

30-025-4438

HOBBS OCD

JUL 17 2018

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#501H

OH

Design: OH

PVA Report

09 May, 2018

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	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	#501H					
Well Position	+N-S	0.0 usft	Northing:	435,375.00 usft	Latitude:	32° 11' 41.017 N
	+E-W	0.0 usft	Easting:	771,884.00 usft	Longitude:	103° 35' 16.930 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,528.0 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/15/2018	6.90	60.03	47,858.53669251

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	176.93	

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Wellbore:	.OH	Survey Calculation Method:	Minimum Curvature
Design:	.OH	Database:	EDM 5000.14

Survey Program		Date 5/9/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	4,850.0	Phoenix Gryo (OH)	CT_GYRO_MS	Continuous Gryo Multishot
5,045.0	18,528.0	Phoenix MWD (OH)	MWD	OWSG MWD - Standard

MD (usft)	Inc (")	Azi (grid_north_azim)	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
100.0	0.19	19.57	100.0	0.2	0.1	0.19	0.19	0.00	0.0	0.0
125.0	0.26	40.42	125.0	0.2	0.1	0.43	0.28	83.40	0.0	0.0
150.0	0.38	18.07	150.0	0.4	0.2	0.68	0.48	-89.40	0.0	0.0
175.0	0.45	10.50	175.0	0.5	0.2	0.36	0.28	-30.28	0.0	0.0
200.0	0.46	14.93	200.0	0.7	0.3	0.15	0.04	17.72	0.0	0.0
225.0	0.70	18.28	225.0	1.0	0.3	0.97	0.96	13.40	0.0	0.0
250.0	0.70	10.05	250.0	1.3	0.4	0.40	0.00	-32.92	0.0	0.0
275.0	0.82	15.14	275.0	1.6	0.5	0.55	0.48	20.36	0.0	0.0
300.0	1.14	16.48	300.0	2.0	0.6	1.28	1.28	5.36	0.0	0.0
325.0	1.51	14.66	325.0	2.6	0.7	1.49	1.48	-7.28	0.0	0.0
350.0	1.54	14.47	350.0	3.2	0.9	0.12	0.12	-0.76	0.0	0.0
375.0	1.75	16.79	375.0	3.9	1.1	0.88	0.84	9.28	0.0	0.0
400.0	2.21	14.31	399.9	4.7	1.3	1.87	1.84	-9.92	0.0	0.0
425.0	2.60	11.03	424.9	5.7	1.6	1.65	1.56	-13.12	0.0	0.0
450.0	2.92	13.82	449.9	6.9	1.8	1.39	1.28	11.16	0.0	0.0
475.0	3.81	15.59	474.9	8.3	2.2	3.58	3.56	7.08	0.0	0.0
500.0	4.27	15.91	499.8	10.0	2.7	1.84	1.84	1.28	0.0	0.0
525.0	4.68	16.73	524.7	11.9	3.2	1.66	1.64	3.28	0.0	0.0
550.0	4.83	14.00	549.6	13.9	3.8	1.09	0.60	-10.92	0.0	0.0
575.0	4.86	10.48	574.5	16.0	4.2	1.20	0.12	-14.08	0.0	0.0

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLog ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
600.0	4.67	5.57	599.5	18.0	4.5	1.80	-0.76	-19.64	0.0	0.0	
625.0	4.51	4.00	624.4	20.0	4.7	0.81	-0.64	-6.28	0.0	0.0	
650.0	4.20	1.07	649.3	21.9	4.8	1.53	-1.24	-11.72	0.0	0.0	
675.0	3.50	352.50	674.2	23.6	4.7	3.62	-2.80	-34.28	0.0	0.0	
700.0	3.66	353.83	699.2	25.1	4.5	0.72	0.64	5.32	0.0	0.0	
725.0	3.74	350.89	724.1	26.7	4.3	0.82	0.32	-11.76	0.0	0.0	
750.0	3.31	345.87	749.1	28.2	4.0	2.12	-1.72	-20.08	0.0	0.0	
775.0	3.42	340.96	774.1	29.6	3.6	1.23	0.44	-19.64	0.0	0.0	
800.0	3.41	335.46	799.0	31.0	3.0	1.31	-0.04	-22.00	0.0	0.0	
825.0	3.69	339.77	824.0	32.5	2.4	1.55	1.12	17.24	0.0	0.0	
850.0	3.92	337.92	848.9	34.0	1.8	1.04	0.92	-7.40	0.0	0.0	
875.0	4.49	337.01	873.8	35.7	1.1	2.30	2.28	-3.64	0.0	0.0	
900.0	4.60	336.13	898.8	37.5	0.3	0.52	0.44	-3.52	0.0	0.0	
925.0	4.81	333.74	923.7	39.4	-0.5	1.15	0.84	-9.56	0.0	0.0	
950.0	4.77	333.51	948.6	41.2	-1.5	0.18	-0.16	-0.92	0.0	0.0	
975.0	4.87	333.63	973.5	43.1	-2.4	0.40	0.40	0.48	0.0	0.0	
1,000.0	4.81	332.29	998.4	45.0	-3.4	0.51	-0.24	-5.36	0.0	0.0	
1,025.0	4.76	332.16	1,023.3	46.8	-4.3	0.20	-0.20	-0.52	0.0	0.0	
1,050.0	4.28	331.61	1,048.2	48.6	-5.3	1.93	-1.92	-2.20	0.0	0.0	
1,075.0	3.79	330.29	1,073.2	50.1	-6.1	1.99	-1.96	-5.28	0.0	0.0	
1,100.0	3.63	331.53	1,098.1	51.5	-6.9	0.72	-0.64	4.96	0.0	0.0	
1,125.0	3.46	332.51	1,123.1	52.9	-7.6	0.72	-0.68	3.92	0.0	0.0	
1,150.0	3.15	336.15	1,148.0	54.2	-8.2	1.50	-1.24	14.56	0.0	0.0	
1,175.0	3.04	333.71	1,173.0	55.4	-8.8	0.69	-0.44	-9.76	0.0	0.0	
1,200.0	3.33	332.21	1,198.0	56.7	-9.5	1.21	1.16	-6.00	0.0	0.0	
1,225.0	3.21	334.88	1,222.9	57.9	-10.1	0.78	-0.48	10.68	0.0	0.0	
1,250.0	3.22	330.84	1,247.9	59.2	-10.7	0.91	0.04	-16.16	0.0	0.0	

