

HOBBS OCD
APR 10 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Convoy 28 State Com

#606H

OH

Design: OH

Midland PVA

06 February, 2019



Midland PVA

Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well #806H	
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB = 25 @ 3546.0usft	
Site:	Convoy 28 State Com			MD Reference:	KB = 25 @ 3546.0usft	
Well:	#806H			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	Convoy 28 State Com					
Site Position:			Northing:	435,221.00 usft	Latitude:	32° 11' 39.126 N
From:	Map		Easting:	777,172.00 usft	Longitude:	103° 34' 15.406 W
Position Uncertainty:	0.0 usft		Slot Radius:	13-3/16 "	Grid Convergence:	0.41 "
Well	#806H					
Well Position	+N-S	0.0 usft	Northing:	435,280.00 usft	Latitude:	32° 11' 39.824 N
	+E-W	0.0 usft	Easting:	775,540.00 usft	Longitude:	103° 34' 34.392 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,521.0 usft
Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	11/30/2017	6.90	60.03	47,872.59024047	
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	180.65		



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Sbz:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3546.0usft
Well:	#806H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date 2/8/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
186.0	5,049.0	M3P MWD 14'KB + 11' (OH)	MWD	OWSG MWD - Standard
5,121.0	22,427.0	Driltech MWD (OH)	MWD	OWSG MWD - Standard

MD (usft)	Inc (")	Azi (azimuth) (")	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
186.0	1.20	25.40	186.0	1.8	0.8	0.65	0.65	0.00	0.0	0.0
364.0	1.10	14.50	364.0	5.1	2.1	0.13	-0.08	-6.12	0.0	0.0
534.0	0.80	35.10	533.9	7.4	3.0	0.34	-0.29	12.12	0.0	0.0
709.0	0.20	111.00	708.9	8.0	3.8	0.33	-0.23	43.37	0.0	0.0
891.0	0.30	92.70	890.9	7.9	4.6	0.07	0.05	-10.05	0.0	0.0
1,080.0	0.10	230.80	1,079.9	7.8	4.9	0.20	-0.11	73.07	0.0	0.0
1,239.0	0.40	329.80	1,238.9	8.2	4.5	0.27	0.19	62.26	0.0	0.0
1,400.0	0.50	10.50	1,399.9	9.4	4.4	0.20	0.08	25.28	0.0	0.0
1,558.0	1.30	321.00	1,557.9	11.4	3.4	0.66	0.51	-31.33	0.0	0.0
1,653.0	2.20	313.90	1,652.8	13.5	1.4	0.87	0.95	-7.47	0.0	0.0
1,748.0	1.90	309.70	1,747.8	15.8	-1.1	0.35	-0.32	-4.42	0.0	0.0
1,907.0	2.70	315.90	1,906.7	20.2	-5.8	0.53	0.50	3.90	0.0	0.0
2,087.0	2.50	313.90	2,086.5	26.3	-11.9	0.12	-0.11	-1.05	0.0	0.0
2,287.0	2.80	312.30	2,286.3	32.0	-18.0	0.06	0.05	-0.84	0.0	0.0
2,478.0	2.50	311.60	2,477.1	37.7	-24.4	0.05	-0.03	-0.37	0.0	0.0
2,573.0	2.70	309.90	2,572.0	40.5	-27.6	0.23	0.21	-1.79	0.0	0.0
2,668.0	3.10	321.50	2,666.9	44.0	-30.9	0.75	0.42	12.21	0.0	0.0
2,763.0	3.10	346.40	2,761.7	48.5	-33.1	1.52	0.00	28.32	0.0	0.0
2,858.0	2.90	346.20	2,856.6	53.3	-34.1	0.24	-0.21	-2.32	0.0	0.0
2,953.0	3.50	353.80	2,951.5	58.6	-35.0	0.77	0.63	8.00	0.0	0.0



