



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#602H

OH

Design: OH

Midland PVA

03 June, 2019

HOBBS OCD

OCT 21 2019

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Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #602H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3558.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3558.0usft
Well:	#602H	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	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' 18.930 W
		Grid Convergence:	0.40 °

Well	#602H		
Well Portion	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 11' 40.528 N
		Longitude:	103° 35' 38.159 W
		Ground Level:	3,533.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	User Defined	5/1/2019	6.73
	User Defined	5/2/2019	6.72
	User Defined	5/3/2019	6.70
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,906.20000000
			47,948.60000000
			47,996.30000000

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
		Direction	(°)
		178.70	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #802H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3558.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3558.0usft
Well:	#802H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program	Date	8/3/2018
From (usft)	To (usft)	Survey (Wellbore)
200.0	19,834.0	Leam MWD (OH)
		Tool Name
		MWD
		Description
		OWSG MWD - Standard

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Bulld (°/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
200.0	1.30	15.00	200.0	2.2	0.6	0.65	0.65	0.00	-2.3	0.0
316.0	1.10	359.30	316.0	4.6	0.9	0.33	-0.17	-13.53	-4.6	-1.0
492.0	0.80	2.70	491.9	7.5	1.0	0.17	-0.17	1.93	-7.5	-0.8
676.0	0.60	5.70	675.9	9.7	1.1	0.11	-0.11	1.63	-9.8	-0.1
770.0	0.80	2.00	769.9	10.9	1.2	0.22	0.21	-3.94	-10.9	-0.8
863.0	1.10	332.10	862.9	12.3	0.8	0.61	0.32	-32.15	-10.5	-6.5
957.0	0.80	345.60	956.9	13.8	0.2	0.40	-0.32	14.36	-13.3	-3.6
1,050.0	0.40	340.50	1,049.9	14.7	-0.1	0.43	-0.43	-5.48	-13.9	-4.8
1,144.0	0.70	209.20	1,143.9	14.5	-0.5	1.07	0.32	-139.68	12.4	-7.5
1,251.0	0.50	244.90	1,250.9	13.7	-1.2	0.39	-0.19	33.36	4.7	-12.9
1,328.0	0.40	202.60	1,327.9	13.3	-1.6	0.44	-0.13	-54.94	11.6	-6.6
1,423.0	0.40	121.90	1,422.9	12.9	-1.5	0.55	0.00	-84.95	8.1	7.5
1,517.0	2.20	39.80	1,516.8	14.1	0.0	2.32	1.91	-87.34	-2.6	8.0
1,610.0	5.10	29.90	1,609.6	19.0	3.2	3.18	3.12	-10.65	-1.9	7.8
1,704.0	6.90	29.60	1,703.1	27.6	8.1	1.92	1.91	-0.32	-3.6	8.1
1,798.0	7.40	29.20	1,796.4	37.7	13.8	0.53	0.53	-0.43	-7.2	8.5
1,892.0	7.40	30.80	1,889.6	48.2	19.8	0.22	0.00	1.70	-10.9	9.2
1,987.0	7.20	27.60	1,983.8	58.8	25.7	0.48	-0.21	-3.37	-15.3	9.0
2,081.0	7.10	27.60	2,077.1	69.1	31.2	0.11	-0.11	0.00	-18.8	9.8
2,175.0	6.90	26.80	2,170.4	79.3	36.4	0.24	-0.21	-0.85	-22.3	10.3
2,268.0	7.10	26.60	2,262.7	89.4	41.5	0.22	0.22	-0.22	-25.6	11.1



