eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Mamba 30 State Com
#501H
OH

Design: OH

Final PVA

07 September, 2018

eog resources

Final PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #501H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3576.0usft
Site:	Mamba 30 State Com	**MD Reference:**	KB = 25' @ 3576.0usft
Well:	#501H	**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	**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 #501H

Well Position	**+N/-S**	0.0 usft	**Northing:**	434,971.00 usft	**Latitude:**	32° 11' 37.365 N
	+E/-W	0.0 usft	**Easting:**	766,784.00 usft	**Longitude:**	103° 36' 16.310 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,551.0 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	9/25/2017	6.94	60.03	47,887.57139782

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	180.33

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Survey Program **Date** 9/7/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
195.0	4,956.0	Gordon MWD Cartel 18 22' KB +3' (OH)	MWD	OWSG MWD - Standard
5,044.0	16,044.0	Total MWD #1 (OH)	MWD	OWSG MWD - Standard

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
195.0	0.03	64.17	195.0	0.0	0.0	0.02	0.02	0.00	0.0	0.0
369.0	0.48	241.13	369.0	-0.3	-0.6	0.29	0.26	101.70	0.0	0.0
544.0	0.80	246.90	544.0	-1.1	-2.3	0.19	0.18	3.30	0.0	0.0
718.0	0.48	283.21	718.0	-1.5	-4.1	0.29	-0.18	20.87	0.0	0.0
893.0	0.86	277.56	893.0	-1.1	-6.2	0.22	0.22	-3.23	0.0	0.0
1,067.0	1.67	247.25	1,066.9	-1.9	-9.8	0.59	0.47	-17.42	0.0	0.0
1,118.0	1.48	257.01	1,117.9	-2.4	-11.1	0.64	-0.37	19.14	0.0	0.0
1,206.0	1.78	247.54	1,205.9	-3.1	-13.5	0.46	0.34	-10.76	0.0	0.0
1,380.0	3.93	355.28	1,379.7	1.8	-16.5	2.75	1.24	61.92	0.0	0.0
1,555.0	5.34	3.82	1,554.1	15.9	-16.4	0.89	0.81	4.88	0.0	0.0
1,729.0	6.22	8.04	1,727.3	33.3	-14.6	0.56	0.51	2.43	0.0	0.0
1,904.0	6.07	9.65	1,901.3	51.8	-11.7	0.13	-0.09	0.92	0.0	0.0
2,078.0	6.05	357.76	2,074.3	70.0	-10.5	0.72	-0.01	-6.83	0.0	0.0
2,253.0	6.27	357.35	2,248.3	88.8	-11.3	0.13	0.13	-0.23	0.0	0.0
2,427.0	5.59	353.80	2,421.3	106.7	-12.7	0.44	-0.39	-2.04	0.0	0.0
2,601.0	7.79	2.00	2,594.2	126.9	-13.2	1.38	1.26	4.71	0.0	0.0
2,776.0	6.97	0.71	2,767.7	149.4	-12.6	0.48	-0.47	-0.74	0.0	0.0
2,950.0	6.12	355.34	2,940.6	169.2	-13.2	0.60	-0.49	-3.09	0.0	0.0
3,125.0	6.03	354.33	3,114.6	187.6	-14.9	0.08	-0.05	-0.58	0.0	0.0
3,299.0	5.29	0.10	3,287.7	204.8	-15.8	0.54	-0.43	3.32	0.0	0.0

