



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Mamba 30 State Com

#706H

OH

Design: OH

Midland PVA

13 February, 2019

HOBBS OCD
MAY 02 2019
RECEIVED



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3588.0usft
Site:	Mamba 30 State Com	MD Reference:	KB = 25 @ 3588.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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
From:	Map	Easting:	767,053.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 58.143 N
		Longitude:	103° 38' 13.509 W
		Grid Convergence:	0.39 °

Well	#706H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

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

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:		Tie On Depth:	0.0
	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)

Survey Program	Date 2/13/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
200.0	17,395.0	Newsco MWD (OH)	MWD
			OWSG MWD - Standard



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Survey											
MD (ush)	Inc (°)	Azi (azimuth) (°)		TVD (ush)	N/S (ush)	EW (ush)	DLeg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
200.0	0.20	23.00	200.0	0.3	0.1	0.10	0.10	0.10	0.00	0.0	0.0
323.0	0.50	343.80	323.0	1.0	0.1	0.30	0.24	-31.87	0.0	0.0	0.0
497.0	0.70	31.30	497.0	2.7	0.4	0.30	0.11	27.30	0.0	0.0	0.0
683.0	0.50	99.50	683.0	3.5	1.8	0.37	-0.11	38.67	0.0	0.0	0.0
871.0	0.80	140.30	871.0	2.4	3.4	0.28	0.16	21.70	0.0	0.0	0.0
1,059.0	0.20	355.20	1,059.0	1.7	4.3	0.52	-0.32	-77.18	0.0	0.0	0.0
1,210.0	1.10	109.70	1,210.0	1.5	5.6	0.79	0.60	75.83	0.0	0.0	0.0
1,422.0	5.80	133.00	1,421.5	-6.5	15.4	2.27	2.22	10.99	0.0	0.0	0.0
1,609.0	8.10	136.20	1,607.1	-22.5	31.4	1.25	1.23	1.71	0.0	0.0	0.0
1,798.0	9.40	159.40	1,794.0	-46.6	48.0	1.97	0.69	12.28	0.0	0.0	0.0
1,986.0	9.50	163.10	1,979.4	-75.8	58.0	0.33	0.05	1.97	0.0	0.0	0.0
2,173.0	9.40	165.70	2,163.9	-105.3	64.2	0.23	-0.05	1.39	0.0	0.0	0.0
2,362.0	8.70	167.90	2,350.5	-134.3	71.0	0.41	-0.37	1.16	0.0	0.0	0.0
2,549.0	11.30	162.10	2,534.7	-164.3	82.8	2.01	1.39	-8.45	0.0	0.0	0.0
2,844.0	11.00	153.30	2,827.9	-180.6	91.0	0.40	-0.32	1.26	0.0	0.0	0.0
2,831.0	10.80	157.80	2,811.6	-212.8	105.6	0.47	-0.11	2.41	0.0	0.0	0.0
3,019.0	11.00	158.00	2,996.2	-245.7	119.0	0.11	0.11	0.11	0.0	0.0	0.0
3,113.0	11.10	158.80	3,088.4	-262.5	125.6	0.21	0.11	0.96	0.0	0.0	0.0
3,302.0	11.80	161.50	3,273.6	-297.9	138.3	0.50	0.42	1.38	0.0	0.0	0.0
3,488.0	8.70	147.00	3,458.6	-327.9	152.1	2.20	-1.72	-7.80	0.0	0.0	0.0
3,676.0	6.90	147.00	3,642.9	-349.3	168.0	0.96	-0.96	0.00	0.0	0.0	0.0
3,864.0	6.50	145.30	3,829.6	-367.6	178.2	0.24	-0.21	-0.90	0.0	0.0	0.0
4,053.0	9.10	161.30	4,016.9	-390.5	189.1	1.78	1.38	8.47	0.0	0.0	0.0
4,242.0	6.40	158.50	4,204.1	-414.5	197.7	1.44	-1.43	-1.48	0.0	0.0	0.0
4,429.0	8.60	140.00	4,389.5	-434.9	210.8	1.73	1.18	-8.89	0.0	0.0	0.0
4,617.0	11.00	146.80	4,574.8	-460.7	229.4	1.42	1.28	3.62	0.0	0.0	0.0