Midland PVA

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 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 29 State Com
 Well: #602H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 25 @ 3558.0usft
 MD Reference: KB = 25 @ 3558.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
2,362.0	7.20	24.30	2,358.0	100.0	48.5	0.32	0.11	-2.45	-29.7	11.1
2,456.0	8.90	33.80	2,449.1	111.4	53.0	2.27	1.81	9.89	-32.4	18.8
2,549.0	8.70	34.20	2,541.0	123.2	60.9	0.24	-0.22	0.65	-38.4	16.9
2,738.0	8.90	32.00	2,727.7	147.5	78.7	0.21	0.11	-1.16	-51.5	15.1
2,831.0	8.50	33.50	2,819.7	159.3	84.3	0.49	-0.43	1.61	-57.1	16.8
2,925.0	8.30	31.70	2,912.7	170.9	91.7	0.35	-0.21	-1.91	-63.2	14.8
3,019.0	8.20	30.80	3,005.7	182.4	98.7	0.17	-0.11	-0.98	-68.7	14.0
3,114.0	7.80	31.90	3,099.8	193.5	105.5	0.65	-0.63	1.16	-73.3	15.8
3,208.0	6.60	32.00	3,193.1	203.4	111.6	1.08	-1.06	0.11	-76.7	15.8
3,302.0	6.00	40.80	3,286.5	211.7	117.7	1.21	-0.84	9.36	-75.5	27.1
3,396.0	6.60	44.00	3,379.9	219.3	124.7	0.74	0.64	3.40	-76.2	29.9
3,490.0	7.70	37.80	3,473.2	228.2	132.3	1.43	1.17	-8.60	-82.5	20.3
3,584.0	7.10	38.20	3,566.4	237.7	139.7	0.64	-0.64	0.43	-88.3	20.2
3,677.0	6.80	38.10	3,658.7	246.7	148.5	0.42	-0.32	-2.26	-90.2	16.4
3,771.0	6.40	38.10	3,752.1	255.4	152.9	0.43	-0.43	0.00	-92.8	15.9
3,865.0	6.10	45.40	3,845.6	263.1	159.5	1.12	-0.32	9.89	-91.2	29.7
3,959.0	5.70	48.00	3,939.1	269.8	166.6	0.51	-0.43	2.77	-91.5	31.9
4,052.0	5.10	49.30	4,031.6	275.6	173.1	0.66	-0.65	1.40	-91.7	31.8
4,146.0	4.80	47.30	4,125.3	281.0	179.2	0.37	-0.32	-2.13	-93.0	26.4
4,240.0	5.40	58.90	4,218.9	285.9	185.9	1.27	0.64	12.34	-86.7	41.7
4,334.0	6.40	68.10	4,312.4	290.1	194.5	1.48	1.06	9.79	-81.8	51.0
4,428.0	6.10	67.00	4,405.9	294.1	204.0	0.34	-0.32	-1.17	-88.2	44.7
4,522.0	6.00	46.80	4,498.4	298.4	212.1	2.28	-0.11	-21.49	-88.0	8.7
4,616.0	6.30	52.30	4,592.8	305.9	219.8	0.70	0.32	5.85	-99.1	15.8
4,710.0	6.60	64.60	4,686.2	311.4	228.8	1.50	0.32	13.09	-86.9	33.2
4,804.0	6.10	66.80	4,779.7	315.6	238.2	0.59	-0.53	2.34	-99.2	32.8
4,899.0	6.20	63.00	4,874.1	320.0	247.4	0.44	0.11	-4.00	-103.4	22.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 20 State Com
 Well: #802H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #802H
 TVD Reference: KB = 25 @ 3558.0usft
 MD Reference: KB = 25 @ 3558.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azi/muth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,992.0	5.70	45.10	4,966.6	325.5	255.2	2.06	-0.54	-19.25	-105.0	-11.5
5,088.0	6.00	33.30	5,060.1	332.9	261.2	1.32	0.32	-12.55	-100.6	-30.9
5,180.0	5.50	32.90	5,153.7	340.8	266.3	0.53	-0.53	-0.43	-100.5	-28.9
5,274.0	5.40	32.70	5,247.2	348.3	271.2	0.11	-0.11	-0.21	-100.1	-28.4
5,368.0	5.00	33.50	5,340.8	355.4	275.8	0.43	-0.43	0.85	-99.6	-22.3
5,461.0	4.80	35.60	5,433.5	362.0	280.3	0.29	-0.22	2.26	-99.0	-16.3
5,555.0	4.80	35.40	5,527.2	368.4	284.9	0.02	0.00	-0.21	-97.4	-14.3
5,648.0	4.70	33.80	5,619.9	374.7	289.3	0.18	-0.11	-1.72	-95.4	-14.5
5,742.0	4.70	32.40	5,713.5	381.2	293.5	0.12	0.00	-1.49	-93.4	-14.1
5,835.0	6.50	37.00	5,806.1	388.6	298.7	1.99	1.94	4.95	-93.9	-4.2
5,930.0	6.90	40.70	5,900.4	397.2	305.6	0.62	0.42	3.89	-95.4	3.6
6,023.0	6.50	40.10	5,992.8	405.5	312.7	0.44	-0.43	-0.65	-96.8	4.1
6,117.0	6.10	42.10	6,086.2	413.2	319.5	0.49	-0.43	2.13	-97.3	8.9
6,211.0	6.10	39.60	6,179.7	420.8	326.0	0.28	0.00	-2.66	-98.0	6.1
6,305.0	5.70	40.70	6,273.2	428.2	332.2	0.44	-0.43	1.17	-98.0	9.5
6,399.0	4.40	47.20	6,366.8	434.2	337.9	1.51	-1.38	6.91	-94.8	21.4
6,493.0	3.00	63.50	6,460.6	437.7	342.7	1.85	-1.49	17.34	-81.6	45.7
6,588.0	2.70	77.20	6,553.5	439.3	347.1	0.80	-0.32	14.73	-64.5	59.8
6,679.0	1.60	96.70	6,646.5	439.6	350.5	1.40	-1.18	20.97	-37.7	71.6
6,772.0	1.30	141.20	6,739.4	438.7	352.4	1.22	-0.32	47.85	21.0	68.8
6,866.0	1.20	140.70	6,833.4	437.1	353.7	0.11	-0.11	-0.53	18.2	59.3
6,960.0	1.20	138.00	6,927.4	435.6	355.0	0.06	0.00	-2.87	13.6	50.3
7,148.0	1.20	147.70	7,115.4	432.4	357.4	0.11	0.00	5.16	15.2	28.5
7,241.0	1.20	147.70	7,208.3	430.8	358.4	0.00	0.00	0.00	11.9	19.0
7,335.0	1.00	161.10	7,302.3	429.2	359.2	0.35	-0.21	14.28	10.6	6.9
7,429.0	0.90	152.30	7,396.3	427.8	359.8	0.19	-0.11	-9.36	5.9	-0.1
7,523.0	0.70	172.00	7,490.3	426.5	360.2	0.36	-0.21	20.96	1.2	-6.6



