

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Bandit 29 State Com
#507H
OH

Design: OH

Midland PVA

05 September, 2018



Midland PVA

Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well #507H
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB = 25 @ 3564.0usft (H&P 647)
Site:	Bandit 29 State Com			MD Reference:	KB = 25 @ 3564.0usft (H&P 647)
Well:	#507H			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	Latitude:	32° 11' 41.017 N
From:	Map	Easting:	771,884.00 usft	Longitude:	103° 35' 16.930 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	#507H					
Well Position	+N/-S	0.0 usft	Northing:	435,395.00 usft	Latitude:	32° 11' 41.452 N
	+E/-W	0.0 usft	Easting:	768,400.00 usft	Longitude:	103° 35' 57.471 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,539.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/22/2018	6.83	60.01	47,786,947.70330

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	185.49	



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Survey Program		Date	9/5/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
159.0	1,204.0	Cartel 41 8"KB + 17" (OH)	MWD	OWSG MWD - Standard	
1,270.0	18,845.0	Newsco 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
159.0	0.90	34.78	159.0	1.0	0.7	0.57	0.57	0.00	0.0	0.0
318.0	0.88	20.57	318.0	3.2	1.9	0.14	-0.01	-8.94	0.0	0.0
476.0	0.77	4.83	476.0	5.4	2.4	0.16	-0.07	-9.96	0.0	0.0
634.0	0.68	331.17	633.9	7.3	2.0	0.27	-0.06	-21.30	0.0	0.0
792.0	0.48	333.11	791.9	8.7	1.3	0.13	-0.13	1.23	0.0	0.0
919.0	0.75	349.89	918.9	10.0	0.9	0.25	0.21	13.21	0.0	0.0
1,109.0	0.97	331.88	1,108.9	12.6	-0.1	0.18	0.12	-9.48	0.0	0.0
1,204.0	1.38	329.59	1,203.9	14.3	-1.1	0.43	0.43	-2.41	0.0	0.0
1,270.0	2.10	348.60	1,269.9	16.2	-1.7	1.38	1.09	28.80	-0.5	-0.3
1,414.0	4.40	320.80	1,413.6	23.0	-5.7	1.89	1.60	-19.31	-2.9	-2.5
1,599.0	5.60	298.00	1,597.9	32.8	-18.2	1.24	0.65	-12.32	-1.1	-7.4
1,789.0	5.70	292.80	1,787.0	40.8	-35.1	0.27	0.05	-2.74	0.8	-8.5
1,978.0	5.40	293.00	1,975.1	47.9	-51.9	0.16	-0.16	0.11	2.2	-8.8
2,167.0	5.10	294.20	2,163.3	54.8	-67.7	0.17	-0.16	0.63	4.5	-9.4
2,356.0	5.70	293.80	2,351.5	62.1	-84.0	0.32	0.32	-0.21	6.5	-10.0
2,545.0	5.80	296.80	2,539.5	70.2	-101.1	0.17	0.05	1.59	6.8	-11.4
2,735.0	5.60	288.50	2,728.6	77.4	-118.5	0.45	-0.11	-4.37	9.4	-10.5
2,924.0	5.10	290.50	2,916.8	83.3	-135.1	0.28	-0.26	1.06	11.2	-9.9
3,113.0	5.40	290.60	3,105.0	89.4	-151.3	0.16	0.16	0.05	13.6	-9.4
3,301.0	5.10	286.50	3,292.2	94.8	-167.6	0.26	-0.16	-2.18	16.6	-7.1



