



HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#506H

OH

Design: OH

Midland PVA

07 September, 2018



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Bandit 29 State Com Well: #506H Wellbore: OH Design: OH		Local Co-ordinate Reference: Well #506H 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	
Project Lea County, NM (NAD 83 NME)			
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone		System Datum: Mean Sea Level	
Site Bandit 29 State Com			
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 435,375.00 usft Easting: 771,884.00 usft Slot Radius: 13-3/16 " Latitude: 32° 11' 41.017 N Longitude: 103° 35' 16.930 W Grid Convergence: 0.40 °	
Well #506H			
Well Position +N-S 0.0 usft +E-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 435,395.00 usft Easting: 768,433.00 usft Wellhead Elevation: usft Latitude: 32° 11' 41.450 N Longitude: 103° 35' 57.087 W Ground Level: 3,539.0 usft	
Wellbore OH			
Magnetics			
Model Name	Sample Date	Declination (°)	Dip Angle (°)
IGRF2015	8/12/2018	6.84	60.02
Field Strength (nT) 47,798.50075681			
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	179.56



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Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3564.0usft (H&P 647)
Well:	#506H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date	9/7/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
160.0	1,185.0	Cartel 41 8'kb + 17' (OH)	MWD	OWSG MWD - Standard	
1,330.0	18,618.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard	

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
160.0	0.51	170.33	160.0	-0.7	0.1	0.32	0.32	0.00	0.0	0.0
258.0	0.68	148.45	258.0	-1.6	0.5	0.29	0.17	-22.33	0.0	0.0
417.0	0.79	167.87	417.0	-3.5	1.2	0.17	0.07	12.21	0.0	0.0
574.0	1.08	169.28	574.0	-6.0	1.7	0.19	0.18	0.90	0.0	0.0
733.0	1.58	194.06	732.9	-9.6	1.5	0.47	0.31	15.58	0.0	0.0
892.0	1.45	176.57	891.9	-13.7	1.1	0.30	-0.08	-11.00	0.0	0.0
1,050.0	1.19	147.57	1,049.8	-17.1	2.1	0.45	-0.16	-18.35	0.0	0.0
1,185.0	1.41	141.42	1,184.8	-19.6	3.8	0.19	0.16	-4.56	0.0	0.0
1,330.0	1.40	165.80	1,329.7	-22.7	5.4	0.41	-0.01	16.81	-0.5	-0.6
1,511.0	1.40	166.40	1,510.7	-27.0	6.5	0.01	0.00	0.33	-4.8	-0.6
1,700.0	1.30	173.70	1,699.6	-31.4	7.2	0.11	-0.05	3.86	-9.3	0.3
1,889.0	1.10	171.60	1,888.6	-35.3	7.7	0.11	-0.11	-1.11	-13.2	-0.1
2,078.0	0.20	67.40	2,077.6	-37.0	8.3	0.62	-0.48	-55.13	3.5	-14.6
2,267.0	0.50	30.80	2,266.6	-36.1	9.0	0.19	0.16	-19.37	10.4	-9.8
2,457.0	0.50	26.20	2,456.6	-34.7	9.8	0.02	0.00	-2.42	9.5	-9.0
2,646.0	0.70	30.00	2,645.6	-33.0	10.8	0.11	0.11	2.01	6.9	-9.6
2,835.0	0.80	41.70	2,834.5	-31.0	12.2	0.10	0.05	6.19	2.3	-10.5
3,024.0	0.50	31.10	3,023.5	-29.3	13.5	0.17	-0.16	-5.61	2.1	-10.2
3,213.0	0.90	48.30	3,212.5	-27.6	15.1	0.24	0.21	9.10	-3.2	-10.1
3,402.0	1.40	59.10	3,401.5	-25.4	18.1	0.29	0.26	5.71	-8.8	-9.0