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 29 State Com
 Well: #602H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 25 @ 3558.0usft
 MD Reference: KB = 25 @ 3558.0usft
 North Reference: Grid
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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)
7,710.0	1.10	188.30	7,877.3	423.8	380.1	0.25	0.21	8.72	-5.6	-8.1
7,897.0	1.30	183.20	7,884.2	418.7	359.8	0.12	0.11	-2.73	-8.8	-8.8
7,987.0	1.50	182.20	7,954.2	417.5	359.7	0.22	0.22	-1.11	-10.8	-8.9
8,081.0	1.30	184.80	8,048.2	415.2	359.5	0.22	-0.21	2.77	-13.5	-8.4
8,175.0	1.30	183.90	8,142.1	413.1	359.4	0.02	0.00	-0.98	-15.5	-8.8
8,269.0	1.10	184.80	8,238.1	411.2	359.2	0.21	-0.21	0.96	-17.8	-8.3
8,363.0	1.20	204.10	8,330.1	409.4	358.7	0.42	0.11	20.53	-21.2	-1.8
8,457.0	1.60	188.80	8,424.1	407.2	358.1	0.58	0.43	-16.28	-22.2	-7.5
8,550.0	1.60	191.00	8,517.0	404.8	357.7	0.07	0.00	2.37	-25.1	-8.6
8,644.0	1.80	197.50	8,611.0	402.1	357.0	0.19	0.00	8.91	-28.3	-3.6
8,738.0	1.40	200.30	8,705.0	399.7	356.3	0.23	-0.21	2.98	-30.9	-2.1
8,832.0	1.60	195.50	8,798.9	397.4	355.5	0.25	0.21	-5.11	-33.1	-4.8
8,926.0	1.30	199.40	8,892.9	395.1	354.8	0.34	-0.32	4.15	-35.7	-2.5
9,019.0	1.00	216.10	8,985.9	393.5	354.0	0.48	-0.32	17.96	-36.7	8.2
9,113.0	1.10	326.80	9,079.9	393.6	353.0	1.84	0.11	117.77	20.0	32.2
9,206.0	1.20	328.20	9,172.9	395.1	352.0	0.11	0.11	1.51	19.0	31.8
9,300.0	0.70	280.30	9,266.9	396.2	350.9	0.83	-0.53	-40.32	-5.9	36.1
9,393.0	0.20	315.60	9,358.9	396.5	350.3	0.57	-0.54	27.20	9.4	35.4
9,486.0	0.60	72.50	9,452.9	398.8	350.6	0.77	0.43	125.70	26.9	-24.3
9,580.0	0.40	81.30	9,546.8	397.0	351.4	0.23	-0.21	9.36	22.1	-28.0
9,674.0	0.90	184.40	9,640.8	398.3	352.0	1.00	0.53	88.40	-26.0	-24.9
9,767.0	0.40	150.50	9,733.8	395.3	352.3	0.58	-0.54	-14.95	-20.2	-30.8
9,862.0	0.70	3.20	9,828.8	395.6	352.5	1.11	0.32	-155.05	33.3	14.7
9,955.0	0.90	321.40	9,921.8	396.7	352.1	0.65	0.22	-44.95	13.9	32.7
10,049.0	0.90	344.80	10,015.8	398.0	351.4	0.39	0.00	24.89	24.3	24.8
10,143.0	1.10	338.10	10,109.8	399.8	350.9	0.25	0.21	-7.13	19.6	27.4
10,237.0	0.80	283.20	10,203.8	400.6	349.8	1.00	-0.21	-58.40	-12.4	31.1



