

30-025-4/4384

HOBBS OCD

JUL 17 2018

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bandit 29 State Com

#502H

OH

Design: OH

Final PVA

23 May, 2018

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	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
From:	Map	Easting:	771,884.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 41.017 N
		Longitude:	103° 35' 16.930 W
		Grid Convergence:	0.40 "

Well	#502H		
Well Position	+N/-S	0.0 usft	Northing: 435,376.00 usft
	+E/-W	0.0 usft	Easting: 771,849.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 11' 41.029 N
		Longitude:	103° 35' 17.337 W
		Ground Level:	3,528.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	4/30/2018	6.87
			Dip Angle
			(°)
			60.02
			Field Strength
			(nT)
			47,828.95539141

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			182.25

Final PVA

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Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date	5/23/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
125.0	4,830.0	Phoenix Gyro (OH)	CT_GYRO_MS	Continuous Gyro Multishot	
4,830.0	18,628.0	PHX MWD #1 (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
125.0	0.39	284.18	125.0	0.1	-0.4	0.31	0.31	0.00	0.0	0.0
150.0	0.40	285.04	150.0	0.1	-0.6	0.05	0.04	3.44	0.0	0.0
175.0	0.40	285.90	175.0	0.2	-0.7	0.02	0.00	3.44	0.0	0.0
200.0	0.40	284.90	200.0	0.2	-0.9	0.03	0.00	-4.00	0.0	0.0
225.0	0.41	282.16	225.0	0.3	-1.1	0.09	0.04	-10.96	0.0	0.0
250.0	0.37	276.51	250.0	0.3	-1.3	0.22	-0.16	-22.60	0.0	0.0
275.0	0.27	283.88	275.0	0.3	-1.4	0.43	-0.40	29.48	0.0	0.0
300.0	0.25	301.36	300.0	0.4	-1.5	0.33	-0.08	69.92	0.0	0.0
325.0	0.27	314.57	325.0	0.4	-1.6	0.25	0.08	52.84	0.0	0.0
350.0	0.23	308.20	350.0	0.5	-1.7	0.19	-0.16	-25.48	0.0	0.0
375.0	0.24	296.94	375.0	0.6	-1.8	0.19	0.04	-45.04	0.0	0.0
400.0	0.18	316.41	400.0	0.6	-1.8	0.37	-0.24	77.88	0.0	0.0
425.0	0.10	343.92	425.0	0.7	-1.9	0.41	-0.32	110.04	0.0	0.0
450.0	0.13	177.29	450.0	0.7	-1.9	0.91	0.12	-666.52	0.0	0.0
475.0	0.39	352.02	475.0	0.7	-1.9	2.08	1.04	698.92	0.0	0.0
500.0	0.31	307.97	500.0	0.8	-1.9	1.09	-0.32	-176.20	0.0	0.0
525.0	0.16	322.35	525.0	0.9	-2.0	0.64	-0.60	57.52	0.0	0.0
550.0	0.23	291.82	550.0	1.0	-2.1	0.49	0.28	-122.12	0.0	0.0
575.0	0.29	203.17	575.0	0.9	-2.2	1.46	0.24	-354.60	0.0	0.0
600.0	0.43	149.29	600.0	0.8	-2.1	1.40	0.56	-215.52	0.0	0.0

