.0	2.55	142.24	7,796.4	-129.1	100.0	-108.3	0.00	0.00	0.00	
7,900.0	2.55	142.24	7,896.3	-132.6	102.7	-111.2	0.00	0.00	0.00	
8,000.0	2.55	142.24	7,996.2	-136.1	105.4	-114.2	0.00	0.00	0.00	
8,100.0	2.55	142.24	8,096.1	-139.6	108.1	-117.1	0.00	0.00	0.00	
8,200.0	2.55	142.24	8,196.0	-143.1	110.9	-120.1	0.00	0.00	0.00	
8,300.0	2.55	142.24	8,295.9	-146.7	113.6	-123.0	0.00	0.00	0.00	
8,400.0	2.55	142.24	8,395.8	-150.2	116.3	-125.9	0.00	0.00	0.00	
8,500.0	2.55	142.24	8,495.7	-153.7	119.0	-128.9	0.00	0.00	0.00	
8,600.0	2.55	142.24	8,595.6	-157.2	121.8	-131.8	0.00	0.00	0.00	
8,700.0	2.55	142.24	8,695.5	-160.7	124.5	-134.8	0.00	0.00	0.00	
8,800.0	2.55	142.24	8,795.4	-164.2	127.2	-137.7	0.00	0.00	0.00	
8,900.0	2.55	142.24	8,895.3	-167.7	129.9	-140.7	0.00	0.00	0.00	
9,000.0	2.55	142.24	8,995.2	-171.3	132.6	-143.6	0.00	0.00	0.00	
9,100.0	2.55	142.24	9,095.1	-174.8	135.4	-146.6	0.00	0.00	0.00	
9,200.0	2.55	142.24	9,195.0	-178.3	138.1	-149.5	0.00	0.00	0.00	
9,300.0	2.55	142.24	9,294.9	-181.8	140.8	-152.5	0.00	0.00	0.00	
9,400.0	2.55	142.24	9,394.8	-185.3	143.5	-155.4	0.00	0.00	0.00	
9,500.0	2.55	142.24	9,494.7	-188.8	146.3	-158.4	0.00	0.00	0.00	
9,600.0	2.55	142.24	9,594.6	-192.3	149.0	-161.3	0.00	0.00	0.00	
9,700.0	2.55	142.24	9,694.5	-195.9	151.7	-164.3	0.00	0.00	0.00	
9,800.0	2.55	142.24	9,794.4	-199.4	154.4	-167.2	0.00	0.00	0.00	
9,900.0	2.55	142.24	9,894.3	-202.9	157.1	-170.2	0.00	0.00	0.00	
10,000.0	2.55	142.24	9,994.2	-206.4	159.9	-173.1	0.00	0.00	0.00	
10,100.0	2.55	142.24	10,094.1	-209.9	162.6	-176.1	0.00	0.00	0.00	
10,200.0	2.55	142.24	10,194.0	-213.4	165.3	-179.0	0.00	0.00	0.00	
10,300.0	2.55	142.24	10,293.9	-216.9	168.0	-182.0	0.00	0.00	0.00	
10,400.0	2.55	142.24	10,393.8	-220.5	170.8	-184.9	0.00	0.00	0.00	
10,500.0	2.55	142.24	10,493.7	-224.0	173.5	-187.9	0.00	0.00	0.00	
10,600.0	2.55	142.24	10,593.6	-227.5	176.2	-190.8	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	2.55	142.24	10,693.5	-231.0	178.9	-193.7	0.00	0.00	0.00
10,800.0	2.55	142.24	10,793.4	-234.5	181.6	-196.7	0.00	0.00	0.00
10,900.0	2.55	142.24	10,893.3	-238.0	184.4	-199.6	0.00	0.00	0.00