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 28 State Com
 Well: #802H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #802H
 TVD Reference: KB = 25 @ 3558.0usft
 MD Reference: KB = 25 @ 3558.0usft
 North Reference: Grid
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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)
10,330.0	0.80	354.80	10,296.8	401.4	349.1	1.07	-0.11	76.99	24.7	22.3
10,516.0	0.30	277.80	10,482.8	402.8	348.5	0.42	-0.27	-41.40	-16.9	27.8
10,609.0	0.90	227.90	10,575.8	402.3	347.7	0.80	0.65	-53.66	-33.0	4.8
10,703.0	1.30	219.60	10,669.8	401.0	346.5	0.46	0.43	-8.83	-35.2	-0.1
10,796.0	1.50	243.20	10,762.7	399.6	344.7	0.65	0.22	25.38	-34.5	14.4
10,890.0	2.10	275.90	10,856.7	399.2	341.9	1.24	0.64	34.79	-24.0	31.4
10,984.0	3.30	261.60	10,950.6	399.0	337.5	1.45	1.28	-15.21	-35.4	24.1
11,078.0	4.60	269.30	11,044.4	398.6	331.1	1.49	1.38	8.19	-38.3	29.0
11,173.0	2.60	284.80	11,138.2	399.1	325.2	2.32	-2.11	16.32	-35.0	39.2
11,267.0	2.00	301.70	11,233.1	400.5	321.7	0.98	-0.64	17.98	-25.8	48.3
11,361.0	1.70	284.00	11,327.0	401.9	319.0	0.41	-0.32	-8.19	-35.0	44.2
11,455.0	2.30	285.90	11,421.0	403.0	316.0	0.70	0.64	-8.62	-44.2	38.6
11,549.0	3.20	288.50	11,514.9	404.4	311.7	0.97	0.96	2.77	-46.9	40.7
11,631.0	3.70	286.90	11,598.7	405.8	308.9	0.62	0.61	-1.95	-52.9	39.3
11,777.0	3.10	293.30	11,742.5	408.8	298.8	0.49	-0.41	4.38	-56.8	45.5
11,870.0	4.70	158.00	11,835.4	408.3	298.1	7.84	1.72	-147.63	17.4	-70.0
11,963.0	20.10	139.60	11,925.9	390.5	310.0	16.82	16.56	-17.63	36.1	-47.0
12,057.0	37.40	138.60	12,008.0	356.6	339.6	18.41	18.40	-1.06	23.4	-20.0
12,150.0	51.50	150.20	12,074.4	303.4	376.6	17.45	15.16	12.47	3.9	8.4
12,244.0	63.40	160.40	12,124.9	231.5	409.2	15.59	12.66	10.85	-9.9	37.7
12,338.0	69.80	178.90	12,162.5	147.3	425.8	17.47	6.81	17.55	-15.6	54.6
12,431.0	77.10	178.80	12,189.0	58.3	429.1	8.09	7.85	2.04	-19.4	57.4
12,525.0	79.10	180.90	12,208.3	-33.7	429.3	3.05	2.13	2.23	-12.0	57.2
12,618.0	86.00	180.40	12,218.8	-126.0	428.3	9.58	9.57	-0.54	-1.5	55.4
12,712.0	92.10	181.60	12,218.7	-219.9	426.6	4.54	4.36	1.28	-0.9	53.1
12,806.0	89.30	187.30	12,217.5	-313.6	419.3	6.75	-2.98	6.06	-1.0	45.2
12,898.0	89.30	187.60	12,218.7	-404.8	407.4	0.33	0.00	0.33	0.9	32.6