Final PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference:		Well #502H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference:		KB = 25 @ 3553.0usft (H&P 444)	
Site: Bandit 29 State Corn		MD Reference:		KB = 25 @ 3553.0usft (H&P 444)	
Well: #502H		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)	DLog ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
625.0	0.14	124.16	625.0	0.7	-2.1	1.24	-1.16	-100.52	0.0	0.0	
650.0	0.22	159.53	650.0	0.6	-2.0	0.53	0.32	141.48	0.0	0.0	
675.0	0.57	157.76	675.0	0.5	-2.0	1.40	1.40	-7.08	0.0	0.0	
700.0	0.30	330.90	700.0	0.4	-1.9	3.47	-1.08	692.56	0.0	0.0	
725.0	0.45	287.96	725.0	0.5	-2.1	1.23	0.60	-171.76	0.0	0.0	
750.0	0.39	227.86	750.0	0.5	-2.2	1.70	-0.24	-240.40	0.0	0.0	
775.0	0.02	168.81	775.0	0.4	-2.3	1.52	-1.48	-238.20	0.0	0.0	
800.0	0.36	167.88	800.0	0.3	-2.3	1.36	1.36	-3.72	0.0	0.0	
825.0	0.08	153.47	825.0	0.2	-2.2	1.13	-1.12	-57.64	0.0	0.0	
850.0	0.11	126.61	850.0	0.2	-2.2	0.21	0.12	-107.44	0.0	0.0	
875.0	0.03	148.99	875.0	0.2	-2.2	0.33	-0.32	89.52	0.0	0.0	
900.0	0.13	101.95	900.0	0.2	-2.2	0.45	0.40	-188.16	0.0	0.0	
925.0	0.24	155.90	925.0	0.1	-2.1	0.78	0.44	215.80	0.0	0.0	
950.0	0.14	122.68	950.0	0.1	-2.1	0.58	-0.40	-132.88	0.0	0.0	
975.0	0.18	145.72	975.0	0.0	-2.0	0.30	0.16	92.16	0.0	0.0	
1,000.0	0.17	137.31	1,000.0	-0.1	-2.0	0.11	-0.04	-33.64	0.0	0.0	
1,025.0	0.22	144.32	1,025.0	-0.1	-1.9	0.22	0.20	28.04	0.0	0.0	
1,050.0	0.22	162.92	1,050.0	-0.2	-1.9	0.28	0.00	74.40	0.0	0.0	
1,075.0	0.23	145.59	1,075.0	-0.3	-1.8	0.27	0.04	-69.32	0.0	0.0	
1,100.0	0.14	128.45	1,100.0	-0.4	-1.8	0.42	-0.36	-68.56	0.0	0.0	
1,125.0	0.15	214.60	1,125.0	-0.4	-1.8	0.79	0.04	344.60	0.0	0.0	
1,150.0	0.18	237.05	1,150.0	-0.4	-1.8	0.28	0.12	89.80	0.0	0.0	
1,175.0	0.27	252.40	1,175.0	-0.5	-1.9	0.43	0.36	61.40	0.0	0.0	
1,200.0	0.12	240.04	1,200.0	-0.5	-2.0	0.62	-0.60	-49.44	0.0	0.0	
1,225.0	0.16	272.85	1,225.0	-0.5	-2.0	0.35	0.16	131.24	0.0	0.0	
1,250.0	0.08	252.00	1,250.0	-0.5	-2.1	0.36	-0.32	-83.40	0.0	0.0	
1,275.0	0.19	211.16	1,275.0	-0.6	-2.1	0.56	0.44	-163.36	0.0	0.0	

