

HOBBS OCD
OCT 18 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#702H

OH

Design: OH

Midland PVA

12 June, 2019



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 29 State Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3554.0usft
 MD Reference: KB = 25 @ 3554.0usft
 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	Spot Radius:	13-3/16 "
		Latitude:	32° 11' 41.017 N
		Longitude:	103° 35' 18.930 W
		Grid Convergence:	0.40 "

Well	#702H		
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' 40.847 N
		Longitude:	103° 35' 13.207 W
		Ground Level:	3,529.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	3/12/2019	6.77
			Dip Angle
			60.01
			Field Strength
			47,740.06289818

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
			(°)
			184.33

Survey Program	Date 6/12/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
196.0	19,947.0	Intrepid MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buidl (°/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
196.0	0.70	262.70	196.0	-0.2	-1.2	0.36	0.36	0.00	-1.2	0.0
312.0	1.41	275.01	312.0	-0.1	-3.3	0.64	0.61	10.61	-3.3	0.4
400.0	2.59	271.67	399.9	0.0	-6.4	1.35	1.34	-3.80	-6.4	0.2
488.0	3.16	273.69	487.8	0.2	-10.8	0.66	0.65	2.30	-10.8	0.4
671.0	3.16	290.47	670.5	2.3	-20.5	0.50	0.00	9.17	-20.1	5.0
855.0	4.26	321.24	854.2	9.4	-29.6	1.21	0.60	16.72	-25.9	17.2
947.0	4.75	348.39	945.9	15.8	-32.5	2.35	0.53	29.51	-22.0	28.7
1,039.0	2.33	351.38	1,037.7	21.4	-33.5	2.64	-2.63	3.25	-26.2	30.0
1,224.0	1.76	257.52	1,222.6	24.5	-36.9	1.63	-0.31	-50.74	-30.7	-31.9
1,266.0	2.55	255.10	1,264.6	24.1	-38.4	1.89	1.88	-5.76	-30.9	-33.2
1,395.0	2.55	264.33	1,393.5	23.1	-44.0	0.32	0.00	7.16	-40.3	-26.5
1,487.0	2.86	275.14	1,485.4	23.1	-48.4	0.65	0.34	11.75	-44.7	-16.1
1,585.0	4.48	298.08	1,583.2	25.1	-54.2	2.20	1.65	23.41	-45.4	3.7
1,680.0	5.49	303.44	1,677.8	29.4	-61.2	1.17	1.06	5.64	-42.0	7.4
1,775.0	5.27	304.50	1,772.4	34.4	-68.6	0.25	-0.23	1.12	-38.3	7.2
1,870.0	6.51	303.62	1,866.9	39.8	-76.7	1.31	1.31	-0.93	-35.7	5.6
1,965.0	7.56	305.64	1,961.2	46.4	-88.3	1.14	1.11	2.13	-34.6	5.7
2,060.0	7.43	308.19	2,055.4	53.9	-96.2	0.38	-0.14	2.68	-34.4	5.6
2,155.0	7.12	311.53	2,149.6	61.6	-105.4	0.55	-0.33	3.52	-33.8	5.3
2,250.0	6.99	312.49	2,243.9	69.4	-114.1	0.18	-0.14	1.01	-33.2	3.2
2,345.0	6.77	313.46	2,338.2	77.2	-122.4	0.26	-0.23	1.02	-32.4	0.8
2,440.0	7.21	311.53	2,432.5	85.0	-130.9	0.52	0.46	-2.03	-31.8	-3.0
2,535.0	8.57	306.16	2,526.6	93.1	-141.1	1.63	1.43	-5.65	-32.0	-8.0
2,631.0	8.53	306.25	2,621.5	101.5	-152.6	0.04	-0.04	0.09	-33.7	-9.4
2,726.0	8.40	307.31	2,715.5	109.9	-163.8	0.21	-0.14	1.12	-35.5	-10.4
2,821.0	8.26	307.83	2,809.5	118.3	-174.7	0.17	-0.15	0.55	-37.1	-11.8