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 29 State Com
 Well: #602H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 25 @ 3558.0usft
 MD Reference: KB = 25 @ 3558.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
12,992.0	89.30	188.90	12,219.8	-498.0	395.6	0.74	0.00	-0.74	2.8	20.1
13,086.0	90.30	186.40	12,220.1	-591.4	384.7	1.19	1.08	-0.53	3.9	8.6
13,179.0	88.20	183.00	12,223.0	-684.0	377.1	5.73	-4.41	-3.66	7.6	0.3
13,273.0	90.40	181.80	12,225.8	-777.9	373.1	4.65	4.47	-1.28	11.1	-3.9
13,368.0	90.50	182.70	12,225.0	-870.8	369.5	0.97	0.11	0.97	10.5	-5.5
13,459.0	90.70	182.70	12,224.1	-963.7	365.1	0.22	0.22	0.00	9.5	-7.4
13,553.0	89.00	182.30	12,224.3	-1,057.6	361.0	1.86	-1.81	-0.43	9.7	-9.0
13,647.0	90.30	181.10	12,224.9	-1,151.6	358.2	1.88	1.38	-1.28	10.3	-9.3
13,741.0	92.90	180.90	12,222.3	-1,245.5	358.6	2.77	2.77	-0.21	7.6	-8.5
13,836.0	93.80	181.50	12,216.7	-1,340.3	354.6	1.14	0.95	0.63	2.0	-8.0
13,929.0	91.20	181.80	12,212.7	-1,433.2	351.9	2.81	-2.80	0.32	-2.0	-8.2
14,023.0	90.00	181.60	12,211.7	-1,527.1	349.1	1.29	-1.28	-0.21	-3.0	-8.5
14,117.0	90.50	182.50	12,211.3	-1,621.1	345.7	1.10	0.53	0.96	-3.5	-8.4
14,210.0	88.80	182.50	12,211.8	-1,714.0	341.7	1.83	-1.83	0.00	-2.9	-11.0
14,304.0	87.80	182.50	12,214.6	-1,807.8	337.8	1.08	-1.06	0.00	-0.2	-12.6
14,398.0	92.70	181.50	12,214.2	-1,901.8	334.3	5.32	5.21	-1.08	-0.6	-13.4
14,492.0	91.20	182.00	12,211.0	-1,995.7	331.4	1.68	-1.60	0.53	-3.8	-13.7
14,586.0	89.20	181.80	12,210.7	-2,089.6	328.3	2.14	-2.13	-0.21	-4.1	-14.4
14,679.0	88.60	182.20	12,212.2	-2,182.5	325.1	0.54	-0.32	0.43	-2.6	-15.2
14,773.0	90.70	181.50	12,212.6	-2,276.5	322.0	2.05	1.91	-0.74	-2.3	-15.7
14,867.0	92.80	182.20	12,209.7	-2,370.4	319.0	2.35	2.23	0.74	-5.2	-16.3
14,960.0	84.90	179.20	12,211.5	-2,463.3	317.9	9.09	-8.48	-3.23	-3.3	-14.9
15,054.0	88.80	178.70	12,216.7	-2,557.1	316.8	4.18	4.15	0.53	1.6	-11.6
15,148.0	90.30	179.00	12,217.5	-2,651.1	319.8	1.76	1.60	-0.74	2.5	-8.0
15,242.0	91.40	179.20	12,216.1	-2,745.1	321.3	1.19	1.17	0.21	1.1	-4.0
15,336.0	91.50	179.50	12,213.7	-2,839.0	322.4	0.34	0.11	0.32	-1.3	-0.5
15,429.0	90.60	180.60	12,212.0	-2,932.0	322.3	1.53	-0.97	1.18	-3.0	1.9