11,000.0	2.55	142.24	10,993.2	-241.5	187.1	-202.6	0.00	0.00	0.00
11,100.0	2.55	142.24	11,093.1	-245.1	189.8	-205.5	0.00	0.00	0.00
11,200.0	2.55	142.24	11,193.0	-248.6	192.5	-208.5	0.00	0.00	0.00
11,300.0	2.55	142.24	11,293.0	-252.1	195.3	-211.4	0.00	0.00	0.00
11,400.0	2.55	142.24	11,392.9	-255.6	198.0	-214.4	0.00	0.00	0.00
11,500.0	2.55	142.24	11,492.8	-259.1	200.7	-217.3	0.00	0.00	0.00
11,600.0	2.55	142.24	11,592.7	-262.6	203.4	-220.3	0.00	0.00	0.00
11,700.0	2.55	142.24	11,692.6	-266.1	206.1	-223.2	0.00	0.00	0.00
11,800.0	2.55	142.24	11,792.5	-269.7	208.9	-226.2	0.00	0.00	0.00
11,900.0	2.55	142.24	11,892.4	-273.2	211.6	-229.1	0.00	0.00	0.00
11,954.5	2.55	142.24	11,946.8	-275.1	213.1	-230.7	0.00	0.00	0.00
11,975.0	1.60	73.94	11,967.3	-275.4	213.6	-230.9	12.00	-4.62	-333.51
12,000.0	3.76	23.72	11,992.3	-274.5	214.3	-229.9	12.00	8.63	-200.89
12,025.0	6.61	12.96	12,017.2	-272.4	214.9	-227.7	12.00	11.40	-43.03
12,050.0	9.55	8.73	12,041.9	-268.9	215.6	-224.2	12.00	11.77	-16.92
12,075.0	12.52	6.48	12,066.4	-264.2	216.2	-219.4	12.00	11.88	-8.98
12,100.0	15.51	5.09	12,090.7	-258.2	216.8	-213.4	12.00	11.92	-5.57
12,125.0	18.49	4.14	12,114.6	-250.9	217.4	-206.1	12.00	11.95	-3.81
12,150.0	21.48	3.44	12,138.1	-242.3	217.9	-197.6	12.00	11.96	-2.78
12,175.0	24.48	2.91	12,161.1	-232.6	218.5	-188.0	12.00	11.97	-2.13
12,200.0	27.47	2.49	12,183.6	-221.7	219.0	-177.1	12.00	11.98	-1.69
12,225.0	30.47	2.14	12,205.5	-209.6	219.5	-165.1	12.00	11.98	-1.38
12,250.0	33.46	1.85	12,226.7	-196.3	219.9	-152.1	12.00	11.98	-1.16
12,275.0	36.46	1.61	12,247.1	-182.0	220.4	-137.9	12.00	11.99	-0.99
12,300.0	39.46	1.39	12,266.9	-166.7	220.8	-122.7	12.00	11.99	-0.86
12,325.0	42.45	1.20	12,285.7	-150.3	221.1	-106.6	12.00	11.99	-0.75
12,350.0	45.45	1.04	12,303.7	-132.9	221.5	-89.5	12.00	11.99	-0.67
12,373.6	48.28	0.89	12,319.8	-115.7	221.8	-72.5	12.00	11.99	-0.61
FTP (Mamba 30 State #702H)									
12,375.0	48.45	0.88	12,320.8	-114.7	221.8	-71.5	12.00	11.99	-0.58
12,400.0	51.45	0.75	12,336.9	-95.5	222.1	-52.6	12.00	11.99	-0.55
12,425.0	54.45	0.62	12,351.9	-75.6	222.3	-33.0	12.00	11.99	-0.51