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2,916.0	8.04	308.27	2,903.5	128.6	-185.3	0.24	-0.23	0.46	-38.3	-13.4
3,011.0	8.00	310.03	2,997.6	134.9	-195.6	0.26	-0.04	1.85	-39.7	-14.3
3,106.0	7.96	312.84	3,091.7	143.7	-205.5	0.41	-0.04	2.96	-41.3	-14.9
3,202.0	7.91	313.37	3,186.8	152.7	-215.2	0.09	-0.05	0.55	-42.5	-17.5
3,297.0	7.69	315.13	3,280.9	161.7	-224.4	0.34	-0.23	1.85	-43.9	-19.4
3,392.0	7.03	318.38	3,375.1	170.6	-232.8	0.82	-0.69	3.42	-45.2	-20.5
3,487.0	6.68	316.45	3,469.4	178.9	-240.4	0.44	-0.37	-2.03	-43.9	-25.9
3,582.0	7.03	304.23	3,563.7	186.2	-249.0	1.58	0.37	-12.86	-36.3	-36.8
3,677.0	6.29	299.92	3,658.1	192.1	-258.4	0.94	-0.78	-4.54	-31.9	-39.9
3,772.0	5.58	298.78	3,752.6	196.9	-266.9	0.76	-0.75	-1.20	-28.4	-40.5
3,868.0	6.33	292.98	3,848.1	201.2	-275.9	1.00	0.78	-6.04	-21.6	-42.2
3,963.0	7.43	295.71	3,942.4	205.9	-286.2	1.21	1.16	2.87	-22.5	-40.0
4,058.0	6.66	295.88	4,036.6	211.0	-296.9	0.60	-0.60	0.18	-22.0	-39.2
4,153.0	6.29	291.75	4,131.0	215.5	-308.8	0.78	-0.60	-4.35	-17.6	-39.4
4,248.0	5.98	288.15	4,225.5	218.9	-316.4	0.52	-0.33	-3.79	-13.0	-38.3
4,343.0	5.19	295.62	4,320.0	222.3	-324.9	1.13	-0.83	7.86	-14.5	-34.8
4,438.0	3.60	294.83	4,414.7	225.4	-331.5	1.67	-1.67	-0.83	-8.8	-34.0
4,534.0	6.46	298.43	4,510.4	229.3	-339.0	3.00	2.98	3.75	-6.7	-33.0
4,629.0	5.54	302.12	4,604.8	234.3	-347.6	1.05	-0.97	3.88	-6.3	-32.7
4,724.0	5.71	311.35	4,699.4	239.8	-355.0	0.97	0.18	9.72	-8.4	-33.1
4,819.0	4.84	314.34	4,794.0	245.7	-361.4	0.96	-0.92	3.15	-6.8	-35.6
4,914.0	6.77	310.58	4,888.5	252.2	-368.5	2.07	2.03	-3.98	-1.7	-38.7
5,010.0	8.70	305.11	4,983.6	260.0	-378.8	2.15	2.01	-5.68	1.6	-40.4
5,105.0	7.96	305.11	5,077.6	268.0	-390.0	0.78	-0.78	0.00	0.2	-41.7
5,200.0	7.52	304.41	5,171.8	275.2	-400.6	0.47	-0.46	-0.74	0.4	-42.8
5,295.0	7.60	304.32	5,265.9	282.3	-410.9	0.09	0.08	-0.09	0.4	-43.9
5,390.0	7.65	305.11	5,360.1	289.5	-421.2	0.12	0.05	0.83	-0.4	-45.0



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5,485.0	7.47	304.85	5,454.3	296.6	-431.5	0.19	-0.19	-0.27	-0.3	-46.2
5,580.0	7.30	305.02	5,548.5	303.6	-441.5	0.18	-0.18	0.18	-0.2	-47.4
5,676.0	7.08	304.23	5,643.7	310.5	-451.4	0.25	-0.23	-0.82	1.0	-48.5
5,770.0	7.52	304.32	5,737.0	317.2	-461.2	0.47	0.47	0.10	1.3	-49.6
5,866.0	7.60	304.41	5,832.1	324.3	-471.7	0.08	0.08	0.09	1.2	-50.7
5,961.0	7.82	298.50	5,926.3	330.8	-482.6	1.14	0.23	-8.33	7.9	-50.2
6,056.0	7.91	292.37	6,020.4	336.1	-494.5	0.60	0.09	-4.35	10.8	-48.5
6,247.0	7.47	291.40	6,209.7	345.7	-518.2	0.24	-0.23	-0.51	10.9	-45.0
6,342.0	7.12	290.34	6,303.9	350.0	-529.4	0.39	-0.37	-1.12	12.0	-42.9
6,436.0	7.25	289.29	6,397.1	353.9	-540.5	0.20	0.14	-1.12	13.2	-40.6
6,531.0	7.52	288.76	6,491.4	357.9	-552.0	0.29	0.28	-0.56	13.6	-38.2
6,626.0	7.91	288.50	6,585.5	362.0	-564.1	0.41	0.41	-0.27	13.3	-35.8
6,721.0	8.04	288.21	6,679.6	365.9	-576.7	0.36	0.14	-2.41	13.7	-32.7
6,816.0	7.87	284.98	6,773.7	369.5	-589.4	0.25	-0.18	-1.29	13.3	-29.4
6,911.0	7.74	285.42	6,867.8	372.8	-601.8	0.15	-0.14	0.46	12.3	-26.4
7,006.0	6.68	290.08	6,962.0	376.4	-613.2	1.27	-1.12	4.91	10.6	-24.7
7,101.0	6.02	292.19	7,056.5	380.2	-623.0	0.74	-0.69	2.22	11.6	-23.3
7,197.0	4.62	290.34	7,152.0	383.5	-631.3	1.47	-1.46	-1.93	15.9	-21.1
7,292.0	3.56	294.65	7,246.8	386.0	-637.5	1.16	-1.12	4.54	19.9	-20.9
7,386.0	3.08	291.58	7,340.6	388.2	-642.5	0.54	-0.51	-3.27	26.1	-18.5
7,481.0	3.21	291.58	7,435.5	390.1	-647.4	0.14	0.14	0.00	28.3	-17.5
7,576.0	1.19	296.58	7,530.4	391.5	-650.7	2.13	-2.13	5.26	27.4	-19.4
7,671.0	0.75	288.32	7,625.4	392.1	-652.2	0.48	-0.46	-8.69	29.5	-15.2
7,766.0	0.97	274.70	7,720.4	392.4	-653.6	0.31	0.23	-14.34	30.8	-8.0
7,861.0	1.01	250.53	7,815.4	392.2	-655.2	0.44	0.04	-25.44	29.8	5.0
7,955.0	1.41	225.92	7,909.4	391.1	-656.8	0.69	0.43	-26.18	23.1	16.7
8,050.0	1.41	227.41	8,004.3	389.5	-658.5	0.04	0.00	1.57	21.2	16.1



