



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#601H

OH

Design: OH

Midland PVA

02 June, 2019

HOBBS OCD
OCT 17 2019
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Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Bandit 29 State Com
Well: #601H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 25 @ 3555.0usft
MD Reference: KB = 25 @ 3555.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	Bandit 29 State Com		
Site Position:		Northing:	435,375.00 usft
From:	Map	Easting:	771,884.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 41.017 N
		Longitude:	103° 35' 16.930 W
		Grid Convergence:	0.40 °

Well	#601H		
Well Position	+N-S	0.0 usft	Northing: 435,359.00 usft
	+E-W	0.0 usft	Easting: 772,237.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 11' 40.834 N
		Longitude:	103° 35' 12.823 W
		Ground Level:	3,530.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	3/12/2019	6.77
		Dip Angle (°)	60.01
		Field Strength (nT)	47,740.06469424

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
		Direction (°)	182.04

Survey Program	Date 6/2/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
140.0	19,713.0	Intrepid Survey (OH)	MWD
			Description
			OWSG MWD - Standard



Midland PVA

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Well: #801H
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TVD Reference: KB = 25 @ 3555.0usft
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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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
140.0	1.14	104.46	140.0	-0.3	1.3	0.81	0.81	0.00	-1.4	0.0	
226.0	2.64	263.36	226.0	-0.8	0.2	4.33	1.74	184.77	0.1	0.8	
312.0	4.00	260.11	311.8	-1.5	-4.7	1.60	1.58	-3.78	-4.9	0.7	
400.0	5.54	255.54	399.5	-3.1	-11.9	1.80	1.75	-5.19	-12.3	0.1	
488.0	5.45	259.06	487.1	-5.0	-20.1	0.40	-0.10	4.00	-20.6	1.1	
576.0	3.96	268.55	574.8	-5.8	-27.2	1.90	-1.69	10.78	-27.3	5.2	
671.0	2.02	293.42	669.7	-5.3	-32.0	2.41	-2.04	26.18	-27.3	17.6	
763.0	3.47	41.61	761.6	-2.5	-31.7	4.92	1.58	117.60	22.9	22.0	
855.0	4.97	54.27	853.4	1.9	-26.6	1.91	1.63	13.76	20.5	17.1	
947.0	5.67	47.24	945.0	7.3	-20.0	1.04	0.76	-7.64	9.7	19.0	
1,039.0	6.15	34.41	1,036.5	14.4	-13.9	1.52	0.52	-13.95	-4.0	19.6	
1,132.0	7.52	9.62	1,128.8	24.5	-10.1	3.46	1.47	-26.66	-22.5	14.1	
1,224.0	8.40	336.22	1,220.0	36.6	-11.8	5.04	0.96	-36.30	-38.3	-4.1	
1,264.0	8.26	324.97	1,259.6	41.7	-14.6	4.08	-0.35	-28.12	-42.4	-12.1	
1,399.0	8.88	319.96	1,393.1	57.6	-26.9	0.72	0.46	-3.71	-57.7	-16.5	
1,491.0	8.57	318.38	1,484.0	68.1	-36.0	0.43	-0.34	-1.72	-65.0	-17.9	
1,586.0	5.19	320.67	1,578.3	76.8	-43.4	3.57	-3.56	2.41	-67.8	-15.0	
1,680.0	5.49	319.88	1,671.9	83.5	-49.0	0.33	0.32	-0.84	-66.5	-15.8	
1,775.0	5.58	322.78	1,766.5	90.6	-54.7	0.31	0.09	3.05	-66.4	-12.5	
1,870.0	5.41	322.78	1,861.0	97.9	-60.2	0.18	-0.18	0.00	-65.6	-12.8	
1,965.0	5.85	323.83	1,955.6	105.4	-65.8	0.48	0.46	1.11	-65.2	-12.0	
2,060.0	5.76	326.20	2,050.1	113.2	-71.3	0.27	-0.09	2.49	-65.3	-10.0	
2,155.0	5.76	327.61	2,144.6	121.2	-76.5	0.15	0.00	1.48	-65.2	-9.5	
2,250.0	5.71	323.30	2,239.1	129.0	-81.9	0.46	-0.05	-4.54	-63.9	-15.1	
2,345.0	5.45	305.46	2,333.7	135.4	-88.4	1.84	-0.27	-18.78	-55.7	-32.6	
2,440.0	5.54	306.78	2,428.2	140.8	-95.7	0.16	0.09	1.39	-55.9	-28.8	