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Well:	#606H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,048.0	4.30	351.70	3,048.2	65.0	-35.9	0.86	0.84	-2.21	0.0	0.0	
3,143.0	4.80	347.50	3,140.9	72.5	-37.2	0.72	0.63	-4.42	0.0	0.0	
3,237.0	5.80	349.50	3,234.5	81.0	-39.0	0.98	0.96	2.13	0.0	0.0	
3,333.0	6.20	352.20	3,330.0	90.9	-40.6	0.51	0.42	2.81	0.0	0.0	
3,428.0	6.00	349.20	3,424.5	100.8	-42.2	0.40	-0.21	-3.16	0.0	0.0	
3,523.0	5.60	348.50	3,519.0	110.3	-44.1	0.43	-0.42	-0.74	0.0	0.0	
3,618.0	6.60	350.70	3,613.4	120.3	-45.9	1.08	1.05	2.32	0.0	0.0	
3,713.0	6.20	348.50	3,707.6	130.7	-47.8	0.49	-0.42	-2.32	0.0	0.0	
3,775.0	6.00	349.40	3,769.5	137.1	-49.0	0.38	-0.32	1.45	0.0	0.0	
3,870.0	6.50	359.10	3,863.9	147.4	-50.0	1.23	0.53	10.21	0.0	0.0	
3,965.0	6.20	359.40	3,958.3	157.9	-50.2	0.32	-0.32	0.32	0.0	0.0	
4,060.0	6.50	350.40	4,052.8	168.3	-51.1	1.09	0.32	-9.47	0.0	0.0	
4,154.0	6.30	351.40	4,148.2	178.7	-52.8	0.24	-0.21	1.06	0.0	0.0	
4,250.0	6.00	353.10	4,241.6	188.9	-54.2	0.37	-0.31	1.77	0.0	0.0	
4,345.0	5.80	355.40	4,336.1	198.4	-55.1	0.49	-0.42	2.42	0.0	0.0	
4,440.0	5.70	355.30	4,430.7	207.7	-55.9	0.11	0.11	-0.11	0.0	0.0	
4,536.0	6.20	349.10	4,528.2	217.6	-57.3	0.85	0.52	-6.46	0.0	0.0	
4,631.0	5.70	355.00	4,620.7	227.3	-58.6	0.83	-0.53	6.21	0.0	0.0	
4,726.0	5.80	355.40	4,715.2	236.8	-59.4	0.11	0.11	0.42	0.0	0.0	
4,821.0	6.10	352.20	4,809.7	246.6	-60.5	0.47	0.32	-3.37	0.0	0.0	
4,916.0	6.50	349.70	4,904.1	256.9	-62.2	0.51	0.42	-2.63	0.0	0.0	
5,010.0	6.10	348.80	4,997.5	267.0	-64.1	0.44	-0.43	-0.96	0.0	0.0	
5,049.0	6.00	349.10	5,036.3	271.0	-64.9	0.27	-0.26	0.77	0.0	0.0	
5,121.0	5.72	348.54	5,107.9	278.3	-66.3	0.40	-0.39	-0.78	0.0	0.0	
5,215.0	5.88	329.38	5,201.4	287.1	-69.7	2.09	0.28	-20.38	0.0	0.0	
5,310.0	7.03	325.34	5,295.8	296.1	-75.5	1.21	1.11	-4.25	0.0	0.0	
5,403.0	7.12	324.54	5,388.1	305.5	-82.1	0.14	0.10	-0.86	0.0	0.0	