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Well:	#507H	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)	Buikd (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,490.0	4.80	290.10	3,480.5	99.9	-183.1	0.23	-0.16	1.90	19.6	-6.9	
3,680.0	6.70	287.80	3,669.5	106.1	-201.1	1.01	1.00	-1.21	20.7	-5.0	
3,869.0	6.30	281.20	3,857.3	111.5	-221.7	0.45	-0.21	-3.49	19.2	-0.1	
4,058.0	5.90	281.50	4,045.3	115.4	-241.4	0.21	-0.21	0.16	18.5	3.5	
4,247.0	5.50	282.60	4,233.3	119.3	-259.8	0.22	-0.21	0.58	19.3	6.6	
4,435.0	4.30	279.30	4,420.6	122.4	-275.5	0.66	-0.64	-1.76	22.0	11.5	
4,624.0	3.70	275.70	4,609.2	124.2	-288.6	0.34	-0.32	-1.90	27.1	18.0	
4,812.0	2.70	282.70	4,796.9	124.2	-299.0	0.65	-0.53	-6.91	29.1	31.9	
4,889.0	2.40	283.70	4,873.8	123.8	-302.4	0.39	-0.39	1.30	33.3	35.3	
4,985.0	2.30	283.70	4,969.7	123.4	-306.3	0.10	-0.10	0.00	38.2	40.1	
5,174.0	4.20	307.70	5,158.4	127.2	-315.6	1.59	1.01	23.28	68.6	-1.2	
5,363.0	8.40	309.70	5,346.2	140.2	-331.7	2.22	2.22	1.06	81.6	-13.6	
5,552.0	11.90	298.40	5,532.3	158.3	-359.5	2.12	1.85	-5.98	88.7	-4.5	
5,739.0	14.20	294.30	5,714.4	177.0	-397.3	1.33	1.23	-2.19	85.2	-1.0	
5,928.0	14.30	292.80	5,897.6	195.5	-440.0	0.20	0.05	-0.79	77.5	0.3	
6,117.0	13.00	289.70	6,081.3	211.7	-481.5	0.79	-0.69	-1.64	71.8	4.9	
6,305.0	12.60	287.40	6,264.6	225.0	-521.0	0.34	-0.21	-1.22	68.6	10.3	
6,494.0	12.30	286.50	6,449.2	236.9	-560.0	0.19	-0.16	-0.48	66.5	15.0	
6,682.0	12.40	286.90	6,632.8	248.4	-598.5	0.07	0.05	0.21	65.1	18.4	
6,871.0	12.20	292.00	6,817.5	261.8	-636.4	0.58	-0.11	2.70	65.4	14.7	
7,060.0	12.90	294.90	7,002.0	278.2	-674.1	0.50	0.37	1.53	63.6	10.7	
7,250.0	13.10	294.30	7,187.1	296.0	-712.9	0.13	0.11	-0.32	50.2	10.2	
7,438.0	12.60	293.80	7,370.4	313.0	-751.1	0.27	-0.27	-0.27	25.0	10.0	
7,626.0	7.70	284.30	7,555.4	324.4	-782.1	2.75	-2.61	-5.05	-5.1	11.2	
7,815.0	3.30	282.50	7,743.5	328.7	-799.7	2.33	-2.33	-0.95	-23.6	10.6	
8,004.0	3.00	271.80	7,932.2	330.1	-809.9	0.35	-0.16	-5.66	-35.4	5.1	
8,190.0	1.50	123.20	8,118.1	328.9	-812.8	2.34	-0.81	-79.89	29.3	-25.3	



