

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Bandit 29 State Com
#505H
OH

Design: OH

Midland PVA

07 August, 2018





Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3563.0usft (H&P 647)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3563.0usft (H&P 647)
Well:	#505H	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	#505H					
Well Position	+N-S	0.0 usft	Northing:	435,395.00 usft	Latitude:	32° 11' 41.448 N
	+E-W	0.0 usft	Easting:	768,466.00 usft	Longitude:	103° 35' 56.703 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,538.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	7/22/2018	6.85	60.02	47,804,43066315

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	173.63	



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Survey Program	Date	8/7/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
166.0	1,117.0	Cartel 41 8' KB + 17' (OH)	MWD	OWSG MWD - Standard	
1,313.0	18,580.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	NIS (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
166.0	0.24	231.68	166.0	-0.2	-0.3	0.14	0.14	0.00	0.0	0.0
293.0	0.77	287.05	293.0	-0.1	-1.3	0.52	0.42	43.60	0.0	0.0
483.0	1.10	235.63	483.0	-0.8	-4.0	0.45	0.17	-27.06	0.0	0.0
641.0	1.30	234.67	640.9	-2.7	-6.7	0.13	0.13	-0.61	0.0	0.0
799.0	1.45	226.76	798.9	-5.1	-9.7	0.15	0.09	-5.01	0.0	0.0
926.0	1.12	221.04	925.9	-7.1	-11.6	0.28	-0.26	-4.50	0.0	0.0
1,117.0	1.32	203.73	1,116.8	-10.5	-13.8	0.22	0.10	-9.06	0.0	0.0
1,313.0	1.10	228.60	1,312.8	-13.9	-16.1	0.29	-0.11	12.69	-0.9	-1.1
1,403.0	1.30	74.90	1,402.8	-14.2	-15.7	2.60	0.22	-170.78	2.2	1.1
1,494.0	4.00	69.80	1,493.7	-12.8	-11.8	2.98	2.97	-5.60	0.3	1.9
1,683.0	5.80	66.70	1,682.0	-6.7	3.2	0.96	0.95	-1.64	-6.5	2.7
1,873.0	5.90	68.10	1,871.0	0.7	21.1	0.09	0.05	0.74	-10.1	2.9
2,061.0	6.40	69.20	2,057.9	8.0	39.8	0.27	0.27	0.59	-10.7	2.0
2,251.0	7.30	71.30	2,246.5	15.7	61.2	0.49	0.47	1.11	-13.5	0.7
2,440.0	8.00	73.80	2,433.8	23.2	85.2	0.41	0.37	1.32	-19.1	-1.1
2,629.0	9.40	72.60	2,620.7	31.5	112.5	0.75	0.74	-0.63	-28.1	-4.2
2,819.0	10.70	74.40	2,807.7	40.8	144.3	0.70	0.68	0.95	-41.9	-6.0
3,007.0	11.20	76.00	2,992.3	50.0	178.9	0.31	0.27	0.85	-58.6	-7.9
3,196.0	11.00	67.30	3,177.8	61.4	213.3	0.69	-0.11	-4.60	-73.3	-20.1
3,385.0	10.10	62.20	3,383.6	76.0	244.6	0.69	-0.48	-2.70	-86.2	-27.0