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Site:	Bandit 29 State Corn	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
1,275.0	3.34	332.79	1,272.8	60.4	-11.4	0.66	0.48	7.80	0.0	0.0	
1,300.0	3.39	333.01	1,297.8	61.7	-12.1	0.21	0.20	0.88	0.0	0.0	
1,325.0	3.44	335.73	1,322.8	63.1	-12.7	0.68	0.20	10.88	0.0	0.0	
1,350.0	3.39	333.48	1,347.7	64.4	-13.4	0.57	-0.20	-9.00	0.0	0.0	
1,375.0	2.88	332.32	1,372.7	65.7	-14.0	2.06	-2.04	-4.64	0.0	0.0	
1,400.0	1.73	335.91	1,397.7	66.6	-14.4	4.63	-4.60	14.36	0.0	0.0	
1,425.0	0.56	352.36	1,422.7	67.0	-14.6	4.81	-4.68	65.80	0.0	0.0	
1,450.0	0.25	23.99	1,447.7	67.2	-14.6	1.48	-1.24	126.52	0.0	0.0	
1,475.0	0.22	38.74	1,472.6	67.3	-14.5	0.27	-0.12	59.00	0.0	0.0	
1,500.0	0.20	46.59	1,497.6	67.3	-14.5	0.14	-0.08	31.40	0.0	0.0	
1,525.0	0.12	128.79	1,522.6	67.4	-14.4	0.88	-0.32	328.80	0.0	0.0	
1,550.0	0.11	279.85	1,547.6	67.3	-14.4	0.89	-0.04	604.24	0.0	0.0	
1,575.0	0.29	67.71	1,572.6	67.4	-14.4	1.55	0.72	591.44	0.0	0.0	
1,600.0	0.63	109.74	1,597.6	67.3	-14.2	1.83	1.36	168.12	0.0	0.0	
1,625.0	1.19	128.03	1,622.6	67.1	-13.9	2.50	2.24	73.16	0.0	0.0	
1,650.0	1.52	133.14	1,647.6	66.8	-13.4	1.40	1.32	20.44	0.0	0.0	
1,675.0	1.66	134.09	1,672.6	66.3	-12.9	0.57	0.56	3.80	0.0	0.0	
1,700.0	1.75	130.27	1,697.6	65.8	-12.4	0.58	0.36	-15.28	0.0	0.0	
1,725.0	1.73	136.67	1,722.6	65.3	-11.8	0.78	-0.08	25.60	0.0	0.0	
1,750.0	1.61	136.96	1,747.6	64.7	-11.3	0.48	-0.48	1.16	0.0	0.0	
1,775.0	1.59	136.90	1,772.6	64.2	-10.8	0.08	-0.08	-0.24	0.0	0.0	
1,800.0	1.38	138.72	1,797.6	63.7	-10.4	0.86	-0.84	7.28	0.0	0.0	
1,825.0	1.51	134.67	1,822.6	63.3	-10.0	0.66	0.52	-16.20	0.0	0.0	
1,850.0	1.36	137.05	1,847.6	62.8	-9.5	0.65	-0.60	9.52	0.0	0.0	
1,875.0	1.32	137.73	1,872.6	62.4	-9.1	0.17	-0.16	2.72	0.0	0.0	
1,900.0	1.49	135.57	1,897.5	62.0	-8.7	0.71	0.68	-8.64	0.0	0.0	
1,925.0	1.49	136.78	1,922.5	61.5	-8.3	0.13	0.00	4.84	0.0	0.0	

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Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
1,950.0	1.54	136.37	1,947.5	61.0	-7.8	0.20	0.20	-1.64	0.0	0.0
1,975.0	1.68	135.62	1,972.5	60.5	-7.3	0.57	0.56	-3.00	0.0	0.0
2,000.0	1.70	134.79	1,997.5	60.0	-6.8	0.13	0.08	-3.32	0.0	0.0
2,025.0	1.59	134.94	2,022.5	59.5	-6.3	0.44	-0.44	0.60	0.0	0.0
2,050.0	1.50	133.65	2,047.5	59.0	-5.8	0.39	-0.36	-5.16	0.0	0.0
2,075.0	1.52	133.56	2,072.5	58.5	-5.3	0.08	0.08	-0.36	0.0	0.0
2,100.0	1.60	130.33	2,097.5	58.1	-4.8	0.48	0.32	-12.92	0.0	0.0
2,125.0	1.61	129.66	2,122.5	57.6	-4.3	0.09	0.04	-2.68	0.0	0.0
2,150.0	1.56	130.05	2,147.5	57.2	-3.8	0.20	-0.20	1.56	0.0	0.0
2,175.0	1.59	135.28	2,172.4	56.7	-3.3	0.59	0.12	20.92	0.0	0.0
2,200.0	1.66	136.35	2,197.4	56.2	-2.8	0.31	0.28	4.28	0.0	0.0
2,225.0	1.63	134.74	2,222.4	55.7	-2.3	0.22	-0.12	-6.44	0.0	0.0
2,250.0	1.20	132.26	2,247.4	55.3	-1.8	1.74	-1.72	-9.92	0.0	0.0
2,275.0	0.81	138.75	2,272.4	55.0	-1.5	1.62	-1.56	25.96	0.0	0.0
2,300.0	0.63	133.53	2,297.4	54.8	-1.3	0.77	-0.72	-20.88	0.0	0.0
2,325.0	0.56	122.18	2,322.4	54.6	-1.1	0.55	-0.28	-45.40	0.0	0.0
2,350.0	0.45	131.62	2,347.4	54.5	-0.9	0.55	-0.44	37.76	0.0	0.0
2,375.0	0.40	134.84	2,372.4	54.3	-0.8	0.22	-0.20	12.88	0.0	0.0
2,400.0	0.25	131.96	2,397.4	54.2	-0.7	0.60	-0.60	-11.52	0.0	0.0
2,425.0	0.25	138.78	2,422.4	54.2	-0.6	0.12	0.00	27.28	0.0	0.0
2,450.0	0.27	124.61	2,447.4	54.1	-0.5	0.27	0.08	-56.68	0.0	0.0
2,475.0	0.36	89.65	2,472.4	54.1	-0.4	0.83	0.36	-139.84	0.0	0.0
2,500.0	0.32	80.03	2,497.4	54.1	-0.2	0.28	-0.16	-38.48	0.0	0.0
2,525.0	0.36	63.26	2,522.4	54.1	-0.1	0.43	0.16	-67.08	0.0	0.0
2,550.0	0.27	75.03	2,547.4	54.2	0.0	0.44	-0.36	47.08	0.0	0.0
2,575.0	0.26	82.24	2,572.4	54.2	0.1	0.14	-0.04	28.84	0.0	0.0
2,600.0	0.32	66.58	2,597.4	54.2	0.3	0.40	0.24	-62.64	0.0	0.0