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 Site: Bandit 29 State Com
 Well: #507H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #507H
 TVD Reference: KB = 25 @ 3564.0usft (H&P 647)
 MD Reference: KB = 25 @ 3564.0usft (H&P 647)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
8,379.0	1.60	132.40	8,307.1	325.7	-808.7	0.14	0.05	4.87	19.8	-29.3
8,568.0	1.60	132.30	8,496.0	322.2	-804.8	0.00	0.00	-0.05	14.6	-29.2
8,757.0	1.50	136.00	8,684.9	318.6	-801.2	0.07	-0.05	1.96	7.6	-30.0
8,946.0	1.20	144.80	8,873.9	315.2	-798.3	0.19	-0.16	4.66	-1.5	-30.4
9,134.0	0.90	135.00	9,061.8	312.6	-796.1	0.19	-0.16	-5.21	0.2	-30.5
9,323.0	0.40	98.40	9,250.8	311.4	-794.4	0.33	-0.26	-19.37	16.5	-25.2
9,512.0	0.30	115.00	9,439.8	311.1	-793.3	0.07	-0.05	8.78	7.5	-28.7
9,701.0	0.30	74.40	9,628.8	311.1	-792.4	0.11	0.00	-21.48	23.5	-17.2
9,890.0	1.70	58.70	9,817.8	312.6	-789.5	0.75	0.74	-8.31	24.0	-10.4
10,078.0	2.70	52.10	10,005.6	316.8	-783.7	0.55	0.53	-3.51	17.9	-7.9
10,267.0	3.00	51.50	10,194.4	322.6	-776.3	0.16	0.16	-0.32	8.6	-7.7
10,394.0	3.20	61.80	10,321.2	326.4	-770.6	0.47	0.16	8.11	0.2	-8.5
10,488.0	3.10	63.20	10,415.1	328.8	-766.0	0.13	-0.11	1.49	-5.1	-8.5
10,583.0	3.60	46.30	10,509.9	332.0	-761.5	1.16	0.53	-17.79	-7.9	-10.4
10,677.0	3.60	50.00	10,603.7	335.9	-757.1	0.25	0.00	3.94	-14.4	-9.6
10,732.0	3.32	97.34	10,658.7	336.8	-754.2	5.07	-0.51	86.07	-19.6	5.4
KOP 10732.0' MD; 10658.7' TVD; 336.8"; -754.2"; 3.32										
10,772.0	4.40	123.30	10,698.6	335.8	-751.8	5.07	2.70	64.91	-16.7	15.7
10,819.0	5.00	172.10	10,745.4	332.8	-750.0	8.34	1.28	103.83	4.1	25.1
10,867.0	10.10	187.00	10,793.0	326.6	-750.2	11.29	10.62	31.04	15.5	22.3
10,914.0	16.40	187.60	10,838.7	315.9	-751.6	13.41	13.40	1.28	20.4	20.1
10,961.0	16.70	189.30	10,883.8	302.6	-753.6	1.21	0.64	3.62	27.2	16.7
11,008.0	20.80	186.60	10,928.3	287.7	-755.6	8.91	8.72	-5.74	35.3	15.0
11,018.3	21.31	186.55	10,937.9	284.0	-756.1	5.00	5.00	-0.45	37.4	14.4
FTP Crossing 11018.3' MD; 10937.9' TVD; 284.0"; -756.1"; 21.31										
11,056.0	23.20	186.40	10,972.8	289.8	-757.7	5.00	5.00	-0.41	45.9	12.2
11,087.0	26.20	191.60	11,000.9	257.0	-759.7	11.94	9.68	16.77	54.1	5.6



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Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3564.0usft (H&P 647)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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11,118.0	30.60	190.40	11,028.2	242.6	-762.5	14.31	14.19	-3.87	61.3	2.9	
11,150.0	35.90	188.30	11,055.0	225.3	-765.4	16.95	16.56	-6.56	68.0	1.2	
11,181.0	42.20	185.90	11,079.0	205.9	-767.7	20.90	20.32	-7.74	73.2	0.5	
11,213.0	48.40	185.70	11,101.5	183.3	-770.0	19.38	19.37	-0.62	77.0	-1.7	
11,243.0	53.10	186.40	11,120.5	160.2	-772.5	15.77	15.67	2.33	79.3	-4.6	
11,276.0	59.80	186.30	11,138.7	132.9	-775.5	20.30	20.30	-0.30	80.5	-7.4	
11,308.0	66.50	185.90	11,153.2	104.5	-778.6	20.97	20.94	-1.25	79.9	-9.8	
11,339.0	72.10	185.10	11,164.1	75.6	-781.3	18.22	18.06	-2.58	77.7	-11.9	
11,371.0	80.20	184.40	11,171.8	44.7	-783.9	25.40	25.31	-2.19	73.4	-14.0	
11,402.0	86.40	184.50	11,175.4	14.0	-786.3	20.00	20.00	0.32	67.1	-16.3	
11,416.0	89.30	185.50	11,175.9	0.1	-787.5	21.91	20.71	7.14	63.7	-17.8	
11,469.0	96.30	180.20	11,173.3	-52.7	-790.1	16.56	13.21	-10.00	49.8	-19.5	
11,528.0	96.80	181.20	11,166.6	-111.4	-790.9	1.89	0.85	1.69	36.4	-20.1	
11,593.0	97.80	182.00	11,158.3	-175.8	-792.7	1.96	1.54	1.23	27.5	-22.2	
11,623.0	97.90	180.70	11,154.2	-205.5	-793.4	4.31	0.33	-4.33	23.6	-23.2	
11,655.0	98.00	181.50	11,149.8	-237.2	-794.0	2.50	0.31	2.50	19.5	-24.0	
11,686.0	98.40	180.30	11,145.4	-267.9	-794.4	4.04	1.29	-3.87	15.3	-24.7	
11,718.0	96.40	179.80	11,141.3	-299.6	-794.5	6.44	-6.25	-1.56	11.5	-25.0	
11,749.0	95.20	180.00	11,138.1	-330.4	-794.4	3.92	-3.87	0.65	8.6	-25.1	
11,781.0	95.10	178.70	11,135.3	-362.3	-794.1	4.06	-0.31	-4.06	6.0	-25.0	
11,812.0	94.50	178.80	11,132.7	-393.2	-793.4	1.96	-1.94	0.32	3.7	-24.6	
11,844.0	92.80	178.80	11,130.6	-425.1	-792.7	5.31	-5.31	0.00	1.9	-24.1	
11,875.0	92.60	177.90	11,129.2	-456.1	-791.8	2.97	-0.65	-2.90	0.7	-23.5	
11,907.0	92.40	178.00	11,127.8	-488.0	-790.7	0.70	-0.62	0.31	-0.4	-22.6	
11,957.0	89.00	177.40	11,127.2	-538.0	-788.7	6.91	-6.80	-1.20	-0.5	-21.0	
12,002.0	88.10	177.40	11,128.3	-582.9	-786.6	2.00	-2.00	0.00	1.0	-19.3	
12,098.0	88.10	177.30	11,131.4	-676.8	-782.3	0.11	0.00	-0.11	4.9	-15.6	



