

HOBBS OCD

OCT 22 2019

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#703H

OH

Design: OH

Midland PVA

24 June, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3559.0usft
Site:	Bandit 28 State Com	MD Reference:	KB = 25 @ 3559.0usft
Well:	#703H	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 28 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	#703H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 11' 40.524 N
		Longitude:	103° 35' 35.775 W
		Ground Level:	3,534.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	3/12/2019	6.77
			Dip Angle
			60.01
			Field Strength
			47,739.32062082

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			174.38

Survey Program	Date 6/24/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
171.0	20,033.0	Learn MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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 North Reference: Grid
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 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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
171.0	1.00	71.10	171.0	0.5	1.4	0.58	0.58	0.00	-1.5	0.0	
200.0	1.00	51.20	200.0	0.7	1.8	1.19	0.00	-68.62	-1.9	-0.6	
229.0	1.30	60.00	229.0	1.0	2.3	1.20	1.03	30.34	-2.5	-0.3	
404.0	1.10	65.80	403.9	2.7	5.6	0.13	-0.11	3.31	-6.2	0.2	
582.0	0.90	47.20	581.9	4.4	8.2	0.21	-0.11	-10.45	-9.0	-2.3	
676.0	0.90	45.20	675.9	5.4	9.2	0.03	0.00	-2.13	-10.4	-2.7	
883.0	0.50	356.50	882.9	7.2	10.2	0.37	-0.21	-26.04	-6.6	-10.6	
957.0	0.40	25.50	956.9	8.0	10.3	0.26	-0.11	30.85	-11.6	-5.9	
1,050.0	0.70	3.70	1,049.9	8.8	10.5	0.39	0.32	-23.44	-9.5	-8.9	
1,144.0	0.60	343.70	1,143.9	9.9	10.4	0.26	-0.11	-21.28	-6.5	-12.8	
1,238.0	0.80	11.10	1,237.9	10.8	10.4	0.30	0.00	29.15	-12.5	-7.9	
1,325.0	0.50	353.40	1,324.9	11.6	10.4	0.23	-0.11	-20.34	-9.4	-9.1	
1,419.0	2.60	56.00	1,418.8	13.2	12.1	2.56	2.23	66.60	-8.1	5.2	
1,513.0	5.10	67.20	1,512.6	16.1	17.8	2.76	2.66	11.91	-5.5	6.7	
1,607.0	7.50	69.70	1,606.0	19.8	27.4	2.57	2.55	2.66	-5.8	5.9	
1,701.0	8.30	69.80	1,699.1	24.3	39.5	0.85	0.85	0.11	-9.0	4.8	
1,795.0	7.80	69.30	1,792.2	28.9	51.6	0.54	-0.53	-0.53	-12.4	3.6	
1,889.0	8.90	71.20	1,885.2	33.5	64.7	1.21	1.17	2.02	-16.3	2.8	
1,984.0	9.10	71.80	1,979.1	38.2	78.8	0.23	0.21	0.63	-21.3	1.5	
2,077.0	9.20	69.80	2,070.9	43.0	92.7	0.36	0.11	-2.15	-26.5	-0.6	
2,171.0	8.80	69.50	2,163.7	48.2	106.5	0.43	-0.43	-0.32	-31.5	-1.9	
2,265.0	8.40	68.00	2,256.7	53.5	119.5	0.70	-0.43	-3.72	-35.6	-4.8	
2,359.0	8.30	63.20	2,349.7	59.3	131.9	0.45	-0.11	-2.98	-39.2	-6.9	
2,453.0	8.20	61.00	2,442.7	65.6	143.8	0.35	-0.11	-2.34	-42.6	-8.3	
2,546.0	8.00	59.50	2,534.8	72.1	155.1	0.31	-0.22	-1.61	-45.8	-9.0	
2,640.0	8.10	59.30	2,627.8	78.8	166.5	0.11	0.11	-0.21	-49.1	-8.5	