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Site:	Bandit 29 State Corn	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,625.0	0.32	71.82	2,622.4	54.3	0.4	0.12	0.00	20.96	0.0	0.0	
2,650.0	0.43	75.90	2,647.4	54.3	0.5	0.45	0.44	16.32	0.0	0.0	
2,675.0	0.42	75.89	2,672.4	54.4	0.7	0.04	-0.04	-0.04	0.0	0.0	
2,700.0	0.47	78.34	2,697.4	54.4	0.9	0.21	0.20	9.80	0.0	0.0	
2,725.0	0.39	78.03	2,722.4	54.4	1.1	0.32	-0.32	-1.24	0.0	0.0	
2,750.0	0.38	77.77	2,747.4	54.5	1.3	0.04	-0.04	-1.04	0.0	0.0	
2,775.0	0.33	86.41	2,772.4	54.5	1.4	0.29	-0.20	34.56	0.0	0.0	
2,800.0	0.42	67.61	2,797.4	54.5	1.6	0.61	0.36	-75.20	0.0	0.0	
2,825.0	0.54	60.99	2,822.4	54.6	1.8	0.53	0.48	-26.48	0.0	0.0	
2,850.0	0.63	68.60	2,847.4	54.7	2.0	0.47	0.36	30.44	0.0	0.0	
2,875.0	0.68	70.59	2,872.4	54.8	2.3	0.22	0.20	7.96	0.0	0.0	
2,900.0	0.59	75.54	2,897.4	54.9	2.5	0.42	-0.36	19.80	0.0	0.0	
2,925.0	0.71	74.59	2,922.4	55.0	2.8	0.48	0.48	-3.80	0.0	0.0	
2,950.0	0.67	73.74	2,947.4	55.1	3.1	0.17	-0.16	-3.40	0.0	0.0	
2,975.0	0.74	70.82	2,972.4	55.2	3.4	0.31	0.28	-11.68	0.0	0.0	
3,000.0	0.75	68.25	2,997.4	55.3	3.7	0.14	0.04	-10.28	0.0	0.0	
3,025.0	0.66	70.22	3,022.4	55.4	4.0	0.37	-0.36	7.88	0.0	0.0	
3,050.0	0.77	68.69	3,047.4	55.5	4.3	0.45	0.44	-6.12	0.0	0.0	
3,075.0	0.61	16.89	3,072.4	55.7	4.5	2.48	-0.64	-207.20	0.0	0.0	
3,100.0	0.77	52.67	3,097.4	55.9	4.6	1.80	0.64	143.12	0.0	0.0	
3,125.0	0.76	52.69	3,122.4	56.1	4.9	0.04	-0.04	0.08	0.0	0.0	
3,150.0	0.89	50.14	3,147.4	56.3	5.2	0.54	0.52	-10.20	0.0	0.0	
3,175.0	0.87	43.68	3,172.4	56.6	5.5	0.40	-0.08	-25.84	0.0	0.0	
3,200.0	0.85	50.69	3,197.4	56.9	5.7	0.43	-0.08	28.04	0.0	0.0	
3,225.0	0.82	43.79	3,222.4	57.1	6.0	0.42	-0.12	-27.60	0.0	0.0	
3,250.0	0.96	46.96	3,247.4	57.4	6.3	0.59	0.56	12.68	0.0	0.0	
3,275.0	0.93	46.43	3,272.4	57.7	6.6	0.12	-0.12	-2.12	0.0	0.0	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Corn	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLog ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,300.0	0.90	47.55	3,297.4	57.9	6.9	0.14	-0.12	4.48	0.0	0.0	
3,325.0	0.97	49.55	3,322.4	58.2	7.2	0.31	0.28	8.00	0.0	0.0	
3,350.0	0.97	61.40	3,347.3	58.4	7.5	0.80	0.00	47.40	0.0	0.0	
3,375.0	1.13	82.34	3,372.3	58.6	8.0	1.65	0.64	83.76	0.0	0.0	
3,400.0	1.57	91.01	3,397.3	58.6	8.5	1.94	1.76	34.68	0.0	0.0	
3,425.0	1.46	101.72	3,422.3	58.5	9.2	1.21	-0.44	42.84	0.0	0.0	
3,450.0	1.47	120.88	3,447.3	58.3	9.8	1.95	0.04	76.64	0.0	0.0	
3,475.0	1.44	127.67	3,472.3	57.9	10.3	0.70	-0.12	27.16	0.0	0.0	
3,500.0	1.47	130.76	3,497.3	57.5	10.8	0.34	0.12	12.36	0.0	0.0	
3,525.0	1.62	136.83	3,522.3	57.1	11.3	0.89	0.60	24.28	0.0	0.0	
3,550.0	1.50	136.81	3,547.3	56.6	11.7	0.48	-0.48	-0.08	0.0	0.0	
3,575.0	1.54	139.06	3,572.3	56.1	12.2	0.29	0.16	9.00	0.0	0.0	
3,600.0	1.55	144.87	3,597.3	55.6	12.6	0.63	0.04	23.24	0.0	0.0	
3,625.0	1.59	145.74	3,622.3	55.0	13.0	0.19	0.16	3.48	0.0	0.0	
3,650.0	1.70	143.07	3,647.2	54.4	13.4	0.54	0.44	-10.68	0.0	0.0	
3,675.0	1.85	144.09	3,672.2	53.8	13.9	0.61	0.60	4.08	0.0	0.0	
3,700.0	1.95	145.37	3,697.2	53.1	14.4	0.43	0.40	5.12	0.0	0.0	
3,725.0	2.04	146.64	3,722.2	52.4	14.8	0.40	0.36	5.08	0.0	0.0	