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Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
3,474.0	7.10	3.46	3,461.7	223.6	-15.1	1.05	1.03	1.92	0.0	0.0
3,648.0	7.46	1.81	3,634.3	245.6	-14.1	0.24	0.21	-0.95	0.0	0.0
3,823.0	7.36	2.09	3,807.8	268.2	-13.4	0.06	-0.06	0.16	0.0	0.0
3,997.0	6.04	359.37	3,980.6	288.5	-13.1	0.78	-0.76	-1.56	0.0	0.0
4,171.0	6.42	353.46	4,153.6	307.3	-14.3	0.43	0.22	-3.40	0.0	0.0
4,346.0	5.78	355.09	4,327.6	325.8	-16.1	0.38	-0.37	0.93	0.0	0.0
4,520.0	5.56	0.62	4,500.8	343.0	-16.8	0.34	-0.13	3.18	0.0	0.0
4,695.0	4.65	359.09	4,675.1	358.5	-16.8	0.53	-0.52	-0.87	0.0	0.0
4,869.0	6.22	359.68	4,848.3	375.0	-17.0	0.90	0.90	0.34	0.0	0.0
4,956.0	8.68	353.16	4,934.6	386.3	-17.8	2.99	2.83	-7.49	0.0	0.0
5,044.0	8.90	354.40	5,021.5	399.6	-19.2	0.33	0.25	1.41	-0.2	-0.1
5,234.0	8.00	351.40	5,209.5	427.3	-22.7	0.53	-0.47	-1.58	1.5	-0.1
5,423.0	9.90	359.70	5,396.2	456.6	-24.7	1.21	1.01	4.39	1.6	-1.9
5,612.0	9.90	355.00	5,582.4	489.0	-26.2	0.43	0.00	-2.49	-1.2	-4.2
5,801.0	9.80	352.60	5,768.6	521.1	-29.7	0.22	-0.05	-1.27	-3.9	-4.7
5,990.0	8.90	349.10	5,955.1	551.5	-34.5	0.56	-0.48	-1.85	-4.8	-3.9
6,179.0	8.50	346.50	6,141.9	579.4	-40.6	0.30	-0.21	-1.38	-3.8	-1.5
6,368.0	9.90	352.60	6,328.5	609.1	-45.9	0.90	0.74	3.23	-4.5	0.6
6,558.0	9.80	351.90	6,515.7	641.3	-50.3	0.08	-0.05	-0.37	-7.4	0.9
6,747.0	8.90	347.50	6,702.1	671.5	-55.7	0.61	-0.48	-2.33	-8.7	1.9
6,936.0	7.90	344.10	6,889.1	698.3	-62.4	0.59	-0.53	-1.80	-7.1	5.0
7,124.0	6.90	345.90	7,075.5	721.6	-68.7	0.55	-0.53	0.96	-2.1	9.2
7,313.0	6.10	341.00	7,263.3	742.1	-74.8	0.51	-0.42	-2.59	-3.4	12.5
7,502.0	2.70	321.20	7,451.8	755.1	-80.8	1.94	-1.80	-10.48	-13.8	11.8
7,541.8	2.18	315.75	7,491.5	756.4	-81.9	1.43	-1.31	-13.70	-16.4	10.5
Brushy Top(Mamba 30 State #501H)										
7,691.0	1.00	241.80	7,640.7	757.8	-85.1	1.43	-0.79	-49.56	-16.7	-15.6