Midland PVA



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Wellbore: OH
Design: OH

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MD Reference: KB = 25 @ 3563.0usft (H&P 647)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Bulld. (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,574.0	9.10	64.10	3,550.0	90.3	272.7	0.55	-0.53	1.01	-98.9	-23.2	
3,764.0	8.80	66.40	3,737.6	102.7	299.5	0.25	-0.16	1.21	-109.5	-18.9	
3,952.0	8.30	68.60	3,923.6	113.4	325.4	0.32	-0.27	1.17	-118.6	-15.3	
4,141.0	7.80	68.40	4,110.7	123.1	350.0	0.26	-0.26	-0.11	-125.3	-16.7	
4,330.0	7.30	72.60	4,298.1	131.4	373.4	0.39	-0.26	2.22	-131.4	-9.1	
4,519.0	7.10	79.30	4,485.6	137.2	396.3	0.46	-0.11	3.54	-136.0	2.9	
4,707.0	7.20	88.10	4,672.1	139.7	419.5	0.58	0.05	4.68	-139.2	17.7	
4,896.0	7.00	83.00	4,859.7	141.5	442.8	0.35	-0.11	-2.70	-144.7	-1.7	
4,967.0	6.60	85.00	4,930.2	142.4	451.1	0.65	-0.56	2.82	-146.1	1.0	
5,082.0	5.70	83.00	5,044.5	143.7	463.4	0.80	-0.78	-1.74	-146.3	-8.2	
5,270.0	8.50	68.30	5,231.1	149.9	485.5	1.76	1.49	-7.82	-132.2	-48.7	
5,459.0	10.40	63.80	5,417.5	162.6	513.8	1.08	1.01	-2.38	-116.9	-58.6	
5,647.0	9.50	60.20	5,602.7	177.8	542.5	0.58	-0.48	-1.91	-101.4	-62.6	
5,836.0	9.30	58.60	5,789.1	193.5	569.1	0.17	-0.11	-0.85	-86.3	-60.4	
6,025.0	8.50	56.90	5,975.8	209.1	593.8	0.45	-0.42	-0.90	-69.6	-56.7	
6,213.0	7.90	55.70	6,161.9	224.0	616.1	0.33	-0.32	-0.64	-51.5	-50.9	
6,401.0	7.50	56.40	6,348.2	238.1	637.0	0.22	-0.21	0.37	-33.5	-43.0	
6,590.0	7.40	52.40	6,535.6	252.3	657.0	0.28	-0.05	-2.12	-11.5	-35.9	
6,779.0	7.00	51.20	6,723.1	267.0	675.6	0.23	-0.21	-0.63	8.7	-25.4	
6,968.0	8.50	47.00	6,910.4	283.7	694.8	0.85	0.79	-2.22	27.0	-11.6	
7,157.0	7.90	50.40	7,097.5	301.5	715.0	0.41	-0.32	1.80	33.5	-3.0	
7,346.0	5.60	59.70	7,285.2	314.4	733.0	1.34	-1.22	4.92	33.2	-3.8	
7,535.0	4.00	83.80	7,473.5	319.8	747.5	1.34	-0.85	12.75	23.5	-16.5	
7,724.0	2.10	86.00	7,662.2	320.8	757.5	1.01	-1.01	1.16	13.4	-17.4	
7,912.0	2.10	96.70	7,850.1	320.6	764.3	0.21	0.00	5.69	3.1	-18.9	
8,101.0	1.70	91.70	8,039.0	320.1	770.6	0.23	-0.21	-2.65	-1.5	-18.8	
8,289.0	1.60	106.80	8,226.9	319.3	775.9	0.24	-0.05	8.03	-11.7	-17.1	



Midland PVA



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MD Reference: KB = 25 @ 3563.0usft (H&P 647)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,478.0	1.50	120.70	8,415.9	317.2	780.5	0.21	-0.05	7.35	-20.5	-13.1	
8,667.0	1.30	142.20	8,604.8	314.3	784.0	0.30	-0.11	11.38	-28.3	-3.8	
8,856.0	1.10	155.20	8,793.8	311.0	786.1	0.18	-0.11	6.88	-32.4	3.2	
9,045.0	1.00	169.70	8,982.7	307.7	787.1	0.15	-0.05	7.67	-33.9	11.6	
9,234.0	1.20	191.10	9,171.7	304.1	787.0	0.24	0.11	11.32	-30.9	23.8	
9,422.0	1.00	167.30	9,359.7	300.6	787.0	0.26	-0.11	-12.66	-41.3	8.5	
9,611.0	0.80	232.20	9,548.6	298.4	786.6	0.49	-0.21	34.34	-11.5	42.5	
9,800.0	2.40	268.60	9,737.6	297.7	781.8	1.03	0.95	19.26	11.2	41.6	
9,989.0	2.90	295.50	9,926.4	299.6	773.6	0.70	0.26	14.23	20.5	33.8	
10,177.0	2.40	289.80	10,114.2	303.0	765.6	0.30	-0.27	-3.03	8.4	35.2	
10,366.0	1.50	271.80	10,303.1	304.4	759.4	0.57	-0.48	-9.52	-9.1	34.9	
10,487.0	1.80	252.30	10,424.0	303.9	756.0	0.52	0.25	-16.12	-23.6	29.3	
10,520.0	2.54	200.93	10,457.0	303.1	755.2	6.05	2.25	-155.58	-38.7	-0.6	
KOP 10520.0' MD; 10457.0' TVD; 303.1'; 755.2'; 2.54											
10,534.0	3.20	190.20	10,471.0	302.4	755.1	6.05	4.70	-76.74	-38.6	-7.8	
10,582.0	8.80	165.90	10,518.7	297.5	755.7	12.56	11.67	-50.63	-36.7	-23.8	
10,622.1	15.54	165.63	10,557.9	289.3	757.8	16.81	16.81	-0.69	-44.8	-24.5	
FTP Crossing 10622.1' MD; 10557.9' TVD; 289.3'; 757.8'; 15.54											
10,629.0	16.70	165.60	10,564.5	287.5	758.3	16.81	16.81	-0.37	-46.7	-24.5	
10,676.0	21.30	170.80	10,608.9	272.5	761.3	10.42	9.79	11.06	-61.7	-19.0	
10,723.0	24.80	176.20	10,652.2	254.2	763.3	8.69	7.45	11.49	-75.2	-11.6	
10,771.0	28.70	175.40	10,695.0	232.7	764.9	8.16	8.13	-1.67	-86.0	-11.8	
10,818.0	33.50	175.80	10,735.3	208.5	766.8	10.22	10.21	0.85	-95.9	-9.9	
10,866.0	37.30	175.90	10,774.4	180.7	768.8	7.92	7.92	0.21	-104.9	-8.1	
10,913.0	39.20	176.60	10,811.3	151.7	770.7	4.15	4.04	1.49	-111.5	-5.2	
10,960.0	41.00	173.60	10,847.2	121.6	773.3	5.62	3.83	-6.38	-114.5	-7.2	
11,007.0	41.10	173.00	10,882.7	90.9	776.9	0.86	0.21	-1.28	-113.8	-3.8	



