



Lea County, NM (NAD 83 NME)

Mamba 30 State #503H

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: #503H

KB = 28 @ 1663.0m 3637.0
Northing 430881.00 Easting 785822.00 Latitude 32° 10' 56.958 N Longitude 103° 36' 27.828 W

SECTION DETAILS

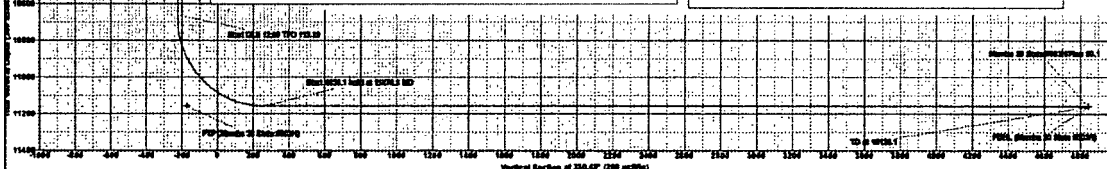
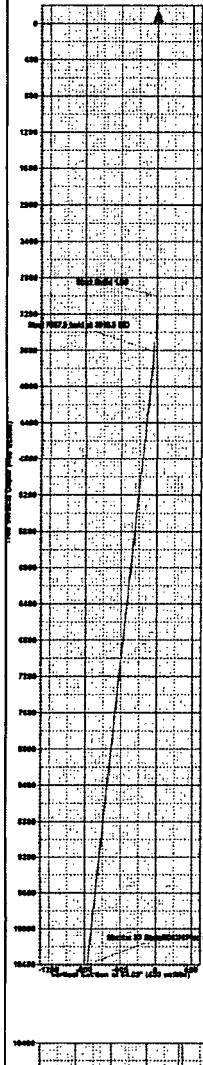
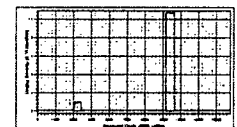
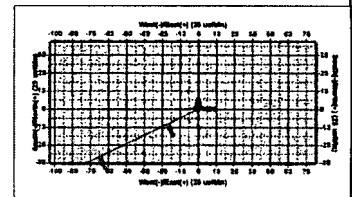
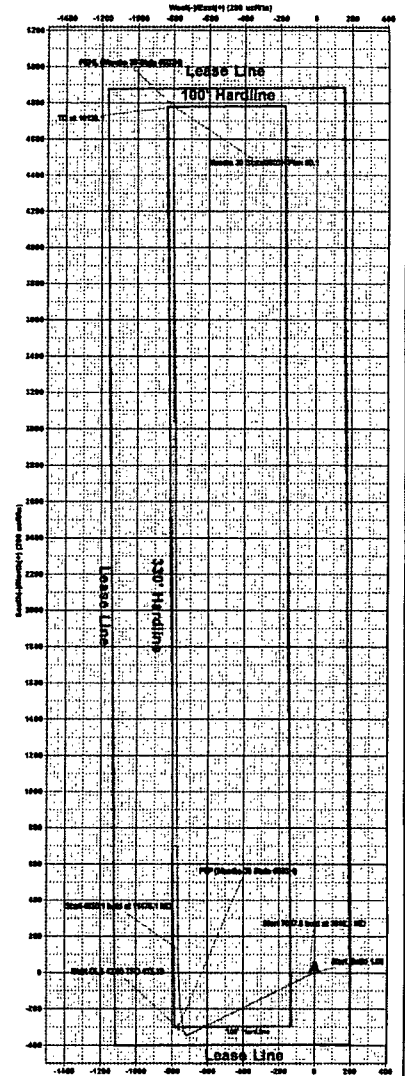
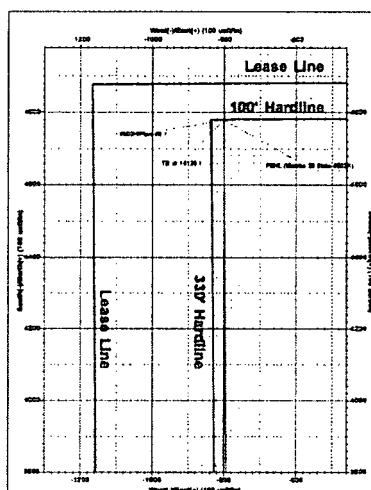
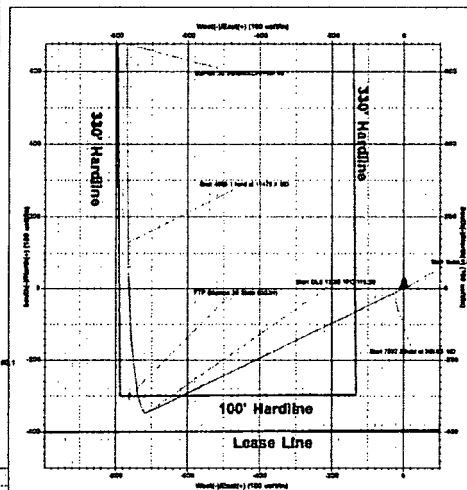
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3515.5	5.16	244.05	3515.3	-14.5	-29.8	1.00	244.05	-9.4	
4	10704.0	5.16	244.05	10681.8	-347.5	-714.2	0.00	0.00	-224.7	
5	11476.1	90.00	359.57	11159.0	129.1	-765.2	12.00	115.39	254.0	
6	16126.1	90.00	359.57	11159.0	4779.0	-801.0	0.00	0.00	4845.7	PBHL (Mamba 30 State #503H)