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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EA (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,734.0	8.50	55.40	2,720.9	86.2	177.9	0.73	0.43	-4.15	-52.3	-11.0	
2,828.0	9.00	58.40	2,813.8	94.0	189.9	0.72	0.53	3.19	-57.3	-7.1	
2,922.0	9.70	69.30	2,906.5	100.6	203.5	2.02	0.74	11.60	-63.0	4.1	
3,016.0	10.30	69.00	2,999.1	106.4	218.8	0.64	0.64	-0.32	-69.7	2.8	
3,111.0	10.80	71.60	3,092.5	112.3	235.2	0.73	0.53	2.74	-77.1	4.8	
3,205.0	10.90	76.30	3,184.8	117.2	252.2	0.95	0.11	5.00	-84.6	9.6	
3,298.0	10.40	80.00	3,276.2	120.7	269.0	0.91	-0.54	3.98	-91.8	12.7	
3,392.0	8.20	75.80	3,369.0	123.8	283.8	2.45	-2.34	-4.47	-98.1	3.2	
3,487.0	8.40	71.80	3,463.0	127.6	297.0	0.64	0.21	-4.21	-102.0	-5.6	
3,580.0	5.20	55.80	3,555.3	132.1	308.9	3.97	-3.44	-17.20	-97.7	-34.1	
3,674.0	3.60	45.60	3,649.0	136.6	312.6	1.89	-1.70	-10.85	-87.9	-48.6	
3,768.0	2.80	46.10	3,742.9	140.3	318.3	0.85	-0.85	0.53	-84.1	-45.0	
3,862.0	3.90	34.30	3,836.7	144.5	319.8	1.38	1.17	-12.55	-70.0	-58.8	
3,955.0	4.10	36.10	3,929.5	149.6	323.5	0.25	0.22	1.94	-69.6	-50.1	
4,049.0	3.70	34.30	4,023.3	155.0	327.2	0.44	-0.43	-1.91	-65.7	-47.7	
4,143.0	5.00	43.80	4,117.0	160.5	331.8	1.58	1.38	10.11	-70.5	-32.5	
4,237.0	4.80	42.90	4,210.7	166.4	337.3	0.13	-0.11	-0.96	-68.8	-30.3	
4,331.0	5.20	57.40	4,304.3	171.6	343.6	1.39	0.32	15.43	-72.5	-10.2	
4,425.0	6.00	79.90	4,397.9	174.8	352.1	2.47	0.85	23.94	-70.4	17.0	
4,519.0	6.80	69.10	4,491.3	177.6	362.1	1.53	0.85	-11.48	-73.0	1.6	
4,613.0	7.70	72.30	4,584.5	181.5	373.3	1.05	0.96	3.40	-74.9	4.3	
4,707.0	9.30	69.80	4,677.5	188.0	386.4	1.75	1.70	-2.66	-79.2	-0.3	
4,801.0	9.90	75.30	4,770.2	190.7	401.4	1.17	0.64	5.85	-85.0	5.9	
4,896.0	9.50	71.80	4,863.8	195.2	416.7	0.75	-0.42	-3.68	-91.4	-1.4	
4,989.0	8.50	63.00	4,955.7	200.8	430.1	1.83	-1.06	-9.46	-93.1	-17.4	
5,083.0	7.50	62.10	5,048.8	206.8	441.8	1.07	-1.06	-0.96	-91.5	-21.2	
5,177.0	7.30	44.20	5,142.0	213.9	451.3	2.45	-0.21	-19.04	-76.7	-47.8	