Midland PVA

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Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3564.0usft (H&P 647)
Well:	#506H	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)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,591.0	1.20	60.30	3,590.4	-23.2	21.8	0.11	-0.11	0.63	-13.3	-8.8	
3,780.0	1.10	61.70	3,779.4	-21.4	25.2	0.05	-0.05	0.74	-17.3	-8.4	
3,969.0	1.10	61.50	3,968.4	-19.7	28.4	0.00	0.00	-0.11	-20.9	-8.5	
4,158.0	1.20	55.90	4,157.3	-17.7	31.6	0.08	0.05	-2.96	-23.8	-10.7	
4,347.0	1.50	68.60	4,346.3	-15.7	35.5	0.22	0.16	6.72	-29.9	-4.7	
4,535.0	1.80	84.70	4,534.2	-14.5	40.8	0.29	0.16	8.56	-35.4	4.4	
4,724.0	2.20	103.30	4,723.1	-15.1	47.2	0.40	0.21	9.84	-38.6	16.5	
4,909.0	2.50	114.50	4,907.9	-17.6	54.4	0.30	0.16	6.05	-42.2	24.3	
4,988.0	2.30	116.40	4,986.9	-19.0	57.4	0.27	-0.25	2.41	-44.6	25.8	
5,083.0	1.20	77.10	5,081.8	-19.6	60.0	1.65	-1.16	-41.37	-53.1	-10.7	
5,177.0	1.40	37.90	5,175.8	-18.5	61.7	0.95	0.21	-41.70	-33.0	-45.1	
5,271.0	2.90	356.60	5,269.7	-15.2	62.3	2.20	1.60	-43.94	9.0	-56.2	
5,366.0	5.10	349.10	5,364.5	-8.7	61.3	2.38	2.32	-7.89	20.0	-53.1	
5,460.0	6.20	348.40	5,458.0	0.4	59.5	1.17	1.17	-0.74	24.6	-50.5	
5,555.0	8.30	350.80	5,552.3	12.2	57.4	2.23	2.21	2.53	26.6	-49.0	
5,648.0	9.40	350.00	5,644.2	26.3	55.0	1.19	1.18	-0.86	29.0	-46.3	
5,742.0	10.40	350.60	5,738.8	42.2	52.3	1.07	1.06	0.64	28.5	-44.2	
5,836.0	10.20	349.80	5,829.2	58.8	49.4	0.26	-0.21	-0.85	28.5	-41.4	
5,931.0	10.00	348.50	5,922.8	75.2	46.3	0.32	-0.21	-1.37	29.1	-38.0	
6,025.0	8.90	346.40	6,015.5	90.2	42.9	1.23	-1.17	-2.23	31.0	-33.7	
6,120.0	10.30	350.50	6,109.2	105.8	39.8	1.64	1.47	4.32	29.1	-32.9	
6,214.0	10.60	351.50	6,201.6	122.6	37.1	0.37	0.32	1.06	27.7	-31.2	
6,308.0	10.20	349.90	6,294.1	139.3	34.4	0.52	-0.43	-1.70	27.8	-28.2	
6,402.0	10.40	349.40	6,386.5	155.9	31.4	0.23	0.21	-0.53	27.4	-25.3	
6,497.0	10.00	348.60	6,480.0	172.4	28.2	0.45	-0.42	-0.84	27.2	-22.2	
6,591.0	9.80	348.30	6,572.6	188.2	24.9	0.22	-0.21	-0.32	27.2	-19.1	
6,685.0	9.20	348.10	6,665.4	203.4	21.8	0.64	-0.64	-0.21	27.9	-16.0	