Final PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Bandit 29 State Com Well: #502H Wellbore: OH Design: OH			Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:			Well #502H KB = 25 @ 3553.0usft (H&P 444) KB = 25 @ 3553.0usft (H&P 444) Grid Minimum Curvature EDM 5000.14					
Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Diag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
1,300.0	0.31	319.14	1,300.0	-0.6	-2.2	1.64	0.48	431.92	0.0	0.0	
1,325.0	0.21	330.84	1,325.0	-0.5	-2.3	0.45	-0.40	46.80	0.0	0.0	
1,350.0	0.25	29.53	1,350.0	-0.4	-2.3	0.91	0.16	234.76	0.0	0.0	
1,375.0	0.22	312.41	1,375.0	-0.3	-2.3	1.18	-0.12	-308.48	0.0	0.0	
1,400.0	0.21	338.27	1,400.0	-0.2	-2.3	0.39	-0.04	103.44	0.0	0.0	
1,425.0	0.21	338.68	1,425.0	-0.1	-2.4	0.01	0.00	1.64	0.0	0.0	
1,450.0	0.27	346.71	1,450.0	0.0	-2.4	0.27	0.24	32.12	0.0	0.0	
1,475.0	0.22	318.60	1,475.0	0.1	-2.4	0.51	-0.20	-112.44	0.0	0.0	
1,500.0	0.32	278.38	1,500.0	0.1	-2.5	0.83	0.40	-160.88	0.0	0.0	
1,525.0	0.48	286.22	1,525.0	0.1	-2.7	0.67	0.64	31.36	0.0	0.0	
1,550.0	0.43	284.67	1,550.0	0.2	-2.9	0.21	-0.20	-6.20	0.0	0.0	
1,575.0	0.48	284.32	1,575.0	0.2	-3.1	0.20	0.20	-1.40	0.0	0.0	
1,600.0	0.44	285.56	1,600.0	0.3	-3.3	0.16	-0.16	4.86	0.0	0.0	
1,625.0	0.50	287.01	1,625.0	0.4	-3.5	0.24	0.24	5.80	0.0	0.0	
1,650.0	0.55	283.32	1,650.0	0.4	-3.7	0.24	0.20	-14.76	0.0	0.0	
1,675.0	0.59	287.46	1,675.0	0.5	-3.9	0.23	0.16	16.56	0.0	0.0	
1,700.0	0.63	292.44	1,700.0	0.6	-4.2	0.27	0.16	19.92	0.0	0.0	
1,725.0	0.65	305.94	1,725.0	0.7	-4.4	0.61	0.08	54.00	0.0	0.0	
1,750.0	0.55	293.82	1,750.0	0.8	-4.7	0.64	-0.40	-48.48	0.0	0.0	
1,775.0	0.75	275.27	1,775.0	0.9	-4.9	1.15	0.80	-74.20	0.0	0.0	
1,800.0	0.79	295.46	1,800.0	1.0	-5.2	1.09	0.16	80.76	0.0	0.0	
1,825.0	0.83	293.94	1,825.0	1.1	-5.6	0.18	0.16	-6.08	0.0	0.0	
1,850.0	0.81	292.45	1,850.0	1.3	-5.9	0.12	-0.08	-5.96	0.0	0.0	
1,875.0	0.87	299.77	1,875.0	1.4	-6.2	0.49	0.24	29.28	0.0	0.0	
1,900.0	0.96	295.56	1,900.0	1.6	-6.6	0.45	0.36	-16.84	0.0	0.0	
1,925.0	0.86	297.02	1,925.0	1.8	-6.9	0.41	-0.40	5.84	0.0	0.0	
1,950.0	0.97	299.49	1,950.0	2.0	-7.3	0.47	0.44	9.88	0.0	0.0	

Final PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #502H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3553.0usft (H&P 444)	
Site: Bandit 29 State Com		MD Reference: KB = 25 @ 3553.0usft (H&P 444)	
Well: #502H		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)	
1,975.0	1.13	307.30	1,975.0	2.2	-7.7	0.86	0.64	31.24	0.0	0.0	
2,000.0	1.05	310.20	1,999.9	2.5	-8.0	0.39	-0.32	11.60	0.0	0.0	
2,025.0	1.21	313.12	2,024.9	2.9	-8.4	0.68	0.64	11.68	0.0	0.0	
2,050.0	1.28	316.49	2,049.9	3.3	-8.8	0.41	0.28	13.48	0.0	0.0	
2,075.0	1.28	315.98	2,074.9	3.7	-9.2	0.05	0.00	-2.04	0.0	0.0	
2,100.0	1.39	315.84	2,099.9	4.1	-9.6	0.44	0.44	-0.56	0.0	0.0	
2,125.0	1.36	317.97	2,124.9	4.5	-10.0	0.24	-0.12	8.52	0.0	0.0	
2,150.0	1.23	302.10	2,149.9	4.9	-10.4	1.52	-0.52	-63.48	0.0	0.0	
2,175.0	1.63	317.57	2,174.9	5.3	-10.9	2.21	1.60	61.88	0.0	0.0	
2,200.0	1.59	320.08	2,199.9	5.8	-11.3	0.32	-0.16	10.04	0.0	0.0	
2,225.0	1.51	321.32	2,224.9	6.3	-11.8	0.35	-0.32	4.96	0.0	0.0	
2,250.0	1.61	324.06	2,249.9	6.9	-12.2	0.50	0.40	10.96	0.0	0.0	
2,275.0	1.66	322.64	2,274.9	7.4	-12.6	0.26	0.20	-5.68	0.0	0.0	
2,300.0	1.55	325.17	2,299.9	8.0	-13.0	0.52	-0.44	10.12	0.0	0.0	
2,325.0	1.51	324.44	2,324.8	8.6	-13.4	0.18	-0.16	-2.92	0.0	0.0	
2,350.0	1.49	324.86	2,349.8	9.1	-13.8	0.09	-0.08	1.68	0.0	0.0	
2,375.0	1.50	322.28	2,374.8	9.6	-14.2	0.27	0.04	-10.32	0.0	0.0	
2,400.0	1.65	323.57	2,399.8	10.2	-14.6	0.62	0.60	5.16	0.0	0.0	
2,425.0	1.73	325.66	2,424.8	10.8	-15.0	0.40	0.32	8.36	0.0	0.0	
2,450.0	1.64	324.35	2,449.8	11.4	-15.4	0.39	-0.36	-5.24	0.0	0.0	
2,475.0	1.64	323.61	2,474.8	11.9	-15.9	0.08	0.00	-2.96	0.0	0.0	
2,500.0	1.68	325.32	2,499.8	12.5	-16.3	0.25	0.16	6.84	0.0	0.0	
2,525.0	1.67	326.49	2,524.8	13.1	-16.7	0.14	-0.04	4.68	0.0	0.0	
2,550.0	1.60	324.90	2,549.8	13.7	-17.1	0.33	-0.28	-6.36	0.0	0.0	
2,575.0	1.67	326.21	2,574.7	14.3	-17.5	0.32	0.28	5.24	0.0	0.0	
2,600.0	1.72	324.83	2,599.7	14.9	-17.9	0.26	0.20	-5.52	0.0	0.0	
2,625.0	1.68	324.14	2,624.7	15.5	-18.3	0.18	-0.16	-2.76	0.0	0.0	