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 Database: EDM 5000.14

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MD (ush)	Inc (°)	Azi (azimuth) (°)	TVD (ush)	N/S (ush)	E/W (ush)	DLeg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)	
4,803.0	13.70	147.30	4,756.5	-494.1	251.0	1.45	1.45	0.27	0.0	0.0	
4,991.0	9.40	150.70	4,940.6	-526.2	270.8	2.31	-2.29	1.81	0.0	0.0	
5,179.0	7.00	150.80	5,126.7	-549.6	283.7	1.28	-1.28	0.05	0.0	0.0	
5,366.0	6.50	151.60	5,312.0	-571.7	285.8	0.80	0.80	0.43	0.0	0.0	
5,554.0	7.70	151.60	5,498.1	-595.0	308.4	0.43	-0.43	0.00	0.0	0.0	
5,742.0	9.30	164.30	5,684.0	-620.7	318.5	1.31	0.85	6.76	0.0	0.0	
5,929.0	8.50	160.90	5,868.8	-646.3	327.1	0.51	-0.43	-1.82	0.0	0.0	
6,116.0	7.40	160.80	6,054.0	-672.7	335.6	0.59	-0.59	-0.05	0.0	0.0	
6,304.0	6.70	156.80	6,240.8	-694.3	343.9	0.45	-0.37	-2.13	0.0	0.0	
6,492.0	7.60	164.60	6,427.1	-716.3	351.5	0.70	0.48	4.15	0.0	0.0	
6,679.0	7.30	163.30	6,612.5	-739.6	358.2	0.18	-0.16	-0.70	0.0	0.0	
6,867.0	9.10	161.00	6,798.6	-765.1	366.5	0.97	0.96	-1.22	0.0	0.0	
7,055.0	8.30	158.20	6,984.4	-791.8	376.4	0.48	-0.43	-1.49	0.0	0.0	
7,242.0	8.40	158.00	7,169.5	-817.0	386.5	0.06	0.05	-0.11	0.0	0.0	
7,336.0	8.40	157.80	7,262.4	-829.7	391.7	0.06	0.00	-0.43	0.0	0.0	
7,523.0	8.00	156.00	7,447.5	-854.2	402.2	0.25	-0.21	-0.86	0.0	0.0	
7,711.0	6.60	156.80	7,634.0	-876.1	411.8	0.75	-0.74	0.43	0.0	0.0	
7,899.0	6.70	146.50	7,820.7	-895.2	422.1	0.64	0.05	-5.48	0.0	0.0	
8,086.0	7.10	146.30	8,006.4	-913.9	434.5	0.21	0.21	-0.11	0.0	0.0	
8,274.0	6.00	147.80	8,193.2	-931.8	446.2	0.59	-0.59	0.69	0.0	0.0	
8,461.0	5.00	149.20	8,379.3	-947.1	455.6	0.54	-0.53	0.86	0.0	0.0	
8,649.0	4.50	151.70	8,566.7	-960.6	463.3	0.29	-0.27	1.33	0.0	0.0	
8,837.0	3.50	157.60	8,754.2	-972.4	469.0	0.57	-0.53	3.14	0.0	0.0	
9,024.0	2.60	167.40	8,940.9	-981.8	472.1	0.55	-0.48	5.24	0.0	0.0	
9,212.0	1.10	205.70	9,128.8	-987.6	472.3	0.99	-0.80	20.37	0.0	0.0	
9,400.0	0.50	240.80	9,316.8	-989.6	470.8	0.40	-0.32	18.67	0.0	0.0	
9,586.0	0.50	256.60	9,502.8	-990.2	469.3	0.07	0.00	8.49	0.0	0.0	