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Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,880.0	1.20	150.50	7,829.6	755.3	-85.6	0.84	0.11	-48.31	14.0	-18.0
8,068.0	1.50	144.10	8,017.6	751.6	-83.1	0.18	0.16	-3.40	11.5	-16.6
8,257.0	1.30	148.10	8,206.5	747.8	-80.6	0.12	-0.11	2.12	5.7	-17.1
8,446.0	0.50	104.70	8,395.5	745.7	-78.6	0.53	-0.42	-22.96	13.5	-10.0
8,636.0	0.50	105.30	8,585.5	745.3	-77.0	0.00	0.00	0.32	11.8	-10.1
8,825.0	0.30	257.00	8,774.5	745.0	-76.7	0.41	-0.11	80.26	-14.9	3.7
9,013.0	0.80	237.40	8,962.5	744.2	-78.3	0.28	0.27	-10.43	-17.1	-1.6
9,202.0	0.20	325.60	9,151.5	743.7	-79.6	0.43	-0.32	46.67	-2.6	18.4
9,391.0	0.80	92.30	9,340.5	743.9	-78.5	0.49	0.32	67.04	15.1	-8.7
9,580.0	0.30	300.50	9,529.5	744.1	-77.6	0.57	-0.26	-80.32	-8.6	14.2
9,769.0	0.90	269.30	9,718.5	744.4	-79.5	0.35	0.32	-16.51	-16.6	7.4
9,958.0	0.50	199.60	9,907.5	743.6	-81.2	0.46	-0.21	-36.88	-14.0	-14.4
10,147.0	0.80	50.10	10,096.5	743.7	-80.5	0.66	0.16	-79.10	18.8	4.8
10,336.0	0.70	26.90	10,285.4	745.5	-79.0	0.17	-0.05	-12.28	13.0	11.3
10,629.0	2.90	158.60	10,578.3	740.2	-75.5	1.16	0.75	44.95	-6.4	-15.9
10,724.0	13.20	170.30	10,672.3	727.3	-72.7	10.92	10.84	12.32	-17.0	-12.8
10,771.0	19.00	170.60	10,717.4	714.4	-70.6	12.34	12.34	0.64	-21.6	-11.3
10,808.2	22.84	177.50	10,752.1	701.2	-69.3	12.25	10.32	18.55	-26.5	-7.6
HL Crossing, MD:10808.2', TVD:10752.1',N/S:701.2', E/W:-69.3', INC:22.84										
10,819.0	24.00	179.10	10,762.1	696.9	-69.2	12.25	10.74	14.82	-27.8	-6.8
10,866.0	28.20	181.60	10,804.3	676.3	-69.3	9.24	8.94	5.32	-32.5	-5.9
10,913.0	31.60	179.00	10,845.0	652.8	-69.4	7.74	7.23	-5.53	-35.7	-7.5
10,960.0	34.20	175.90	10,884.5	627.3	-68.3	6.59	5.53	-6.60	-37.3	-8.2
11,007.0	38.50	174.90	10,922.3	599.6	-66.0	9.24	9.15	-2.13	-37.8	-6.6
11,102.0	51.70	176.40	10,989.2	532.6	-61.0	13.94	13.89	1.58	-41.2	-1.2
FTP (Mamba 30 State #501H)										
11,149.0	58.80	177.60	11,016.0	494.1	-59.0	15.25	15.11	2.55	-44.8	1.2

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11,196.0	62.20	179.20	11,039.1	453.2	-57.9	7.82	7.23	3.40	-48.5	2.7
11,243.0	64.30	180.20	11,060.3	411.2	-57.7	4.86	4.47	2.13	-50.3	3.1
11,290.0	65.80	180.20	11,080.1	368.6	-57.8	3.19	3.19	0.00	-49.3	2.5
11,337.0	70.80	180.50	11,097.5	325.0	-58.1	10.65	10.64	0.64	-46.8	2.0
11,385.0	70.80	180.50	11,113.3	279.6	-58.5	0.00	0.00	0.00	-42.1	1.2
11,432.0	72.80	180.80	11,127.9	235.0	-59.0	4.30	4.26	0.64	-34.1	0.3
11,480.0	75.30	180.80	11,141.1	188.9	-59.6	5.21	5.21	0.00	-23.7	-0.8
11,527.0	80.60	178.80	11,150.9	142.9	-59.5	12.02	11.28	-4.26	-13.9	-1.0
11,574.0	85.90	178.60	11,156.5	96.3	-58.4	11.28	11.28	-0.43	-8.2	-0.3
11,606.0	88.00	179.70	11,158.2	64.3	-57.9	7.41	6.56	3.44	-6.4	0.0
11,672.0	89.20	179.60	11,159.8	-1.7	-57.5	1.82	1.82	-0.15	-4.5	-0.1
11,766.0	89.10	179.70	11,161.2	-95.6	-57.0	0.15	-0.11	0.11	-2.8	-0.2
11,860.0	88.90	179.40	11,162.8	-189.6	-56.2	0.38	-0.21	-0.32	-0.8	-0.2
11,955.0	90.10	179.50	11,163.6	-284.6	-55.3	1.27	1.26	0.11	0.4	0.0
12,049.0	91.50	179.60	11,162.3	-378.6	-54.6	1.49	1.49	0.11	-0.6	0.1
12,143.0	90.70	179.30	11,160.5	-472.6	-53.7	0.91	-0.85	-0.32	-2.0	0.3
12,237.0	92.30	179.80	11,158.1	-566.5	-52.9	1.78	1.70	0.53	-4.1	0.3
12,332.0	91.90	179.40	11,154.6	-661.5	-52.3	0.60	-0.42	-0.42	-7.2	0.3
12,426.0	91.90	179.20	11,151.5	-755.4	-51.1	0.21	0.00	-0.21	-10.0	0.7
12,520.0	91.80	179.00	11,148.4	-849.4	-49.6	0.24	-0.11	-0.21	-12.7	1.5
12,614.0	89.90	180.00	11,147.0	-943.3	-48.8	2.28	-2.02	1.06	-13.7	1.6
12,708.0	89.90	180.00	11,147.2	-1,037.3	-48.8	0.00	0.00	0.00	-13.2	0.9
12,803.0	89.60	179.30	11,147.6	-1,132.3	-48.2	0.80	-0.32	-0.74	-12.5	0.8
12,897.0	88.60	179.30	11,149.1	-1,226.3	-47.1	1.06	-1.06	0.00	-10.6	1.3
12,992.0	90.40	179.60	11,149.9	-1,321.3	-46.2	1.92	1.89	0.32	-9.5	1.5
13,086.0	89.40	179.60	11,150.1	-1,415.3	-45.5	1.06	-1.06	0.00	-8.9	1.4
13,180.0	90.60	179.40	11,150.1	-1,509.3	-44.7	1.29	1.28	-0.21	-8.6	1.6