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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)	Bulid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
6,780.0	8.80	347.20	6,759.2	217.8	18.6	0.45	-0.42	-0.95	29.5	-12.4
6,874.0	7.90	346.30	6,852.2	231.2	15.5	0.97	-0.96	-0.96	32.1	-8.5
6,969.0	8.40	344.70	6,948.2	244.2	12.1	0.58	0.53	-1.68	35.0	-3.8
7,063.0	8.40	352.00	7,039.2	257.7	9.3	1.13	0.00	7.77	36.8	-5.4
7,158.0	8.40	353.40	7,133.2	271.4	7.6	0.22	0.00	1.47	37.8	-4.7
7,253.0	8.00	351.70	7,227.2	284.9	5.8	0.49	-0.42	-1.79	36.2	-2.3
7,347.0	6.30	350.70	7,320.5	296.4	4.0	1.81	-1.81	-1.06	33.0	-0.5
7,441.0	4.60	6.90	7,414.1	305.3	3.7	2.42	-1.81	17.23	28.3	-9.1
7,535.0	3.80	14.40	7,507.8	312.0	4.9	1.03	-0.85	7.98	22.4	-12.9
7,629.0	3.20	13.90	7,601.6	317.6	6.3	0.64	-0.64	-0.53	16.8	-12.7
7,724.0	2.80	8.70	7,696.5	322.5	7.3	0.51	-0.42	-5.47	13.0	-11.4
7,818.0	2.20	359.60	7,790.4	326.5	7.6	0.76	-0.64	-9.68	10.5	-9.5
7,913.0	2.10	356.90	7,885.4	330.1	7.5	0.15	-0.11	-2.84	7.4	-9.1
8,007.0	2.10	355.80	7,979.3	333.5	7.3	0.04	0.00	-1.17	4.1	-9.0
8,102.0	1.70	343.70	8,074.2	336.6	6.8	0.59	-0.42	-12.74	2.8	-8.3
8,196.0	1.50	335.20	8,168.2	339.1	5.9	0.33	-0.21	-9.04	1.4	-8.0
8,290.0	1.20	325.10	8,262.2	341.0	4.8	0.41	-0.32	-10.74	0.6	-7.8
8,385.0	0.90	331.80	8,357.2	342.5	3.9	0.34	-0.32	7.05	-2.1	-7.7
8,479.0	0.90	314.50	8,451.2	343.6	3.0	0.29	0.00	-18.40	-1.1	-8.2
8,573.0	0.80	293.40	8,545.1	344.4	1.9	0.35	-0.11	-22.45	0.6	-8.3
8,668.0	0.60	284.00	8,640.1	344.8	0.8	0.24	-0.21	-9.89	0.8	-8.2
8,762.0	0.60	264.30	8,734.1	344.9	-0.2	0.22	0.00	-20.96	2.6	-7.7
8,856.0	0.70	243.20	8,828.1	344.6	-1.2	0.27	0.11	-22.45	4.1	-6.4
8,951.0	0.70	233.50	8,923.1	344.0	-2.2	0.12	0.00	-10.21	4.0	-5.7
9,046.0	0.70	237.70	9,018.1	343.3	-3.2	0.05	0.00	4.42	2.4	-5.9
9,140.0	0.70	237.40	9,112.1	342.7	-4.1	0.00	0.00	-0.32	1.3	-5.9
9,234.0	0.90	199.80	9,206.1	341.7	-4.9	0.58	0.21	-40.00	3.4	-4.3



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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)	
9,329.0	0.80	147.50	9,301.1	340.4	-4.7	0.79	-0.11	-55.05	4.4	-0.5	
9,423.0	0.60	125.60	9,395.1	339.6	-4.0	0.35	-0.21	-23.30	3.1	0.9	
9,518.0	0.90	128.40	9,490.1	338.8	-3.0	0.32	0.32	2.95	1.9	0.8	
9,612.0	1.20	145.30	9,584.1	337.6	-1.9	0.46	0.32	17.98	0.4	0.4	
9,707.0	1.30	171.20	9,679.0	335.7	-1.1	0.60	0.11	27.26	-1.4	0.6	
9,801.0	2.10	194.00	9,773.0	332.9	-1.4	1.10	0.85	24.26	-3.8	1.6	
9,896.0	2.70	208.00	9,867.9	329.3	-2.9	0.88	0.63	14.74	-7.2	2.9	
9,990.0	3.00	203.90	9,961.8	325.1	-4.9	0.39	0.32	-4.36	-12.1	2.2	
10,084.0	0.70	242.40	10,055.7	322.6	-6.4	2.65	-2.45	40.96	-10.6	10.8	
10,178.0	0.00	101.80	10,149.7	322.3	-6.9	0.74	-0.74	0.00	14.7	4.9	
10,272.0	0.20	103.50	10,243.7	322.3	-6.8	0.21	0.21	0.00	1.2	-15.4	
10,367.0	0.40	130.20	10,338.7	322.0	-6.3	0.25	0.21	28.11	-8.4	-14.3	
10,462.0	0.40	125.80	10,433.7	321.6	-5.8	0.03	0.00	-4.63	-5.9	-14.7	
10,530.0	0.30	124.90	10,501.7	321.4	-5.5	0.15	-0.15	-1.32	-8.1	-14.8	
10,581.0	0.30	29.30	10,552.7	321.4	-5.3	0.87	0.00	-187.45	15.2	-4.8	
10,590.0	0.75	157.77	10,561.7	321.4	-5.3	10.71	4.98	1,427.47	-13.2	-8.9	
KOP 10590.0' MD: 10561.7' TVD: 321.4'; -5.3'; 0.75											
10,628.0	4.80	169.70	10,599.7	319.6	-4.9	10.71	10.66	31.39	-16.6	-6.0	
10,676.0	11.20	165.30	10,647.2	313.1	-3.3	13.38	13.33	-9.17	-22.8	-7.5	
10,723.0	18.20	167.70	10,692.6	301.5	-0.6	14.95	14.89	5.11	-32.7	-5.8	
10,765.1	22.46	179.51	10,732.1	287.0	0.8	14.00	10.12	28.05	-41.7	2.5	
FTP Crossing 10765.1' MD: 10732.1' TVD: 287.0'; 0.8'; 22.46											
10,770.0	23.00	180.60	10,736.6	285.1	0.8	14.00	11.03	22.30	-42.6	3.3	
10,817.0	27.60	184.50	10,779.1	265.1	-0.1	10.40	9.79	8.30	-50.8	5.6	
10,865.0	33.00	180.30	10,820.5	240.9	-1.0	12.08	11.25	-8.75	-58.7	0.9	
10,912.0	40.10	173.50	10,858.3	213.0	0.6	17.37	15.11	-14.47	-65.8	-4.4	
10,959.0	45.60	169.40	10,892.7	181.4	5.4	13.12	11.70	-8.72	-73.0	-4.1	