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5,271.0	7.70	44.70	5,235.2	222.7	459.9	0.43	0.43	0.53	-73.5	-45.1
5,365.0	7.20	43.10	5,326.4	231.5	468.4	0.58	-0.53	-1.70	-68.6	-45.0
5,458.0	6.90	45.20	5,420.7	239.7	476.3	0.43	-0.32	2.26	-65.8	-40.5
5,551.0	8.80	45.80	5,512.8	248.6	485.4	2.04	2.04	0.65	-63.2	-38.1
5,645.0	8.10	44.90	5,605.7	258.8	495.6	0.35	0.32	-0.96	-61.3	-37.3
5,738.0	9.00	44.70	5,697.5	269.2	506.1	0.11	-0.11	-0.22	-60.1	-35.6
5,832.0	10.60	42.20	5,790.1	280.8	517.1	1.76	1.70	-2.66	-58.8	-35.8
5,926.0	10.80	42.40	5,882.5	293.8	528.8	0.22	0.21	0.21	-60.6	-33.0
6,020.0	10.40	43.60	5,974.9	306.4	540.6	0.49	-0.43	1.28	-62.8	-29.4
6,114.0	9.10	44.30	6,067.5	317.9	551.7	1.39	-1.38	0.74	-63.2	-26.5
6,208.0	8.80	43.60	6,160.4	328.4	561.8	0.34	-0.32	-0.74	-61.7	-25.1
6,301.0	8.40	44.70	6,252.3	338.4	571.5	0.47	-0.43	1.18	-60.3	-21.9
6,396.0	8.20	45.40	6,348.3	348.1	581.2	0.24	-0.21	0.74	-58.2	-19.3
6,489.0	10.10	45.20	6,438.2	358.5	591.7	2.04	2.04	-0.22	-57.2	-17.7
6,582.0	11.30	45.10	6,529.5	370.6	604.0	1.29	1.29	-0.11	-58.8	-16.0
6,676.0	12.00	45.10	6,621.6	384.0	617.4	0.74	0.74	0.00	-62.0	-14.2
6,769.0	12.00	43.80	6,712.6	397.8	630.9	0.29	0.00	-1.40	-65.4	-13.7
6,863.0	9.50	53.50	6,804.9	409.5	643.9	3.27	-2.66	10.32	-68.2	-1.5
6,957.0	7.10	61.40	6,897.9	416.9	655.3	2.82	-2.55	8.40	-65.5	6.2
7,051.0	4.70	68.30	6,991.4	421.1	664.0	2.68	-2.55	7.34	-58.6	10.0
7,144.0	3.30	78.10	7,084.2	423.1	670.1	1.67	-1.51	10.54	-48.2	13.4
7,238.0	3.20	78.80	7,178.1	424.1	675.3	0.11	-0.11	0.74	-39.6	7.0
7,332.0	1.50	86.20	7,272.0	424.7	679.1	1.83	-1.81	7.87	-31.7	5.3
7,426.0	1.00	116.10	7,365.9	424.5	681.1	0.86	-0.53	31.81	-22.5	12.3
7,520.0	0.70	89.00	7,459.9	424.1	682.4	0.53	-0.32	-28.83	-21.7	-3.7
7,613.0	0.50	154.40	7,552.9	423.7	683.2	0.72	-0.22	70.32	-13.8	15.3
7,706.0	0.70	169.20	7,645.9	422.8	683.4	0.27	0.22	15.91	-10.7	17.8