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12,190.0	87.10	178.50	11,135.4	-770.6	-778.8	1.66	-1.06	1.28	9.7	-12.9	
12,284.0	86.70	178.10	11,140.4	-864.4	-776.1	0.60	-0.43	-0.43	15.5	-10.8	
12,378.0	88.40	178.70	11,144.5	-958.3	-773.4	1.92	1.81	0.64	20.4	-8.9	
12,472.0	90.60	178.90	11,145.3	-1,052.3	-771.5	2.35	2.34	0.21	22.0	-7.7	
12,567.0	91.40	178.50	11,143.6	-1,147.2	-769.3	0.94	0.84	-0.42	21.2	-6.3	
12,661.0	92.20	179.10	11,140.7	-1,241.2	-767.4	1.06	0.85	0.64	19.0	-5.0	
12,756.0	91.80	178.80	11,137.3	-1,336.1	-765.6	0.53	-0.42	-0.32	16.5	-4.0	
12,850.0	91.50	178.40	11,134.6	-1,430.0	-763.3	0.53	-0.32	-0.43	14.6	-2.4	
12,944.0	91.30	177.70	11,132.3	-1,523.9	-760.1	0.77	-0.21	-0.74	12.4	0.1	
13,039.0	90.90	177.20	11,130.5	-1,618.8	-755.9	0.67	-0.42	-0.53	10.4	3.6	
13,134.0	90.80	176.90	11,129.1	-1,713.7	-751.0	0.33	-0.11	-0.32	8.8	7.7	
13,228.0	90.20	176.60	11,128.3	-1,807.5	-745.7	0.71	-0.64	-0.32	7.9	12.3	
13,323.0	90.50	179.10	11,127.7	-1,902.5	-742.1	2.65	0.32	2.63	7.1	15.2	
13,417.0	90.20	179.60	11,127.1	-1,996.5	-741.0	0.62	-0.32	0.53	6.4	15.5	
13,511.0	89.30	179.40	11,127.5	-2,090.5	-740.2	0.98	-0.96	-0.21	6.7	15.6	
13,605.0	90.30	180.30	11,127.9	-2,184.4	-740.0	1.43	1.06	0.96	6.8	15.2	
13,700.0	89.20	180.30	11,128.3	-2,279.4	-740.5	1.16	-1.16	0.00	7.1	13.9	
13,794.0	89.80	181.40	11,129.1	-2,373.4	-741.9	1.33	0.64	1.17	7.8	11.8	
13,888.0	89.20	181.10	11,129.9	-2,467.4	-743.9	0.71	-0.64	-0.32	8.5	9.1	
13,983.0	89.60	182.40	11,130.9	-2,562.4	-746.8	1.43	0.42	1.37	9.3	5.4	
14,077.0	91.20	181.80	11,130.3	-2,656.3	-750.3	1.82	1.70	-0.64	8.5	1.3	
14,171.0	90.20	181.60	11,129.1	-2,750.2	-753.1	1.08	-1.06	-0.21	7.2	-2.2	
14,265.0	89.30	181.70	11,129.5	-2,844.2	-755.8	0.96	-0.96	0.11	7.5	-5.7	
14,360.0	89.40	180.90	11,130.6	-2,939.2	-757.9	0.85	0.11	-0.84	8.4	-8.5	
14,455.0	91.00	180.20	11,130.3	-3,034.2	-758.8	1.84	1.68	-0.74	7.9	-10.2	
14,549.0	91.10	181.80	11,128.6	-3,128.1	-760.5	1.71	0.11	1.70	6.1	-12.5	
14,644.0	90.90	181.20	11,126.9	-3,223.1	-763.0	0.67	-0.21	-0.63	4.3	-15.7	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #507H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3564.0usft (H&P 647)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3564.0usft (H&P 647)