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13,274.0	90.60	180.10	11,149.1	-1,603.3	-44.3	0.74	0.00	0.74	-9.2	1.3
13,369.0	90.50	180.00	11,148.2	-1,698.3	-44.4	0.15	-0.11	-0.11	-9.8	0.5
13,464.0	89.80	179.60	11,147.9	-1,793.3	-44.0	0.85	-0.74	-0.42	-9.7	0.1
13,558.0	89.40	179.30	11,148.6	-1,887.3	-43.1	0.53	-0.43	-0.32	-8.7	0.3
13,653.0	88.60	179.00	11,150.3	-1,982.2	-41.7	0.90	-0.84	-0.32	-6.7	1.0
13,748.0	89.30	179.80	11,152.0	-2,077.2	-40.7	1.12	0.74	0.84	-4.6	1.3
13,842.0	89.60	179.50	11,152.9	-2,171.2	-40.2	0.45	0.32	-0.32	-3.3	1.2
13,936.0	90.00	179.60	11,153.2	-2,265.2	-39.4	0.44	0.43	0.11	-2.6	1.2
14,029.0	90.60	179.10	11,152.7	-2,358.2	-38.4	0.84	0.65	-0.54	-2.8	1.6
14,124.0	89.70	179.30	11,152.5	-2,453.2	-37.0	0.97	-0.95	0.21	-2.7	2.2
14,218.0	89.60	179.90	11,153.1	-2,547.2	-36.4	0.65	-0.11	0.64	-1.7	2.2
14,313.0	91.80	180.30	11,151.9	-2,642.2	-36.6	2.35	2.32	0.42	-2.6	1.3
14,407.0	92.50	180.20	11,148.4	-2,736.1	-37.0	0.75	0.74	-0.11	-5.7	0.2
14,502.0	90.60	179.40	11,145.8	-2,831.1	-36.6	2.17	-2.00	-0.84	-7.9	-0.2
14,596.0	90.00	179.70	11,145.3	-2,925.1	-35.9	0.71	-0.64	0.32	-8.1	-0.1
14,691.0	88.50	179.90	11,146.6	-3,020.1	-35.6	1.59	-1.58	0.21	-6.5	-0.5
14,785.0	88.00	179.30	11,149.4	-3,114.0	-34.9	0.83	-0.53	-0.64	-3.3	-0.5
14,879.0	88.10	179.30	11,152.6	-3,207.9	-33.8	0.11	0.11	0.00	0.3	-0.1
14,973.0	89.10	179.40	11,154.9	-3,301.9	-32.7	1.07	1.06	0.11	2.9	0.3
15,066.0	90.30	180.00	11,155.4	-3,394.9	-32.2	1.44	1.29	0.65	3.8	0.1
15,160.0	90.10	179.70	11,155.1	-3,488.9	-32.0	0.38	-0.21	-0.32	3.8	-0.4
15,255.0	89.70	179.10	11,155.3	-3,583.9	-31.0	0.76	-0.42	-0.63	4.3	-0.1
15,349.0	90.20	179.80	11,155.3	-3,677.9	-30.1	0.92	0.53	0.74	4.7	0.1
15,443.0	90.10	179.60	11,155.1	-3,771.9	-29.6	0.24	-0.11	-0.21	4.8	-0.1
15,537.0	89.30	179.00	11,155.6	-3,865.9	-28.4	1.06	-0.85	-0.64	5.7	0.4
15,631.0	90.80	178.60	11,155.5	-3,959.9	-26.5	1.65	1.60	-0.43	5.9	1.7
15,725.0	89.70	178.20	11,155.1	-4,053.8	-23.8	1.25	-1.17	-0.43	5.9	3.6