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8,145.0	1.27	220.47	8,099.3	387.9	-660.1	0.23	-0.15	-7.31	16.9	18.4	
8,240.0	1.49	213.00	8,194.3	386.1	-661.4	0.30	0.23	-7.86	12.1	20.3	
8,335.0	1.54	221.00	8,289.2	384.1	-662.9	0.23	0.05	8.42	12.3	18.6	
8,430.0	1.67	218.89	8,384.2	382.0	-664.6	0.15	0.14	-2.22	8.9	19.0	
8,525.0	1.76	219.24	8,479.2	379.8	-666.4	0.10	0.09	0.37	6.2	18.9	
8,621.0	1.23	275.23	8,575.1	378.8	-668.4	1.54	-0.55	58.32	17.3	6.7	
8,716.0	1.41	274.26	8,670.1	379.0	-670.6	0.19	0.19	-1.02	15.0	6.9	
8,811.0	1.23	269.51	8,765.1	379.0	-672.7	0.22	-0.19	-5.00	12.2	8.1	
8,908.0	1.14	281.43	8,860.1	378.9	-674.7	0.20	-0.09	-8.51	9.0	9.6	
9,001.0	1.19	256.07	8,955.0	378.5	-676.6	0.13	0.05	-5.64	6.1	10.3	
9,096.0	1.19	256.95	9,050.0	378.1	-678.5	0.02	0.00	0.83	4.3	10.2	
9,192.0	1.10	247.98	9,146.0	377.5	-680.3	0.21	-0.09	-9.34	0.8	10.6	
9,288.0	1.14	233.30	9,240.0	376.6	-681.9	0.31	0.04	-15.62	-3.8	10.2	
9,382.0	1.27	227.94	9,336.0	375.3	-683.5	0.18	0.14	-5.58	-6.7	9.7	
9,477.0	0.70	223.02	9,430.9	374.2	-684.7	0.61	-0.60	-5.18	-9.1	9.0	
9,572.0	0.62	248.51	9,525.9	373.6	-685.5	0.32	-0.08	26.83	-5.4	12.3	
9,666.0	1.14	255.01	9,619.9	373.1	-686.9	0.56	0.55	6.91	-5.4	12.9	
9,761.0	1.36	245.78	9,714.9	372.4	-688.8	0.31	0.23	-9.72	-9.5	11.7	
9,856.0	0.97	224.25	9,809.9	371.4	-690.4	0.61	-0.41	-22.66	-15.0	7.0	
9,951.0	1.45	224.78	9,904.9	370.0	-691.8	0.51	0.51	0.56	-16.9	7.1	
10,046.0	1.49	217.75	9,999.8	368.1	-693.4	0.19	0.04	-7.40	-20.1	4.9	
10,140.0	1.98	210.72	10,093.8	365.8	-695.0	0.57	0.52	-7.48	-23.4	2.2	
10,235.0	0.84	323.92	10,188.8	364.9	-696.3	2.56	-1.20	119.16	11.2	22.1	
10,330.0	0.75	346.95	10,283.8	366.1	-696.8	0.35	-0.09	24.24	17.7	16.2	
10,425.0	0.26	95.49	10,378.8	366.7	-696.7	0.91	-0.52	114.25	9.7	-21.4	
10,520.0	0.44	73.61	10,473.8	366.8	-696.2	0.23	0.19	-23.03	16.4	-16.3	
10,615.0	0.68	107.80	10,568.8	366.6	-695.1	0.60	0.46	35.99	3.4	-22.5	