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 North Reference: Grid
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Survey											
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2,535.0	5.36	307.57	2,522.8	146.3	-102.9	0.21	-0.19	0.83	-55.6	-25.6	
2,631.0	5.58	306.34	2,618.4	151.8	-110.2	0.26	0.23	-1.28	-54.5	-24.4	
2,726.0	5.45	306.60	2,712.9	157.2	-117.6	0.14	-0.14	0.27	-54.1	-21.6	
2,821.0	5.36	307.40	2,807.5	162.6	-124.7	0.12	-0.09	0.84	-53.7	-18.5	
2,916.0	5.19	309.07	2,902.1	168.0	-131.6	0.24	-0.18	1.76	-53.2	-14.8	
3,011.0	5.27	308.98	2,996.7	173.4	-138.3	0.08	0.08	-0.09	-52.1	-12.8	
3,107.0	5.14	311.17	3,092.3	179.0	-145.0	0.25	-0.14	2.28	-51.4	-8.9	
3,202.0	5.05	313.37	3,186.9	184.7	-151.2	0.23	-0.09	2.32	-50.3	-5.5	
3,297.0	4.92	316.01	3,281.6	190.5	-157.1	0.28	-0.14	2.78	-48.8	-2.1	
3,392.0	4.22	320.93	3,376.3	196.1	-162.1	0.84	-0.74	5.18	-46.4	2.4	
3,487.0	5.01	321.63	3,471.0	202.1	-166.9	0.83	0.83	0.74	-44.1	2.9	
3,582.0	5.98	318.47	3,565.5	209.1	-172.7	1.07	1.02	-3.33	-43.3	0.7	
3,677.0	5.05	312.41	3,660.1	215.6	-179.1	1.15	-0.98	-6.38	-42.4	-2.9	
3,772.0	4.62	306.78	3,754.8	220.7	-185.3	0.67	-0.45	-5.93	-40.3	-5.0	
3,868.0	5.85	310.65	3,850.4	226.2	-192.1	1.33	1.28	4.03	-39.4	-0.2	
3,963.0	6.37	313.28	3,944.8	233.0	-199.6	0.62	0.55	2.77	-39.6	3.1	
4,058.0	5.98	313.37	4,039.3	240.0	-207.0	0.41	-0.41	0.09	-40.0	4.5	
4,153.0	5.58	307.13	4,133.8	246.2	-214.3	0.78	-0.42	-6.57	-40.2	2.0	
4,248.0	5.93	318.82	4,228.3	252.7	-221.2	1.29	0.37	12.31	-38.4	11.4	
4,343.0	4.70	329.10	4,322.9	259.7	-226.4	1.63	-1.29	10.82	-34.7	17.5	
4,439.0	2.77	345.63	4,418.7	265.3	-229.0	2.28	-2.01	17.22	-25.2	23.6	
4,534.0	3.65	325.94	4,513.6	270.0	-231.3	1.47	0.93	-20.73	-27.0	12.1	
4,629.0	2.90	342.99	4,608.4	274.8	-233.7	1.29	-0.79	17.95	-18.3	16.6	
4,724.0	3.25	355.30	4,703.3	279.8	-234.6	0.78	0.37	12.96	-11.2	15.0	
4,820.0	4.62	354.59	4,799.0	286.4	-235.2	1.43	1.43	-0.74	-9.6	9.3	
4,915.0	6.37	342.90	4,893.6	295.2	-237.1	2.18	1.84	-12.31	-11.1	2.7	
5,010.0	5.71	340.71	4,988.1	304.7	-240.2	0.74	-0.69	-2.31	-11.8	-1.3	