eog resources

Final PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #501H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25' @ 3576.0usft
Site:	Mamba 30 State Com	**MD Reference:**	KB = 25' @ 3576.0usft
Well:	#501H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,819.0	89.50	177.90	11,155.7	-4,147.8	-20.6	0.38	-0.21	-0.32	6.9	6.1
15,914.0	90.40	177.50	11,155.8	-4,242.7	-16.8	1.04	0.95	-0.42	7.3	9.2
15,993.0	90.30	177.50	11,155.3	-4,321.6	-13.4	0.13	-0.13	0.00	7.1	12.1
Final MWD Survey (MD=15993.0')										
16,044.0	90.30	177.50	11,155.1	-4,372.6	-11.1	0.00	0.00	0.00	7.1	13.9
Final Projection to Bit (MD=16044.0') - PBHL (Mamba 30 State #501H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,808.2	10,752.1	701.2	-69.3	HL Crossing, MD:10808.2', TVD:10752.1',N/S:701.2', E/W:-69.3', INC:22.84
15,993.0	11,155.3	-4,321.6	-13.4	Final MWD Survey (MD=15993.0')
16,044.0	11,155.1	-4,372.6	-11.1	Final Projection to Bit (MD=16044.0')

Checked By: _____ Approved By: _____ Date: _____

eog resources

Lea County, NM (NAD 83 NME)

Mamba 30 State Com #501H

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

To convert a Magnetic Direction to a Grid Direction, Add 6.55°
To convert a Magnetic Direction to a True Direction, Add 6.94° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

WELL DETAILS: #501H

3551.0
KB = 25' @ 3576.0usft

Northing	Easting	Latitude	Longitude
434971.00	766784.00	32° 11' 37.365 N	103° 36' 16.310 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	4956.0	8.68	353.16	4934.6	386.3	-17.8	0.00	0.00	-386.1	
2	5056.0	8.68	353.16	5033.4	401.2	-19.6	0.00	0.00	-401.1	
3	5071.8	8.99	352.94	5049.0	403.6	-19.9	2.00	-6.15	-403.5	
4	7091.7	8.99	352.94	7044.1	717.0	-58.7	0.00	0.00	-716.7	
5	7541.4	0.00	0.00	7492.0	752.0	-63.0	2.00	180.00	-751.6	Brushy Top(Mamba 30 State #501H)
6	10641.4	0.00	0.00	10592.0	752.0	-63.0	0.00	0.00	-751.6	
7	11543.6	90.21	179.58	11165.0	176.9	-58.7	10.00	179.58	-176.6	
8	16101.7	90.21	179.58	11148.0	-4381.0	-25.0	0.00	0.00	4381.1	PBHL (Mamba 30 State #501H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Mamba 30 State #501H)	7492.0	752.0	-63.0	435723.00	766721.00
PBHL (Mamba 30 State #501H)	11148.0	-4381.0	-25.0	430590.00	766759.00
FTP (Mamba 30 State #501H)	11165.0	702.0	-63.0	435673.00	766721.00