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Well:	#806H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,498.0	7.12	324.63	5,482.4	315.1	-88.9	0.01	0.00	0.09	0.0	0.0	0.0
5,593.0	7.74	325.34	5,578.6	325.1	-86.0	0.66	0.65	0.75	0.0	0.0	0.0
5,688.0	7.83	326.74	5,670.7	335.8	-103.2	0.22	0.09	1.47	0.0	0.0	0.0
5,782.0	8.27	326.39	5,763.8	346.8	-110.4	0.47	0.47	-0.37	0.0	0.0	0.0
5,877.0	8.71	327.01	5,857.8	358.5	-118.1	0.47	0.46	0.65	0.0	0.0	0.0
5,971.0	7.21	331.49	5,950.8	369.7	-124.8	1.73	-1.60	4.77	0.0	0.0	0.0
6,066.0	6.51	328.32	6,045.2	379.5	-130.5	0.84	-0.74	-3.34	0.0	0.0	0.0
6,161.0	6.24	327.71	6,139.6	388.4	-136.1	0.29	-0.28	-0.64	0.0	0.0	0.0
6,255.0	6.33	329.64	6,233.0	397.2	-141.4	0.24	0.10	2.05	0.0	0.0	0.0
6,349.0	6.24	327.88	6,326.4	406.0	-146.8	0.23	-0.10	-1.87	0.0	0.0	0.0
6,444.0	6.16	327.71	6,420.9	414.7	-152.2	0.09	-0.08	-0.18	0.0	0.0	0.0
6,538.0	5.63	328.41	6,514.4	422.9	-157.3	0.57	-0.56	0.74	0.0	0.0	0.0
6,633.0	5.63	327.09	6,608.9	430.8	-162.3	0.14	0.00	-1.39	0.0	0.0	0.0
6,728.0	4.75	339.84	6,703.5	438.4	-168.2	1.52	-0.93	13.42	0.0	0.0	0.0
6,823.0	4.82	349.84	6,798.2	446.1	-168.3	0.91	0.18	10.63	0.0	0.0	0.0
6,917.0	3.52	350.74	6,892.0	452.9	-169.4	1.49	-1.49	0.85	0.0	0.0	0.0
7,011.0	2.90	350.38	6,985.8	458.1	-170.3	0.66	-0.66	-0.38	0.0	0.0	0.0
7,106.0	2.81	351.97	7,080.7	462.8	-171.0	0.13	-0.09	1.67	0.0	0.0	0.0
7,200.0	2.64	355.68	7,174.6	467.2	-171.5	0.26	-0.18	3.93	0.0	0.0	0.0
7,295.0	2.84	352.05	7,269.5	471.6	-172.0	0.18	0.00	-3.80	0.0	0.0	0.0
7,389.0	2.73	351.63	7,363.4	476.9	-172.6	0.10	0.10	-0.55	0.0	0.0	0.0
7,484.0	1.67	13.06	7,458.3	479.5	-172.6	1.40	-1.12	22.66	0.0	0.0	0.0
7,579.0	1.14	17.19	7,553.3	481.8	-172.0	0.57	-0.56	4.35	0.0	0.0	0.0
7,674.0	1.32	27.39	7,648.3	483.6	-171.3	0.30	0.19	10.74	0.0	0.0	0.0
7,768.0	0.97	24.57	7,742.2	485.3	-170.4	0.38	-0.37	-3.00	0.0	0.0	0.0
7,863.0	0.97	38.70	7,837.2	486.7	-169.6	0.22	0.00	12.77	0.0	0.0	0.0
7,958.0	0.62	43.56	7,932.2	487.7	-168.8	0.38	-0.37	7.22	0.0	0.0	0.0



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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8,053.0	0.79	87.02	8,027.2	488.3	-167.6	0.35	0.18	24.69	0.0	0.0	
8,147.0	0.44	101.13	8,121.2	488.5	-166.9	0.52	-0.37	36.29	0.0	0.0	
8,242.0	0.82	110.44	8,216.2	488.3	-166.0	0.21	0.19	9.80	0.0	0.0	
8,337.0	0.70	157.82	8,311.2	487.6	-165.3	0.56	0.08	49.87	0.0	0.0	
8,431.0	0.97	160.83	8,405.2	488.3	-164.8	0.29	0.29	2.99	0.0	0.0	
8,526.0	1.14	146.92	8,500.2	484.7	-164.1	0.32	0.18	-14.43	0.0	0.0	
8,621.0	1.23	170.91	8,595.1	482.9	-163.4	0.53	0.09	25.25	0.0	0.0	
8,716.0	1.49	178.26	8,690.1	480.7	-163.2	0.34	0.27	8.79	0.0	0.0	
8,811.0	1.78	179.70	8,785.1	478.0	-163.2	0.28	0.28	0.46	0.0	0.0	
8,905.0	1.85	190.07	8,879.0	475.1	-163.4	0.36	0.10	11.03	0.0	0.0	
9,000.0	1.63	179.61	8,974.0	471.9	-163.7	0.37	0.08	-11.01	0.0	0.0	
9,095.0	1.49	187.79	9,068.9	469.1	-163.9	0.53	-0.46	8.61	0.0	0.0	
9,189.0	1.67	195.78	9,162.9	466.6	-164.4	0.30	0.19	8.50	0.0	0.0	
9,284.0	1.58	205.45	9,257.9	464.1	-165.3	0.30	-0.09	10.16	0.0	0.0	
9,379.0	1.41	221.01	9,352.8	462.0	-166.7	0.48	-0.18	16.38	0.0	0.0	
9,473.0	1.58	183.57	9,446.8	459.8	-167.5	1.04	0.18	-39.83	0.0	0.0	
9,568.0	0.70	229.80	9,541.8	456.2	-168.0	1.27	-0.93	48.66	0.0	0.0	
9,662.0	1.06	3.92	9,635.8	458.7	-168.4	1.73	0.38	142.66	0.0	0.0	
9,752.0	2.81	19.04	9,725.7	461.6	-167.6	2.01	1.84	16.80	0.0	0.0	
9,847.0	1.85	347.57	9,820.7	465.3	-167.2	1.65	-1.01	-33.13	0.0	0.0	
9,941.0	1.67	333.86	9,914.6	468.0	-168.1	0.49	-0.19	-14.59	0.0	0.0	
10,035.0	1.23	297.65	10,008.6	469.7	-169.6	1.06	-0.47	-38.52	0.0	0.0	
10,130.0	1.32	248.26	10,103.6	469.8	-171.5	1.12	0.09	-51.99	0.0	0.0	
10,225.0	1.49	298.35	10,198.5	469.9	-173.7	1.28	0.18	52.73	0.0	0.0	
10,320.0	1.58	297.74	10,293.5	471.1	-175.9	0.10	0.09	-0.64	0.0	0.0	
10,414.0	1.49	278.14	10,387.5	471.9	-176.3	0.56	-0.10	-20.85	0.0	0.0	
10,509.0	1.14	276.23	10,482.4	472.2	-180.4	0.37	-0.37	0.09	0.0	0.0	