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Survey

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7,800.0	0.60	172.00	7,739.9	421.8	683.6	0.11	-0.11	2.98	-10.9	18.3
7,893.0	0.60	201.10	7,832.9	420.8	683.5	0.32	0.00	31.29	-1.5	21.5
7,987.0	0.90	180.10	7,926.9	419.6	683.3	0.43	0.32	-22.34	-10.3	19.4
8,081.0	0.80	176.00	8,020.9	418.2	683.4	0.12	-0.11	-4.36	-13.1	18.5
8,269.0	0.90	175.10	8,208.9	415.5	683.6	0.05	0.05	-0.48	-16.2	18.3
8,363.0	0.80	187.80	8,302.9	414.1	683.6	0.23	-0.11	13.51	-13.1	21.5
8,457.0	1.10	182.50	8,396.9	412.5	683.4	0.33	0.32	-5.64	-16.6	20.2
8,550.0	1.50	178.10	8,489.8	410.4	683.4	0.44	0.43	-4.73	-20.2	18.6
8,644.0	1.60	184.40	8,583.8	407.9	683.4	0.21	0.11	6.70	-20.6	21.0
8,738.0	1.40	185.10	8,677.8	405.4	683.2	0.21	-0.21	0.74	-22.8	21.3
8,832.0	1.50	188.50	8,771.7	403.1	682.9	0.14	0.11	3.62	-23.8	22.7
8,926.0	1.30	207.50	8,865.7	400.9	682.2	0.53	-0.21	20.21	-17.4	28.6
9,020.0	1.00	227.50	8,959.7	399.4	681.1	0.53	-0.32	21.28	-8.0	34.1
9,113.0	1.10	320.50	9,052.7	399.5	680.0	1.64	0.11	100.00	33.6	7.1
9,208.0	1.20	328.90	9,145.7	401.1	678.9	0.21	0.11	9.03	32.5	2.2
9,303.0	1.00	354.10	9,332.6	404.4	677.7	0.28	-0.11	13.48	26.9	-11.0
9,487.0	0.60	296.40	9,426.6	405.4	677.2	0.90	-0.43	-61.38	22.7	16.2
9,580.0	1.60	246.30	9,519.6	405.1	675.6	1.40	1.08	-53.87	0.6	27.4
9,674.0	0.90	66.30	9,613.6	404.9	675.0	2.66	-0.74	181.49	0.0	-27.4
9,768.0	0.20	211.60	9,707.6	405.0	675.6	1.14	-0.74	154.69	-15.1	23.1
9,862.0	2.40	54.40	9,801.6	406.0	677.1	2.75	2.34	-167.55	3.3	-27.1
9,955.0	2.70	66.00	9,894.5	408.1	680.7	0.64	0.32	12.47	-6.3	-26.8
10,049.0	1.20	71.80	9,988.4	409.3	683.7	1.61	-1.60	6.17	-12.2	-25.8
10,143.0	1.70	244.20	10,082.4	409.0	683.4	3.08	0.53	183.40	8.3	27.4
10,237.0	0.50	211.20	10,176.4	408.0	681.9	1.39	-1.28	-35.11	-9.5	26.7
10,330.0	0.70	159.00	10,269.4	407.1	681.9	0.60	0.22	-56.13	-27.8	8.5
10,423.0	1.20	171.30	10,362.4	405.6	682.2	0.58	0.54	13.23	-26.6	14.3



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10,516.0	0.70	327.00	10,455.4	405.2	682.1	2.00	-0.54	167.42	30.7	-1.6		
10,609.0	1.10	358.80	10,548.3	406.5	681.7	0.67	0.43	34.19	23.8	-17.3		
10,703.0	1.10	319.80	10,642.3	408.1	681.1	0.78	0.00	-41.49	27.8	1.0		
10,797.0	1.40	287.10	10,736.3	409.1	679.5	0.81	0.32	-34.79	20.9	15.4		
10,891.0	1.10	306.30	10,830.3	410.0	677.6	0.54	-0.32	20.43	22.8	8.0		
10,985.0	0.80	291.00	10,924.3	410.8	676.2	0.35	-0.21	-16.28	18.3	13.5		
11,079.0	1.50	283.10	11,018.3	411.4	674.3	0.66	0.64	-8.40	14.3	15.8		
11,173.0	1.70	258.10	11,112.2	411.3	671.8	0.77	0.21	-26.60	3.8	18.9		
11,267.0	0.70	198.70	11,206.2	410.5	670.2	1.57	-1.06	-63.19	-16.5	12.1		
11,361.0	0.60	121.70	11,300.2	409.7	670.5	0.86	-0.11	-81.91	-16.2	-13.9		
11,455.0	0.50	155.40	11,394.2	409.1	671.0	0.35	-0.11	35.85	-22.0	-2.3		
11,549.0	0.80	107.50	11,488.2	408.5	671.9	0.72	0.43	-50.96	-14.0	-18.1		
11,643.0	0.70	59.50	11,582.2	408.6	673.1	0.72	-0.21	-51.06	3.0	-23.1		
11,667.0	0.70	64.60	11,606.2	408.7	673.4	0.26	0.00	21.25	0.7	-23.3		
11,777.0	1.00	1.60	11,716.2	408.9	674.0	0.84	0.27	-57.27	19.8	-10.6		
11,871.0	0.70	30.50	11,810.2	411.3	674.3	0.55	-0.32	30.74	10.9	-18.4		
11,964.0	0.50	189.70	11,903.2	411.3	674.5	1.27	-0.22	171.18	-16.6	13.5		
12,058.0	8.50	190.20	11,996.8	404.1	673.2	8.51	8.51	0.53	-22.9	13.5		
12,151.0	25.10	179.20	12,085.5	377.4	672.3	18.10	17.85	-11.83	-36.5	7.8		
12,245.0	31.90	177.10	12,168.1	332.6	673.8	7.31	7.23	-2.23	-47.8	7.3		
12,337.0	29.50	174.80	12,247.2	285.8	677.1	2.90	-2.61	-2.50	-42.8	9.5		
12,431.0	38.70	175.00	12,324.9	233.3	681.8	9.79	9.79	0.21	-23.3	15.4		
12,478.0	50.50	171.60	12,358.4	200.6	685.7	25.61	25.11	-7.23	-15.8	18.8		
12,525.0	59.30	178.00	12,385.4	162.5	689.8	20.22	18.72	9.36	-10.2	23.5		
12,618.0	73.10	180.40	12,422.8	77.6	692.3	15.45	14.84	4.73	-4.7	25.7		
12,685.0	81.30	182.70	12,433.2	31.9	691.0	18.09	17.45	4.89	-4.4	24.1		
12,712.0	84.80	181.60	12,438.9	-14.8	689.3	7.80	7.45	-2.34	-4.4	22.0		