Well:	#507H	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)	
14,738.0	90.80	180.30	11,125.5	-3,317.1	-764.2	0.96	-0.11	-0.96	2.7	-17.7	
14,833.0	90.20	179.30	11,124.7	-3,412.0	-763.9	1.23	-0.63	-1.05	1.7	-18.1	
14,928.0	91.00	179.60	11,123.7	-3,507.0	-762.9	0.90	0.84	0.32	0.3	-17.9	
15,022.0	90.90	179.00	11,122.1	-3,601.0	-761.8	0.65	-0.11	-0.64	-1.9	-17.5	
15,117.0	90.60	179.30	11,120.9	-3,696.0	-760.4	0.45	-0.32	0.32	-3.7	-16.8	
15,211.0	90.20	180.10	11,120.2	-3,790.0	-759.9	0.95	-0.43	0.85	-5.0	-17.0	
15,305.0	89.80	179.60	11,120.2	-3,884.0	-759.6	0.68	-0.43	-0.53	-5.6	-17.5	
15,399.0	89.70	179.60	11,120.6	-3,978.0	-759.0	0.11	-0.11	0.00	-5.8	-17.5	
15,493.0	89.70	180.20	11,121.1	-4,072.0	-758.8	0.64	0.00	0.64	-5.9	-18.1	
15,587.0	89.00	179.60	11,122.2	-4,166.0	-758.7	0.98	-0.74	-0.64	-5.5	-18.7	
15,682.0	88.40	180.20	11,124.3	-4,261.0	-758.5	0.89	-0.63	0.63	-3.9	-19.2	
15,776.0	89.40	179.20	11,126.1	-4,354.9	-758.0	1.50	1.06	-1.06	-2.7	-19.4	
15,871.0	89.10	177.60	11,127.4	-4,449.9	-755.4	1.71	-0.32	-1.68	-2.1	-17.5	
15,966.0	88.40	178.40	11,129.5	-4,544.8	-752.0	1.12	-0.74	0.84	-0.6	-14.9	
16,060.0	88.30	178.50	11,132.2	-4,638.7	-749.5	0.15	-0.11	0.11	1.5	-13.1	
16,154.0	89.00	177.30	11,134.4	-4,732.6	-746.1	1.48	0.74	-1.28	3.1	-10.4	
16,249.0	89.80	178.10	11,135.4	-4,827.6	-742.2	1.19	0.84	0.84	3.5	-7.3	
16,343.0	89.60	177.30	11,135.9	-4,921.5	-738.5	0.88	-0.21	-0.85	3.3	-4.2	
16,437.0	88.00	177.70	11,137.8	-5,015.4	-734.4	1.75	-1.70	0.43	4.7	-0.9	
16,531.0	87.20	177.00	11,141.8	-5,109.2	-730.0	1.13	-0.85	-0.74	8.0	2.8	
16,594.0	87.20	177.70	11,144.9	-5,172.0	-727.1	1.11	0.00	1.11	10.7	5.2	
16,626.0	86.90	177.60	11,146.5	-5,204.0	-725.8	0.99	-0.94	-0.31	12.1	6.3	
16,657.0	86.30	176.50	11,148.3	-5,234.9	-724.2	4.04	-1.94	-3.55	13.8	7.6	
16,689.0	87.40	177.70	11,150.1	-5,266.8	-722.6	5.08	3.44	3.75	15.3	9.0	
16,720.0	88.80	176.30	11,151.2	-5,297.7	-721.0	5.95	3.87	-4.52	16.2	10.4	
16,752.0	89.50	178.50	11,151.7	-5,329.7	-719.5	7.43	2.81	6.87	16.5	11.6	
16,783.0	89.80	179.50	11,151.9	-5,360.7	-719.0	3.37	0.97	3.23	16.5	11.9	