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10,603.0	1.41	300.81	10,576.4	472.9	-182.3	0.60	0.29	24.02	0.0	0.0	
10,688.0	1.32	304.77	10,671.4	474.2	-184.2	0.14	-0.09	4.17	0.0	0.0	
10,792.0	1.32	303.54	10,765.4	475.4	-188.0	0.03	0.00	-1.31	0.0	0.0	
10,887.0	1.06	279.81	10,860.3	476.1	-187.8	0.58	-0.27	-24.98	0.0	0.0	
10,982.0	1.49	250.36	10,955.3	475.9	-189.8	0.81	0.45	-31.00	0.0	0.0	
11,076.0	3.43	257.40	11,049.2	474.8	-193.7	2.08	2.08	7.49	0.0	0.0	
11,171.0	1.58	265.13	11,144.1	474.1	-197.8	1.98	-1.95	8.14	0.0	0.0	
11,265.0	1.58	276.75	11,238.1	474.2	-200.4	0.40	0.00	14.49	0.0	0.0	
11,360.0	1.41	283.06	11,333.1	474.7	-202.8	0.21	-0.18	4.54	0.0	0.0	
11,455.0	1.93	287.39	11,428.0	475.7	-205.4	0.70	0.55	15.08	0.0	0.0	
11,529.0	1.76	304.77	11,502.0	476.9	-207.4	0.39	-0.23	9.97	0.0	0.0	
11,589.0	2.46	281.65	11,562.0	477.7	-209.4	1.81	1.17	-38.53	-0.4	0.4	
11,683.0	3.17	236.57	11,655.9	476.7	-213.6	2.40	0.76	-47.96	-3.5	1.2	
11,736.0	2.81	225.32	11,708.8	474.9	-215.7	1.30	-0.68	-21.23	-6.1	1.6	
11,778.0	2.81	210.46	11,750.7	473.3	-217.0	1.73	0.00	-35.38	-8.3	1.0	
11,823.0	6.24	182.97	11,795.6	470.0	-218.1	8.13	7.62	-38.87	-8.8	-1.6	
11,873.0	10.90	200.97	11,845.0	462.8	-220.4	9.60	9.32	16.00	-8.5	-2.4	
11,968.0	22.25	186.73	11,938.0	436.6	-225.7	12.60	11.95	-14.99	-4.9	-10.0	
12,062.0	37.90	175.83	12,017.1	389.8	-225.7	17.57	16.65	-11.60	-3.7	-12.1	
12,157.0	50.65	173.37	12,065.0	323.9	-219.3	13.54	13.42	-2.59	-8.0	-8.0	
12,252.0	61.11	176.18	12,138.2	245.7	-212.3	11.28	11.01	2.96	-14.8	-5.9	
12,346.0	67.09	174.78	12,179.3	161.5	-205.6	6.50	6.36	-1.49	-14.6	-4.3	
12,441.0	73.78	173.72	12,211.0	72.4	-196.6	7.12	7.04	-1.12	-5.6	-1.1	
12,536.0	81.95	175.57	12,231.0	-19.9	-188.0	8.81	8.60	1.95	9.2	1.2	
12,631.0	86.88	177.85	12,240.2	-114.3	-182.6	5.71	5.19	2.40	18.2	2.2	
12,726.0	91.01	178.38	12,242.0	-209.2	-179.5	4.38	4.35	0.56	19.6	3.9	
12,820.0	91.88	179.79	12,239.5	-303.2	-177.9	1.82	1.03	1.50	17.1	4.7	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #806H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3546.0usft
Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3546.0usft
Well:	#806H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,815.0	90.57	180.76	12,237.4	-398.1	-178.4	1.80	-1.48	1.02	14.6	3.6	
13,010.0	90.84	182.25	12,236.3	-493.1	-180.9	1.59	0.28	1.57	13.4	0.4	
13,105.0	90.22	180.32	12,235.4	-588.1	-183.0	2.13	-0.85	-2.03	12.3	-2.5	
13,197.0	89.43	178.65	12,235.7	-680.1	-182.2	2.01	-0.86	-1.82	12.3	-2.3	
13,295.0	91.01	178.12	12,235.3	-778.0	-179.4	1.70	1.81	-0.54	11.7	-0.3	
13,390.0	90.04	178.73	12,234.4	-873.0	-178.8	1.21	-1.02	0.64	10.7	1.6	
13,485.0	88.37	179.00	12,235.7	-967.9	-174.9	1.78	-1.76	0.28	11.8	2.8	
13,580.0	88.99	179.44	12,237.9	-1,062.9	-173.7	0.80	0.65	0.46	13.7	3.4	
13,675.0	89.43	179.09	12,239.2	-1,157.9	-172.4	0.59	0.46	-0.37	14.8	3.9	
13,769.0	90.66	179.61	12,239.2	-1,251.9	-171.4	1.42	1.31	0.55	14.5	4.3	
13,864.0	89.78	180.05	12,238.8	-1,346.9	-171.1	1.04	-0.93	0.46	14.0	3.9	
13,959.0	90.48	180.23	12,238.6	-1,441.9	-171.3	0.76	0.74	0.19	13.5	3.0	
14,053.0	91.01	180.84	12,237.4	-1,535.9	-172.2	0.88	0.56	0.85	12.1	1.4	
14,148.0	89.08	180.67	12,237.3	-1,630.9	-173.5	2.04	-2.03	-0.18	11.8	-0.6	