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 #503H)	11159.0	4779.0	-801.0	430881.00	785822.00
FTP (Mamba 30 State #503H)	11159.0	-301.0	-761.0	430881.00	785822.00





EOG OGD
JUL 05 2018
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Mamba 30 State

#503H

OH

Plan: Plan #0.1

Standard Planning Report

05 July, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Mamba 30 State
Well: #503H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #503H
TVD Reference: KB = 25 @ 3562.0usft
MD Reference: KB = 25 @ 3562.0usft
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		
Site Position:		Northing:	430,807.00 usft
From:	Map	Easting:	767,053.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 56.143 N
		Longitude:	103° 36' 13.509 W
		Grid Convergence:	0.39 °

Well	#503H		
Well Position	+N/-S	74.0 usft	Northing: 430,881.00 usft
	+E/-W	-1,231.0 usft	Easting: 765,822.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 10' 56.958 N
			Longitude: 103° 36' 27.826 W
			Ground Level: 3,537.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	7/5/2018	6.85
			Dip Angle (°)
			60.01
			Field Strength (nT)
			47,800.98918635

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			350.49

Plan Survey Tool Program	Date 7/5/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	16,126.1 Plan #0.1 (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	
3,616.5	6.16	244.05	3,615.3	-14.5	-29.8	1.00	1.00	0.00	244.05	
10,704.0	6.16	244.05	10,661.8	-347.5	-714.2	0.00	0.00	0.00	0.00	
11,476.1	90.00	359.57	11,159.0	129.1	-766.2	12.00	10.86	14.96	115.39	
16,126.1	90.00	359.57	11,159.0	4,779.0	-801.0	0.00	0.00	0.00	0.00	PBHL (Mamba 30 Sta