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #507H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3564.0usft (H&P 647)	
Site: Bandit 29 State Corn		MD Reference: KB = 25 @ 3564.0usft (H&P 647)	
Well: #507H		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)	BuId (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
16,815.0	90.90	178.50	11,151.7	-5,392.7	-718.4	4.65	3.44	-3.12	16.1	12.2	
16,846.0	90.90	178.80	11,151.2	-5,423.7	-717.7	0.97	0.00	0.97	15.4	12.7	
16,878.0	90.80	179.70	11,150.7	-5,455.6	-717.3	2.83	-0.31	2.81	14.7	12.9	
16,909.0	90.80	178.50	11,150.3	-5,486.6	-716.8	3.87	0.00	-3.87	14.2	13.1	
16,941.0	90.70	178.20	11,149.9	-5,518.6	-715.9	0.99	-0.31	-0.94	13.8	13.8	
16,973.0	90.60	179.20	11,149.5	-5,550.6	-715.1	3.14	-0.31	3.12	13.4	14.3	
17,004.0	90.80	178.50	11,149.1	-5,581.6	-714.5	2.35	0.65	-2.26	13.0	14.7	
17,050.0	91.00	178.90	11,148.4	-5,627.6	-713.5	0.97	0.43	0.87	12.3	15.4	
17,097.0	90.90	177.30	11,147.6	-5,674.6	-711.9	3.41	-0.21	-3.40	11.5	16.6	
17,191.0	90.20	178.10	11,146.7	-5,768.5	-708.1	1.13	-0.74	0.85	10.5	19.6	
17,286.0	90.20	177.60	11,146.4	-5,863.4	-704.6	0.53	0.00	-0.53	10.2	22.5	
17,380.0	90.70	177.90	11,145.7	-5,957.3	-700.9	0.62	0.53	0.32	9.4	25.4	
17,474.0	90.70	178.20	11,144.5	-6,051.3	-697.7	0.32	0.00	0.32	8.2	27.9	
17,560.0	91.00	179.50	11,143.3	-6,137.2	-696.0	1.55	0.35	1.51	6.9	29.0	
17,654.0	91.20	179.60	11,141.4	-6,231.2	-695.2	0.24	0.21	0.11	5.0	29.0	
17,749.0	91.40	179.40	11,139.3	-6,326.2	-694.4	0.30	0.21	-0.21	2.8	29.1	
17,844.0	91.70	181.70	11,136.7	-6,421.1	-695.3	2.44	0.32	2.42	0.2	27.5	
17,938.0	90.70	183.10	11,134.8	-6,515.0	-699.2	1.83	-1.06	1.49	-1.8	22.8	
18,032.0	91.20	182.30	11,133.2	-6,608.9	-703.7	1.00	0.53	-0.85	-3.4	17.7	
18,127.0	92.20	181.20	11,130.4	-6,703.8	-706.6	1.56	1.05	-1.16	-6.3	14.0	
18,221.0	93.20	180.70	11,125.9	-6,797.7	-708.1	1.19	1.06	-0.53	-10.7	11.8	
18,315.0	90.40	179.20	11,123.0	-6,891.7	-708.0	3.38	-2.98	-1.60	-13.7	11.1	
18,410.0	91.00	178.80	11,121.8	-6,986.6	-706.4	0.76	0.63	-0.42	-14.9	12.1	
18,504.0	90.40	179.70	11,120.7	-7,080.6	-705.2	1.15	-0.64	0.96	-16.1	12.6	
18,599.0	90.80	180.00	11,119.7	-7,175.6	-704.9	0.53	0.42	0.32	-17.2	12.1	
18,693.0	90.20	179.50	11,118.9	-7,269.6	-704.5	0.83	-0.64	-0.53	-18.0	11.8	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #507H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3564.0usft (H&P 647)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3564.0usft (H&P 647)
Well:	#507H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
18,785.0	90.20	179.10	11,118.6	-7,361.6	-703.4	0.43	0.00	-0.43	-18.4	12.2
Last MWD Survey (MD = 18785.0)										
18,845.0	90.20	179.10	11,118.3	-7,421.6	-702.4	0.00	0.00	0.00	-18.7	12.7
Projection to Bit (MD = 18845.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
10,732.0	10,658.7	336.8	-754.2	KOP 10732.0' MD; 10658.7' TVD; 336.8'; -754.2'; 3.32
11,018.3	10,937.9	284.0	-756.1	FTP Crossing 11018.3' MD; 10937.9' TVD; 284.0'; -756.1'; 21.31
18,785.0	11,118.6	-7,361.6	-703.4	Last MWD Survey (MD = 18785.0)
18,845.0	11,118.3	-7,421.6	-702.4	Projection to Bit (MD = 18845.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#507H