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5,105.0	5.18	338.42	5,082.6	313.2	-243.4	0.59	-0.55	-2.41	-11.3	-4.9	
5,200.0	6.15	336.84	5,177.2	321.9	-247.0	1.02	1.01	-1.66	-11.0	-8.1	
5,295.0	8.00	332.80	5,271.4	332.4	-252.0	2.02	1.95	-4.25	-12.3	-11.2	
5,391.0	8.09	332.18	5,366.5	344.3	-258.2	0.13	0.09	-0.65	-15.8	-13.4	
5,486.0	7.91	331.57	5,460.6	356.0	-264.4	0.21	-0.19	-0.64	-19.2	-15.4	
5,581.0	7.82	329.37	5,554.7	367.3	-270.8	0.33	-0.09	-2.32	-21.7	-17.9	
5,676.0	6.95	322.86	5,648.9	377.5	-277.6	1.27	-0.92	-6.85	-21.8	-21.2	
5,771.0	5.23	314.25	5,743.4	385.1	-284.2	2.05	-1.81	-9.06	-18.6	-24.0	
5,866.0	3.56	309.94	5,838.1	390.0	-289.5	1.79	-1.76	-4.54	-14.2	-23.7	
5,961.0	3.08	280.59	5,932.9	392.3	-294.3	1.84	-0.51	-30.89	1.7	-22.6	
6,056.0	2.55	281.69	6,027.8	392.5	-298.9	1.12	-0.56	-19.89	9.5	-13.2	
6,152.0	2.11	251.23	6,123.7	391.6	-302.7	0.64	-0.46	-10.90	10.7	-3.8	
6,247.0	2.24	235.76	6,218.7	390.0	-305.9	0.63	0.14	-16.28	8.2	3.8	
6,342.0	2.24	237.52	6,313.6	388.0	-309.0	0.07	0.00	1.85	4.8	5.5	
6,436.0	2.15	233.39	6,407.5	385.9	-311.9	0.19	-0.10	-4.39	0.8	5.7	
6,531.0	0.26	242.00	6,502.5	384.8	-313.6	1.99	-1.99	9.06	-0.3	5.8	
6,626.0	0.44	269.95	6,597.5	384.7	-314.1	0.26	0.19	29.42	1.9	5.3	
6,721.0	0.62	249.48	6,692.5	384.5	-315.0	0.27	0.19	-21.55	-1.0	5.5	
6,816.0	0.57	271.01	6,787.5	384.3	-315.9	0.24	-0.05	22.66	0.2	5.7	
6,911.0	0.53	259.32	6,882.5	384.2	-316.8	0.13	-0.04	-12.31	-1.9	5.5	
7,006.0	0.70	258.09	6,977.5	384.0	-317.8	0.18	0.18	-1.29	-3.0	5.5	
7,101.0	0.70	231.63	7,072.5	383.6	-318.8	0.34	0.00	-27.85	-6.2	3.3	
7,197.0	0.84	242.53	7,168.5	382.9	-319.9	0.21	0.15	11.35	-6.8	4.5	
7,292.0	0.79	189.89	7,263.5	381.9	-320.7	0.76	-0.05	-55.41	-8.8	-3.2	
7,386.0	0.88	175.03	7,357.4	380.5	-320.7	0.25	0.10	-15.81	-9.0	-5.5	
7,481.0	0.92	167.47	7,452.4	379.1	-320.5	0.13	0.04	-7.96	-9.7	-6.7	
7,576.0	1.19	180.22	7,547.4	377.3	-320.3	0.37	0.28	13.42	-12.7	-4.3	



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7,671.0	1.54	185.14	7,642.4	375.1	-320.4	0.39	0.37	5.18	-15.3	-3.1
7,766.0	1.58	197.88	7,737.4	372.6	-320.9	0.37	0.04	13.41	-18.1	0.6
7,861.0	1.49	193.58	7,832.3	370.1	-321.6	0.15	-0.09	-4.53	-20.6	-0.8
7,956.0	1.63	204.04	7,927.3	367.7	-322.5	0.33	0.15	11.01	-23.0	3.2
8,050.0	1.76	200.61	8,021.2	365.1	-323.5	0.18	0.14	-3.65	-25.9	1.7
8,145.0	1.98	205.97	8,116.2	362.3	-324.8	0.30	0.23	5.64	-28.8	4.3
8,240.0	1.05	210.19	8,211.2	360.0	-325.9	0.99	-0.98	4.44	-30.9	6.5
8,336.0	0.31	242.80	8,307.2	359.2	-326.6	0.84	-0.77	33.97	-23.5	22.6
8,431.0	0.57	215.81	8,402.1	358.7	-327.1	0.34	0.27	-28.41	-31.9	9.3
8,526.0	0.75	205.97	8,497.1	357.7	-327.6	0.22	0.19	-10.36	-34.1	3.7
8,621.0	0.70	101.82	8,592.1	357.0	-327.4	1.20	-0.05	-109.63	4.4	-34.6
8,716.0	0.70	111.66	8,687.1	356.7	-326.2	0.13	0.00	10.36	-2.8	-34.7
8,811.0	0.57	135.75	8,782.1	356.2	-325.4	0.31	-0.14	25.36	-17.7	-30.3
8,906.0	0.53	186.99	8,877.1	355.4	-325.1	0.50	-0.04	53.94	-35.5	-4.8
9,001.0	0.84	197.53	8,972.1	354.3	-325.4	0.35	0.33	11.09	-36.9	1.8
9,097.0	0.75	225.83	9,068.1	353.2	-326.0	0.41	-0.09	29.48	-32.8	19.4
9,192.0	0.92	219.15	9,163.1	352.2	-327.0	0.21	0.18	-7.03	-36.3	15.4
9,287.0	0.70	301.16	9,258.1	351.9	-327.9	1.13	-0.23	86.33	9.5	38.8
9,382.0	1.67	286.04	9,353.1	352.5	-329.8	1.06	1.02	-15.92	-2.9	39.8
9,477.0	1.76	277.86	9,448.0	353.1	-332.5	0.27	0.09	-8.61	-11.3	38.8
9,572.0	1.93	266.17	9,543.0	353.2	-335.6	0.43	0.18	-12.31	-22.0	35.4
9,667.0	1.89	312.67	9,637.9	354.2	-338.3	1.59	-0.04	48.95	7.9	41.5
9,761.0	2.02	331.48	9,731.9	356.7	-340.3	0.69	0.14	20.01	17.7	37.2
9,856.0	1.10	277.42	9,826.8	358.3	-342.0	1.72	-0.97	-56.91	-21.6	34.8
9,951.0	2.11	214.50	9,921.8	356.9	-343.9	1.98	1.06	-66.23	-43.0	-4.2
10,046.0	2.77	229.96	10,016.7	354.0	-346.6	0.98	0.69	16.27	-46.6	7.9
10,141.0	0.75	282.26	10,111.7	352.7	-349.0	2.51	-2.13	55.05	-24.3	43.5