Midland PVA



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11,055.0	42.10	177.20	10,918.6	59.2	779.6	6.17	2.08	8.75	-108.5	5.1	
11,102.0	46.50	178.70	10,952.2	26.4	780.8	9.62	9.36	3.19	-100.7	8.1	
11,149.0	51.40	180.00	10,983.1	-9.1	781.1	10.63	10.43	2.77	-92.1	9.4	
11,196.0	58.40	181.20	11,010.1	-47.5	780.7	15.04	14.89	2.55	-83.9	9.2	
11,244.0	65.00	183.60	11,032.8	-89.7	778.9	14.44	13.75	5.00	-76.7	7.7	
11,291.0	68.90	183.60	11,051.2	-132.8	776.2	8.30	8.30	0.00	-69.5	4.0	
11,339.0	72.30	185.70	11,067.2	-178.0	772.5	8.20	7.08	4.38	-60.8	-0.3	
11,386.0	76.10	186.20	11,080.0	-222.9	767.9	8.15	8.09	1.06	-51.0	-6.0	
11,434.0	79.10	184.60	11,090.3	-269.6	763.4	7.05	6.25	-3.33	-40.4	-11.0	
11,480.0	80.20	184.90	11,098.5	-314.7	759.7	2.48	2.39	0.65	-31.8	-15.0	
11,528.0	84.70	183.10	11,104.8	-362.1	756.4	10.08	9.38	-3.75	-25.0	-18.6	
11,622.0	89.90	177.00	11,109.3	-456.0	756.3	8.52	5.53	-6.49	-19.7	-19.4	
11,717.0	90.30	176.70	11,109.1	-550.8	761.5	0.53	0.42	-0.32	-19.0	-14.9	
11,812.0	89.90	176.00	11,108.9	-645.6	767.6	0.85	-0.42	-0.74	-18.3	-9.5	
11,906.0	89.70	175.40	11,109.3	-739.4	774.6	0.67	-0.21	-0.64	-17.1	-3.2	
12,001.0	89.90	175.20	11,109.6	-834.0	782.4	0.30	0.21	-0.21	-15.9	3.8	
12,095.0	88.90	178.80	11,110.6	-927.9	787.3	3.97	-1.06	3.83	-14.0	8.0	
12,190.0	91.00	180.00	11,110.7	-1,022.9	788.3	2.55	2.21	1.26	-13.1	8.3	
12,284.0	90.70	179.80	11,109.3	-1,116.9	788.5	0.38	-0.32	-0.21	-13.6	7.7	
12,378.0	90.80	179.60	11,108.0	-1,210.9	789.0	0.24	0.11	-0.21	-13.9	7.5	
12,472.0	90.10	178.80	11,107.3	-1,304.8	790.3	1.13	-0.74	-0.85	-13.8	8.1	
12,566.0	90.30	178.20	11,107.0	-1,398.8	792.8	0.67	0.21	-0.64	-13.2	9.8	
12,660.0	90.60	178.90	11,106.2	-1,492.8	795.1	0.81	0.32	0.74	-13.7	11.5	
12,755.0	89.90	180.10	11,105.8	-1,587.8	796.0	1.46	-0.74	1.26	-14.3	11.6	
12,849.0	88.10	180.90	11,107.5	-1,681.7	795.1	2.10	-1.91	0.85	-12.8	10.1	
12,943.0	87.90	181.80	11,110.7	-1,775.7	792.9	0.98	-0.21	0.96	-9.6	7.1	
13,038.0	89.50	182.00	11,112.9	-1,870.6	789.8	1.70	1.68	0.21	-7.6	3.3	