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 28 State Corn
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3559.0usft
 MD Reference: KB = 25 @ 3559.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey												
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)		
12,805.0	91.40	181.30	12,442.0	-107.6	688.9	7.10	7.10	-0.32	-1.7	19.0		
12,898.0	91.50	182.90	12,439.6	-200.5	683.5	1.72	0.11	1.72	-2.9	14.9		
12,992.0	92.80	183.20	12,436.1	-294.3	678.5	1.42	1.38	0.32	-5.2	9.2		
13,086.0	90.60	178.30	12,433.3	-388.2	676.5	4.76	-2.34	-4.15	-6.8	6.5		
13,179.0	90.30	178.60	12,432.6	-481.2	678.2	0.82	-0.32	-0.75	-6.3	7.5		
13,269.0	89.50	177.80	12,432.7	-571.2	681.0	1.26	-0.89	-0.89	-5.0	9.7		
13,361.0	92.10	177.80	12,431.5	-663.1	684.5	2.83	2.83	0.00	-5.1	12.5		
13,454.0	91.70	178.10	12,428.4	-756.0	687.9	0.54	-0.43	0.32	-7.0	15.2		
13,549.0	90.30	178.80	12,428.7	-850.9	690.4	1.65	-1.47	0.74	-7.4	17.0		
13,643.0	90.80	178.30	12,425.6	-944.9	692.8	0.75	0.53	-0.53	-7.1	18.7		
13,737.0	90.60	180.40	12,424.7	-1,038.9	693.9	2.24	-0.21	2.23	-7.0	19.1		
13,831.0	88.00	179.20	12,425.8	-1,132.9	694.2	3.05	-2.77	-1.28	-4.6	18.7		
13,925.0	90.10	180.90	12,427.4	-1,226.8	694.1	2.87	2.23	1.81	-1.9	18.0		
14,019.0	90.70	179.90	12,426.7	-1,320.8	693.5	1.24	0.64	-1.06	-1.3	16.6		
14,112.0	91.10	179.90	12,425.3	-1,413.8	693.6	0.43	0.43	0.00	-1.6	16.1		
14,205.0	91.50	180.40	12,423.2	-1,506.8	693.4	0.69	0.43	0.54	-2.5	15.2		
14,300.0	91.50	181.10	12,420.7	-1,601.7	692.2	0.74	0.00	0.74	-3.8	13.2		
14,393.0	92.70	181.80	12,417.3	-1,694.7	689.8	1.49	1.29	0.75	-6.0	10.2		
14,487.0	89.90	180.60	12,415.1	-1,788.6	687.8	3.24	-2.98	-1.28	-6.9	7.5		
14,581.0	90.50	180.60	12,414.8	-1,882.6	686.8	0.64	0.64	0.00	-6.0	5.9		
14,675.0	91.50	180.90	12,413.2	-1,976.6	685.6	1.11	1.06	0.32	-6.6	3.9		
14,768.0	92.50	181.30	12,409.9	-2,069.5	683.6	1.16	1.06	0.43	-9.9	1.5		
14,862.0	91.90	181.60	12,406.3	-2,163.4	681.5	0.71	-0.64	0.32	-13.5	-1.6		
14,956.0	88.10	180.10	12,406.3	-2,257.4	680.1	4.35	-4.04	-1.60	-13.5	-3.7		
15,050.0	88.90	181.10	12,406.8	-2,351.3	679.1	1.36	0.85	1.06	-11.0	-5.4		
15,143.0	89.40	183.90	12,410.1	-2,444.2	675.0	3.06	0.54	3.01	-9.7	-10.1		
15,237.0	88.20	180.90	12,412.1	-2,538.1	671.1	3.44	-1.28	-3.19	-7.7	-14.7		