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10,710.0	1.14	138.36	10,663.7	365.7	-693.8	0.59	0.27	30.06	-9.3	-21.0
10,805.0	0.40	51.19	10,758.7	365.3	-692.9	1.24	-0.78	-69.65	19.8	-12.0
10,900.0	0.44	87.41	10,853.7	365.5	-692.3	0.28	0.04	38.13	8.2	-21.2
10,995.0	0.92	114.65	10,948.7	365.2	-691.2	0.60	0.51	28.67	-3.5	-22.4
11,090.0	0.66	99.62	11,043.7	364.8	-690.0	0.35	-0.27	-15.82	1.2	-22.8
11,185.0	0.57	94.28	11,138.7	364.6	-689.0	0.11	-0.09	-5.64	2.3	-22.8
11,280.0	0.48	115.27	11,233.7	364.4	-688.1	0.22	-0.09	22.12	-6.8	-21.7
11,374.0	0.97	117.38	11,327.7	363.9	-687.1	0.52	0.52	2.24	-8.8	-21.5
11,470.0	0.18	135.13	11,423.7	363.4	-686.2	0.83	-0.82	18.49	-15.8	-17.5
11,565.0	1.01	62.62	11,518.7	363.7	-685.4	1.02	0.87	-76.33	11.1	-20.5
11,660.0	1.41	105.60	11,613.7	363.8	-683.5	1.01	0.42	45.24	-7.7	-22.0
11,754.0	1.71	122.12	11,707.6	362.7	-681.2	0.57	0.32	17.57	-16.1	-18.6
11,829.0	1.80	150.16	11,782.6	361.1	-679.7	1.14	0.12	37.39	-25.1	-8.3
11,900.0	2.02	150.86	11,853.6	359.0	-678.5	0.31	0.31	0.89	-27.6	-8.0
11,994.0	7.87	169.41	11,947.2	351.3	-676.5	6.37	6.22	19.73	-36.7	1.8
12,089.0	22.07	168.18	12,038.7	327.3	-671.6	14.95	14.95	-1.29	-55.4	1.4
12,183.0	29.41	179.08	12,123.4	286.8	-667.7	9.26	7.81	11.60	-70.1	11.9
12,278.0	40.26	177.05	12,201.2	232.7	-665.7	11.48	11.42	-2.14	-80.2	4.7
12,373.0	47.21	176.53	12,269.8	187.2	-662.0	7.33	7.32	-0.55	-82.0	-1.2
12,468.0	58.95	168.70	12,328.9	92.1	-651.9	13.99	12.36	-8.24	-76.1	-6.4
12,562.0	69.36	170.37	12,367.8	9.0	-636.6	11.19	11.07	1.78	-66.9	0.3
12,657.0	80.66	172.92	12,392.3	-81.6	-623.3	12.17	11.89	2.68	-53.8	2.8
12,752.0	88.29	174.59	12,403.1	-175.4	-613.1	6.18	5.93	1.76	-42.1	3.2
12,847.0	88.57	179.78	12,407.4	-270.1	-608.4	5.96	2.40	5.46	-36.9	2.5
12,941.0	88.57	179.18	12,409.7	-364.1	-607.5	0.66	0.00	-0.68	-33.5	2.1
13,037.0	87.30	178.46	12,413.2	-460.0	-605.6	1.51	-1.32	-0.73	-29.1	3.4
13,131.0	92.35	178.64	12,413.5	-554.0	-603.2	5.38	5.37	0.19	-27.8	5.1