14,242.0	88.72	179.96	12,239.1	-1,724.8	-174.0	0.85	-0.38	-0.76	13.4	-1.8	
14,337.0	88.81	180.23	12,241.1	-1,819.8	-174.1	0.30	0.09	0.28	15.2	-2.6	
14,432.0	88.64	180.84	12,243.2	-1,914.8	-175.0	0.67	-0.18	0.64	17.1	-4.2	
14,526.0	91.10	181.28	12,243.5	-2,008.8	-176.8	2.66	2.62	0.47	17.1	-6.6	
14,621.0	93.83	178.00	12,239.4	-2,103.7	-177.0	3.74	2.87	-2.40	12.8	-7.8	
14,716.0	90.40	177.94	12,235.9	-2,198.5	-174.4	3.78	-3.61	-1.12	9.1	-5.7	
14,810.0	88.11	177.65	12,237.1	-2,292.5	-171.0	2.44	-2.44	-0.10	10.1	-3.0	
14,905.0	88.29	177.68	12,240.1	-2,387.3	-167.3	0.26	0.19	-0.16	12.8	0.0	
14,999.0	88.99	179.09	12,242.3	-2,481.3	-164.6	1.67	0.74	1.50	14.9	2.0	
15,094.0	88.29	178.56	12,244.6	-2,576.2	-162.7	0.82	-0.74	-0.56	16.9	3.2	
15,189.0	88.55	178.82	12,247.2	-2,671.2	-160.5	0.39	0.27	0.27	19.3	4.7	
15,283.0	90.22	178.65	12,248.2	-2,765.1	-158.5	1.79	1.78	-0.18	20.2	6.1	
15,378.0	89.96	179.09	12,248.0	-2,860.1	-156.6	0.54	-0.27	0.46	20.0	7.3	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #606H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3546.0usft
Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3546.0usft
Well:	#606H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,473.0	90.31	179.52	12,247.8	-2,955.1	-155.4	0.58	0.37	0.45	19.7	7.7
15,568.0	89.87	178.12	12,247.7	-3,050.1	-153.5	1.54	-0.46	-1.47	19.5	9.0
15,663.0	88.84	179.79	12,248.9	-3,145.1	-151.7	2.18	-1.29	1.76	20.7	10.0
15,758.0	88.11	181.02	12,251.6	-3,240.0	-152.4	1.41	-0.56	1.29	23.3	8.6
15,852.0	91.10	180.58	12,252.2	-3,334.0	-153.7	3.22	3.18	-0.47	23.9	6.6
15,947.0	90.84	180.23	12,250.6	-3,429.0	-154.4	0.46	-0.27	-0.37	22.2	5.3
16,042.0	89.87	179.61	12,250.0	-3,524.0	-154.3	1.21	-1.02	-0.85	21.6	4.7
16,137.0	90.66	178.73	12,249.6	-3,619.0	-152.9	1.24	0.83	-0.93	21.1	5.4
16,232.0	90.48	177.85	12,248.7	-3,713.9	-150.0	0.95	-0.19	-0.93	20.1	7.5
16,328.0	90.22	179.61	12,248.1	-3,807.9	-148.0	1.89	-0.28	1.87	19.5	8.9
16,421.0	89.87	179.70	12,248.0	-3,902.9	-147.4	0.38	-0.37	0.09	19.4	8.8
16,515.0	90.57	180.87	12,247.7	-3,996.9	-147.7	1.27	0.74	1.03	18.9	7.6
16,610.0	91.28	181.81	12,248.1	-4,091.8	-149.8	1.41	0.75	1.20	17.4	5.0
16,705.0	91.54	181.02	12,243.8	-4,186.8	-152.1	0.88	0.27	-0.83	15.0	2.0
16,799.0	89.87	180.49	12,242.6	-4,280.8	-153.3	1.86	-1.78	-0.56	13.8	0.1
16,894.0	89.34	180.14	12,243.3	-4,375.8	-153.9	0.67	-0.56	-0.37	14.4	-1.2
16,989.0	89.34	180.32	12,244.4	-4,470.8	-154.2	0.19	0.00	0.19	15.4	-2.2
17,084.0	88.90	180.84	12,245.8	-4,565.7	-155.2	0.72	-0.46	0.55	16.8	-3.9
17,178.0	89.69	180.93	12,247.0	-4,659.7	-156.7	0.65	0.84	0.10	17.9	-6.0
17,273.0	90.13	181.37	12,247.1	-4,754.7	-158.6	0.66	0.46	0.46	18.0	-8.6
17,368.0	90.31	179.88	12,246.8	-4,849.7	-159.6	1.59	0.19	-1.57	17.6	-10.4
17,463.0	90.66	180.84	12,246.0	-4,944.7	-160.2	1.08	0.37	1.01	16.7	-11.7
17,557.0	91.28	178.65	12,244.4	-5,038.7	-159.8	2.42	0.68	-2.33	15.1	-12.0
17,652.0	90.57	179.26	12,242.8	-5,133.6	-158.0	0.99	-0.75	0.64	13.5	-10.9
17,747.0	91.19	180.23	12,241.4	-5,228.6	-157.6	1.21	0.65	1.02	12.0	-11.2
17,841.0	91.63	178.21	12,239.1	-5,322.6	-156.3	2.20	0.47	-2.15	9.6	-10.6
17,936.0	90.40	178.82	12,237.4	-5,417.5	-153.9	1.45	-1.29	0.64	7.9	-8.8