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10,235.0	0.92	15.60	10,205.7	353.5	-349.4	1.30	0.18	99.30	44.1	22.3	
10,330.0	0.66	12.52	10,300.7	354.8	-349.0	0.28	-0.27	-3.24	41.5	24.6	
10,425.0	0.79	351.96	10,395.7	356.0	-349.0	0.30	0.14	-21.64	29.1	37.4	
10,520.0	0.88	354.50	10,490.6	357.4	-349.2	0.10	0.09	2.67	29.3	36.1	
10,615.0	0.97	358.46	10,585.6	358.9	-349.3	0.12	0.09	4.17	30.2	34.1	
10,710.0	0.40	144.45	10,680.6	359.4	-349.1	1.39	-0.60	153.67	-5.6	-44.7	
10,805.0	1.23	157.45	10,775.6	358.2	-348.5	0.89	0.87	13.68	-16.9	-42.2	
10,900.0	1.54	157.01	10,870.6	356.1	-347.6	0.33	0.33	-0.46	-18.9	-42.4	
10,995.0	0.92	168.70	10,965.6	354.2	-347.0	0.70	-0.65	12.31	-29.1	-37.4	
11,090.0	0.75	230.75	11,080.6	353.0	-347.3	0.92	-0.18	65.32	-47.6	8.8	
11,185.0	1.19	271.10	11,155.5	352.7	-348.8	0.83	0.46	42.47	-32.0	38.0	
11,280.0	1.01	294.30	11,250.5	353.0	-350.5	0.50	-0.19	24.42	-16.2	47.9	
11,375.0	1.01	275.23	11,345.5	353.4	-352.1	0.35	0.00	-20.07	-32.6	39.7	
11,470.0	0.92	263.80	11,440.5	353.4	-353.7	0.22	-0.09	-12.03	-41.4	32.3	
11,565.0	0.75	205.44	11,535.5	352.8	-354.7	0.87	-0.18	-61.43	-50.2	-19.0	
11,590.0	0.70	200.43	11,560.5	352.5	-354.9	0.32	-0.20	-20.04	-48.7	-23.3	
11,705.0	0.97	149.46	11,675.5	351.0	-354.6	0.66	0.23	-44.32	-14.0	-53.1	
11,799.0	10.20	154.99	11,768.9	342.8	-350.7	9.82	9.82	5.88	-27.2	-50.9	
11,894.0	22.02	163.87	11,860.1	317.9	-342.1	12.67	12.44	9.35	-45.2	-39.7	
11,989.0	35.21	162.20	11,943.3	274.6	-328.8	13.91	13.88	-1.76	-55.7	-28.9	
12,083.0	47.12	158.42	12,013.9	216.5	-307.7	12.94	12.67	-4.02	-66.4	-11.4	
12,178.0	58.11	165.54	12,071.6	144.8	-284.8	13.00	11.57	7.49	-74.7	18.9	
12,273.0	62.55	176.88	12,118.7	63.4	-272.4	11.37	4.67	11.94	-68.8	40.2	
12,368.0	68.84	182.24	12,157.8	-23.1	-271.8	8.38	6.62	5.64	-52.0	42.5	
12,462.0	81.10	186.11	12,182.1	-113.4	-278.5	13.63	13.04	4.12	-32.7	34.4	
12,557.0	84.04	185.84	12,194.4	-207.1	-288.3	3.11	3.09	-0.28	-19.4	23.7	
12,652.0	88.44	182.85	12,200.6	-301.6	-295.5	5.60	4.63	-3.15	-12.0	15.7	