H&P 647

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



Adjustment to Grid North
True North: 4.29°
Magnetic North: 6.29°
Magnetic Declination
Angle: 477.64°
Dip Angle: 88.81°
Dip: 12.29°
Dip: 12.29°

To convert a Magnetic Direction to a Grid Direction, Add 8.44°
To convert a Magnetic Direction to a True Direction, Add 6.83° East
To convert a True Direction to a Grid Direction, Subtract 0.29°

WELL DETAILS: #507H

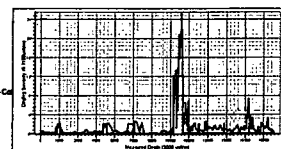
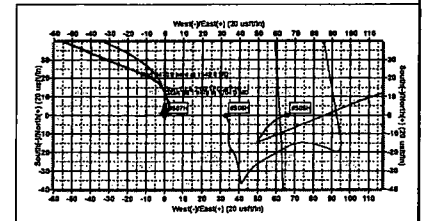
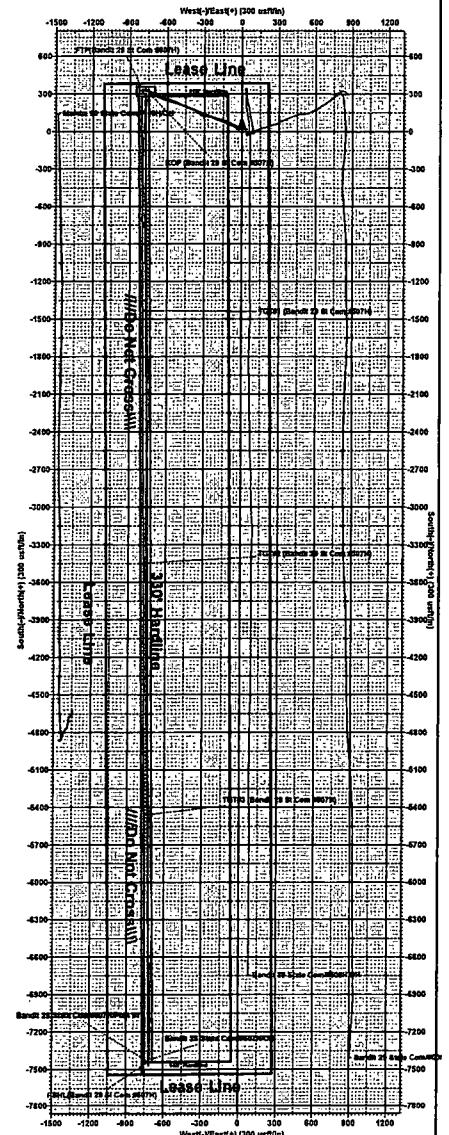
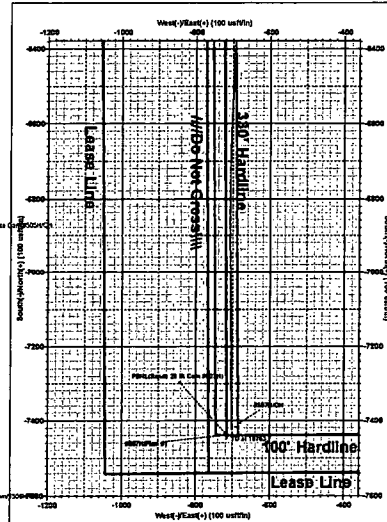
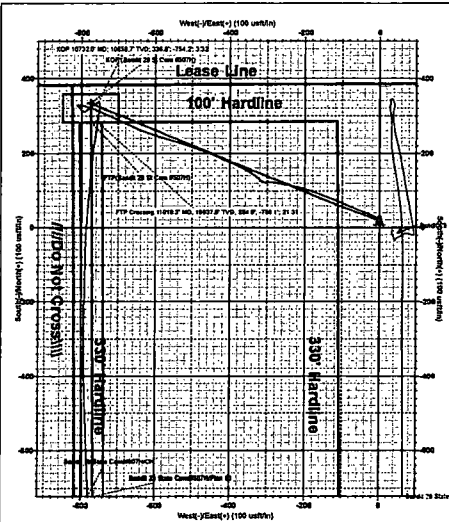
KB = 25 @ 3564.0m (H&P 647)
+N/-S +E/-W Northing Easting Longitude Skid
0.0 0.0 435395.00 768400.00 32° 11' 41.452 N 103° 35' 37.471 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Deg	Tface	Vsect	Target
1	1204.0	1.38	329.59	1203.9	14.3	-1.1	0.00	0.00	-14.1	
2	1300.1	1.38	329.59	1300.0	16.3	-2.2	0.00	0.00	-16.0	
3	1548.9	6.00	292.11	1548.2	23.8	-15.8	2.00	-47.16	-22.2	
4	5019.7	6.00	292.11	5000.0	160.3	-351.9	0.00	0.00	-125.9	
5	5316.7	11.94	292.35	5293.2	177.9	-394.8	2.00	0.49	-139.3	
6	7001.3	11.94	292.35	6941.3	310.4	-717.1	0.00	0.00	-240.4	
7	7598.2	0.00	0.00	7534.0	334.0	-774.4	2.00	180.00	-258.4	
8	10717.8	0.00	0.00	10653.8	334.0	-774.4	0.00	0.00	-258.4	