3,750.0	1.90	154.73	3,747.2	51.6	15.3	1.24	-0.56	32.36	0.0	0.0	
3,775.0	1.79	169.22	3,772.2	50.9	15.5	1.91	-0.44	57.96	0.0	0.0	
3,800.0	1.86	177.12	3,797.2	50.1	15.6	1.04	0.28	31.60	0.0	0.0	
3,825.0	2.04	187.01	3,822.2	49.3	15.6	1.52	0.72	39.56	0.0	0.0	
3,850.0	1.87	185.06	3,847.1	48.4	15.5	0.73	-0.68	-7.80	0.0	0.0	
3,875.0	1.89	189.62	3,872.1	47.6	15.4	0.60	0.08	18.24	0.0	0.0	
3,900.0	1.95	188.68	3,897.1	46.8	15.2	0.27	0.24	-3.76	0.0	0.0	
3,925.0	1.88	190.17	3,922.1	45.9	15.1	0.34	-0.28	5.96	0.0	0.0	
3,950.0	1.78	194.03	3,947.1	45.2	14.9	0.63	-0.40	15.44	0.0	0.0	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Corn	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,975.0	1.71	193.69	3,972.1	44.4	14.8	0.28	-0.28	-1.38	0.0	0.0	
4,000.0	1.83	196.07	3,997.1	43.7	14.8	0.56	0.48	9.52	0.0	0.0	
4,025.0	1.81	197.48	4,022.0	42.9	14.3	0.20	-0.08	5.64	0.0	0.0	
4,050.0	1.73	199.62	4,047.0	42.2	14.1	0.42	-0.32	8.56	0.0	0.0	
4,075.0	1.84	198.70	4,072.0	41.4	13.8	0.45	0.44	-3.68	0.0	0.0	
4,100.0	1.83	200.97	4,097.0	40.7	13.6	0.29	-0.04	9.08	0.0	0.0	
4,125.0	1.77	202.56	4,122.0	40.0	13.3	0.31	-0.24	6.36	0.0	0.0	
4,150.0	1.98	207.80	4,147.0	39.2	12.9	1.08	0.84	20.96	0.0	0.0	
4,175.0	2.01	210.85	4,172.0	38.5	12.5	0.44	0.12	12.20	0.0	0.0	
4,200.0	1.92	215.30	4,197.0	37.7	12.0	0.71	-0.36	17.80	0.0	0.0	
4,225.0	1.88	213.49	4,221.9	37.1	11.6	0.29	-0.16	-7.24	0.0	0.0	
4,250.0	1.84	208.12	4,246.9	36.4	11.1	0.72	-0.16	-21.48	0.0	0.0	
4,275.0	1.71	196.01	4,271.9	35.7	10.8	1.58	-0.52	-48.44	0.0	0.0	
4,300.0	1.63	188.24	4,296.9	34.9	10.7	0.96	-0.32	-31.08	0.0	0.0	
4,325.0	1.46	151.64	4,321.9	34.3	10.8	3.93	-0.68	-146.40	0.0	0.0	
4,350.0	1.88	162.76	4,346.9	33.6	11.1	2.11	1.68	44.48	0.0	0.0	
4,375.0	2.33	154.78	4,371.9	32.8	11.4	2.14	1.80	-31.92	0.0	0.0	
4,400.0	2.51	151.77	4,396.8	31.8	11.9	0.88	0.72	-12.04	0.0	0.0	
4,425.0	2.44	150.59	4,421.8	30.9	12.4	0.35	-0.28	-4.72	0.0	0.0	
4,450.0	2.21	154.49	4,446.8	30.0	12.9	1.12	-0.92	15.60	0.0	0.0	
4,475.0	1.91	157.46	4,471.8	29.2	13.2	1.27	-1.20	11.88	0.0	0.0	
4,500.0	1.78	158.11	4,496.8	28.4	13.5	0.53	-0.52	2.60	0.0	0.0	
4,525.0	1.88	151.60	4,521.8	27.7	13.9	0.92	0.40	-26.04	0.0	0.0	
4,550.0	2.03	143.94	4,546.7	27.0	14.3	1.20	0.60	-30.64	0.0	0.0	
4,575.0	2.34	138.77	4,571.7	26.3	14.9	1.47	1.24	-20.68	0.0	0.0	
4,600.0	2.71	136.67	4,596.7	25.4	15.7	1.53	1.48	-8.40	0.0	0.0	
4,625.0	2.97	132.63	4,621.7	24.6	16.6	1.31	1.04	-16.16	0.0	0.0	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,650.0	3.25	130.73	4,646.6	23.7	17.6	1.19	1.12	-7.60	0.0	0.0	
4,675.0	3.36	129.36	4,671.6	22.7	18.7	0.54	0.44	-5.48	0.0	0.0	
4,700.0	3.31	129.14	4,696.6	21.8	19.8	0.21	-0.20	-0.88	0.0	0.0	
4,725.0	3.48	130.51	4,721.5	20.9	20.9	0.75	0.68	5.48	0.0	0.0	
4,750.0	3.77	128.76	4,746.5	19.9	22.2	1.24	1.16	-7.00	0.0	0.0	
4,775.0	4.02	126.38	4,771.4	18.8	23.5	1.19	1.00	-9.52	0.0	0.0	
4,800.0	4.11	128.23	4,796.3	17.8	24.9	0.64	0.36	7.40	0.0	0.0	
4,825.0	4.28	128.51	4,821.3	16.6	26.3	0.68	0.68	1.12	0.0	0.0	
4,850.0	3.77	135.92	4,846.2	15.5	27.6	2.91	-2.04	29.64	0.0	0.0	
5,045.0	3.19	133.79	5,040.9	7.1	36.0	0.30	-0.30	-1.09	1.0	0.2	