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Bandit 29 State Com
Well: #601H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 25 @ 3555.0usft
MD Reference: KB = 25 @ 3555.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
12,746.0	88.09	183.29	12,203.5	-395.4	-300.5	0.60	-0.37	0.47	-7.8	10.0	
12,842.0	84.75	182.59	12,209.5	-491.1	-305.4	3.55	-3.48	-0.73	-0.5	4.5	
12,936.0	87.65	180.48	12,215.7	-584.8	-307.9	3.81	3.09	-2.24	6.6	1.3	
13,031.0	88.31	180.04	12,219.1	-679.7	-308.4	0.83	0.69	-0.46	10.9	0.2	
13,126.0	89.32	180.13	12,221.0	-774.7	-308.5	1.07	1.06	0.09	13.8	-0.6	
13,245.0	89.01	180.92	12,222.8	-893.7	-309.6	0.71	-0.26	0.66	16.6	-2.5	
13,340.0	90.64	178.99	12,223.0	-988.7	-309.5	2.66	1.72	-2.03	17.8	-3.1	
13,435.0	91.30	179.43	12,221.4	-1,083.7	-308.2	0.83	0.69	0.46	17.1	-2.5	
13,530.0	90.15	179.43	12,220.2	-1,178.7	-307.3	1.21	-1.21	0.00	16.8	-2.2	
13,625.0	89.93	179.16	12,220.2	-1,273.7	-306.1	0.37	-0.23	-0.28	17.7	-1.7	
13,719.0	90.55	179.87	12,219.8	-1,367.6	-305.3	1.00	0.66	0.78	18.2	-1.5	
13,814.0	89.83	179.34	12,219.6	-1,462.6	-304.6	1.12	-0.97	-0.56	18.9	-1.5	
13,909.0	90.95	178.72	12,219.1	-1,557.6	-303.0	1.54	1.39	-0.65	19.3	-0.6	
14,004.0	92.13	178.90	12,216.6	-1,652.6	-301.1	1.26	1.24	0.19	16.7	0.7	
14,099.0	90.81	178.90	12,214.2	-1,747.5	-299.2	1.39	-1.39	0.00	14.3	1.9	
14,194.0	89.41	178.28	12,214.0	-1,842.5	-298.9	1.61	-1.47	-0.65	14.1	3.6	
14,289.0	87.38	176.97	12,216.6	-1,937.4	-293.0	2.54	-2.14	-1.38	16.7	6.8	
14,384.0	88.79	176.44	12,219.8	-2,032.2	-287.5	1.59	1.48	-0.56	19.9	11.6	
14,479.0	90.64	176.26	12,220.3	-2,127.0	-281.5	1.96	1.95	-0.19	20.4	17.0	
14,574.0	92.35	177.93	12,217.8	-2,221.8	-276.6	2.52	1.80	1.76	17.9	21.2	
14,668.0	91.43	179.25	12,214.7	-2,315.7	-274.3	1.71	-0.98	1.40	14.8	22.8	
14,763.0	89.93	178.81	12,213.6	-2,410.7	-272.7	1.65	-1.58	-0.46	13.6	23.8	
14,858.0	92.26	180.31	12,211.8	-2,505.7	-272.0	2.92	2.45	1.58	11.8	23.9	
14,953.0	91.21	181.27	12,208.9	-2,600.6	-273.3	1.50	-1.11	1.01	8.9	21.9	
15,048.0	90.95	181.71	12,207.1	-2,695.6	-275.8	0.54	-0.27	0.46	7.1	18.8	
15,143.0	91.21	182.06	12,205.3	-2,790.5	-278.9	0.46	0.27	0.37	5.3	15.0	
15,238.0	90.68	182.15	12,203.7	-2,885.4	-282.4	0.57	-0.56	0.09	3.8	10.8	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 29 State Com
 Well: #801H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #801H
 TVD Reference: KB = 25 @ 3555.0usft
 MD Reference: KB = 25 @ 3555.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
15,333.0	89.41	182.06	12,203.7	-2,980.3	-285.9	1.34	-1.34	-0.09	3.7	6.7
15,428.0	88.48	181.54	12,205.4	-3,075.3	-288.9	1.12	-0.98	-0.55	5.4	3.0
15,523.0	88.00	180.92	12,208.3	-3,170.2	-290.9	0.83	-0.51	-0.65	8.3	0.3
15,618.0	89.10	180.75	12,210.7	-3,265.2	-292.3	1.17	1.16	-0.18	10.7	-1.7
15,712.0	91.60	181.27	12,210.2	-3,359.1	-293.9	2.72	2.66	0.55	9.7	-4.0
15,807.0	90.86	182.77	12,208.1	-3,454.1	-297.3	1.76	-0.78	1.58	7.1	-8.0
15,902.0	89.98	179.87	12,207.4	-3,549.0	-299.5	3.19	-0.93	-3.05	5.7	-10.9
15,996.0	89.54	178.55	12,207.8	-3,643.0	-298.2	1.48	-0.47	-1.40	5.5	-10.2
16,091.0	89.93	178.02	12,208.3	-3,738.0	-295.3	0.69	0.41	-0.56	5.3	-8.1
16,186.0	87.47	176.09	12,210.4	-3,832.8	-290.5	3.29	-2.59	-2.03	6.9	-3.8
16,282.0	87.87	176.09	12,214.3	-3,928.5	-283.9	0.42	0.42	0.00	10.1	2.0
16,377.0	89.10	176.26	12,216.8	-4,023.3	-277.6	1.31	1.29	0.18	12.0	7.7
16,471.0	88.84	176.35	12,218.5	-4,117.0	-271.5	0.29	-0.28	0.10	13.1	13.1
16,566.0	89.63	177.32	12,219.8	-4,211.9	-266.3	1.32	0.83	1.02	13.7	17.7
16,661.0	91.30	178.20	12,219.0	-4,306.8	-262.6	1.99	1.76	0.93	12.3	20.7
16,756.0	91.38	178.37	12,216.8	-4,401.7	-259.7	0.20	0.08	0.18	9.5	22.9
16,851.0	91.60	179.95	12,214.3	-4,496.7	-258.3	1.68	0.23	1.66	6.4	23.7
16,945.0	89.32	181.27	12,213.6	-4,590.7	-259.3	2.80	-2.43	1.40	5.0	22.0
17,040.0	88.57	181.80	12,215.3	-4,685.6	-261.9	0.97	-0.79	0.56	6.2	18.8
17,135.0	87.30	182.06	12,218.7	-4,780.5	-265.1	1.36	-1.34	0.27	9.0	14.9
17,230.0	88.26	182.24	12,222.4	-4,875.4	-268.6	1.03	1.01	0.19	11.8	10.7
17,325.0	88.92	182.06	12,224.8	-4,970.3	-272.2	0.72	0.69	-0.19	13.0	6.5
17,420.0	89.54	181.54	12,226.0	-5,065.2	-275.2	0.85	0.65	-0.55	13.2	2.8
17,515.0	89.63	181.45	12,226.7	-5,160.2	-277.7	0.13	0.09	-0.09	12.8	-0.3
17,610.0	93.89	182.33	12,223.8	-5,255.1	-280.8	4.58	4.48	0.93	8.7	-4.1
17,705.0	91.43	180.75	12,219.4	-5,349.9	-283.3	3.08	-2.59	-1.66	3.2	-7.3
17,800.0	89.85	178.46	12,218.3	-5,444.9	-282.7	2.93	-1.66	-2.41	1.1	-7.3