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bandit 29 State Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3554.0usft
 MD Reference: KB = 25 @ 3554.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
13,226.0	87.08	179.78	12,413.9	-648.9	-601.9	5.68	-5.55	1.20	-26.3	5.8
13,321.0	87.60	180.75	12,418.3	-743.8	-602.3	1.16	0.55	1.02	-20.9	4.6
13,416.0	87.21	180.75	12,422.7	-838.7	-603.5	0.41	-0.41	0.00	-15.8	2.7
13,532.0	89.10	178.90	12,426.4	-954.8	-603.2	2.28	1.63	-1.59	-10.7	2.2
13,627.0	91.08	179.43	12,426.2	-1,049.6	-601.8	2.16	2.08	0.56	-9.8	2.9
13,721.0	91.91	179.51	12,423.8	-1,143.6	-600.9	0.89	0.88	0.09	-11.8	3.1
13,816.0	90.73	179.95	12,421.6	-1,238.6	-600.5	1.33	-1.24	0.46	-13.1	2.8
13,911.0	90.73	180.83	12,420.4	-1,333.5	-601.1	0.93	0.00	0.93	-13.6	1.5
14,006.0	90.55	180.13	12,419.3	-1,428.5	-601.9	0.76	-0.19	-0.74	-13.9	0.0
14,101.0	90.95	179.34	12,418.1	-1,523.5	-601.5	0.93	0.42	-0.83	-14.5	-0.3
14,196.0	90.59	179.08	12,416.8	-1,618.5	-600.2	0.47	-0.38	-0.27	-15.0	0.3
14,291.0	90.46	179.87	12,415.9	-1,713.5	-599.3	0.84	-0.14	0.83	-15.2	0.5
14,386.0	90.90	179.60	12,414.8	-1,808.5	-598.9	0.54	0.46	-0.28	-15.6	0.2
14,481.0	92.00	180.22	12,412.4	-1,903.5	-598.7	1.33	1.16	0.65	-17.3	-0.3
14,576.0	92.22	181.98	12,408.9	-1,998.4	-600.5	1.87	0.23	1.85	-20.1	-2.9
14,671.0	90.33	180.39	12,406.8	-2,093.3	-602.5	2.60	-1.99	-1.67	-21.6	-5.5
14,766.0	90.24	180.04	12,406.3	-2,188.3	-602.9	0.38	-0.09	-0.37	-21.3	-6.6
14,860.0	89.63	179.60	12,406.4	-2,282.3	-602.6	0.80	-0.65	-0.47	-20.5	-7.0
14,955.0	89.98	179.34	12,406.7	-2,377.3	-601.7	0.46	0.37	-0.27	-19.5	-6.8
15,050.0	88.70	177.76	12,407.8	-2,472.3	-599.3	2.14	-1.35	-1.66	-17.8	-5.1
15,145.0	87.86	177.23	12,410.6	-2,567.1	-595.1	0.96	-0.78	-0.56	-14.6	-1.6
15,240.0	90.51	176.79	12,411.9	-2,662.0	-590.2	2.72	2.68	-0.48	-12.9	2.6
15,335.0	92.35	177.93	12,409.5	-2,756.9	-585.8	2.28	1.94	1.20	-14.7	6.3
15,430.0	92.26	178.28	12,405.7	-2,851.7	-582.7	0.38	-0.09	0.37	-18.1	8.7
15,525.0	93.67	177.23	12,400.8	-2,946.5	-579.0	1.85	1.48	-1.11	-22.5	11.8
15,620.0	88.70	177.67	12,398.8	-3,041.4	-574.7	5.25	-5.23	0.46	-24.0	15.3
15,715.0	86.99	178.90	12,402.4	-3,136.3	-571.9	2.22	-1.80	1.29	-20.0	17.4