5,076.0	3.43	138.73	5,071.8	5.8	37.3	1.20	0.77	15.94	1.0	-0.2	
5,171.0	4.03	100.90	5,166.6	3.0	42.4	2.61	0.63	-39.82	0.5	-0.8	
5,360.0	6.63	51.82	5,354.9	8.5	57.5	2.65	1.38	-25.97	-1.1	-2.8	
5,548.0	9.11	49.98	5,541.1	24.8	77.5	1.33	1.32	-0.98	-4.0	-8.1	
5,737.0	9.90	40.56	5,727.5	46.8	99.5	0.92	0.42	-4.98	-1.9	-16.7	
5,925.0	9.72	39.72	5,912.7	71.3	120.1	0.12	-0.10	-0.45	-1.5	-22.5	
6,113.0	11.20	28.34	6,097.6	99.5	138.9	1.35	0.79	-6.05	1.7	-24.6	
6,302.0	11.37	26.56	6,283.0	132.4	156.0	0.21	0.09	-0.94	-1.9	-23.1	
6,490.0	11.17	27.15	6,467.4	165.1	172.6	0.12	-0.11	0.31	-6.3	-21.3	
6,678.0	11.21	28.38	6,651.8	197.4	189.6	0.13	0.02	0.65	-10.7	-19.8	
6,866.0	10.73	27.96	6,836.3	229.0	206.5	0.26	-0.26	-0.22	-13.7	-18.9	
7,055.0	9.67	28.65	7,022.4	258.4	222.3	0.56	-0.56	0.37	-14.6	-17.7	
7,243.0	9.24	21.72	7,207.8	286.3	235.5	0.65	-0.23	-3.69	-10.8	-16.5	
7,432.0	8.71	22.32	7,394.5	313.6	246.5	0.28	-0.28	0.32	-7.9	-11.9	
7,526.0	8.67	23.32	7,487.4	326.7	252.0	0.17	-0.04	1.06	-7.5	-9.9	
7,620.0	6.72	21.20	7,580.6	338.4	256.8	2.10	-2.07	-2.26	-7.9	-8.6	
7,714.0	5.36	14.64	7,674.0	347.7	259.9	1.62	-1.45	-6.98	-8.2	-7.7	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
7,809.0	3.45	18.26	7,768.8	354.8	261.9	2.03	-2.01	3.81	-10.3	-5.7	
7,903.0	3.38	18.13	7,862.6	360.1	263.7	0.07	-0.07	-0.14	-13.3	-5.2	
7,998.0	3.04	9.11	7,957.4	365.2	265.0	0.64	-0.36	-9.49	-17.4	-7.6	
8,092.0	2.45	11.97	8,051.3	369.6	265.8	0.64	-0.63	3.04	-22.2	-6.6	
8,186.0	0.83	356.78	8,145.3	372.3	266.2	1.77	-1.72	-16.16	-22.3	-12.7	
8,375.0	0.42	233.08	8,334.3	373.2	265.5	0.59	-0.22	-65.45	23.1	-12.7	
8,563.0	0.70	233.84	8,522.3	372.2	264.0	0.15	0.15	0.40	21.0	-13.0	
8,752.0	0.96	242.16	8,711.3	370.7	261.7	0.15	0.14	4.40	16.2	-15.7	
8,940.0	1.18	235.64	8,899.2	368.9	258.7	0.13	0.12	-3.47	14.4	-13.9	
9,129.0	1.11	242.24	9,088.2	367.0	255.5	0.08	-0.04	3.49	8.9	-15.3	
9,318.0	1.02	229.98	9,277.2	365.0	252.6	0.13	-0.05	-8.49	8.5	-13.4	
9,507.0	2.56	247.14	9,466.1	362.3	247.4	0.85	0.81	9.08	-1.7	-14.8	
9,695.0	2.57	223.48	9,653.9	357.6	240.6	0.56	0.01	-12.59	-3.6	-15.9	
9,883.0	2.88	230.14	9,841.7	351.5	234.1	0.24	0.16	3.54	-14.4	-14.9	
10,072.0	2.02	189.61	10,030.5	345.2	229.9	0.99	-0.46	-21.44	-8.2	-23.8	
10,238.0	1.83	212.05	10,196.4	340.1	228.0	0.46	-0.11	13.52	-22.0	-17.7	
10,355.0	2.70	200.72	10,313.3	335.9	226.1	0.83	0.74	-9.68	-22.6	-22.1	
10,543.0	3.96	195.27	10,501.0	325.5	222.8	0.69	0.67	-2.90	-31.3	-24.6	
10,599.0	4.43	188.98	10,556.8	321.5	221.9	1.17	0.84	-11.23	-32.5	-28.1	
10,652.0	4.92	184.38	10,609.7	317.2	221.4	1.16	0.92	-8.68	-34.5	-30.8	
10,691.8	5.55	175.56	10,649.3	313.6	221.5	2.56	1.58	-22.18	-32.9	-36.0	
KOP(Bandit 29 St Com #501H)											
10,697.0	5.64	174.55	10,654.5	313.1	221.5	2.56	1.74	-19.28	-32.8	-36.6	
10,746.0	10.47	157.51	10,703.0	306.6	223.4	10.89	9.86	-34.78	-24.8	-44.4	
10,791.0	17.92	149.16	10,746.6	296.8	228.6	17.13	16.56	-18.56	-22.9	-45.0	
10,841.0	24.79	149.84	10,793.1	281.1	237.8	13.75	13.74	1.36	-30.0	-39.1	
10,886.0	31.31	154.38	10,832.8	262.4	247.6	15.24	14.49	10.09	-38.8	-30.5	