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 29 State Com
 Well: #602H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 25 @ 3558.0usft
 MD Reference: KB = 25 @ 3558.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,523.0	90.70	177.20	12,210.9	-3,026.0	324.1	3.62	0.11	-3.62	-4.2	4.7
15,617.0	88.40	174.30	12,211.6	-3,119.7	331.1	3.94	-2.45	-3.09	-3.7	9.5
15,710.0	91.00	175.70	12,212.1	-3,212.3	339.2	3.18	2.80	1.51	-3.5	12.5
15,804.0	88.60	174.30	12,212.5	-3,306.0	347.4	2.98	-2.55	-1.48	-3.7	12.5
15,897.0	88.80	173.20	12,214.6	-3,398.4	357.5	1.20	0.22	-1.18	-2.1	13.8
15,991.0	89.00	172.50	12,216.4	-3,491.6	369.2	0.77	0.21	-0.74	-0.9	16.5
16,085.0	89.20	171.60	12,217.9	-3,584.7	382.2	0.98	0.21	-0.98	0.1	20.6
16,178.0	88.40	172.50	12,218.0	-3,676.8	395.0	0.99	0.22	0.97	0.7	24.6
16,273.0	89.80	173.50	12,219.7	-3,771.1	406.6	1.13	0.42	1.05	0.8	27.2
16,368.0	90.90	176.00	12,219.1	-3,863.7	415.1	2.94	1.18	2.69	-0.3	28.8
16,460.0	91.10	175.70	12,217.4	-3,957.4	421.9	0.38	0.21	-0.32	-2.4	24.6
16,553.0	90.40	177.40	12,216.2	-4,050.3	427.5	1.98	-0.75	1.83	-4.4	22.1
16,647.0	89.20	177.90	12,216.6	-4,144.2	431.4	1.38	-1.28	0.53	-5.6	20.4
16,741.0	88.20	177.60	12,220.3	-4,238.0	435.1	3.21	-3.19	-0.32	-3.4	19.0
16,834.0	90.20	178.30	12,223.2	-4,330.9	438.4	4.37	4.30	0.75	-2.2	17.2
16,928.0	88.50	177.90	12,224.3	-4,424.8	441.5	1.88	-1.81	-0.43	-2.8	15.3
17,022.0	88.50	178.50	12,226.8	-4,518.8	444.5	0.64	0.00	0.64	-2.0	13.1
17,115.0	88.40	177.40	12,228.5	-4,611.7	447.8	1.53	0.97	-1.18	-1.9	11.4
17,208.0	88.50	177.90	12,229.4	-4,704.6	451.6	0.55	0.11	0.54	-2.7	10.1
17,303.0	90.70	178.50	12,229.2	-4,799.5	454.6	1.41	1.28	0.63	-4.5	7.9
17,398.0	88.80	179.30	12,228.8	-4,892.5	456.4	1.29	-0.97	0.88	-6.6	4.7
17,489.0	89.90	175.70	12,228.0	-4,985.4	460.4	3.87	0.11	-3.87	-8.0	3.7
17,582.0	91.40	175.30	12,228.0	-5,078.1	467.7	1.67	1.61	-0.43	-10.7	5.9
17,675.0	89.10	178.70	12,227.8	-5,170.9	474.2	2.90	-2.47	1.51	-12.7	7.4
17,769.0	90.60	177.40	12,227.8	-5,264.6	478.1	1.76	1.60	0.74	-14.2	7.1
17,863.0	88.60	178.60	12,228.5	-5,358.7	482.3	2.48	-2.13	1.28	-15.2	5.3
17,957.0	88.90	179.20	12,230.5	-5,452.7	484.1	0.71	0.32	0.64	-14.8	2.1