Midland PVA

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 Design: OH

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 TVD Reference: KB = 25 @ 3554.0usft
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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)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,810.0	87.21	181.36	12,407.2	-3,231.1	-572.1	2.60	0.23	2.59	-14.7	16.5
15,904.0	87.16	181.54	12,411.8	-3,325.0	-574.5	0.20	-0.05	0.19	-9.6	13.4
15,999.0	91.69	184.44	12,412.8	-3,419.8	-579.4	5.66	4.77	3.05	-8.2	7.7
16,094.0	90.55	182.15	12,410.9	-3,514.6	-584.9	2.69	-1.20	-2.41	-10.6	1.6
16,189.0	90.20	180.68	12,410.3	-3,609.8	-587.2	1.61	-0.37	-1.57	-11.7	-1.4
16,284.0	88.44	180.48	12,411.4	-3,704.8	-588.2	1.86	-1.85	-0.19	-11.2	-3.1
16,379.0	86.77	179.87	12,415.4	-3,799.5	-588.5	1.87	-1.76	-0.64	-7.7	-4.1
16,474.0	88.66	180.31	12,419.2	-3,894.4	-588.6	2.04	1.99	0.46	-4.5	-4.9
16,569.0	90.42	180.66	12,419.9	-3,989.4	-589.4	1.89	1.85	0.37	-4.3	-6.4
16,664.0	92.53	180.83	12,417.5	-4,084.4	-590.6	2.23	2.22	0.18	-7.3	-8.4
16,758.0	92.09	181.27	12,413.7	-4,178.3	-592.4	0.66	-0.47	0.47	-11.6	-10.8
16,853.0	92.44	181.27	12,409.9	-4,273.2	-594.5	0.37	0.37	0.00	-15.9	-13.6
16,948.0	84.92	177.32	12,412.1	-4,368.1	-593.3	8.94	-7.92	-4.16	-14.6	-13.2
17,043.0	86.42	178.02	12,419.3	-4,462.7	-589.5	1.74	1.58	0.74	-8.5	-10.0
17,138.0	88.44	177.32	12,423.6	-4,557.5	-585.6	2.25	2.13	-0.74	-5.3	-6.8
17,233.0	89.49	177.93	12,425.3	-4,652.4	-581.7	1.28	1.11	0.64	-4.6	-3.6
17,327.0	88.26	177.58	12,427.1	-4,746.3	-578.0	1.36	-1.31	-0.37	-3.8	-0.6
17,423.0	89.10	178.46	12,429.3	-4,842.2	-574.7	1.27	0.87	0.92	-2.6	2.0
17,517.0	92.22	179.60	12,428.2	-4,936.2	-573.1	3.53	3.32	1.21	-4.7	2.9
17,613.0	90.46	178.02	12,426.0	-5,032.2	-571.1	2.46	-1.83	-1.65	-8.1	4.2
17,708.0	89.93	177.05	12,425.7	-5,127.1	-567.0	1.16	-0.56	-1.02	-9.4	7.8
17,803.0	86.15	176.44	12,428.9	-5,221.8	-561.6	4.03	-3.98	-0.64	-7.2	12.3
17,897.0	89.05	176.35	12,432.9	-5,315.8	-555.7	3.09	3.09	-0.10	-4.1	17.5
17,992.0	88.40	178.11	12,435.0	-5,410.4	-551.1	1.97	-0.68	1.85	-2.8	21.4
18,087.0	90.33	178.90	12,436.0	-5,505.4	-548.6	2.20	2.03	0.83	-2.5	23.2
18,182.0	88.66	178.20	12,436.9	-5,600.3	-546.2	1.91	-1.76	-0.74	-2.5	24.9
18,277.0	88.79	183.12	12,439.0	-5,695.3	-547.3	5.18	0.14	5.18	-1.2	23.1



Midland PVA

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 TVD Reference: KB = 25 @ 3554.0usft
 MD Reference: KB = 25 @ 3554.0usft
 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)
18,372.0	91.78	186.37	12,438.5	-5,789.9	-555.2	4.65	3.15	3.42	-2.6	14.5
18,467.0	91.69	181.82	12,435.6	-5,884.6	-561.8	5.00	-0.09	-5.00	-8.2	7.2
18,562.0	88.37	180.68	12,437.2	-5,979.6	-563.7	5.69	-5.60	-1.01	-5.4	4.6
18,657.0	87.87	181.10	12,442.0	-6,074.4	-565.1	1.65	1.58	0.46	-1.4	2.4
18,752.0	90.07	182.15	12,443.7	-6,169.4	-567.8	2.57	2.32	1.11	-0.5	-1.0
18,847.0	89.05	181.10	12,444.5	-6,264.3	-570.5	1.54	-1.07	-1.11	-0.6	-4.3
18,942.0	90.51	181.10	12,444.8	-6,359.3	-572.3	1.54	1.54	0.00	-1.1	-6.9
19,037.0	94.64	189.45	12,440.5	-6,453.7	-581.1	9.80	4.35	8.79	-5.9	-16.3
19,132.0	89.89	185.93	12,436.8	-6,547.7	-593.7	8.22	-5.00	-3.71	-10.5	-29.6
19,227.0	87.74	181.98	12,438.8	-6,642.5	-600.3	4.73	-2.26	-4.16	-9.2	-36.9
19,322.0	84.44	177.05	12,445.2	-6,737.2	-599.5	6.23	-3.47	-5.19	-3.2	-36.8
19,417.0	85.80	179.25	12,453.3	-6,831.8	-596.4	2.72	1.43	2.32	4.1	-34.5
19,511.0	85.76	177.49	12,460.2	-6,925.5	-593.8	1.87	-0.04	-1.87	10.4	-32.5
19,606.0	89.05	174.86	12,464.5	-7,020.2	-587.5	4.43	3.46	-2.77	14.1	-26.8
19,701.0	87.69	173.80	12,467.2	-7,114.7	-578.1	1.81	-1.43	-1.12	16.1	-18.1
19,748.0	87.69	173.54	12,469.1	-7,161.3	-572.9	0.55	0.00	-0.55	17.7	-13.3
19,878.0	87.69	173.54	12,474.4	-7,280.4	-558.3	0.00	0.00	0.00	21.9	0.3
19,947.0	87.69	173.54	12,477.2	-7,358.9	-550.5	0.00	0.00	0.00	24.2	7.6