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	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)	BuId ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,650.0	1.66	323.72	2,649.7	16.1	-18.8	0.09	-0.08	-1.68	0.0	0.0	
2,675.0	1.64	322.71	2,674.7	16.7	-19.2	0.14	-0.08	-4.04	0.0	0.0	
2,700.0	1.70	326.32	2,699.7	17.3	-19.6	0.48	0.24	14.44	0.0	0.0	
2,725.0	1.66	321.48	2,724.7	17.9	-20.1	0.59	-0.16	-19.36	0.0	0.0	
2,750.0	1.57	322.18	2,749.7	18.4	-20.5	0.37	-0.36	2.80	0.0	0.0	
2,775.0	1.70	319.81	2,774.7	19.0	-20.9	0.59	0.52	-9.48	0.0	0.0	
2,800.0	1.63	320.33	2,799.6	19.5	-21.4	0.29	-0.28	2.08	0.0	0.0	
2,825.0	1.69	326.81	2,824.6	20.1	-21.8	0.79	0.24	25.92	0.0	0.0	
2,850.0	1.60	326.64	2,849.6	20.7	-22.2	0.36	-0.36	-0.68	0.0	0.0	
2,875.0	1.62	327.73	2,874.6	21.3	-22.6	0.15	0.08	4.36	0.0	0.0	
2,900.0	1.64	325.55	2,899.6	21.9	-23.0	0.26	0.08	-8.72	0.0	0.0	
2,925.0	1.55	330.46	2,924.6	22.5	-23.4	0.65	-0.36	19.64	0.0	0.0	
2,950.0	1.64	332.01	2,949.6	23.1	-23.7	0.40	0.36	6.20	0.0	0.0	
2,975.0	1.76	334.04	2,974.6	23.8	-24.0	0.54	0.48	8.12	0.0	0.0	
3,000.0	1.63	331.50	2,999.6	24.4	-24.4	0.60	-0.52	-10.16	0.0	0.0	
3,025.0	1.59	335.50	3,024.6	25.1	-24.7	0.48	-0.16	16.00	0.0	0.0	
3,050.0	1.76	336.09	3,049.5	25.7	-25.0	0.68	0.68	2.36	0.0	0.0	
3,075.0	1.73	335.54	3,074.5	26.4	-25.3	0.14	-0.12	-2.20	0.0	0.0	
3,100.0	1.75	336.72	3,099.5	27.1	-25.6	0.16	0.08	4.72	0.0	0.0	
3,125.0	1.69	338.74	3,124.5	27.8	-25.9	0.34	-0.24	8.08	0.0	0.0	
3,150.0	1.73	338.11	3,149.5	28.5	-26.2	0.18	0.16	-2.52	0.0	0.0	
3,175.0	1.79	338.48	3,174.5	29.2	-26.5	0.24	0.24	1.48	0.0	0.0	
3,200.0	1.75	340.28	3,199.5	29.9	-26.7	0.27	-0.16	7.20	0.0	0.0	
3,225.0	1.76	342.06	3,224.5	30.7	-27.0	0.22	0.04	7.12	0.0	0.0	
3,250.0	1.75	342.93	3,249.5	31.4	-27.2	0.11	-0.04	3.48	0.0	0.0	
3,275.0	1.70	343.77	3,274.4	32.1	-27.4	0.22	-0.20	3.36	0.0	0.0	
3,300.0	1.63	350.61	3,299.4	32.8	-27.6	0.84	-0.28	27.36	0.0	0.0	