Midland PVA

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

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3559.0usft
 MD Reference: KB = 25 @ 3559.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
15,376.0	87.10	179.90	12,417.8	-2,677.0	670.1	1.07	-0.79	-0.72	-2.0	-16.7
15,425.0	85.40	179.50	12,421.0	-2,725.9	670.4	3.56	-3.47	-0.82	1.2	-16.8
15,519.0	89.30	176.50	12,425.4	-2,819.7	673.7	5.23	4.15	-3.19	5.5	-14.2
15,612.0	91.30	177.90	12,424.9	-2,912.6	678.2	2.63	2.15	1.51	5.0	-10.4
15,706.0	90.30	177.10	12,423.6	-3,006.5	682.3	1.38	-1.06	-0.85	3.7	-6.9
15,799.0	89.50	175.80	12,423.7	-3,099.3	688.1	1.64	-0.86	-1.40	3.8	-1.9
15,893.0	94.30	173.90	12,420.6	-3,192.8	698.5	5.49	5.11	-2.02	0.7	5.9
15,987.0	97.10	176.50	12,411.3	-3,286.0	704.3	4.06	2.98	2.77	-8.5	13.1
16,080.0	90.80	180.40	12,404.9	-3,378.7	706.8	7.96	-6.77	4.19	-15.1	14.8
16,174.0	86.80	178.60	12,406.8	-3,472.6	707.6	4.67	-4.26	-1.91	-13.1	15.0
16,268.0	92.30	181.30	12,407.6	-3,566.6	707.7	6.52	5.85	2.87	-12.4	14.3
16,362.0	91.00	180.80	12,404.9	-3,660.5	709.0	1.48	-1.38	-0.53	-15.1	11.9
16,455.0	90.60	181.30	12,403.6	-3,753.5	704.3	0.69	-0.43	0.54	-16.4	9.5
16,549.0	88.50	181.10	12,405.9	-3,847.4	702.3	4.37	-4.36	-0.21	-14.0	6.9
16,643.0	89.50	182.30	12,409.2	-3,941.3	699.5	3.44	3.19	1.28	-10.8	3.4
16,736.0	88.10	182.20	12,411.2	-4,034.2	695.9	1.51	-1.51	-0.11	-9.8	-0.8
16,830.0	88.10	181.30	12,414.3	-4,128.1	693.0	0.96	0.00	-0.96	-8.1	-4.5
16,924.0	88.40	179.30	12,417.2	-4,222.1	692.5	2.15	0.32	-2.13	-6.6	-5.7
17,018.0	89.00	177.80	12,419.3	-4,316.0	694.9	1.72	0.64	-1.60	-5.9	-4.0
17,111.0	90.40	179.70	12,419.8	-4,409.0	696.9	2.54	1.51	2.04	-6.8	-2.6
17,204.0	88.70	180.40	12,420.5	-4,502.0	696.8	1.98	-1.83	0.75	-7.5	-3.4
17,298.0	86.80	180.60	12,424.2	-4,595.9	696.0	2.03	-2.02	0.21	-5.2	-4.9
17,392.0	88.60	180.10	12,427.8	-4,689.8	695.4	2.19	2.13	-0.53	-3.0	-6.2
17,485.0	90.80	181.30	12,428.1	-4,782.8	694.3	2.51	2.15	1.29	-4.1	-8.0
17,578.0	91.60	180.10	12,426.2	-4,875.8	693.2	1.55	0.88	-1.29	-7.5	-9.8
17,671.0	91.80	180.40	12,423.4	-4,968.7	692.6	0.39	0.22	0.32	-11.6	-10.9
17,765.0	89.50	179.20	12,422.4	-5,062.7	693.1	2.76	-2.45	-1.28	-14.1	-11.3