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Bandit 29 State Com
Well: #601H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 25 @ 3555.0usft
MD Reference: KB = 25 @ 3555.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
17,895.0	90.11	178.81	12,218.4	-5,539.9	-280.4	0.46	0.27	0.37	0.0	-5.7
17,990.0	85.58	179.85	12,221.9	-5,634.8	-279.3	4.89	-4.77	1.09	2.5	-5.2
18,084.0	85.89	181.27	12,228.9	-5,728.5	-280.2	1.54	0.33	1.51	8.5	-6.8
18,179.0	88.35	180.83	12,233.7	-5,823.4	-282.0	2.63	2.59	-0.46	12.3	-9.2
18,274.0	89.58	180.75	12,235.4	-5,918.3	-283.3	1.30	1.29	-0.08	13.0	-11.2
18,369.0	90.20	180.92	12,235.6	-6,013.3	-284.7	0.68	0.65	0.18	12.3	-13.2
18,464.0	89.19	180.39	12,236.1	-6,108.3	-285.7	1.20	-1.06	-0.56	11.8	-15.0
18,559.0	90.02	180.39	12,236.8	-6,203.3	-286.4	0.87	0.87	0.00	11.5	-16.3
18,654.0	91.21	180.48	12,235.7	-6,298.3	-287.1	1.26	1.25	0.09	9.5	-17.7
18,749.0	90.24	179.51	12,234.5	-6,393.3	-287.1	1.44	-1.02	-1.02	7.4	-18.3
18,844.0	90.42	179.34	12,234.0	-6,488.3	-286.1	0.26	0.19	-0.18	5.9	-18.0
18,939.0	90.59	179.16	12,233.2	-6,583.3	-284.9	0.26	0.18	-0.19	4.1	-17.4
19,034.0	89.63	179.60	12,233.0	-6,678.3	-283.9	1.11	-1.01	0.46	2.9	-17.1
19,129.0	90.20	179.78	12,233.1	-6,773.3	-283.4	0.63	0.60	0.19	2.1	-17.2
19,224.0	90.42	179.43	12,232.6	-6,868.3	-282.7	0.44	0.23	-0.37	0.6	-17.2
19,319.0	89.54	177.67	12,232.6	-6,963.2	-280.3	2.07	-0.93	-1.85	-0.3	-15.5
19,414.0	90.86	178.02	12,232.3	-7,058.2	-276.7	1.44	1.39	0.37	-1.6	-12.6
19,513.0	92.62	177.23	12,229.3	-7,157.0	-272.6	1.95	1.78	-0.80	-5.6	-9.2
19,713.0	92.62	177.23	12,220.2	-7,356.6	-263.0	0.00	0.00	0.00	-16.7	-0.9