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 28 State Com
 Well: #602H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 25 @ 3558.0usft
 MD Reference: KB = 25 @ 3558.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
18,051.0	89.30	180.20	12,232.0	-5,546.6	484.6	1.15	0.43	1.06	-15.0	0.0
18,145.0	89.80	180.80	12,232.7	-5,640.6	483.8	0.83	0.53	0.64	-15.9	-0.4
18,239.0	88.80	181.10	12,233.9	-5,734.6	482.2	1.11	-1.06	0.32	-16.5	1.6
18,332.0	89.80	182.00	12,235.0	-5,827.6	479.7	1.45	1.08	0.97	-17.0	5.6
18,426.0	88.80	181.60	12,236.2	-5,921.5	476.8	1.15	-1.06	-0.43	-17.6	12.3
18,520.0	88.60	182.50	12,237.5	-6,015.4	473.4	1.28	0.85	0.96	-18.0	20.0
18,614.0	88.50	184.60	12,239.1	-6,109.2	467.6	2.52	-1.17	2.23	-18.0	23.0
18,709.0	89.30	185.70	12,240.9	-6,203.8	459.1	1.43	0.84	1.16	-17.5	20.2
18,802.0	88.80	183.60	12,242.4	-6,296.5	451.5	2.32	-0.54	-2.26	-17.0	15.1
18,897.0	89.10	181.30	12,244.2	-6,391.4	447.5	2.44	0.32	-2.42	-16.2	12.3
18,991.0	89.70	182.20	12,245.1	-6,485.4	444.6	1.15	0.64	0.96	-16.2	10.7
19,085.0	90.20	183.20	12,245.2	-6,579.3	440.2	1.19	0.53	1.06	-17.1	7.4
19,179.0	90.70	182.20	12,244.5	-6,673.1	435.7	1.19	0.53	-1.06	-18.8	4.2
19,272.0	88.80	180.60	12,246.5	-6,766.1	433.5	4.53	-4.19	-1.72	-17.7	3.2
19,366.0	86.70	180.60	12,251.8	-6,859.9	432.5	0.11	-0.11	0.00	-13.3	3.4
19,460.0	89.40	179.90	12,255.0	-6,953.9	432.1	2.97	2.87	-0.74	-11.1	4.2
19,553.0	90.80	180.80	12,254.9	-7,046.8	431.5	1.79	1.51	0.97	-12.2	4.8
19,646.0	92.20	181.50	12,252.4	-7,139.8	429.7	1.68	1.51	0.75	-15.6	4.2
19,777.0	91.10	181.30	12,248.7	-7,270.7	426.5	0.85	-0.84	-0.15	-20.7	2.7
19,834.0	91.10	181.30	12,247.6	-7,327.7	425.2	0.00	0.00	0.00	-22.4	2.1