12,450.0	57.44	0.50	12,365.9	-54.9	222.5	-12.6	12.00	11.99	-0.47
12,475.0	60.44	0.39	12,378.8	-33.5	222.7	8.5	12.00	11.99	-0.44
12,500.0	63.44	0.29	12,390.6	-11.4	222.8	30.2	12.00	11.99	-0.42
12,525.0	66.44	0.19	12,401.2	11.2	222.9	52.5	12.00	11.99	-0.39
12,550.0	69.44	0.09	12,410.6	34.4	223.0	75.2	12.00	11.99	-0.38
12,575.0	72.44	0.00	12,418.7	58.0	223.0	98.4	12.00	12.00	-0.36
12,600.0	75.44	359.92	12,425.7	82.1	223.0	122.0	12.00	12.00	-0.35
12,625.0	78.43	359.83	12,431.3	106.4	222.9	146.0	12.00	12.00	-0.34
12,650.0	81.43	359.75	12,435.7	131.0	222.8	170.1	12.00	12.00	-0.33
12,675.0	84.43	359.67	12,438.7	155.8	222.7	194.5	12.00	12.00	-0.33
12,700.0	87.43	359.58	12,440.5	180.8	222.5	218.9	12.00	12.00	-0.32
12,721.4	90.00	359.52	12,441.0	202.2	222.4	240.0	12.00	12.00	-0.32
12,800.0	90.00	359.52	12,441.0	280.7	221.7	317.0	0.00	0.00	0.00
12,900.0	90.00	359.52	12,441.0	380.7	220.8	415.1	0.00	0.00	0.00
13,000.0	90.00	359.52	12,441.0	480.7	220.0	513.2	0.00	0.00	0.00
13,100.0	90.00	359.52	12,441.0	580.7	219.1	611.3	0.00	0.00	0.00
13,200.0	90.00	359.52	12,441.0	680.7	218.3	709.4	0.00	0.00	0.00
13,300.0	90.00	359.52	12,441.0	780.7	217.5	807.5	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB= 25 @ 3563.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB= 25 @ 3563.0usft
Site:	Mamba 30 State	North Reference:	Grid
Well:	#702H	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	359.52	12,441.0	880.7	216.6	905.6	0.00	0.00	0.00
13,500.0	90.00	359.52	12,441.0	980.7	215.8	1,003.7	0.00	0.00	0.00
13,600.0	90.00	359.52	12,441.0	1,080.7	214.9	1,101.8	0.00	0.00	0.00
13,700.0	90.00	359.52	12,441.0	1,180.7	214.1	1,199.9	0.00	0.00	0.00
13,800.0	90.00	359.52	12,441.0	1,280.7	213.2	1,298.0	0.00	0.00	0.00
13,900.0	90.00	359.52	12,441.0	1,380.7	212.4	1,396.1	0.00	0.00	0.00
14,000.0	90.00	359.52	12,441.0	1,480.7	211.5	1,494.2	0.00	0.00	0.00
14,100.0	90.00	359.52	12,441.0	1,580.7	210.7	1,592.3	0.00	0.00	0.00
14,200.0	90.00	359.52	12,441.0	1,680.7	209.8	1,690.4	0.00	0.00	0.00
14,300.0	90.00	359.52	12,441.0	1,780.7	209.0	1,788.5	0.00	0.00	0.00
14,400.0	90.00	359.52	12,441.0	1,880.7	208.1	1,886.6	0.00	0.00	0.00