9	11471.9	90.49	179.56	11131.0	-147.6	-770.7	12.00	179.56	220.6	
10	12758.3	90.49	179.56	11120.0	-1433.8	-760.9	0.00	0.00	1500.0	KOP (Bandit 29 St Com #507H)
11	12787.4	89.91	179.56	11119.9	-1462.9	-760.7	2.00	180.00	1529.0	TGT#1 (Bandit 29 St Com #507H)
12	14769.0	89.91	179.56	11123.0	-3444.5	-745.5	0.00	0.00	3500.0	TGT#2 (Bandit 29 St Com #507H)
13	14783.1	89.63	179.56	11123.1	-3458.6	-745.4	2.00	-180.00	3514.0	TGT#3 (Bandit 29 St Com #507H)
14	16779.8	89.63	179.56	11136.0	-5455.2	-730.2	0.00	0.00	5500.0	
15	16797.0	89.97	179.56	11136.1	-5472.4	-730.0	2.00	0.00	5517.1	
16	18763.7	89.97	179.56	11137.0	-7439.0	-715.0	0.00	0.00	7473.3	PBHL(Bandit 29 St Com #507H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP (Bandit 29 St Com #507H)	10633.8	334.0	-774.4	435725.00	767625.02	Polygon
TGT#1 (Bandit 29 St Com #507H)	11120.0	-1433.8	-760.9	435961.20	767628.12	Point
TGT#2 (Bandit 29 St Com #507H)	11123.0	-3444.5	-745.5	431950.50	767654.48	Point
TGT#3 (Bandit 29 St Com #507H)	11131.0	284.0	-774.0	435679.00	767628.00	Point
PBHL(Bandit 29 St Com #507H)	11136.0	-5455.2	-730.2	429933.30	767633.84	Point
PBHL(Bandit 29 St Com #507H)	11137.0	-7439.0	-715.0	427856.00	767685.00	Rectangle (Sides: 1.0 0 W60.0)



Lea County, NM (NAD 83 NME)
Bandit 29 State Com #507H
H&P 647
Plan #1