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Bandit 29 State Com
Well: #601H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 25 @ 3555.0usft
MD Reference: KB = 25 @ 3555.0usft
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)	
11,735.0	11,705.5	348.9	-354.0	KOP, MD:11735.0', TVD:11705.5', N/S:348.9', E/W:-354.0', INC:3.91
11,814.7	11,784.3	340.0	-349.5	FTP Crossing, MD:11814.7', TVD:11784.3', N/S:340.0', E/W:-349.5', INC:12.12
18,513.0	12,229.3	-7,157.0	-272.6	Last MWD Survey (MD=18513.0')
19,713.0	12,220.2	-7,356.6	-263.0	Projection to Bit (MD=19713.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Bandit 29 State Com #601H
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

To convert a Magnetic Direction to a Grid Direction, Add 6.37°
To convert a Magnetic Direction to a True Direction, Add 6.77° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

WELL DETAILS: #601H

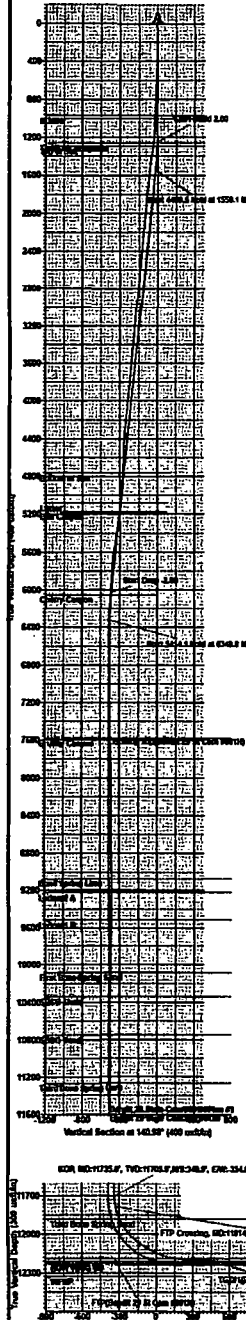
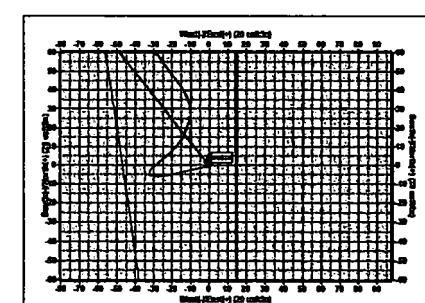
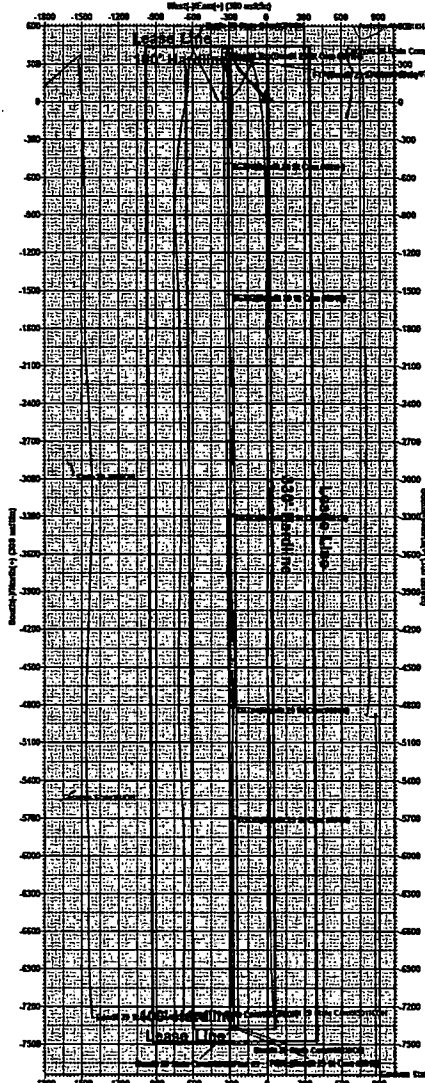
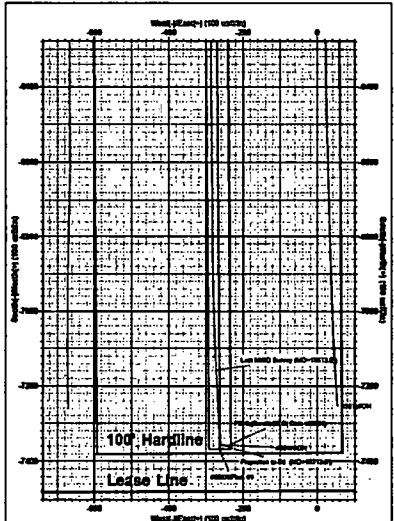
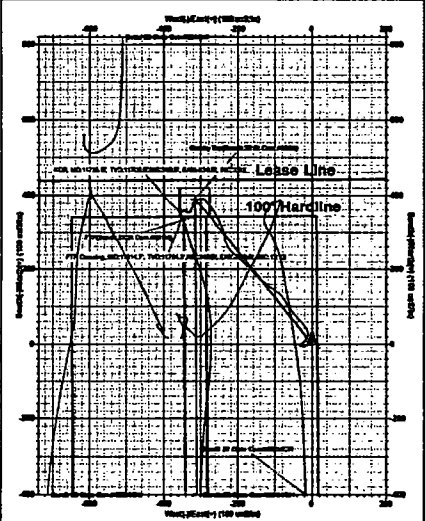
3530.0
KB = 25 @ 3555.0ust
+N-S +E-W Northing Easting Longitude Slot
0.0 0.0 435358.00 772237.00 32° 11' 40.834 N 103° 35' 12.823 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1250.0	0.00	0.00	1250.0	0.0	0.0	0.00	0.00	0.0	
3	1550.1	8.00	320.98	1549.8	12.2	-9.9	2.00	320.88	-11.8	
4	8049.8	8.00	320.98	8024.4	377.8	-308.1	0.00	0.00	-368.7	
5	8348.8	0.00	0.00	8324.0	390.0	-316.0	2.00	180.00	-378.5	
6	11783.9	0.00	0.00	11738.1	350.0	-316.0	0.00	0.00	-378.5	