14,500.0	90.00	359.52	12,441.0	1,980.7	207.3	1,984.7	0.00	0.00	0.00
14,600.0	90.00	359.52	12,441.0	2,080.7	206.5	2,082.8	0.00	0.00	0.00
14,700.0	90.00	359.52	12,441.0	2,180.7	205.6	2,180.9	0.00	0.00	0.00
14,800.0	90.00	359.52	12,441.0	2,280.7	204.8	2,279.0	0.00	0.00	0.00
14,900.0	90.00	359.52	12,441.0	2,380.7	203.9	2,377.1	0.00	0.00	0.00
15,000.0	90.00	359.52	12,441.0	2,480.7	203.1	2,475.2	0.00	0.00	0.00
15,100.0	90.00	359.52	12,441.0	2,580.7	202.2	2,573.3	0.00	0.00	0.00
15,200.0	90.00	359.52	12,441.0	2,680.7	201.4	2,671.4	0.00	0.00	0.00
15,300.0	90.00	359.52	12,441.0	2,780.7	200.5	2,769.5	0.00	0.00	0.00
15,400.0	90.00	359.52	12,441.0	2,880.7	199.7	2,867.6	0.00	0.00	0.00
15,500.0	90.00	359.52	12,441.0	2,980.7	198.8	2,965.7	0.00	0.00	0.00
15,600.0	90.00	359.52	12,441.0	3,080.6	198.0	3,063.8	0.00	0.00	0.00
15,700.0	90.00	359.52	12,441.0	3,180.6	197.1	3,161.9	0.00	0.00	0.00
15,800.0	90.00	359.52	12,441.0	3,280.6	196.3	3,260.0	0.00	0.00	0.00
15,900.0	90.00	359.52	12,441.0	3,380.6	195.5	3,358.1	0.00	0.00	0.00
16,000.0	90.00	359.52	12,441.0	3,480.6	194.6	3,456.2	0.00	0.00	0.00
16,100.0	90.00	359.52	12,441.0	3,580.6	193.8	3,554.3	0.00	0.00	0.00
16,200.0	90.00	359.52	12,441.0	3,680.6	192.9	3,652.4	0.00	0.00	0.00
16,300.0	90.00	359.52	12,441.0	3,780.6	192.1	3,750.5	0.00	0.00	0.00
16,400.0	90.00	359.52	12,441.0	3,880.6	191.2	3,848.6	0.00	0.00	0.00
16,500.0	90.00	359.52	12,441.0	3,980.6	190.4	3,946.7	0.00	0.00	0.00
16,600.0	90.00	359.52	12,441.0	4,080.6	189.5	4,044.8	0.00	0.00	0.00
16,700.0	90.00	359.52	12,441.0	4,180.6	188.7	4,142.9	0.00	0.00	0.00
16,800.0	90.00	359.52	12,441.0	4,280.6	187.8	4,241.0	0.00	0.00	0.00
16,900.0	90.00	359.52	12,441.0	4,380.6	187.0	4,339.1	0.00	0.00	0.00
17,000.0	90.00	359.52	12,441.0	4,480.6	186.1	4,437.2	0.00	0.00	0.00
17,100.0	90.00	359.52	12,441.0	4,580.6	185.3	4,535.3	0.00	0.00	0.00
17,200.0	90.00	359.52	12,441.0	4,680.6	184.5	4,633.4	0.00	0.00	0.00
17,300.0	90.00	359.52	12,441.0	4,780.6	183.6	4,731.5	0.00	0.00	0.00
17,371.4	90.00	359.52	12,441.0	4,852.0	183.0	4,801.5	0.00	0.00	0.00
PBHL (Mamba 30 State #702H)									