PVA Report

Company:	EOG Resources - Midland					Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)					TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Com					MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H					North Reference:	Grid
Wellbore:	OH					Survey Calculation Method:	Minimum Curvature
Design:	OH					Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
10,935.0	38.81	158.63	10,872.9	236.6	258.7	16.09	15.31	8.67	-47.6	-21.0	
10,980.0	44.06	165.36	10,906.7	208.3	267.8	15.29	11.67	14.96	-55.3	-11.1	
11,030.0	47.18	171.16	10,941.6	173.3	275.0	10.37	6.24	11.60	-60.5	-4.0	
11,075.0	50.44	170.76	10,971.3	139.9	280.3	7.28	7.24	-0.89	-61.9	-3.4	
11,125.0	54.65	170.20	11,001.7	100.8	286.9	8.47	8.42	-1.12	-61.0	-2.1	
11,132.4	55.32	170.19	11,005.9	94.8	287.9	9.11	9.11	-0.18	-60.7	-1.9	
HL Crossing, MD:11132.4', TVD:11005.9', N/S:94.8', E/W:287.9', INC:55.32											
11,170.0	58.75	170.12	11,026.4	63.7	293.3	9.11	9.11	-0.18	-58.4	-0.4	
11,199.4	61.11	170.78	11,041.1	38.7	297.6	8.27	8.04	2.26	-55.7	0.9	
FTP(Bandit 29 St Com #501H)											
11,219.0	62.69	171.21	11,050.3	21.5	300.3	8.27	8.05	2.17	-53.5	1.6	
11,264.0	67.34	171.28	11,069.3	-18.8	306.5	10.33	10.33	0.16	-47.4	2.6	
11,314.0	71.41	171.83	11,086.9	-65.0	313.3	8.20	8.14	1.10	-39.0	3.5	
11,359.0	74.97	173.95	11,100.0	-107.8	318.7	9.11	7.91	4.71	-29.7	3.2	
11,408.0	79.40	175.60	11,110.8	-155.3	323.0	9.62	9.04	3.37	-19.0	1.3	
11,453.0	82.70	177.03	11,117.8	-199.7	325.9	7.98	7.33	3.18	-11.7	-1.0	
11,502.0	84.63	177.40	11,123.2	-248.3	328.2	4.01	3.94	0.76	-6.0	-3.4	
11,547.0	85.79	177.73	11,127.0	-293.1	330.1	2.68	2.58	0.73	-1.9	-5.1	
11,596.0	93.19	177.46	11,127.4	-342.1	332.2	15.11	15.10	-0.55	-1.2	-6.3	
11,640.0	94.15	177.33	11,124.6	-385.9	334.2	2.20	2.18	-0.30	-3.7	-6.5	
11,735.0	91.53	178.07	11,119.9	-480.7	338.0	2.87	-2.76	0.78	-7.8	-5.0	
11,829.0	91.30	177.65	11,117.6	-574.6	341.5	0.51	-0.24	-0.45	-9.5	-2.2	
11,923.0	92.58	177.84	11,114.4	-668.5	345.2	1.38	1.36	0.20	-12.1	0.9	
12,017.0	89.79	178.72	11,112.4	-762.4	348.0	3.11	-2.97	0.94	-13.4	3.1	
12,112.0	90.33	178.81	11,112.4	-857.4	350.1	0.58	0.57	0.09	-12.9	4.4	
12,206.0	90.95	178.07	11,111.3	-951.4	352.6	1.03	0.66	-0.79	-13.4	6.4	
12,300.0	89.30	179.09	11,111.1	-1,045.3	354.9	2.06	-1.76	1.09	-13.0	8.0	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey:										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,394.0	89.99	178.56	11,111.7	-1,139.3	356.9	0.93	0.73	-0.56	-11.8	9.3
12,489.0	90.08	181.76	11,111.6	-1,234.3	356.6	3.37	0.09	3.37	-11.2	8.4
12,583.0	90.92	181.67	11,110.8	-1,328.2	353.8	0.90	0.89	-0.10	-11.4	4.9
12,678.0	92.72	181.22	11,107.8	-1,423.2	351.4	1.95	1.89	-0.47	-13.8	1.9
12,772.0	91.30	180.47	11,104.5	-1,517.1	350.0	1.71	-1.51	-0.80	-16.5	-0.2
12,867.0	89.99	180.36	11,103.4	-1,612.1	349.3	1.38	-1.38	-0.12	-17.0	-1.5
12,961.0	89.04	180.32	11,104.2	-1,706.1	348.8	1.01	-1.01	-0.04	-15.6	-2.7
13,056.0	89.68	180.10	11,105.3	-1,801.1	348.4	0.71	0.67	-0.23	-13.9	-3.7
13,151.0	90.65	179.49	11,105.0	-1,896.1	348.8	1.21	1.02	-0.64	-13.6	-4.0
13,237.0	89.17	180.72	11,105.1	-1,982.0	348.6	2.24	-1.73	1.43	-12.9	-4.8
TGT 1(Bandit 29 St Com #501H)										
13,246.0	89.01	180.85	11,105.3	-1,991.1	348.5	2.24	-1.73	1.43	-12.7	-5.0
13,340.0	89.99	179.70	11,108.1	-2,085.1	348.0	1.61	1.04	-1.22	-11.3	-6.1
13,435.0	90.93	179.25	11,105.3	-2,180.0	348.9	1.10	0.99	-0.47	-11.5	-5.9
13,529.0	89.64	180.04	11,104.9	-2,274.0	349.5	1.61	-1.37	0.84	-11.4	-5.9
13,624.0	89.96	178.99	11,105.2	-2,369.0	350.3	1.16	0.34	-1.11	-10.5	-5.8
13,719.0	88.55	179.31	11,108.4	-2,464.0	351.7	1.52	-1.48	0.34	-8.7	-5.0
13,814.0	88.85	179.15	11,108.6	-2,559.0	353.0	0.36	0.32	-0.17	-5.9	-4.4
13,908.0	88.76	178.38	11,110.6	-2,652.9	355.0	0.82	-0.10	-0.82	-3.4	-3.1
14,003.0	91.19	178.09	11,110.6	-2,747.9	357.9	2.58	2.56	-0.31	-2.8	-0.8
14,098.0	90.72	178.46	11,109.0	-2,842.8	360.8	0.63	-0.49	0.39	-3.8	1.4
14,192.0	91.46	177.78	11,107.2	-2,936.8	363.9	1.07	0.79	-0.72	-5.1	3.8
14,287.0	90.21	179.00	11,105.8	-3,031.7	366.5	1.84	-1.32	1.28	-5.9	5.8
14,382.0	91.32	179.02	11,104.6	-3,126.7	368.2	1.17	1.17	0.02	-6.6	6.8
14,477.0	90.24	180.48	11,103.3	-3,221.7	368.6	1.91	-1.14	1.54	-7.3	6.6
14,571.0	91.09	180.63	11,102.2	-3,315.7	367.7	0.92	0.90	0.16	-7.8	5.0
14,666.0	92.29	180.22	11,099.4	-3,410.6	367.0	1.33	1.26	-0.43	-10.1	3.7