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11,006.0	49.60	168.70	10,924.4	147.4	12.0	8.58	8.51	-1.49	-79.1	1.7	
11,054.0	55.70	172.20	10,953.5	109.7	18.3	13.96	12.71	7.29	-83.5	11.8	
11,101.0	60.40	174.00	10,978.4	70.2	23.1	10.51	10.00	3.83	-86.4	18.5	
11,149.0	63.00	175.20	11,001.2	28.1	27.0	5.85	5.42	2.50	-86.6	23.8	
11,196.0	65.90	177.40	11,021.4	-14.2	29.8	7.48	6.17	4.68	-83.2	28.2	
11,244.0	68.50	178.80	11,040.0	-58.4	31.2	6.05	5.42	2.92	-76.4	30.4	
11,291.0	70.60	179.70	11,056.5	-102.5	31.8	4.81	4.47	1.91	-66.4	31.3	
11,338.0	72.20	181.00	11,071.4	-147.0	31.5	4.30	3.40	2.77	-52.8	31.1	
11,385.0	74.40	181.40	11,084.9	-192.0	30.6	4.75	4.68	0.85	-39.2	29.4	
11,433.0	76.70	180.60	11,096.9	-238.5	29.8	5.06	4.79	-1.67	-27.2	27.8	
11,480.0	78.30	179.20	11,107.1	-284.4	29.8	4.48	3.40	-2.98	-17.1	27.3	
11,527.0	80.50	178.90	11,115.7	-330.6	30.6	4.72	4.68	-0.64	-8.5	27.6	
11,574.0	86.10	180.20	11,121.2	-377.2	31.0	12.23	11.91	2.77	-2.8	27.6	
11,622.0	88.60	180.00	11,123.4	-425.2	30.9	5.22	5.21	-0.42	-0.5	27.1	
11,669.0	90.20	179.20	11,123.9	-472.1	31.2	3.81	3.40	-1.70	0.2	27.1	
11,716.0	90.60	178.80	11,123.6	-519.1	32.0	1.20	0.85	-0.85	0.0	27.5	
11,811.0	90.90	180.00	11,122.4	-614.1	33.0	1.30	0.32	1.26	-0.9	27.8	
11,906.0	88.10	180.50	11,123.2	-709.1	32.6	2.99	-2.95	0.53	0.3	26.7	
12,000.0	86.70	179.90	11,127.5	-803.0	32.3	1.62	-1.49	-0.64	4.9	25.6	
12,094.0	89.10	179.70	11,130.9	-896.9	32.6	2.56	2.55	-0.21	8.7	25.3	
12,189.0	88.00	178.80	11,133.3	-991.9	33.9	1.50	-1.16	-0.95	11.4	25.8	
12,283.0	90.30	180.20	11,134.7	-1,085.9	34.7	2.86	2.45	1.49	13.2	25.9	
12,377.0	91.10	179.60	11,133.6	-1,179.9	34.9	1.06	0.85	-0.64	12.4	25.3	
12,471.0	91.40	179.10	11,131.5	-1,273.8	35.9	0.62	0.32	-0.53	10.7	25.7	
12,566.0	91.60	177.70	11,129.0	-1,368.8	38.6	1.49	0.21	-1.47	8.6	27.6	
12,660.0	92.20	180.20	11,125.9	-1,462.7	40.3	2.73	0.64	2.66	5.7	28.6	
12,754.0	92.70	181.70	11,121.9	-1,556.6	38.7	1.68	0.53	1.60	1.8	26.4	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #506H
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:	#506H	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)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,849.0	91.10	183.20	11,118.7	-1,651.4	34.7	2.31	-1.68	1.58	-1.5	21.6	
12,843.0	88.00	181.40	11,119.5	-1,745.4	30.9	3.81	-3.30	-1.91	-0.8	17.1	
13,038.0	87.70	180.10	11,123.0	-1,840.3	29.7	1.40	-0.32	-1.37	2.6	15.1	
13,132.0	87.60	179.30	11,126.9	-1,934.2	30.2	0.86	-0.11	-0.85	6.3	14.9	
13,227.0	90.50	179.30	11,128.5	-2,029.2	31.3	3.05	3.05	0.00	7.7	15.3	
13,322.0	91.40	178.40	11,126.9	-2,124.1	33.2	1.34	0.95	-0.95	6.0	16.5	
13,416.0	89.70	178.60	11,126.0	-2,218.1	35.7	1.82	-1.81	0.21	4.9	18.3	
13,510.0	89.80	177.80	11,126.4	-2,312.0	38.6	0.86	0.11	-0.85	5.2	20.5	
13,604.0	90.20	180.00	11,126.4	-2,406.0	40.4	2.38	0.43	2.34	5.1	21.6	
13,698.0	90.60	179.00	11,125.7	-2,500.0	41.3	1.15	0.43	-1.06	4.3	21.7	
13,793.0	90.10	177.20	11,125.2	-2,595.0	44.4	1.97	-0.53	-1.89	3.5	24.1	
13,887.0	88.30	178.10	11,126.5	-2,688.9	48.3	2.14	-1.91	0.96	4.7	27.3	
13,981.0	87.90	179.60	11,129.6	-2,782.8	50.1	1.65	-0.43	1.60	7.7	28.5	