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #808H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3546.0usft
Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3546.0usft
Well:	#806H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
18,031.0	90.48	178.38	12,236.7	-5,512.5	-151.6	0.47	0.08	-0.46	7.1	-7.2	
18,126.0	91.19	179.17	12,235.3	-5,607.5	-149.5	1.12	0.75	0.83	5.7	-5.9	
18,221.0	90.48	180.32	12,233.9	-5,702.5	-149.1	1.42	-0.75	1.21	4.2	-6.2	
18,315.0	91.71	181.11	12,232.1	-5,796.4	-150.3	1.56	1.31	0.84	2.4	-8.0	
18,410.0	90.92	182.07	12,229.9	-5,891.4	-152.9	1.31	-0.83	1.01	0.2	-11.4	
18,505.0	90.92	179.88	12,228.4	-5,986.3	-154.5	2.30	0.00	-2.31	-1.4	-13.7	
18,599.0	90.40	178.21	12,227.3	-6,080.3	-153.0	1.88	-0.55	-1.78	-2.6	-12.8	
18,694.0	90.40	177.77	12,226.6	-6,175.2	-149.6	0.46	0.00	-0.46	-3.3	-10.2	
18,789.0	89.78	179.26	12,226.5	-6,270.2	-147.2	1.70	-0.65	1.57	-3.5	-8.4	
18,884.0	90.57	179.35	12,226.2	-6,365.2	-148.0	0.84	0.83	0.09	-3.8	-8.0	
18,978.0	90.04	179.88	12,225.7	-6,459.2	-145.4	0.80	-0.56	0.56	-4.4	-8.0	
19,073.0	88.55	179.79	12,226.9	-6,554.2	-145.1	1.57	-1.57	-0.09	-3.3	-8.4	
19,167.0	88.81	179.61	12,228.0	-6,648.2	-144.6	0.34	0.28	-0.19	-1.1	-8.6	
19,262.0	89.08	179.88	12,230.8	-6,743.1	-144.2	0.40	0.28	0.28	0.5	-8.9	
19,357.0	88.90	180.49	12,232.5	-6,838.1	-144.5	0.67	-0.19	0.64	2.2	-9.9	
19,451.0	89.96	178.56	12,233.4	-6,932.1	-143.7	2.34	1.13	-2.05	3.1	-9.8	
19,546.0	90.66	179.17	12,232.8	-7,027.1	-141.8	0.98	0.74	0.64	2.5	-8.6	
19,640.0	91.63	180.23	12,231.0	-7,121.1	-141.4	1.53	1.03	1.13	0.6	-8.8	
19,734.0	91.45	180.49	12,228.5	-7,215.0	-141.9	0.34	-0.19	0.28	-2.0	-10.1	
19,829.0	90.84	180.78	12,228.6	-7,310.0	-143.0	0.70	-0.84	0.28	-4.0	-11.9	
19,922.0	89.43	178.82	12,228.4	-7,403.0	-142.6	2.58	-1.82	-2.09	-4.2	-12.2	
20,017.0	89.60	179.35	12,227.2	-7,498.0	-141.1	0.69	0.18	0.56	-3.5	-11.4	
20,112.0	89.16	179.98	12,228.2	-7,593.0	-140.5	0.79	-0.46	0.64	-2.5	-11.5	
20,206.0	88.55	180.14	12,230.1	-7,687.0	-140.6	0.68	-0.65	0.19	-0.7	-12.3	
20,301.0	90.92	178.12	12,230.5	-7,781.9	-139.2	3.28	2.49	-2.13	-0.3	-11.5	
20,395.0	92.07	178.73	12,228.1	-7,875.9	-136.6	1.38	1.22	0.65	-2.8	-8.7	
20,490.0	90.40	178.38	12,226.0	-7,970.8	-134.2	1.80	-1.76	-0.37	-4.9	-8.0	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #806H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3546.0usft
Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3546.0usft
Well:	#806H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
20,585.0	90.57	179.17	12,225.2	-8,065.8	-132.2	0.85	0.18	0.83	-5.8	-8.6	
20,679.0	89.60	179.26	12,223.1	-8,159.8	-130.8	1.04	-1.03	0.10	-6.0	-8.0	
20,774.0	89.08	180.67	12,226.2	-8,254.8	-130.8	1.58	-0.55	1.48	-4.9	-8.7	
20,869.0	88.81	181.19	12,227.9	-8,348.7	-132.4	0.62	-0.28	0.55	-3.2	-8.9	
20,963.0	90.84	180.76	12,228.2	-8,443.7	-134.0	2.21	2.16	-0.46	-3.0	-11.2	
21,058.0	91.80	179.35	12,228.0	-8,538.7	-134.1	1.80	1.01	-1.48	-5.2	-12.0	
21,153.0	90.66	178.65	12,224.0	-8,633.7	-132.4	1.41	-1.20	-0.74	-7.3	-11.0	
21,248.0	90.31	178.29	12,223.2	-8,728.6	-129.9	0.53	-0.37	-0.38	-8.2	-9.2	
21,343.0	92.51	179.00	12,220.8	-8,823.6	-127.6	2.43	2.32	0.75	-10.6	-7.8	
21,438.0	88.90	176.62	12,219.7	-8,918.5	-124.0	4.55	-3.80	-2.51	-11.8	-4.7	
21,532.0	90.13	177.42	12,220.5	-9,012.3	-119.1	1.56	1.31	0.85	-11.0	-0.5	
21,627.0	90.04	177.85	12,220.3	-9,107.2	-115.2	0.46	-0.09	0.45	-11.2	2.7	
21,722.0	87.67	177.59	12,222.2	-9,202.1	-111.4	2.51	-2.49	-0.27	-9.4	5.8	
21,816.0	86.60	178.82	12,226.9	-9,296.0	-108.5	1.73	-1.14	1.31	-4.7	8.0	
21,911.0	89.52	180.32	12,230.1	-9,390.9	-107.8	3.46	3.07	1.58	-1.8	8.0	
22,006.0	91.45	181.28	12,229.3	-9,485.9	-109.1	2.27	2.03	1.01	-2.4	6.0	
22,101.0	94.00	182.07	12,224.8	-9,580.7	-111.8	2.81	2.68	0.83	-7.0	2.6	
22,196.0	91.01	180.49	12,220.7	-9,675.6	-114.0	3.56	-3.15	-1.66	-11.2	-0.3	
22,291.0	90.66	182.25	12,219.3	-9,770.6	-116.2	1.89	-0.37	1.85	-12.7	-3.2	
22,427.0	90.66	182.25	12,217.7	-9,866.4	-121.6	0.00	0.00	0.00	-14.3	-9.6	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #606H
Project:	Les County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3546.0usft
Site:	Convey 28 State Com	MD Reference:	KB = 25 @ 3546.0usft
Well:	#606H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/E (usft)	+E/W (usft)	
11,785.0	11,757.7	473.0	-217.2	KOP, MD:11785.0', TVD:11757.7', N/S:473.0', E/W:-217.2', INC:3.31
11,866.9	11,834.9	437.0	-225.7	FTP Crossing, MD:11866.9', TVD:11834.9', N/S:437.0', E/W:-225.7', INC:22.11
22,291.0	12,219.3	-9,770.6	-116.2	Last MWD Survey (MD=22291.0')
22,427.0	12,217.7	-9,806.4	-121.6	Projection to Bit (MD=22427.0')