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB= 25 @ 3563.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB= 25 @ 3563.0usft
Site:	Mamba 30 State	North Reference:	Grid
Well:	#702H	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									
PBHL (Mamba 30 State - plan hits target center - Point	0.00	0.00	12,441.0	4,852.0	183.0	435,667.00	766,006.00	32° 11' 44.304 N	103° 36' 25.309 W
FTP (Mamba 30 State # - plan misses target center by 165.9usft at 12373.6usft MD (12319.8 TVD, -115.7 N, 221.8 E) - Point	0.00	0.00	12,441.0	-229.0	226.0	430,586.00	766,049.00	32° 10' 54.023 N	103° 36' 25.208 W



Lea County, NM (NAD 83 NME)

Mamba 30 State #702H

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: #702H

KB= 25 @ 3563.0ust
Northing 430815.00 Easting 766023.00
Latitude 32° 10' 58.305 N Longitude 103° 38' 27.820 W

SECTION DETAILS

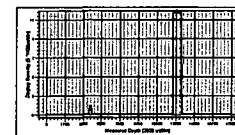
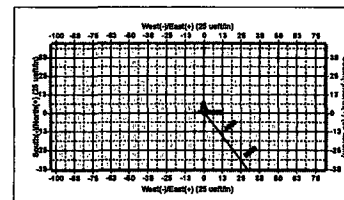
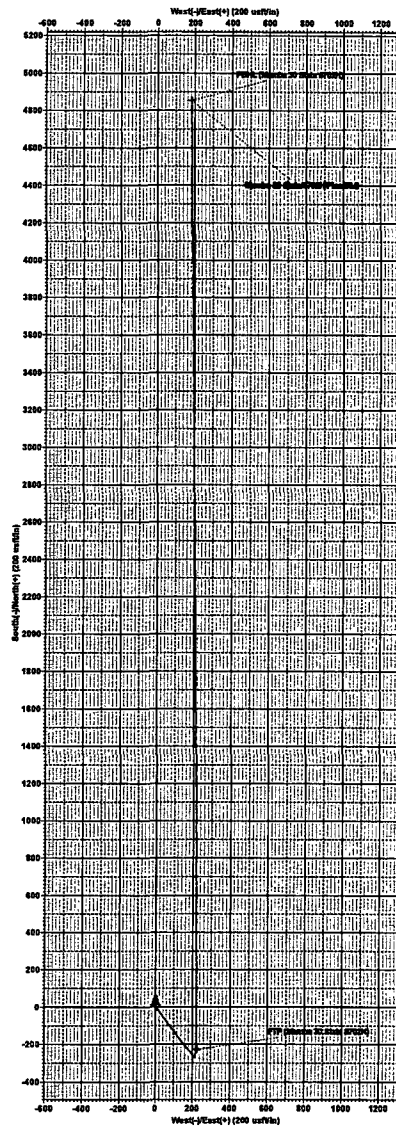
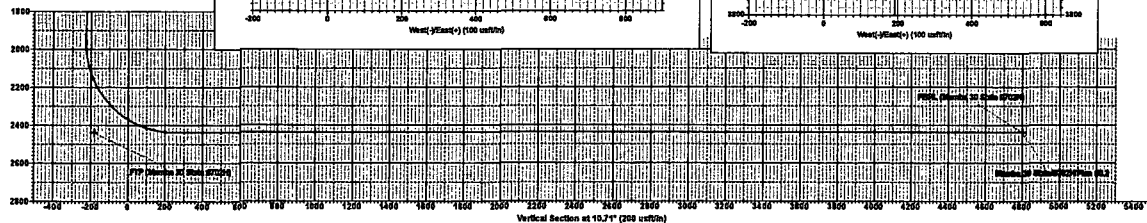
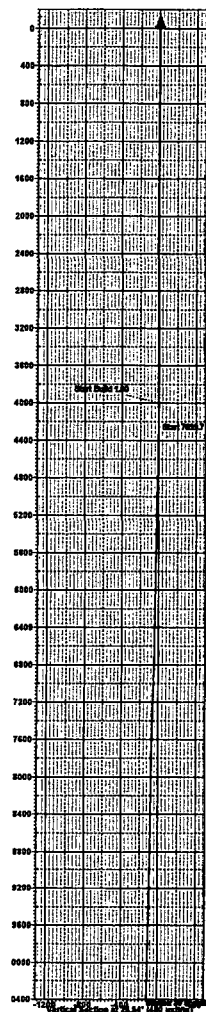
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
4254.8	2.55	142.24	4254.7	-4.5	3.5	1.00	142.24	-3.8	
11954.5	2.55	142.24	11946.8	-278.1	213.1	0.00	0.00	-230.7	
12721.4	90.00	359.52	12441.0	202.2	222.4	12.00	-142.70	240.0	
17371.4	90.00	359.52	12441.0	4852.0	183.0	0.00	0.00	4801.5	PBHL (Mamba 30 State #702H)

CASING DETAILS

No casing data is available

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Mamba 30 State #702H)	12441.0	4852.0	183.0	430587.00	766008.00
FTP (Mamba 30 State #702H)	12441.0	-229.0	228.0	430586.00	766049.00



Lea County, NM (NAD 83 NME)
Mamba 30 State #702H
Plan #0.2