14,076.0	87.70	178.80	11,133.2	-2,877.7	51.5	0.87	-0.21	-0.84	11.2	29.1	
14,170.0	90.10	179.60	11,135.0	-2,971.7	52.8	2.69	2.55	0.85	12.8	29.7	
14,264.0	89.70	175.50	11,135.2	-3,065.6	56.8	4.38	-0.43	-4.36	12.9	33.0	
14,359.0	92.10	178.20	11,133.7	-3,160.4	62.0	3.80	2.53	2.84	11.3	37.5	
14,453.0	92.70	181.70	11,129.6	-3,254.3	62.1	3.77	0.64	3.72	7.1	36.8	
14,548.0	92.80	181.90	11,125.2	-3,349.1	59.1	0.24	0.11	0.21	2.4	33.1	
14,640.0	90.00	181.20	11,123.0	-3,441.1	56.6	3.14	-3.04	-0.76	0.1	29.9	
14,736.0	89.80	180.10	11,123.1	-3,537.1	55.5	1.16	-0.21	-1.15	-0.1	28.1	
14,831.0	89.00	179.60	11,124.1	-3,632.1	55.8	0.99	-0.84	-0.53	0.3	27.7	
14,926.0	88.80	179.00	11,126.0	-3,727.0	57.0	0.67	-0.21	-0.63	1.5	28.1	
15,020.0	88.50	180.00	11,128.2	-3,821.0	57.8	1.11	-0.32	1.06	3.1	28.2	
15,115.0	89.40	181.00	11,129.9	-3,916.0	56.9	1.42	0.95	1.05	4.2	26.7	
15,209.0	89.50	180.30	11,130.8	-4,010.0	55.9	0.75	0.11	-0.74	4.5	24.9	
15,303.0	89.80	179.50	11,131.4	-4,104.0	56.0	0.91	0.32	-0.85	4.5	24.3	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #506H
Project:	Las 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:	#506H	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)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,397.0	89.10	179.80	11,132.3	-4,198.0	56.6	0.81	-0.74	0.32	4.8	24.2
15,491.0	89.90	179.10	11,133.1	-4,291.9	57.5	1.13	0.85	-0.74	5.0	24.4
15,586.0	90.20	181.60	11,133.0	-4,386.9	56.9	2.65	0.32	2.63	4.3	23.1
15,680.0	89.10	181.40	11,133.6	-4,480.9	54.5	1.19	-1.17	-0.21	4.3	19.9
15,775.0	89.00	181.10	11,135.2	-4,575.9	52.4	0.33	-0.11	-0.32	5.2	17.1
15,869.0	89.30	181.40	11,136.6	-4,669.8	50.4	0.45	0.32	0.32	6.0	14.3
15,964.0	89.10	181.30	11,137.9	-4,764.8	48.1	0.24	-0.21	-0.11	6.7	11.4
16,058.0	87.60	179.90	11,140.6	-4,858.7	47.1	2.18	-1.60	-1.49	8.8	9.7
16,153.0	88.80	180.70	11,143.6	-4,953.7	46.6	1.52	1.26	0.84	11.1	8.5
16,247.0	90.60	180.80	11,144.1	-5,047.7	45.4	1.92	1.91	0.11	11.0	6.5
16,341.0	90.70	180.70	11,143.0	-5,141.7	44.2	0.15	0.11	-0.11	9.3	4.6
16,435.0	90.40	179.70	11,142.1	-5,235.7	43.8	1.11	-0.32	-1.06	7.8	3.5
16,529.0	91.00	179.40	11,141.0	-5,329.7	44.6	0.71	0.64	-0.32	6.1	3.6
16,624.0	91.60	178.30	11,138.8	-5,424.6	46.5	1.32	0.63	-1.16	3.3	4.7
16,718.0	90.00	178.80	11,137.5	-5,518.6	48.9	1.78	-1.70	0.53	1.4	6.4
16,813.0	89.60	179.40	11,137.8	-5,613.6	50.4	0.76	-0.42	0.63	1.4	7.2
16,907.0	89.70	179.60	11,138.4	-5,707.5	51.2	0.24	0.11	0.21	1.6	7.3
17,002.0	89.80	181.10	11,138.8	-5,802.5	50.6	1.58	0.11	1.58	1.7	6.0
17,097.0	90.00	181.00	11,139.0	-5,897.5	48.9	0.24	0.21	-0.11	1.5	3.5
17,191.0	89.30	180.20	11,139.6	-5,991.5	47.9	1.13	-0.74	-0.85	1.8	1.8
17,285.0	88.40	179.80	11,141.4	-6,085.5	47.9	1.05	-0.98	-0.43	3.3	1.1
17,380.0	88.50	179.40	11,144.0	-6,180.5	48.5	0.43	0.11	-0.42	5.5	1.1
17,474.0	91.20	180.00	11,144.3	-6,274.4	49.0	2.94	2.87	0.64	5.4	0.8
17,568.0	91.50	180.10	11,142.0	-6,368.4	48.9	0.34	0.32	0.11	2.9	0.0
17,663.0	92.30	180.80	11,138.9	-6,463.4	48.2	1.12	0.84	0.74	-0.6	-1.4
17,757.0	91.90	181.20	11,135.4	-6,557.3	46.6	0.60	-0.43	0.43	-4.4	-3.8
17,852.0	91.20	180.20	11,132.9	-6,652.2	45.4	1.28	-0.74	-1.05	-7.3	-5.7