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Mamba 30 State
 Well: #503H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #503H
 TVD Reference: KB = 25 @ 3562.0usft
 MD Reference: KB = 25 @ 3562.0usft
 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)
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	1.00	244.05	3,100.0	-0.4	-0.8	-0.2	1.00	1.00	0.00
3,200.0	2.00	244.05	3,200.0	-1.5	-3.1	-1.0	1.00	1.00	0.00
3,300.0	3.00	244.05	3,299.9	-3.4	-7.1	-2.2	1.00	1.00	0.00
3,400.0	4.00	244.05	3,399.7	-6.1	-12.6	-3.9	1.00	1.00	0.00
3,500.0	5.00	244.05	3,499.4	-9.5	-19.6	-6.2	1.00	1.00	0.00
3,600.0	6.00	244.05	3,598.9	-13.7	-28.2	-8.9	1.00	1.00	0.00
3,616.5	6.16	244.05	3,615.3	-14.5	-29.8	-9.4	1.00	1.00	0.00
3,700.0	6.16	244.05	3,698.3	-18.4	-37.9	-11.9	0.00	0.00	0.00
3,800.0	6.16	244.05	3,797.7	-23.1	-47.5	-14.9	0.00	0.00	0.00
3,900.0	6.16	244.05	3,897.2	-27.8	-57.2	-18.0	0.00	0.00	0.00
4,000.0	6.16	244.05	3,996.6	-32.5	-66.8	-21.0	0.00	0.00	0.00
4,100.0	6.16	244.05	4,096.0	-37.2	-76.5	-24.1	0.00	0.00	0.00
4,200.0	6.16	244.05	4,195.4	-41.9	-86.1	-27.1	0.00	0.00	0.00
4,300.0	6.16	244.05	4,294.9	-46.6	-95.8	-30.1	0.00	0.00	0.00
4,400.0	6.16	244.05	4,394.3	-51.3	-105.5	-33.2	0.00	0.00	0.00
4,500.0	6.16	244.05	4,493.7	-56.0	-115.1	-36.2	0.00	0.00	0.00
4,600.0	6.16	244.05	4,593.1	-60.7	-124.8	-39.2	0.00	0.00	0.00
4,700.0	6.16	244.05	4,692.5	-65.4	-134.4	-42.3	0.00	0.00	0.00
4,800.0	6.16	244.05	4,792.0	-70.1	-144.1	-45.3	0.00	0.00	0.00
4,900.0	6.16	244.05	4,891.4	-74.8	-153.7	-48.4	0.00	0.00	0.00
5,000.0	6.16	244.05	4,990.8	-79.5	-163.4	-51.4	0.00	0.00	0.00
5,100.0	6.16	244.05	5,090.2	-84.2	-173.0	-54.4	0.00	0.00	0.00
5,200.0	6.16	244.05	5,189.7	-88.9	-182.7	-57.5	0.00	0.00	0.00



Planning Report

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 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Mamba 30 State
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 Wellbore: OH
 Design: Plan #0.1