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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)
13,132.0	90.10	182.80	11,113.2	-1,964.5	785.8	1.08	0.64	0.85	-7.5	-1.4
13,227.0	90.40	183.20	11,112.8	-2,059.4	780.9	0.53	0.32	0.42	-8.0	-7.1
13,322.0	91.20	183.10	11,111.5	-2,154.2	775.7	0.85	0.84	-0.11	-9.5	-13.0
13,416.0	90.50	182.00	11,110.1	-2,248.1	771.5	1.39	-0.74	-1.17	-11.0	-17.9
13,510.0	90.00	180.90	11,109.7	-2,342.1	769.1	1.29	-0.53	-1.17	-11.6	-21.0
13,604.0	90.50	181.10	11,109.3	-2,436.1	767.5	0.57	0.53	0.21	-12.2	-23.4
13,698.0	88.00	180.40	11,110.5	-2,530.0	766.2	2.76	-2.66	-0.74	-11.1	-25.3
13,793.0	88.30	180.90	11,113.6	-2,625.0	765.1	0.61	0.32	0.53	-8.2	-27.1
13,887.0	88.50	180.60	11,116.2	-2,718.9	763.9	0.38	0.21	-0.32	-5.7	-29.1
13,982.0	87.20	179.40	11,119.8	-2,813.9	763.9	1.86	-1.37	-1.26	-2.3	-29.8
14,076.0	87.00	178.90	11,124.5	-2,907.7	765.3	0.57	-0.21	-0.53	2.4	-29.1
14,170.0	87.50	178.90	11,129.0	-3,001.6	767.1	0.53	0.53	0.00	6.7	-28.0
14,264.0	90.10	179.30	11,131.0	-3,095.6	768.6	2.80	2.77	0.43	8.5	-27.3
14,359.0	90.20	179.20	11,130.7	-3,190.5	769.8	0.15	0.11	-0.11	8.1	-26.8
14,453.0	90.60	178.80	11,130.1	-3,284.5	771.5	0.60	0.43	-0.43	7.3	-25.8
14,548.0	90.50	178.50	11,129.2	-3,379.5	773.7	0.33	-0.11	-0.32	6.3	-24.3
14,642.0	90.60	177.80	11,128.3	-3,473.4	776.7	0.75	0.11	-0.74	5.0	-22.0
14,737.0	90.10	176.10	11,127.7	-3,568.3	781.8	1.87	-0.53	-1.79	3.9	-17.7
14,832.0	89.40	176.50	11,128.1	-3,663.1	787.9	0.85	-0.74	0.42	3.7	-12.3
14,927.0	90.50	178.60	11,128.2	-3,758.0	792.0	2.50	1.16	2.21	3.1	-9.0
15,021.0	90.80	180.00	11,127.1	-3,852.0	793.1	1.82	0.32	1.49	1.4	-8.5
15,116.0	90.60	178.80	11,126.0	-3,947.0	794.1	1.28	-0.21	-1.26	-0.3	-8.3
15,210.0	90.60	179.30	11,125.0	-4,041.0	795.7	0.53	0.00	0.53	-1.9	-7.4
15,303.0	90.20	179.40	11,124.3	-4,134.0	796.7	0.44	-0.43	0.11	-3.2	-7.1
15,398.0	90.50	179.10	11,123.8	-4,228.9	798.0	0.45	0.32	-0.32	-4.4	-6.5
15,492.0	89.80	178.50	11,123.5	-4,322.9	800.0	0.98	-0.74	-0.64	-5.2	-5.3
15,586.0	89.50	179.40	11,124.1	-4,416.9	801.7	1.01	-0.32	0.96	-5.3	-4.3