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
14,761.0	90.62	179.93	11,097.0	-3,505.6	366.9	1.78	-1.76	-0.31	-11.9	2.9	
14,855.0	90.30	180.11	11,096.2	-3,599.6	366.8	0.39	-0.34	0.19	-12.1	2.2	
14,950.0	88.81	181.22	11,097.0	-3,694.6	365.7	1.96	-1.57	1.17	-10.8	0.4	
15,044.0	87.70	182.06	11,099.8	-3,788.5	363.0	1.48	-1.18	0.89	-7.4	-2.9	
15,139.0	87.64	181.43	11,103.7	-3,883.4	360.1	0.67	-0.06	-0.66	-2.9	-6.5	
15,233.0	89.50	181.05	11,108.0	-3,977.3	358.1	2.02	1.98	-0.40	0.0	-9.1	
15,239.5	89.39	181.11	11,106.1	-3,983.8	358.0	2.00	-1.77	0.94	0.1	-9.3	
TGT 2(Bandit 29 St Com #501H)											
15,327.0	87.84	181.93	11,108.2	-4,071.2	355.7	2.00	-1.77	0.94	2.1	-12.2	
15,422.0	88.47	181.93	11,111.3	-4,166.1	352.5	0.66	0.66	0.00	4.9	-16.1	
15,517.0	89.25	181.50	11,113.2	-4,261.1	349.6	0.94	0.82	-0.45	6.6	-19.8	
15,611.0	89.56	179.07	11,114.1	-4,355.1	349.2	2.61	0.33	-2.59	7.3	-20.7	
15,705.0	89.30	178.01	11,115.1	-4,449.0	351.5	1.16	-0.28	-1.13	8.0	-19.0	
15,800.0	90.33	177.36	11,115.4	-4,543.9	355.4	1.28	1.08	-0.68	8.1	-15.8	
15,894.0	91.22	176.46	11,114.1	-4,637.8	360.5	1.35	0.95	-0.96	6.5	-11.4	
15,989.0	90.31	177.68	11,112.8	-4,732.7	365.3	1.60	-0.96	1.28	5.0	-7.2	
16,084.0	90.46	177.77	11,112.2	-4,827.6	369.1	0.18	0.16	0.09	4.2	-4.1	
16,178.0	90.02	179.03	11,111.8	-4,921.5	371.7	1.42	-0.47	1.34	3.5	-2.1	
16,272.0	88.90	179.07	11,112.7	-5,015.5	373.3	1.19	-1.19	0.04	4.2	-1.2	
16,366.0	89.25	178.77	11,114.2	-5,109.5	375.0	0.49	0.37	-0.32	5.4	-0.1	
16,461.0	90.38	178.47	11,114.5	-5,204.5	377.3	1.23	1.19	-0.32	5.5	1.5	
16,555.0	89.98	179.00	11,114.2	-5,298.4	379.4	0.71	-0.43	0.56	5.0	3.0	
16,650.0	89.41	180.20	11,114.7	-5,393.4	380.1	1.40	-0.60	1.26	5.2	3.0	
16,744.0	89.61	181.11	11,115.5	-5,487.4	379.0	0.99	0.21	0.97	5.8	1.2	
16,838.0	87.43	181.06	11,118.0	-5,581.4	377.2	2.32	-2.32	-0.05	8.0	-1.2	
16,933.0	88.10	180.43	11,121.7	-5,676.3	376.0	0.97	0.71	-0.66	11.4	-3.1	
17,027.0	89.05	180.02	11,124.0	-5,770.3	375.8	1.10	1.01	-0.44	13.5	-4.1	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Corn	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
17,122.0	87.90	180.73	11,126.5	-5,865.2	375.0	1.42	-1.21	0.75	15.8	-5.4	
17,216.0	88.30	180.34	11,129.6	-5,959.2	374.1	0.59	0.43	-0.41	18.7	-6.9	
17,242.6	88.64	180.29	11,130.4	-5,985.8	374.0	1.30	1.29	-0.19	19.4	-7.2	
TOT 3(Bandit 29 St Corn #501H)											
17,310.0	89.51	180.16	11,131.4	-6,053.1	373.7	1.30	1.29	-0.19	20.2	-8.0	
17,404.0	90.90	179.83	11,131.1	-6,147.1	373.7	1.52	1.48	-0.35	19.5	-8.6	
17,498.0	91.96	179.06	11,128.8	-6,241.1	374.6	1.39	1.13	-0.82	16.8	-8.3	
17,593.0	91.04	179.68	11,126.3	-6,336.1	375.7	1.17	-0.97	0.65	13.9	-8.0	
17,686.0	91.36	179.47	11,124.3	-6,429.0	376.3	0.41	0.34	-0.23	11.6	-7.9	
17,780.0	90.88	178.50	11,122.5	-6,523.0	378.0	1.15	-0.51	-1.03	9.4	-6.9	
17,874.0	91.52	178.34	11,120.5	-6,617.0	380.6	0.70	0.88	-0.17	7.0	-4.9	
17,969.0	90.10	178.73	11,119.2	-6,711.9	383.0	1.55	-1.49	0.41	5.3	-3.2	
18,063.0	88.19	178.50	11,120.6	-6,805.9	385.3	2.05	-2.03	-0.24	6.4	-1.5	
18,157.0	87.76	178.26	11,123.9	-6,899.8	388.0	0.52	-0.46	-0.26	9.3	0.5	
18,252.0	87.47	177.91	11,127.9	-6,994.6	391.1	0.48	-0.31	-0.37	12.9	3.0	
18,346.0	88.67	177.31	11,131.0	-7,088.5	395.0	1.43	1.28	-0.64	15.7	6.3	
18,421.3	88.99	176.78	11,132.6	-7,163.7	398.9	0.82	0.42	-0.71	16.9	9.6	
HL Crossing, MD:18421.3, TVD:11132.6, N/S:-7163.7, EW:398.9, INC:88.99											
18,441.0	89.07	176.64	11,132.9	-7,183.3	400.1	0.82	0.42	-0.71	17.2	10.6	
18,471.0	89.55	176.19	11,133.3	-7,213.3	401.9	2.19	1.60	-1.50	17.5	12.3	
Final MWD Survey (MD=18471.0)											
18,519.7	89.55	176.19	11,133.6	-7,261.9	405.2	0.00	0.00	0.00	17.6	15.2	
PBHL(Bandit 29 St Corn #501H)											
18,528.0	89.55	176.19	11,133.7	-7,270.2	405.7	0.00	0.00	0.00	17.7	15.7	
Final Projection to Bit (MD=18528.0)											