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 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)
5,300.0	6.16	244.05	5,289.1	-93.6	-192.4	-60.5	0.00	0.00	0.00
5,400.0	6.16	244.05	5,388.5	-98.3	-202.0	-63.5	0.00	0.00	0.00
5,500.0	6.16	244.05	5,487.9	-103.0	-211.7	-66.6	0.00	0.00	0.00
5,600.0	6.16	244.05	5,587.3	-107.7	-221.3	-69.6	0.00	0.00	0.00
5,700.0	6.16	244.05	5,686.8	-112.4	-231.0	-72.7	0.00	0.00	0.00
5,800.0	6.16	244.05	5,786.2	-117.1	-240.6	-75.7	0.00	0.00	0.00
5,900.0	6.16	244.05	5,885.6	-121.8	-250.3	-78.7	0.00	0.00	0.00
6,000.0	6.16	244.05	5,985.0	-126.5	-260.0	-81.8	0.00	0.00	0.00
6,100.0	6.16	244.05	6,084.4	-131.2	-269.6	-84.8	0.00	0.00	0.00
6,200.0	6.16	244.05	6,183.9	-135.9	-279.3	-87.9	0.00	0.00	0.00
6,300.0	6.16	244.05	6,283.3	-140.6	-288.9	-90.9	0.00	0.00	0.00
6,400.0	6.16	244.05	6,382.7	-145.3	-298.6	-93.9	0.00	0.00	0.00
6,500.0	6.16	244.05	6,482.1	-150.0	-308.2	-97.0	0.00	0.00	0.00
6,600.0	6.16	244.05	6,581.6	-154.7	-317.9	-100.0	0.00	0.00	0.00
6,700.0	6.16	244.05	6,681.0	-159.4	-327.5	-103.0	0.00	0.00	0.00
6,800.0	6.16	244.05	6,780.4	-164.1	-337.2	-106.1	0.00	0.00	0.00
6,900.0	6.16	244.05	6,879.8	-168.8	-346.9	-109.1	0.00	0.00	0.00
7,000.0	6.16	244.05	6,979.2	-173.5	-356.5	-112.2	0.00	0.00	0.00
7,100.0	6.16	244.05	7,078.7	-178.2	-366.2	-115.2	0.00	0.00	0.00
7,200.0	6.16	244.05	7,178.1	-182.9	-375.8	-118.2	0.00	0.00	0.00
7,300.0	6.16	244.05	7,277.5	-187.6	-385.5	-121.3	0.00	0.00	0.00
7,400.0	6.16	244.05	7,376.9	-192.3	-395.1	-124.3	0.00	0.00	0.00
7,500.0	6.16	244.05	7,476.4	-197.0	-404.8	-127.3	0.00	0.00	0.00
7,600.0	6.16	244.05	7,575.8	-201.7	-414.5	-130.4	0.00	0.00	0.00
7,700.0	6.16	244.05	7,675.2	-206.4	-424.1	-133.4	0.00	0.00	0.00
7,800.0	6.16	244.05	7,774.6	-211.1	-433.8	-136.5	0.00	0.00	0.00
7,900.0	6.16	244.05	7,874.0	-215.8	-443.4	-139.5	0.00	0.00	0.00
8,000.0	6.16	244.05	7,973.5	-220.5	-453.1	-142.5	0.00	0.00	0.00
8,100.0	6.16	244.05	8,072.9	-225.2	-462.7	-145.6	0.00	0.00	0.00
8,200.0	6.16	244.05	8,172.3	-229.9	-472.4	-148.6	0.00	0.00	0.00
8,300.0	6.16	244.05	8,271.7	-234.6	-482.1	-151.6	0.00	0.00	0.00
8,400.0	6.16	244.05	8,371.1	-239.3	-491.7	-154.7	0.00	0.00	0.00
8,500.0	6.16	244.05	8,470.6	-243.9	-501.4	-157.7	0.00	0.00	0.00
8,600.0	6.16	244.05	8,570.0	-248.6	-511.0	-160.8	0.00	0.00	0.00
8,700.0	6.16	244.05	8,669.4	-253.3	-520.7	-163.8	0.00	0.00	0.00
8,800.0	6.16	244.05	8,768.8	-258.0	-530.3	-166.8	0.00	0.00	0.00
8,900.0	6.16	244.05	8,868.3	-262.7	-540.0	-169.9	0.00	0.00	0.00