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Site:	Bandit 29 State Corn	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	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)	
3,325.0	1.59	353.02	3,324.4	33.5	-27.7	0.31	-0.16	9.64	0.0	0.0	
3,350.0	1.60	354.41	3,349.4	34.2	-27.8	0.16	0.04	5.56	0.0	0.0	
3,375.0	1.34	356.89	3,374.4	34.8	-27.8	1.07	-1.04	9.92	0.0	0.0	
3,400.0	0.99	352.94	3,399.4	35.3	-27.9	1.44	-1.40	-15.80	0.0	0.0	
3,425.0	0.53	330.59	3,424.4	35.7	-27.9	2.16	-1.84	-89.40	0.0	0.0	
3,450.0	0.37	335.17	3,449.4	35.8	-28.0	0.66	-0.64	18.32	0.0	0.0	
3,475.0	0.33	349.83	3,474.4	36.0	-28.1	0.39	-0.16	58.64	0.0	0.0	
3,500.0	0.27	338.65	3,499.4	36.1	-28.1	0.33	-0.24	-44.72	0.0	0.0	
3,525.0	0.30	331.36	3,524.4	36.2	-28.2	0.19	0.12	-29.16	0.0	0.0	
3,550.0	0.33	335.93	3,549.4	36.3	-28.2	0.16	0.12	18.28	0.0	0.0	
3,575.0	0.29	354.66	3,574.4	36.5	-28.3	0.43	-0.16	74.92	0.0	0.0	
3,600.0	0.31	217.57	3,599.4	36.5	-28.3	2.23	0.08	-548.36	0.0	0.0	
3,625.0	0.21	213.44	3,624.4	36.4	-28.4	0.41	-0.40	-16.52	0.0	0.0	
3,650.0	0.04	235.61	3,649.4	36.3	-28.4	0.69	-0.68	88.68	0.0	0.0	
3,675.0	0.10	216.31	3,674.4	36.3	-28.4	0.25	0.24	-77.20	0.0	0.0	
3,700.0	0.16	140.23	3,699.4	36.3	-28.4	0.67	0.24	-304.32	0.0	0.0	
3,725.0	0.20	155.67	3,724.4	36.2	-28.4	0.25	0.16	61.76	0.0	0.0	
3,750.0	0.29	190.82	3,749.4	36.1	-28.4	0.68	0.36	140.60	0.0	0.0	
3,775.0	0.17	188.12	3,774.4	36.0	-28.4	0.48	-0.48	-10.80	0.0	0.0	
3,800.0	0.34	178.46	3,799.4	35.9	-28.4	0.70	0.68	-38.64	0.0	0.0	
3,825.0	0.44	188.18	3,824.4	35.7	-28.4	0.48	0.40	38.88	0.0	0.0	
3,850.0	0.42	214.28	3,849.4	35.6	-28.5	0.78	-0.08	104.40	0.0	0.0	
3,875.0	0.52	199.14	3,874.4	35.4	-28.6	0.63	0.40	-60.56	0.0	0.0	
3,900.0	0.51	228.18	3,899.4	35.2	-28.7	1.03	-0.04	116.16	0.0	0.0	
3,925.0	0.49	214.33	3,924.4	35.0	-28.8	0.49	-0.08	-55.40	0.0	0.0	
3,950.0	0.46	211.07	3,949.4	34.9	-28.9	0.16	-0.12	-13.04	0.0	0.0	
3,975.0	0.54	195.13	3,974.4	34.7	-29.0	0.64	0.32	-63.76	0.0	0.0	