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,957.0	11,910.4	355.5	-677.4	KOP, MD:11957.0', TVD:11910.4', N/S:355.5', EW:-677.4', INC:5.53
12,060.2	12,011.6	336.9	-673.6	FTP Crossing, MD:12060.2', TVD:12011.6', N/S:336.9', EW:-673.6', INC:17.78
19,878.0	12,474.4	-7,280.4	-558.3	Lost MWD Survey (MD=19878.0')
19,947.0	12,477.2	-7,358.9	-550.5	Projection to Bit (MD=19947.0')



Midland PVA

Company: EOG Resources - Midland
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Wellbore: OH
Design: OH

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TVD Reference: KB = 25 @ 3554.0usft
MID Reference: KB = 25 @ 3554.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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

Bandit 29 State Com

#702H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GR8 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 8.37°
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: #702H

3529.0

KB = 25 @ 3554.0 surf

Easting 772204.00

Latitude 32° 11' 40.847 N

Longitude 103° 35' 13.207 W

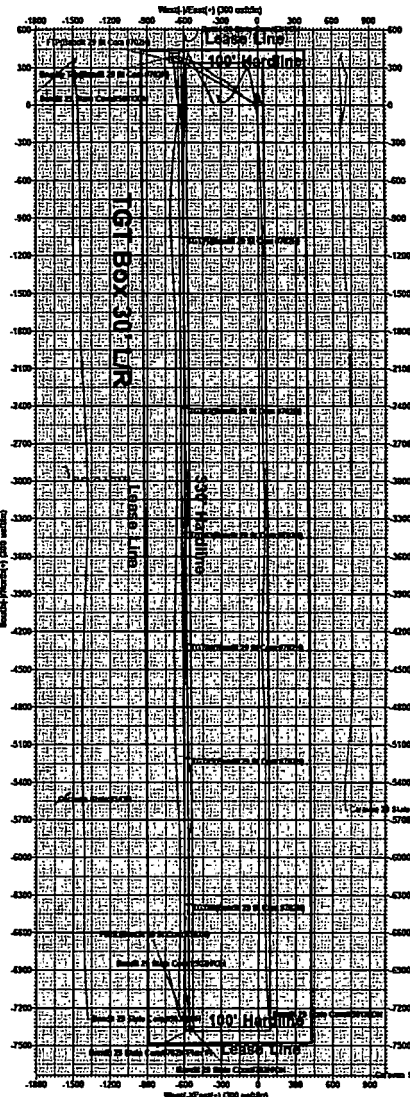
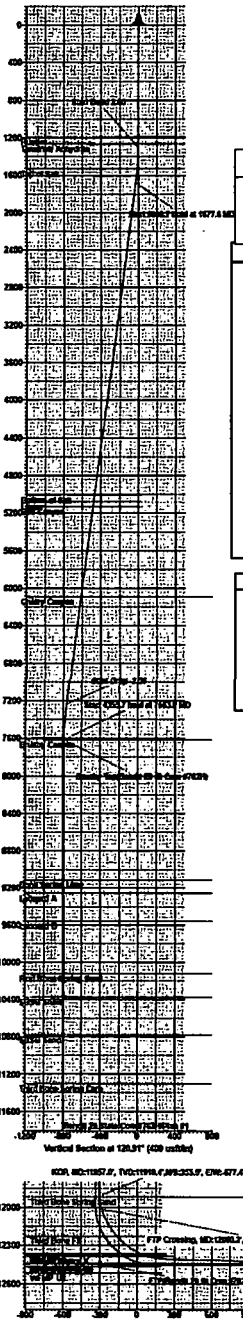
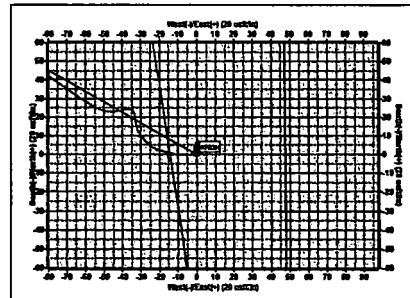
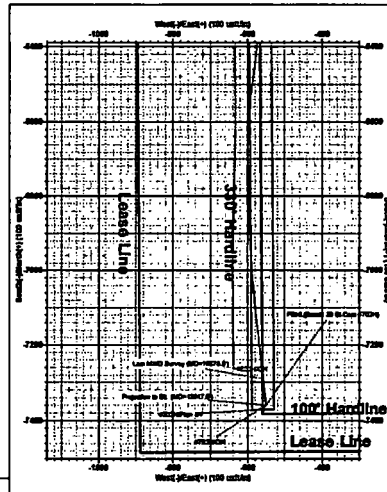
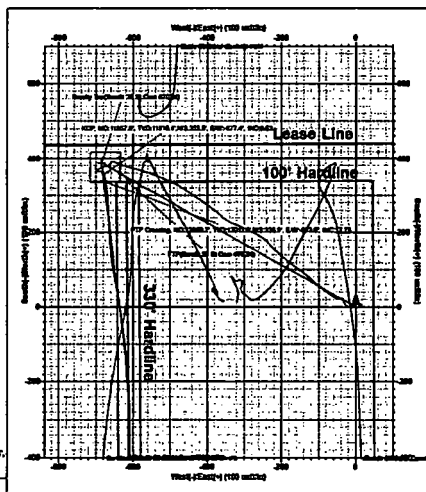
Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	V/Sect	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	1677.6	7.55	299.46	1678.5	12.2	-21.6	2.00	299.46	-10.8	
4	7286.3	7.55	299.46	7238.5	374.5	-663.4	0.00	0.00	-323.6	
5	7663.8	0.00	0.00	7613.0	387.0	-685.0	2.00	180.00	-334.2	Brushy Top(Bandit 29 St Com #702H)
6	12019.5	0.00	0.00	11968.7	387.0	-685.0	0.00	0.00	-334.2	
7	12774.5	90.60	172.84	12446.1	-91.7	-624.9	12.00	172.84	138.6	
8	12969.3	90.60	179.58	12443.8	-315.9	-610.0	3.00	89.98	381.0	
9	13740.9	90.60	179.58	12438.0	-1057.4	-604.6	0.00	0.00	1100.0	TOTM(Bandit 29 St Com #702H)