7	12520.5	90.80	179.60	12215.5	-94.1	-312.6	12.00	179.60	105.1	
8	12917.8	90.80	179.60	12210.0	-491.3	-309.9	0.00	0.00	502.0	TGT#1(Bandit 29 St Com #601H)
9	12930.2	90.55	179.60	12209.9	-503.7	-309.8	2.00	180.00	514.4	
10	13980.7	90.55	179.60	12200.0	-1534.2	-302.6	0.00	0.00	1544.0	TGT#2(Bandit 29 St Com #601H)
11	13988.3	90.00	179.60	12199.9	-1501.8	-302.4	2.00	-180.00	1571.8	
12	15708.4	90.00	179.60	12200.0	-3281.8	-290.4	0.00	0.00	3290.0	TGT#3(Bandit 29 St Com #601H)
13	15727.0	89.62	179.60	12200.1	-3300.4	-290.3	2.00	180.00	3308.6	
14	17235.7	89.62	179.60	12210.0	-4813.1	-279.8	0.00	0.00	4820.0	TGT#4(Bandit 29 St Com #601H)
15	17254.0	89.34	179.60	12210.1	-4827.3	-279.7	2.00	180.00	4834.2	
16	18109.6	89.34	179.60	12220.0	-5682.9	-273.7	0.00	0.00	5689.0	TGT#5(Bandit 29 St Com #601H)

Wellbore Target Details

Name	TVD	+N-S	+E-W	Northing	Eastng	Shape
Brasby Top(Bandit 29 St Com #601H)	7678.8	388.0	-818.0	435748.00	771821.00	Polygon
TGT#1(Bandit 29 St Com #601H)	12280.0	-4534.2	-302.8	435824.80	771834.39	Point
TGT#2(Bandit 29 St Com #601H)	12200.0	-3281.8	-290.4	435877.30	771848.88	Point
TGT#3(Bandit 29 St Com #601H)	12210.0	-491.3	-308.8	435897.70	771857.13	Point
TGT#4(Bandit 29 St Com #601H)	12210.0	-4813.1	-279.8	435948.90	771857.22	Point
TGT#5(Bandit 29 St Com #601H)	12217.0	-3460.0	-318.0	435938.00	771851.00	Point
PT#1(Bandit 29 St Com #601H)	12220.0	-6822.8	-273.7	435978.10	771863.37	Point
PT#2(Bandit 29 St Com #601H)	12237.0	-7258.0	-263.0	437091.00	771878.00	Rectangle (Elev: LAJ W60.0)



Lea County, NM (NAD 83 NME)