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9,774.0	0.80	334.80	9,690.8	-989.2	487.9	0.45	0.18	41.63	0.0	0.0	
9,982.0	1.60	336.00	9,878.8	-985.6	486.3	0.43	0.43	0.59	0.0	0.0	
10,148.0	1.00	4.90	10,065.7	-981.6	485.4	0.47	-0.32	15.45	0.0	0.0	
10,338.0	0.90	282.50	10,252.7	-980.2	484.1	0.79	-0.05	-54.78	0.0	0.0	
10,524.0	0.80	282.00	10,440.7	-980.5	481.8	0.16	-0.18	-0.27	0.0	0.0	
10,711.0	0.30	147.30	10,627.7	-981.1	480.9	0.41	-0.18	-61.34	0.0	0.0	
10,899.0	0.50	210.10	10,815.7	-982.2	460.8	0.24	0.11	33.40	0.0	0.0	
11,086.0	1.00	231.90	11,002.8	-983.9	459.1	0.30	0.27	11.66	0.0	0.0	
11,273.0	0.80	102.10	11,189.8	-985.2	459.1	0.87	-0.11	-69.41	0.0	0.0	
11,460.0	0.50	154.30	11,376.8	-986.2	460.7	0.34	-0.16	27.91	0.0	0.0	
11,648.0	0.30	103.90	11,564.8	-987.1	461.5	0.21	-0.11	-26.81	0.0	0.0	
11,837.0	0.70	198.30	11,753.8	-988.3	461.8	0.41	0.21	49.95	0.0	0.0	
11,882.0	0.80	224.90	11,798.8	-988.8	461.3	0.80	0.22	59.11	0.0	0.0	
11,968.0	1.10	252.10	11,882.8	-989.4	460.2	0.64	0.38	32.38	-0.3	-0.3	
12,060.0	5.80	358.30	11,976.4	-985.0	459.2	6.59	5.00	112.98	-5.6	0.3	
12,154.0	24.40	3.10	12,068.8	-980.8	460.1	19.82	19.79	5.11	-29.7	0.1	
12,249.0	36.30	359.90	12,148.8	-912.7	461.1	12.64	12.53	-3.37	-63.8	-5.2	
12,343.0	45.80	359.40	12,219.4	-851.1	460.7	10.11	10.11	-0.53	-95.2	-9.8	
12,437.0	51.70	0.70	12,281.4	-780.4	460.8	6.36	6.28	1.38	-117.8	-13.8	
12,530.0	54.60	358.80	12,337.2	-708.0	460.4	3.52	3.12	-2.04	-123.2	-23.8	
12,624.0	61.70	352.80	12,386.8	-628.5	454.4	9.29	7.55	-6.38	-111.3	-30.5	
12,718.0	66.80	350.10	12,427.6	-542.8	441.8	6.01	5.43	-2.87	-87.6	-24.3	
12,812.0	72.70	351.00	12,460.1	-455.9	427.4	6.34	6.28	0.96	-56.3	-14.7	
12,906.0	84.80	358.20	12,478.4	-384.4	417.2	13.98	12.87	5.53	-37.8	-7.6	
13,000.0	87.60	355.90	12,484.7	-270.9	410.7	3.00	2.98	-0.32	-31.3	-2.4	
13,074.0	90.20	358.30	12,486.1	-197.0	407.0	4.78	3.51	3.24	-28.7	0.7	
13,187.0	93.70	359.10	12,482.3	-84.1	404.4	3.18	3.10	0.71	-33.1	2.2	