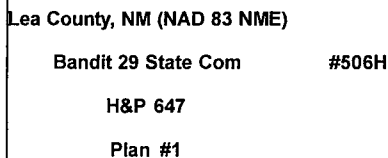
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #506H
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:	#506H	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)
17,947.0	89.70	179.80	11,132.1	-6,747.2	45.4	1.63	-1.58	-0.42	-8.4	-6.4
18,041.0	89.70	179.60	11,132.6	-6,841.2	45.9	0.21	0.00	-0.21	-8.2	-6.6
18,136.0	89.80	179.50	11,133.0	-6,936.2	46.6	0.15	0.11	-0.11	-8.2	-6.6
18,231.0	90.10	179.60	11,133.1	-7,031.2	47.4	0.33	0.32	0.11	-8.4	-6.6
18,325.0	88.70	178.40	11,134.1	-7,125.2	49.0	1.96	-1.49	-1.28	-7.8	-5.6
18,419.0	88.70	178.00	11,136.2	-7,219.1	52.0	0.43	0.00	-0.43	-6.0	-3.4
18,514.0	87.60	177.40	11,139.3	-7,314.0	55.8	1.32	-1.16	-0.63	-3.3	-0.3
18,558.0	87.80	177.30	11,141.1	-7,357.9	57.8	0.51	0.45	-0.23	-1.7	1.4
Last MWD Survey (MD = 18558.0)										
18,618.0	87.50	177.40	11,143.5	-7,417.8	60.6	0.53	-0.50	0.17	0.6	3.7
Projection to Bit (MD = 18618.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
10,590.0	10,561.7	321.4	-5.3	KOP 10590.0' MD; 10561.7' TVD; 321.4'; -5.3'; 0.75
10,765.1	10,732.1	287.0	0.8	FTP Crossing 10765.1' MD; 10732.1' TVD; 287.0'; 0.8'; 22.46
18,558.0	11,141.1	-7,357.9	57.8	Last MWD Survey (MD = 18558.0)
18,618.0	11,143.5	-7,417.8	60.6	Projection to Bit (MD = 18618.0)