Midland PVA

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 Project: Lea County, NM (NAD 83 NME)
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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
17,858.0	87.80	178.00	12,424.6	-5,155.6	697.0	3.90	-1.83	-3.44	-13.3	-8.0
17,952.0	88.00	177.20	12,428.0	-5,248.4	702.6	1.29	0.21	1.28	-11.3	-3.2
18,047.0	87.80	177.40	12,431.5	-5,344.2	707.0	0.30	-0.21	0.21	-9.2	0.6
18,140.0	90.00	179.30	12,433.3	-5,437.1	709.7	3.13	2.37	2.04	-8.9	2.6
18,234.0	89.50	179.00	12,433.7	-5,531.1	711.1	0.62	-0.53	-0.32	-9.9	3.3
18,328.0	89.90	178.80	12,434.2	-5,625.1	712.9	0.48	0.43	-0.21	-10.8	4.4
18,422.0	90.20	178.10	12,434.1	-5,718.1	715.5	0.81	0.32	-0.74	-12.3	6.3
18,516.0	90.80	177.40	12,433.3	-5,813.0	719.1	0.98	0.64	-0.74	-14.5	9.3
18,610.0	89.00	179.30	12,433.4	-5,907.0	721.8	2.78	-1.91	2.02	-15.8	11.3
18,705.0	88.40	179.50	12,435.6	-6,001.9	722.8	0.67	-0.63	0.21	-14.8	11.6
18,798.0	87.70	180.10	12,438.7	-6,094.9	723.2	0.99	-0.75	0.65	-12.3	11.2
18,893.0	90.10	178.30	12,440.6	-6,189.8	724.5	3.16	2.53	-1.89	-11.2	11.9
18,987.0	89.00	176.90	12,441.3	-6,283.7	728.4	1.89	-1.17	-1.49	-11.1	15.1
19,081.0	89.70	179.70	12,442.4	-6,377.7	731.2	3.07	0.74	2.98	-10.7	17.2
19,175.0	89.30	179.20	12,443.2	-6,471.7	732.1	0.68	-0.43	-0.53	-10.6	17.4
19,268.0	89.30	179.30	12,444.3	-6,564.7	733.3	0.11	0.00	0.11	-10.1	18.0
19,362.0	89.20	179.50	12,445.6	-6,658.7	734.3	0.24	-0.11	0.21	-9.6	18.2
19,456.0	87.90	180.20	12,447.9	-6,752.6	734.6	1.57	-1.38	0.74	-7.9	17.8
19,549.0	90.10	181.50	12,449.6	-6,845.6	733.2	2.75	2.37	1.40	-6.9	15.7
19,642.0	90.30	181.60	12,449.2	-6,938.6	730.7	0.24	0.22	0.11	-7.9	12.5
19,735.0	91.40	181.80	12,447.9	-7,031.5	727.9	1.20	1.18	0.22	-10.0	9.1
19,828.0	89.00	182.30	12,447.5	-7,124.4	724.6	2.64	-2.58	0.54	-11.0	5.1
19,922.0	90.40	183.00	12,448.0	-7,218.3	720.2	1.67	1.49	0.74	-11.2	0.1
20,033.0	90.40	183.00	12,447.3	-7,329.2	714.4	0.00	0.00	0.00	-12.8	-6.6