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13,281.0	90.60	359.80	12,478.7	9.8	403.5	3.38	-3.30	0.74	-38.4	2.2
13,374.0	89.20	0.00	12,478.9	102.8	403.4	1.52	-1.51	0.22	-35.9	1.4
13,468.0	87.20	0.20	12,481.8	196.8	403.5	2.14	-2.13	0.21	-32.8	0.4
13,561.0	87.00	0.00	12,488.5	289.6	403.7	0.30	-0.22	-0.21	-27.6	-0.7
13,658.0	87.50	0.00	12,491.1	384.5	403.7	0.53	0.53	0.00	-22.8	-1.6
13,749.0	87.70	359.00	12,495.0	477.4	402.9	1.10	0.22	-1.08	-18.6	-1.7
13,843.0	88.60	358.70	12,498.0	571.4	401.0	1.01	0.98	-0.32	-15.2	-0.7
13,936.0	87.80	357.80	12,501.1	664.3	398.2	1.45	-1.08	-0.97	-11.9	1.2
14,030.0	91.10	357.80	12,502.2	758.2	394.6	3.72	3.72	0.00	-10.5	3.9
14,123.0	91.80	358.00	12,499.8	851.1	391.2	0.78	0.75	0.22	-12.5	6.5
14,217.0	90.40	358.20	12,498.0	945.0	388.0	1.50	-1.49	0.21	-14.1	8.7
14,311.0	91.60	359.10	12,498.4	1,039.0	385.8	1.80	1.28	0.96	-15.3	10.0
14,404.0	90.10	357.70	12,495.0	1,131.9	383.2	2.21	-1.81	-1.51	-16.3	11.7
14,498.0	90.30	358.60	12,494.7	1,225.9	380.2	0.98	0.21	0.96	-16.3	13.8
14,592.0	91.30	0.10	12,493.4	1,318.9	379.1	1.92	1.06	1.60	-17.2	14.0
14,686.0	89.10	0.90	12,493.0	1,413.8	380.0	2.49	-2.34	0.85	-17.2	12.3
14,780.0	88.40	0.80	12,485.1	1,507.8	381.3	0.75	-0.74	-0.11	-14.8	10.0
14,873.0	87.40	1.00	12,498.5	1,600.7	382.8	1.10	-1.08	0.22	-11.0	7.8
14,967.0	89.80	1.20	12,500.8	1,694.7	384.6	2.56	2.55	0.21	-8.3	4.9
15,061.0	91.50	0.50	12,499.7	1,788.7	388.0	1.96	1.81	-0.74	-9.0	2.6
15,154.0	93.20	0.10	12,495.9	1,881.6	386.5	1.88	1.83	-0.43	-12.5	1.2
15,248.0	93.10	0.50	12,490.7	1,975.4	387.0	0.44	-0.11	0.43	-17.2	-0.2
15,341.0	89.30	0.80	12,488.8	2,068.4	388.0	4.10	-4.09	0.32	-16.8	-2.1
15,435.0	88.70	1.30	12,490.4	2,162.4	389.8	0.83	-0.64	0.53	-16.8	-4.8
15,529.0	88.50	1.30	12,492.7	2,256.3	391.9	0.21	-0.21	0.00	-14.1	-7.8
15,623.0	88.80	0.80	12,494.9	2,350.3	393.8	0.82	0.32	-0.53	-11.6	-10.4
15,717.0	87.30	359.80	12,498.1	2,444.2	394.1	1.92	-1.60	-1.06	-8.0	-11.8



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15,810.0	87.90	358.10	12,502.0	2,537.1	392.4	1.94	0.65	-1.83	-4.0	-11.0	
15,904.0	89.80	357.10	12,503.9	2,631.0	388.5	2.28	2.02	-1.06	-2.3	-8.0	
15,998.0	91.20	357.40	12,503.1	2,724.9	384.0	1.52	1.49	0.32	-3.3	-4.4	
16,091.0	90.80	358.60	12,501.5	2,817.8	380.7	1.36	-0.43	1.29	-5.2	-2.0	
16,185.0	91.60	359.00	12,499.5	2,911.8	378.7	0.95	0.85	0.43	-7.3	-1.0	
16,279.0	92.60	359.40	12,496.1	3,005.7	377.4	1.15	1.06	0.43	-11.0	-0.6	
16,372.0	91.40	0.40	12,492.8	3,098.6	377.3	1.68	-1.28	1.08	-14.4	-1.3	
16,466.0	89.50	1.10	12,492.1	3,192.6	378.5	2.15	-2.02	0.74	-15.3	-3.4	
16,560.0	89.00	1.80	12,493.3	3,286.6	381.0	1.00	-0.53	0.85	-14.3	-6.8	
16,654.0	89.10	1.20	12,494.9	3,380.5	383.5	0.75	0.11	-0.74	-12.9	-10.2	
16,747.0	89.20	1.60	12,496.3	3,473.5	385.8	0.44	0.11	0.43	-11.7	-13.4	
16,841.0	89.10	1.40	12,497.7	3,567.5	388.2	0.24	-0.11	-0.21	-11.2	-16.8	
16,935.0	89.10	1.80	12,498.1	3,661.4	390.9	0.43	0.00	0.43	-10.7	-20.3	
17,028.0	88.40	1.40	12,501.2	3,754.3	393.5	0.87	-0.75	-0.43	-9.7	-23.8	
17,122.0	87.00	0.90	12,504.9	3,848.2	395.3	1.58	-1.49	-0.53	-7.0	-26.8	
17,216.0	89.90	359.70	12,507.5	3,942.2	395.8	3.34	3.09	-1.28	-5.4	-28.0	
17,309.0	89.80	359.00	12,507.7	4,035.2	394.8	0.76	-0.11	-0.75	-6.2	-27.8	
17,338.0	89.90	359.80	12,507.8	4,064.2	394.5	2.78	0.34	2.78	-6.5	-27.8	
17,395.0	89.90	358.80	12,507.9	4,121.2	393.8	1.75	0.00	-1.75	-7.0	-27.7	