Checked By: _____	Approved By: _____	Date: _____
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Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Diagnose-Plan
Diagnose: +7441-Pan
Plan: 011-800-3030
Diagnose-Plan
Diagnose: +7441-Pan
Plan: 011-800-3030

To convert a Magnetic Direction to a Grid Direction, Add 6.45°
To convert a Magnetic Direction to a True Direction, Add 6.84° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

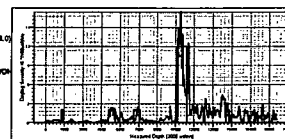
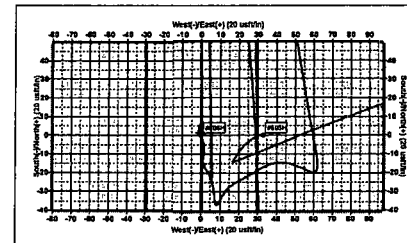
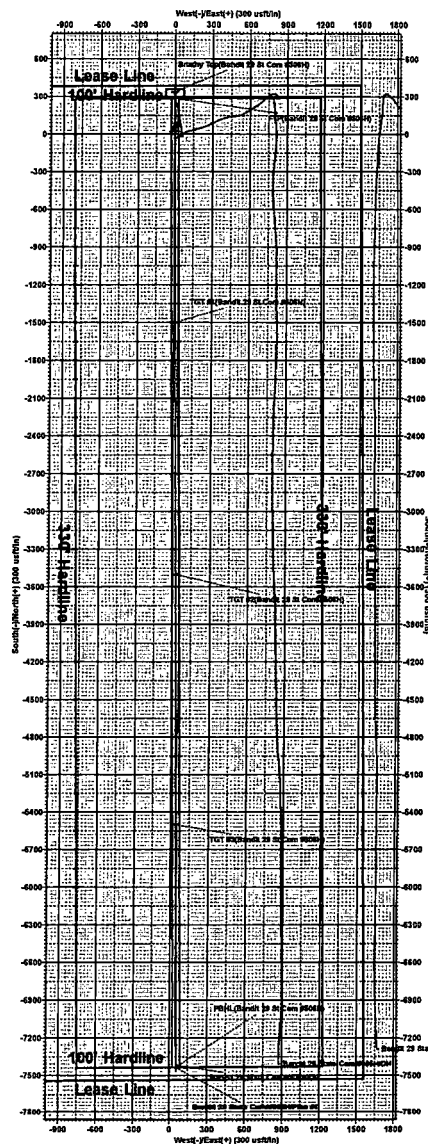
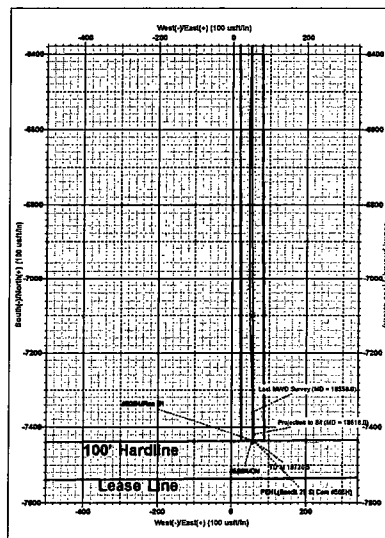
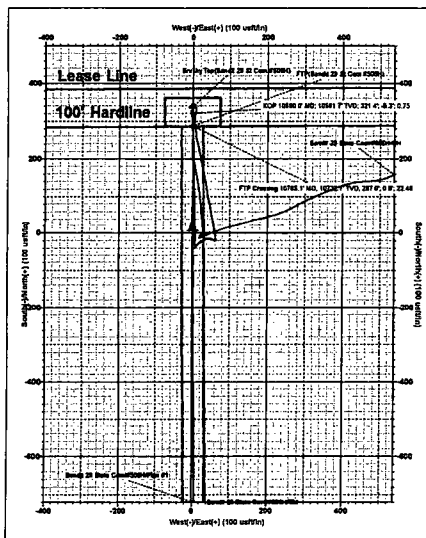
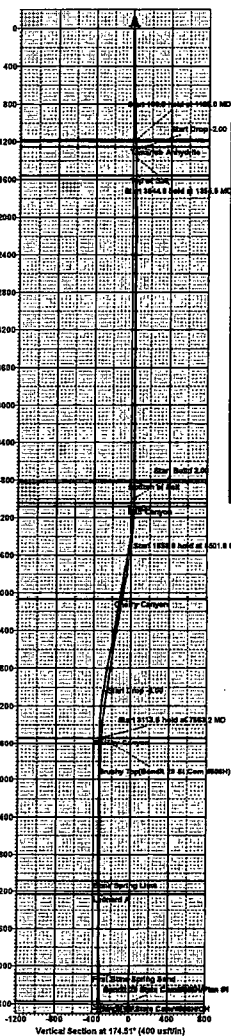
WELL DETAILS: #506H					
3539.0					
KB = 25 @ 3564.0usft (H&P 647)					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	435395.00	768433.00	32° 11' 41.450 N	103° 35' 57.087 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSet	Target
1	1185.0	1.41	141.42	1184.8	-19.6	3.8	0.00	0.00	19.6	
2	1285.0	1.41	141.42	1284.8	-21.5	5.4	0.00	0.00	21.6	
3	1355.5	0.00	0.00	1355.2	-22.2	5.9	2.00	180.00	22.3	
4	5000.3	0.00	0.00	5000.0	-22.2	5.9	0.00	0.00	22.3	
5	5501.8	10.03	358.74	5499.0	21.6	5.0	2.00	358.74	-21.5	
6	7061.8	10.03	358.74	7035.0	293.2	-1.0	0.00	0.00	-293.2	
7	7563.2	0.00	0.00	7534.0	337.0	-2.0	2.00	180.00	-337.0	Brushy Top(Bandit 29 St Com #506H)