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Bandit 29 State Com
Well: #802H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #802H
TVD Reference: KB = 25 @ 3558.0usft
MD Reference: KB = 25 @ 3558.0usft
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)	
11,800.0	11,785.4	409.0	297.9	KOP, MD:11800.0', TVD:11785.4', N/S:409.0', E/W:297.9', INC:1.68
12,004.1	11,963.5	377.9	320.9	FTP Crossing, MD:12004.1', TVD:11963.5', N/S:377.9', E/W:320.9', INC:27.66
19,777.0	12,248.7	-7,270.7	428.5	Last MWD Survey (MD=19777.0')
19,834.0	12,247.6	-7,327.7	425.2	Projection to Bit (MD=19834.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#602H

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: #602H

3533.0
KB = 25 @ 3558.00ft
+N-S +E-W Northing Easting Longitude Slot
0.0 0.0 435314.00 770232.00 32° 11' 40.526 N 103° 35' 36.159 W

SECTION DETAILS

Sec	MD	Inc	Asl	TVD	+N-S	+E-W	Diag	Tface	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1550.0	5.00	33.00	1549.7	9.1	5.9	2.00	33.00	-8.8	
4	4821.8	5.00	33.00	4809.0	248.3	161.2	0.00	0.00	-238.6	
5	4911.7	5.92	49.37	4898.8	254.8	166.8	2.00	67.77	-244.8	
6	7345.7	5.92	49.37	7319.8	418.1	357.4	0.00	0.00	-356.8	
7	7841.7	0.00	0.00	7815.0	428.0	389.0	2.00	180.00	-408.0	
8	11770.2	0.00	0.00	11743.8	428.0	389.0	0.00	0.00	-408.0	Brushy Top(Bandit 29 St Com #602H)
9	12524.4	90.50	179.60	12320.9	-63.7	372.4	12.00	179.60	75.0	
10	13200.3	90.50	179.60	12218.0	-729.8	377.1	0.00	0.00	750.0	TGT#1(Bandit 29 St Com #602H)
11	13298.4	89.99	181.52	12214.8	-628.7	376.1	2.00	103.07	848.9	
12	15403.8	89.99	181.52	12215.0	-2932.3	320.4	0.00	0.00	2945.9	TGT#2(Bandit 29 St Com #602H)
13	16783.8	89.98	174.53	12218.0	-3281.6	332.5	2.00	-82.68	3285.3	
14	16458.8	89.98	174.53	12220.0	-3983.8	399.7	0.00	0.00	4000.0	TGT#3(Bandit 29 St Com #602H)
15	16581.8	88.99	176.89	12221.4	-4109.1	408.9	2.00	106.38	4122.8	AC TGT(Bandit 29 St Com #602H)
16	17801.8	88.99	176.89	12244.8	-6423.9	450.5	0.00	0.00	5442.6	TGT#4(Bandit 29 St Com #602H)
17	18395.8	88.95	168.83	12253.8	-6916.9	464.5	2.00	90.29	5938.8	
18	18465.2	88.95	168.83	12255.0	-6986.1	456.8	0.00	0.00	6002.5	
19	18770.3	89.41	180.74	12259.4	-6290.3	436.5	2.00	-85.69	6305.0	
20	19511.1	89.41	180.74	12270.0	-7331.0	423.0	0.00	0.00	7343.2	PBHL(Bandit 29 St Com #602H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Brushy Top(Bandit 29 St Com #602H)	7815.0	428.0	369.0	435742.00	770601.00	Polygon
TGT#1(Bandit 29 St Com #602H)	12218.0	-729.8	377.1	434594.50	770609.06	Point
TGT#2(Bandit 29 St Com #602H)	12215.0	-2932.3	320.4	432381.70	770552.40	Point
TGT#3(Bandit 29 St Com #602H)	12220.0	-3983.8	399.7	431330.40	770631.70	Point
PTP(Bandit 29 St Com #602H)	12225.0	-378.0	363.0	435882.00	770601.00	Point
AC TGT(Bandit 29 St Com #602H)	12244.8	-6423.9	450.5	435950.13	770712.80	Point
TGT#4(Bandit 29 St Com #602H)	12255.0	-6986.1	456.8	435327.90	770628.60	Point
PBHL(Bandit 29 St Com #602H)	12270.0	-7331.0	423.0	427983.00	770655.00	Rectangle (Sides: L0.0 W80.0)