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Mamba 30 State Com
Well: #706H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25 @ 3588.0usft
MD Reference: KB = 25 @ 3588.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,021.0	11,937.6	-988.0	459.4	KOP, MD:12021.0', TVD:11937.6', N/S:-988.0', E/W:459.4', INC:3.30
12,207.0	12,113.7	-936.0	460.9	FTP Crossing, MD:12207.0', TVD:12113.7', N/S:-936.0', E/W:460.9', INC:31.03
17,338.0	12,507.8	4,084.2	394.5	Last MWD Survey (MD=17338.0')
17,395.0	12,507.9	4,121.2	393.8	Projection to Bit (MD=17395.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Mamba 30 State Com #706H

Plan #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 @ 3588.0usft 3583.0
Northing 431612.00 Easting 763960.00 Latitude 32° 11' 3.325 N Longitude 103° 36' 49.443 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSeet	Target
1	11882.0	0.80	224.90	11798.6	-988.8	461.3	0.00	0.00	-944.2	
2	12118.4	0.80	224.90	12035.0	-991.1	459.0	0.00	0.00	-946.7	
3	12874.3	90.19	355.60	12516.8	-513.9	417.2	12.00	130.70	-475.1	
4	13066.9	90.18	359.45	12516.2	-321.5	408.8	2.00	90.08	-284.2	
5	14357.3	90.18	359.45	12512.0	968.8	398.5	0.00	0.00	1000.0	TGT#1(Mamba 30 State #706H)
6	14359.5	90.23	359.45	12512.0	971.0	396.5	2.00	-5.52	1002.2	
7	15884.6	90.23	359.45	12506.0	2476.0	382.0	0.00	0.00	2500.0	TGT#2(Mamba 30 State #706H)
8	15881.8	89.88	359.45	12506.0	2493.3	381.8	2.00	180.00	2517.2	
9	16869.3	89.88	359.45	12508.0	3480.7	372.3	0.00	0.00	3500.0	TGT#3(Mamba 30 State #706H)
10	16894.7	89.38	359.45	12508.2	3506.1	372.0	2.00	-180.00	3525.2	
11	17521.7	89.38	359.45	12515.0	4133.0	368.0	0.00	0.00	4149.2	PBHL (Mamba 30 State #706H)

To convert a Magnetic Direction to a Grid Direction, Add 8.45°
To convert a Magnetic Direction to a True Direction, Add 8.83° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
TGT#1(Mamba 30 State #706H)	12912.0	888.8	398.5	432480.80	764358.50
TGT#2(Mamba 30 State #706H)	12506.0	2476.0	382.0	433888.00	764341.97
TGT#3(Mamba 30 State #706H)	12508.0	3480.7	372.3	434982.70	764332.28
PBHL (Mamba 30 State #706H)	12816.0	4133.0	368.0	435848.00	764326.00
AC TGT(Mamba 30 State #706H)	10975.0	-888.0	478.0	430528.00	764435.00
FTT (Mamba 30 State #706H)	12814.0	-434.0	416.0	430578.00	764376.00
KOP(Mamba 30 State #706H)	11880.8	-888.0	478.0	430828.00	764435.00