8	10676.7	0.00	0.00	10647.5	337.0	-2.0	0.00	0.00	-337.0	
9	11428.5	90.21	179.58	11125.0	-142.2	1.6	12.00	179.58	142.2	
10	12786.3	90.21	179.58	11120.0	-1500.0	11.9	0.00	0.00	1800.0	TGT #1(Bandit 29 St Com #506H)
11	12801.1	89.81	179.58	11120.0	-1514.8	12.1	2.00	-180.00	1514.8	
12	14786.3	89.81	179.58	11120.0	-499.9	27	0.00	0.00	499.9	TGT #2(Bandit 29 St Com #506H)
13	14800.6	89.63	179.58	11123.1	-3514.2	27.2	2.00	-180.00	3514.3	
14	16786.3	89.63	179.58	11126.8	-5498.8	42.3	0.00	0.00	5500.0	TGT #3(Bandit 29 St Com #506H)
15	16794.6	89.79	179.58	11136.6	-5508.1	42.4	2.00	0.00	5508.3	
16	18720.5	89.79	179.58	11143.0	-7434.0	57.0	0.00	0.00	7434.2	PBHL(Bandit 29 St Com #506H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TV54	+W/S	+E/W	Nothing	Easting	Shape
Brushy Top(Bandit 29 St Con #506H)	7534.0	237.0	-2.0	435732.00	768431.00	Polygon
TOT #1(Bandit 29 St Con #506H)	11120.0	-1500.0	11.9	433895.00	768444.95	Point
TOT #2(Bandit 29 St Con #506H)	11122.0	-349.9	21.1	431896.10	768450.13	Point
FW(Bandit 29 St Con #506H)	11125.0	287.0	-2.0	435920.00	768451.00	Point
TOT #3(Bandit 29 St Con #506H)	11126.0	-569.9	62.3	429895.00	768475.31	Point
PBLH(Bandit 29 St Con #506H)	11143.0	-7434.0	57.0	427961.00	768450.00	Polygon



LFA County Jail #602 87 N
Burling 29 Street Cam
JPSUM
HSP SAT
CM
Plan #1