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3563.0usft (H&P 647)
Site:	Bandit 28 State Com	MD Reference:	KB = 25 @ 3563.0usft (H&P 647)
Well:	#505H	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)	
15,681.0	88.80	178.20	11,125.5	-4,511.9	803.7	1.46	-0.74	-1.26	-4.5	-3.0	
15,775.0	88.00	177.30	11,128.1	-4,605.8	807.4	1.28	-0.85	-0.96	-2.5	-0.1	
15,870.0	89.30	177.40	11,130.4	-4,700.6	811.7	1.37	1.37	0.11	-0.8	3.6	
15,964.0	89.80	177.10	11,131.1	-4,794.5	816.3	0.62	0.53	-0.32	-0.7	7.4	
16,059.0	89.00	176.80	11,132.1	-4,889.4	821.3	0.90	-0.84	-0.32	-0.3	11.7	
16,153.0	88.30	175.40	11,134.3	-4,983.1	827.7	1.66	-0.74	-1.49	1.2	17.4	
16,248.0	89.30	175.20	11,136.3	-5,077.8	835.5	1.07	1.05	-0.21	2.6	24.5	
16,342.0	88.60	176.90	11,138.0	-5,171.5	842.0	1.96	-0.74	1.81	3.7	30.2	
16,436.0	88.30	176.80	11,140.6	-5,265.4	847.1	0.34	-0.32	-0.11	5.7	34.7	
16,530.0	88.40	178.20	11,143.3	-5,359.2	851.2	1.49	0.11	1.49	7.8	38.0	
16,624.0	87.60	178.80	11,146.5	-5,453.1	853.7	1.06	-0.85	0.64	10.5	39.8	
16,719.0	89.80	179.90	11,148.7	-5,548.1	854.8	2.59	2.32	1.16	12.6	40.1	
16,814.0	90.70	180.40	11,148.3	-5,643.1	854.5	1.08	0.95	0.53	12.1	39.2	
16,908.0	90.20	179.90	11,147.5	-5,737.1	854.3	0.75	-0.53	-0.53	11.4	38.2	
17,003.0	90.60	179.60	11,146.9	-5,832.1	854.7	0.53	0.42	-0.32	10.6	37.9	
17,098.0	91.10	179.50	11,145.5	-5,927.1	855.4	0.54	0.53	-0.11	9.2	37.9	
17,192.0	91.20	178.80	11,143.6	-6,021.1	856.8	0.75	0.11	-0.74	7.3	38.6	
17,286.0	91.50	180.40	11,141.4	-6,115.0	857.5	1.73	0.32	1.70	5.0	38.5	
17,380.0	91.70	180.10	11,138.7	-6,209.0	857.1	0.38	0.21	-0.32	2.3	37.4	
17,474.0	91.60	179.10	11,136.0	-6,302.9	857.7	1.07	-0.11	-1.06	-0.4	37.3	
17,569.0	90.30	179.20	11,134.5	-6,397.9	859.1	1.37	-1.37	0.11	-2.0	38.0	
17,664.0	90.10	180.10	11,134.1	-6,492.9	859.7	0.97	-0.21	0.95	-2.4	37.9	
17,758.0	89.80	178.60	11,134.2	-6,586.9	860.8	1.63	-0.32	-1.60	-2.4	38.2	
17,853.0	90.00	179.60	11,134.4	-6,681.9	862.3	1.07	0.21	1.05	-2.3	39.0	
17,947.0	90.60	178.90	11,133.9	-6,775.9	863.5	0.98	0.64	-0.74	-2.8	39.5	
18,041.0	89.60	178.60	11,133.7	-6,869.9	865.5	1.11	-1.06	-0.32	-3.0	40.8	
18,136.0	90.90	182.20	11,133.3	-6,964.8	864.9	4.03	1.37	3.79	-3.5	39.4	