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Convoy 28 State Com #606H

Plan #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: #606H

KB = 25 @ 3548.0usft 3521.0
Northing 435280.00 Easting 776540.50 32° 11' 39.824 N 103° 34' 34.382 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	11628.0	1.76	304.77	11692.0	478.9	-207.4	0.00	-474.8	-474.8	
2	11762.3	1.76	304.77	11735.2	461.0	-213.3	0.00	-478.8	-478.8	
3	12520.3	89.85	175.90	12221.7	6.2	-190.8	12.00	-128.88	-3.1	
4	12704.2	89.87	179.88	12222.2	-178.8	-183.8	2.00	89.71	180.6	
6	16281.0	89.87	179.88	12228.0	-3728.3	-184.8	0.00	2727.0		TGT#1(Con 28 ST Com #606H)
6	16286.0	89.87	179.88	12228.0	-3730.3	-184.8	2.00	2732.0		
7	22433.9	89.87	179.88	12232.0	-8908.0	-112.0	0.00	8908.8		PBHL(Con 28 ST Com #606H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Con 28 ST Com #606H)	7411.0	437.0	-189.0	435767.00	776391.00
FTF(Con 28 ST Com #606H)	12221.0	437.0	-189.0	435717.00	776391.00
TGT#1(Con 28 ST Com #606H)	12228.0	-3728.3	-184.8	432854.70	776376.16
PBHL(Con 28 ST Com #606H)	12232.0	-8908.0	-112.0	432872.00	776428.00