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Bandit 29 State Corn
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3569.0usft
MD Reference: KB = 25 @ 3559.0usft
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)	
12,000.0	11,939.1	410.1	674.3	KOP, MD:12000.0', TVD:11939.1', N/S:410.1', E/W:674.3', INC:3.58
12,144.8	12,079.9	380.0	672.3	FTP Crossing, MD:12144.8', TVD:12079.9', N/S:380.0', E/W:672.3', INC:23.98
19,922.0	12,448.0	-7,218.3	720.2	Last MWD Survey (MD=19922.0')
20,033.0	12,447.3	-7,329.2	714.4	Projection to Bit (MD=20033.0')

Checked By: _____ Approved By: _____ Date: _____



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

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#703H

Plan #1

To convert a Magnetic Direction to a Grid Direction, Add 6.38°
To convert a Magnetic Direction to a True Direction, Add 6.77° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

WELL DETAILS: #703H

+N/-S	+E/-W	Northing	KB = 25 @ 3559.0usft	Longitude	Slot
0.0	0.0	435314.00	Easting	103° 35' 35.775 W	
			Latitude	32° 11' 40.524 N	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1500.0	6.00	63.00	1499.5	7.1	14.0	2.00	83.00	-5.7	
4	4879.1	6.00	63.00	4860.0	167.5	328.7	0.00	0.00	-134.5	
5	5082.8	9.78	51.66	5061.6	183.0	351.7	2.00	-28.07	-147.7	
6	7180.8	9.78	51.66	7129.3	404.2	831.3	0.00	0.00	-340.4	
7	7669.9	0.00	0.00	7616.0	430.0	664.0	2.00	180.00	-362.9	Brushy Top(Bandit 29 St Com #703H)
8	12020.9	0.00	0.00	11967.0	430.0	664.0	0.00	0.00	-362.9	
9	12777.1	90.74	179.58	12444.4	-53.6	687.0	12.00	179.58	118.7	TGT#1(Bandit 29 St Com #703H)
10	14866.2	90.74	179.58	12420.0	-1942.6	681.4	0.00	0.00	2000.0	TGT#2(Bandit 29 St Com #703H)
11	14703.6	89.99	179.58	12419.8	-1980.0	681.7	2.00	-180.00	2037.2	TGT#3(Bandit 29 St Com #703H)
12	16674.5	89.99	179.58	12420.0	-3950.8	696.2	0.00	0.00	4000.0	
13	16717.4	89.13	179.58	12420.3	-3993.7	696.5	2.00	180.00	4042.7	
14	18883.0	89.13	179.58	12450.0	-5959.0	710.9	0.00	0.00	6000.0	
15	18705.5	89.59	179.58	12450.3	-5981.5	711.1	2.00	0.00	6022.4	
16	20053.1	89.59	179.58	12480.0	-7329.0	721.0	0.00	0.00	7364.4	PBHL(Bandit 29 St Com #703H)

WELLBORE (ARCADE) DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Brushy Top(Bandit 29 St Com #703H)	7616.0	430.0	664.0	435744.00	770229.00	Polygon
TGT#1(Bandit 29 St Com #703H)	12420.0	-1942.6	681.4	435371.40	770344.43	Point
TGT#2(Bandit 29 St Com #703H)	12420.0	-3950.8	696.2	431363.20	770361.18	Point
TGT#3(Bandit 29 St Com #703H)	12450.0	-5959.0	710.9	435934.00	770229.00	Point
PBHL(Bandit 29 St Com #703H)	12480.0	-7329.0	721.0	427925.00	770365.00	Rectangle (Sides: L0.0 W60.0)