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3563.0usft (H&P 647)
Site:	Bandit 28 State Com	MD Reference:	KB = 25 @ 3563.0usft (H&P 647)
Well:	#505H	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)
18,168.0	90.90	183.20	11,132.8	-6,996.8	863.4	3.12	0.00	3.13	-4.0	37.7
18,199.0	89.30	183.30	11,132.8	-7,027.7	861.6	5.17	-5.16	0.32	-4.0	35.7
18,231.0	88.60	184.30	11,133.3	-7,059.7	859.5	3.81	-2.19	3.13	-3.4	33.3
18,262.0	88.00	184.30	11,134.3	-7,090.6	857.2	1.94	-1.94	0.00	-2.5	30.8
18,325.0	87.80	183.50	11,136.6	-7,153.4	852.9	1.31	-0.32	-1.27	-0.2	26.0
18,420.0	87.40	183.30	11,140.5	-7,248.1	847.3	0.47	-0.42	-0.21	3.7	19.6
18,514.0	86.10	181.70	11,145.9	-7,341.9	843.2	2.19	-1.38	-1.70	8.9	14.8
Last MWD Survey (MD = 18514.0)										
18,580.0	86.10	181.70	11,150.4	-7,407.7	841.2	0.00	0.00	0.00	13.4	12.4
Projection to Bit (MD = 18580.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
10,520.0	10,457.0	303.1	755.2	KOP 10520.0' MD; 10457.0' TVD; 303.1'; 755.2'; 2.54
10,622.1	10,557.9	289.3	757.8	FTP Crossing 10622.1' MD; 10557.9' TVD; 289.3'; 757.8'; 15.54
18,514.0	11,145.9	-7,341.9	843.2	Last MWD Survey (MD = 18514.0)
18,580.0	11,150.4	-7,407.7	841.2	Projection to Bit (MD = 18580.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Bandit 29 State Com

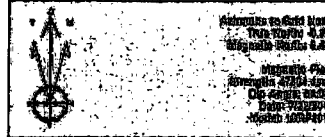
#505H

H&P 647

Plan #3

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



To convert a Magnetic Direction to a Grid Direction, Add 6.45°
To convert a Magnetic Direction to a True Direction, Add 6.85° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

WELL DETAILS: #505H

3538.0
KB = 25 @ 3563.0' (H&P 647)
Northing 435395.00 Easting 768468.00 32° 11' 41.44" N Longitude 103° 35' 58.703" W Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSecl	Target
1	1117.0	1.32	203.73	1116.8	-10.5	-13.8	0.00	0.00	9.0	
2	1200.2	1.32	203.73	1200.0	-12.3	-14.5	0.00	0.00	10.6	
3	1904.3	6.00	65.40	1902.9	-4.4	15.7	1.00	-145.48	6.1	
4	5018.4	6.00	65.40	5000.0	131.1	311.7	0.00	0.00	-9.7	
5	5395.9	13.55	65.59	5371.8	157.6	370.0	2.00	0.34	-115.6	
6	6928.6	13.55	65.59	6861.8	306.0	697.0	0.00	0.00	-226.9	
7	7606.1	0.00	0.00	7533.0	339.0	769.6	2.00	180.00	-251.6	
8	10631.2	0.00	0.00	10558.1	339.0	769.6	0.00	0.00	-251.6	KOP (Bandit 29 St Com #505H)
9	11536.6	90.53	179.56	11131.0	-239.3	774.0	10.00	179.92	323.6	TGT#1 (Bandit 29 St Com #505H)
10	12719.3	90.53	179.56	11120.0	-1421.9	783.1	0.00	0.00	1500.0	TGT#2 (Bandit 29 St Com #505H)
11	12750.5	89.91	179.56	11119.9	-1453.1	783.3	2.00	179.92	1531.0	TGT#3 (Bandit 29 St Com #505H)
12	14730.0	89.91	179.56	11123.0	-3432.6	798.4	0.00	0.00	3500.0	
13	14744.1	89.63	179.56	11123.1	-3446.7	798.6	2.00	-180.00	3513.9	
14	16740.8	89.63	179.56	11136.0	-5443.3	813.8	0.00	0.00	5500.0	
15	16758.0	89.97	179.56	11136.1	-5460.5	813.9	2.00	0.00	5517.1	
16	18727.6	89.97	179.56	11137.0	-7430.0	829.0	0.00	0.00	7476.1	PBHL (Bandit 29 St Com #505H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP (Bandit 29 St Com #505H)	10558.1	339.0	769.6	435734.00	769235.60	Polygon
TGT#1 (Bandit 29 St Com #505H)	11120.0	-1421.9	783.1	433973.10	769249.08	Point
TGT#2 (Bandit 29 St Com #505H)	11123.0	-3432.6	798.4	431982.40	769254.46	Point
TGT#3 (Bandit 29 St Com #505H)	11131.0	-5460.5	813.9	429951.70	769279.82	Point
PBHL (Bandit 29 St Com #505H)	11137.0	-7430.0	829.0	427965.00	769295.00	Polygon