9,000.0	6.16	244.05	8,967.7	-267.4	-549.6	-172.9	0.00	0.00	0.00
9,100.0	6.16	244.05	9,067.1	-272.1	-559.3	-175.9	0.00	0.00	0.00
9,200.0	6.16	244.05	9,166.5	-276.8	-569.0	-179.0	0.00	0.00	0.00
9,300.0	6.16	244.05	9,265.9	-281.5	-578.6	-182.0	0.00	0.00	0.00
9,400.0	6.16	244.05	9,365.4	-286.2	-588.3	-185.1	0.00	0.00	0.00
9,500.0	6.16	244.05	9,464.8	-290.9	-597.9	-188.1	0.00	0.00	0.00
9,600.0	6.16	244.05	9,564.2	-295.6	-607.6	-191.1	0.00	0.00	0.00
9,700.0	6.16	244.05	9,663.6	-300.3	-617.2	-194.2	0.00	0.00	0.00
9,800.0	6.16	244.05	9,763.1	-305.0	-626.9	-197.2	0.00	0.00	0.00
9,900.0	6.16	244.05	9,862.5	-309.7	-636.6	-200.2	0.00	0.00	0.00
10,000.0	6.16	244.05	9,961.9	-314.4	-646.2	-203.3	0.00	0.00	0.00
10,100.0	6.16	244.05	10,061.3	-319.1	-655.9	-206.3	0.00	0.00	0.00
10,200.0	6.16	244.05	10,160.7	-323.8	-665.5	-209.4	0.00	0.00	0.00
10,300.0	6.16	244.05	10,260.2	-328.5	-675.2	-212.4	0.00	0.00	0.00
10,400.0	6.16	244.05	10,359.6	-333.2	-684.8	-215.4	0.00	0.00	0.00
10,500.0	6.16	244.05	10,459.0	-337.9	-694.5	-218.5	0.00	0.00	0.00
10,600.0	6.16	244.05	10,558.4	-342.6	-704.1	-221.5	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3562.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3562.0usft
Site:	Mamba 30 State	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
10,704.0	6.16	244.05	10,661.8	-347.5	-714.2	-224.7	0.00	0.00	0.00
10,725.0	5.57	268.24	10,682.7	-348.0	-716.2	-224.8	12.00	-2.83	115.07
10,750.0	6.26	296.91	10,707.6	-347.4	-718.6	-223.9	12.00	2.77	114.66
10,775.0	8.08	316.24	10,732.4	-345.6	-721.1	-221.6	12.00	7.29	77.32
10,800.0	10.46	327.71	10,757.1	-342.4	-723.5	-218.1	12.00	9.51	45.88
10,825.0	13.09	334.80	10,781.5	-337.9	-725.9	-213.2	12.00	10.53	28.36
10,850.0	15.86	339.50	10,805.7	-332.1	-728.3	-207.2	12.00	11.05	18.82
10,875.0	18.69	342.83	10,829.6	-325.1	-730.7	-199.8	12.00	11.34	13.30
10,900.0	21.57	345.30	10,853.1	-316.8	-733.1	-191.3	12.00	11.51	9.88
10,925.0	24.47	347.21	10,876.1	-307.3	-735.4	-181.5	12.00	11.62	7.64
10,950.0	27.40	348.73	10,898.6	-296.6	-737.6	-170.6	12.00	11.70	6.10
10,975.0	30.34	349.98	10,920.5	-284.8	-739.9	-158.6	12.00	11.75	5.01
11,000.0	33.29	351.03	10,941.7	-271.8	-742.0	-145.4	12.00	11.79	4.20
11,025.0	36.24	351.93	10,962.2	-257.7	-744.1	-131.1	12.00	11.82	3.59
11,050.0	39.21	352.71	10,982.0	-242.5	-746.2	-115.8	12.00	11.85	3.11
11,075.0	42.17	353.39	11,001.0	-226.3	-748.2	-99.6	12.00	11.87	2.74
11,100.0	45.14	354.01	11,019.1	-209.2	-750.0	-82.3	12.00	11.88	2.45
11,125.0	48.12	354.56	11,036.2	-191.1	-751.9	-64.2	12.00	11.89	2.21