10	13749.9	90.42	179.58	12435.9	-1068.3	-604.6	2.00	-177.60	1108.9	
11	15095.6	90.42	179.58	12428.0	-2412.0	-594.6	0.00	0.00	2450.0	TOTM2(Bandit 29 St Com #702H)
12	15162.3	90.29	179.58	12428.0	-2416.7	-594.6	2.00	179.59	2456.7	
13	16059.0	90.29	179.58	12421.0	-3405.4	-587.3	0.00	0.00	3440.0	TOTM3(Bandit 29 St Com #702H)
14	16120.0	89.67	179.58	12421.0	-3438.4	-587.1	2.00	-180.00	3470.9	
15	16982.1	89.67	179.58	12426.0	-4288.4	-580.7	0.00	0.00	4330.0	TOTM4(Bandit 29 St Com #702H)
16	16997.1	89.37	179.58	12426.1	-4313.4	-580.6	2.00	180.00	4344.9	
17	17892.2	89.37	179.58	12439.0	-5208.5	-574.0	0.00	0.00	5237.0	TOTM5(Bandit 29 St Com #702H)
18	17892.3	89.51	179.58	12436.1	-5215.5	-572.9	2.00	0.00	5243.9	
19	19056.1	89.51	179.58	12446.0	-6372.3	-565.4	0.00	0.00	6398.8	TOTM6(Bandit 29 St Com #702H)
20	19050.6	89.60	179.58	12446.0	-6376.8	-565.3	2.00	0.00	6401.3	
21	20054.9	89.60	179.58	12453.0	-7371.0	-559.0	0.00	0.00	7392.1	PBHL(Bandit 29 St Com #702H)

WELLBORE TAPPOINT DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Brushy Top(Bandit 29 St Com #702H)	7613.0	387.0	-685.0	43547.00	771619.00	Polygon
TOTM(Bandit 29 St Com #702H)	12421.0	-3405.4	-587.3	431824.00	771616.70	Point
TOTM2(Bandit 29 St Com #702H)	12428.0	-2412.0	-594.6	43246.00	771620.38	Point
TOTM3(Bandit 29 St Com #702H)	12421.0	-3405.4	-587.3	431981.60	771623.30	Point
TOTM4(Bandit 29 St Com #702H)	12426.0	-4288.4	-580.7	434032.00	771626.38	Point
TOTM5(Bandit 29 St Com #702H)	12436.0	-5208.5	-574.0	436161.60	771633.02	Point
TOTM6(Bandit 29 St Com #702H)	12446.0	-6372.3	-565.4	438987.70	771638.62	Point
PBHL(Bandit 29 St Com #702H)	12453.0	-7371.0	-559.0	439897.00	771658.00	Point
				437665.00	771646.00	Rectangle (Kides: LLO W82.0)



Well Path
Lease Line
100' Hardline
Well Location