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
11,132.4	11,005.9	94.8	287.9	HL Crossing, MD:11132.4', TVD:11005.9', N/S:94.8', E/W:287.9', INC:55.32
18,421.3	11,132.6	-7,163.7	398.9	HL Crossing, MD:18421.3', TVD:11132.6', N/S:-7163.7', E/W:398.9', INC:88.99
18,471.0	11,133.3	-7,213.3	401.9	Final MWD Survey (MD=18471.0')
18,528.0	11,133.7	-7,270.2	405.7	Final Projection to Bit (MD=18528.0')

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

Bandit 29 State Com

#501H

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



Airphoto to Grid North
True North: 4.0°
Magnetic North: 4.0°
Magnetic Pole
Strength: 4789.8 Gauss
Dip Angle: 68.9°
Date: 1/16/2016
Model: 100P010

To convert a Magnetic Direction to a Grid Direction, Add 6.50°
To convert a Magnetic Direction to a True Direction, Add 6.50° East
To convert a True Direction to a Grid Direction, Subtract 6.40°

WELL DETAILS: #501H

3528.0
KB = 25 @ 3553.0usft
+N-S +E-W Northing Easting Latitude Longitude Slot
0.0 0.0 435375.00 771884.00 32° 11' 41.017 N 103° 35' 16.930 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	4850.0	3.77	135.92	4846.2	15.5	27.6	0.00	0.00	-14.0	
2	5029.0	3.77	135.92	5024.8	7.0	35.8	0.00	0.00	-5.1	
3	5609.4	10.00	30.00	5602.1	37.0	74.4	2.00	-123.92	-33.0	
4	7435.0	10.00	30.00	7400.0	311.6	232.9	0.00	0.00	-298.6	
5	7935.0	0.00	0.00	7897.5	349.3	254.7	2.00	180.00	-335.1	
6	10690.0	0.00	0.00	10652.5	349.3	254.7	0.00	0.00	-335.1	
7	11443.0	90.36	172.42	11130.0	-127.0	318.1	12.00	172.42	143.9	
8	11602.2	90.37	179.60	11127.7	-485.1	343.0	2.00	89.90	502.8	
9	13299.2	90.37	179.60	11118.0	-1982.0	353.4	0.00	0.00	1998.1	TGT 1(Bandit 29 St Com #501H)
10	13300.5	90.34	179.60	11118.0	-1983.3	353.4	2.00	-176.82	1999.4	
11	15301.3	90.34	179.60	11106.0	-3984.0	367.3	0.00	0.00	3998.0	TGT 2(Bandit 29 St Com #501H)
12	15325.7	89.85	179.60	11106.0	-4008.5	367.5	2.00	180.00	4022.4	
13	17303.5	89.85	179.60	11111.0	-5986.2	381.2	0.00	0.00	5998.0	TGT 3(Bandit 29 St Com #501H)
14	17307.5	89.78	179.61	11111.0	-5990.1	381.2	2.00	177.90	6001.9	
15	18590.4	89.78	179.61	11116.0	-7263.0	390.0	0.00	0.00	7273.5	PBHL(Bandit 29 St Com #501H)

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
KOP(Bandit 29 St Com #501H)	15652.6	349.3	254.7	435724.27	772183.76	Polygon
TGT 1(Bandit 29 St Com #501H)	11106.0	-3984.0	367.3	431181.00	772291.30	Point
TGT 2(Bandit 29 St Com #501H)	11111.0	-5986.2	381.2	428388.80	772285.20	Point
PBHL(Bandit 29 St Com #501H)	11116.0	-7263.0	380.0	428112.80	772274.00	Rectangle (Sides: 1.00 W80.0)
TGT 3(Bandit 29 St Com #501H)	11118.0	-1982.0	353.4	435383.00	772237.40	Point
FTF(Bandit 29 St Com #501H)	11130.0	96.0	339.0	435471.00	772223.00	Point