FTP (Mamba 30 State #503H)									
11,150.0	51.09	355.06	11,052.4	-172.2	-753.6	-45.2	12.00	11.90	2.01
11,175.0	54.07	355.52	11,067.6	-152.4	-755.2	-25.4	12.00	11.91	1.85
11,200.0	57.05	355.95	11,081.8	-131.8	-756.7	-4.9	12.00	11.92	1.71
11,225.0	60.03	356.35	11,094.8	-110.5	-758.2	16.3	12.00	11.92	1.60
11,250.0	63.01	356.73	11,106.7	-88.6	-759.5	38.2	12.00	11.93	1.51
11,275.0	65.99	357.08	11,117.5	-66.1	-760.7	60.6	12.00	11.93	1.43
11,300.0	68.98	357.42	11,127.1	-43.0	-761.8	83.5	12.00	11.93	1.36
11,325.0	71.96	357.75	11,135.4	-19.5	-762.8	106.9	12.00	11.94	1.31
11,350.0	74.94	358.07	11,142.5	4.5	-763.7	130.7	12.00	11.94	1.27
11,375.0	77.93	358.38	11,148.4	28.8	-764.4	154.7	12.00	11.94	1.23
11,400.0	80.91	358.68	11,153.0	53.3	-765.1	179.1	12.00	11.94	1.21
11,425.0	83.90	358.97	11,156.3	78.1	-765.6	203.6	12.00	11.94	1.19
11,450.0	86.89	359.27	11,158.3	103.0	-766.0	228.2	12.00	11.94	1.17
11,476.1	90.00	359.57	11,159.0	129.1	-766.2	254.0	12.00	11.94	1.17
11,500.0	90.00	359.57	11,159.0	153.0	-766.4	277.6	0.00	0.00	0.00
11,600.0	90.00	359.57	11,159.0	253.0	-767.1	376.3	0.00	0.00	0.00
11,700.0	90.00	359.57	11,159.0	353.0	-767.9	475.1	0.00	0.00	0.00
11,800.0	90.00	359.57	11,159.0	453.0	-768.6	573.8	0.00	0.00	0.00
11,900.0	90.00	359.57	11,159.0	553.0	-769.4	672.6	0.00	0.00	0.00
12,000.0	90.00	359.57	11,159.0	653.0	-770.1	771.3	0.00	0.00	0.00
12,100.0	90.00	359.57	11,159.0	753.0	-770.9	870.1	0.00	0.00	0.00
12,200.0	90.00	359.57	11,159.0	853.0	-771.6	968.8	0.00	0.00	0.00
12,300.0	90.00	359.57	11,159.0	953.0	-772.4	1,067.5	0.00	0.00	0.00
12,400.0	90.00	359.57	11,159.0	1,053.0	-773.1	1,166.3	0.00	0.00	0.00
12,500.0	90.00	359.57	11,159.0	1,153.0	-773.9	1,265.0	0.00	0.00	0.00
12,600.0	90.00	359.57	11,159.0	1,253.0	-774.6	1,363.8	0.00	0.00	0.00
12,700.0	90.00	359.57	11,159.0	1,353.0	-775.4	1,462.5	0.00	0.00	0.00
12,800.0	90.00	359.57	11,159.0	1,453.0	-776.1	1,561.3	0.00	0.00	0.00
12,900.0	90.00	359.57	11,159.0	1,553.0	-776.9	1,660.0	0.00	0.00	0.00
13,000.0	90.00	359.57	11,159.0	1,653.0	-777.6	1,758.8	0.00	0.00	0.00
13,100.0	90.00	359.57	11,159.0	1,753.0	-778.4	1,857.5	0.00	0.00	0.00
13,200.0	90.00	359.57	11,159.0	1,853.0	-779.1	1,956.3	0.00	0.00	0.00
13,300.0	90.00	359.57	11,159.0	1,952.9	-779.9	2,055.0	0.00	0.00	0.00
13,400.0	90.00	359.57	11,159.0	2,052.9	-780.6	2,153.7	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Mamba 30 State
 Well: #503H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #503H
 TVD Reference: KB = 25 @ 3562.0usft
 MD Reference: KB = 25 @ 3562.0usft
 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)
13,500.0	90.00	359.57	11,159.0	2,152.9	-781.4	2,252.5	0.00	0.00	0.00
13,600.0	90.00	359.57	11,159.0	2,252.9	-782.1	2,351.2	0.00	0.00	0.00
13,700.0	90.00	359.57	11,159.0	2,352.9	-782.9	2,450.0	0.00	0.00	0.00
13,800.0	90.00	359.57	11,159.0	2,452.9	-783.6	2,548.7	0.00	0.00	0.00
13,900.0	90.00	359.57	11,159.0	2,552.9	-784.3	2,647.5	0.00	0.00	0.00
14,000.0	90.00	359.57	11,159.0	2,652.9	-785.1	2,746.2	0.00	0.00	0.00
14,100.0	90.00	359.57	11,159.0	2,752.9	-785.8	2,845.0	0.00	0.00	0.00
14,200.0	90.00	359.57	11,159.0	2,852.9	-786.6	2,943.7	0.00	0.00	0.00
14,300.0	90.00	359.57	11,159.0	2,952.9	-787.3	3,042.4	0.00	0.00	0.00
14,400.0	90.00	359.57	11,159.0	3,052.9	-788.1	3,141.2	0.00	0.00	0.00
14,500.0	90.00	359.57	11,159.0	3,152.9	-788.8	3,239.9	0.00	0.00	0.00
14,600.0	90.00	359.57	11,159.0	3,252.9	-789.6	3,338.7	0.00	0.00	0.00
14,700.0	90.00	359.57	11,159.0	3,352.9	-790.3	3,437.4	0.00	0.00	0.00
14,800.0	90.00	359.57	11,159.0	3,452.9	-791.1	3,536.2	0.00	0.00	0.00
14,900.0	90.00	359.57	11,159.0	3,552.9	-791.8	3,634.9	0.00	0.00	0.00
15,000.0	90.00	359.57	11,159.0	3,652.9	-792.6	3,733.7	0.00	0.00	0.00
15,100.0	90.00	359.57	11,159.0	3,752.9	-793.3	3,832.4	0.00	0.00	0.00
15,200.0	90.00	359.57	11,159.0	3,852.9	-794.1	3,931.2	0.00	0.00	0.00
15,300.0	90.00	359.57	11,159.0	3,952.9	-794.8	4,029.9	0.00	0.00	0.00
15,400.0	90.00	359.57	11,159.0	4,052.9	-795.6	4,128.6	0.00	0.00	0.00
15,500.0	90.00	359.57	11,159.0	4,152.9	-796.3	4,227.4	0.00	0.00	0.00
15,600.0	90.00	359.57	11,159.0	4,252.9	-797.1	4,326.1	0.00	0.00	0.00
15,700.0	90.00	359.57	11,159.0	4,352.9	-797.8	4,424.9	0.00	0.00	0.00
15,800.0	90.00	359.57	11,159.0	4,452.9	-798.6	4,523.6	0.00	0.00	0.00
15,900.0	90.00	359.57	11,159.0	4,552.9	-799.3	4,622.4	0.00	0.00	0.00
16,000.0	90.00	359.57	11,159.0	4,652.9	-800.1	4,721.1	0.00	0.00	0.00
16,100.0	90.00	359.57	11,159.0	4,752.9	-800.8	4,819.9	0.00	0.00	0.00
16,126.1	90.00	359.57	11,159.0	4,779.0	-801.0	4,845.7	0.00	0.00	0.00

PBHL (Mamba 30 State #503H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Mamba 30 State	0.00	0.00	11,159.0	4,779.0	-801.0	435,660.00	765,021.00	32° 11' 44.301 N	103° 36' 36.772 W
- plan hits target center									
- Point									
FTP (Mamba 30 State #:	0.00	0.00	11,159.0	-301.0	-763.0	430,580.00	765,059.00	32° 10' 54.030 N	103° 36' 36.728 W
- plan misses target center by 165.1usft at 11125.0usft MD (11036.2 TVD, -191.1 N, -751.9 E)									
- Point									