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	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)	BuId ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,000.0	0.54	195.45	3,999.4	34.4	-29.1	0.01	0.00	1.28	0.0	0.0	
4,025.0	0.46	234.64	4,024.4	34.3	-29.2	1.37	-0.32	156.76	0.0	0.0	
4,050.0	0.57	233.67	4,049.4	34.1	-29.4	0.44	0.44	-3.88	0.0	0.0	
4,075.0	0.61	244.18	4,074.4	34.0	-29.6	0.46	0.16	42.04	0.0	0.0	
4,100.0	0.66	234.93	4,099.4	33.9	-29.8	0.46	0.20	-37.00	0.0	0.0	
4,125.0	0.71	223.51	4,124.4	33.7	-30.0	0.58	0.20	-45.68	0.0	0.0	
4,150.0	0.63	195.48	4,149.4	33.4	-30.2	1.33	-0.32	-112.12	0.0	0.0	
4,175.0	0.76	221.43	4,174.4	33.2	-30.3	1.35	0.52	103.80	0.0	0.0	
4,200.0	0.78	222.52	4,199.4	32.9	-30.6	0.10	0.08	4.36	0.0	0.0	
4,225.0	0.68	230.29	4,224.4	32.7	-30.8	0.56	-0.40	31.08	0.0	0.0	
4,250.0	0.69	223.87	4,249.4	32.5	-31.0	0.31	0.04	-25.88	0.0	0.0	
4,275.0	0.39	251.90	4,274.4	32.4	-31.2	1.57	-1.20	112.12	0.0	0.0	
4,300.0	0.55	206.38	4,299.4	32.2	-31.3	1.57	0.64	-182.08	0.0	0.0	
4,325.0	0.58	176.92	4,324.4	32.0	-31.4	1.16	0.12	-117.84	0.0	0.0	
4,350.0	0.70	172.03	4,349.4	31.7	-31.3	0.53	0.48	-19.56	0.0	0.0	
4,375.0	0.89	155.77	4,374.4	31.4	-31.2	1.17	0.76	-65.04	0.0	0.0	
4,400.0	1.14	148.67	4,399.4	31.0	-31.0	1.12	1.00	-28.40	0.0	0.0	
4,425.0	1.05	175.26	4,424.4	30.6	-30.9	2.04	-0.36	106.36	0.0	0.0	
4,450.0	1.36	143.95	4,449.3	30.1	-30.7	2.86	1.24	-125.24	0.0	0.0	
4,475.0	1.39	148.56	4,474.3	29.6	-30.4	0.46	0.12	18.44	0.0	0.0	
4,500.0	1.26	145.30	4,499.3	29.1	-30.0	0.60	-0.52	-13.04	0.0	0.0	
4,525.0	1.18	148.54	4,524.3	28.7	-29.8	0.42	-0.32	12.96	0.0	0.0	
4,550.0	1.34	144.25	4,549.3	28.2	-29.5	0.74	0.64	-17.16	0.0	0.0	
4,575.0	1.32	139.82	4,574.3	27.7	-29.1	0.42	-0.08	-17.72	0.0	0.0	
4,600.0	1.59	141.09	4,599.3	27.2	-28.7	1.09	1.08	5.08	0.0	0.0	
4,625.0	1.71	137.47	4,624.3	26.7	-28.2	0.64	0.48	-14.48	0.0	0.0	
4,650.0	1.90	134.04	4,649.3	26.1	-27.7	0.87	0.76	-13.72	0.0	0.0	

Final PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #502H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3553.0usft (H&P 444)	
Site: Bandit 29 State Corn		MD Reference: KB = 25 @ 3553.0usft (H&P 444)	
Well: #502H		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)	
4,675.0	2.12	133.33	4,674.3	25.5	-27.0	0.89	0.88	-2.84	0.0	0.0	
4,700.0	2.26	132.23	4,699.3	24.9	-26.3	0.58	0.56	-4.40	0.0	0.0	
4,725.0	2.52	132.64	4,724.2	24.2	-25.6	1.04	1.04	1.64	0.0	0.0	
4,750.0	2.70	131.67	4,749.2	23.4	-24.7	0.74	0.72	-3.88	0.0	0.0	
4,775.0	2.68	133.14	4,774.2	22.6	-23.9	0.29	-0.08	5.88	0.0	0.0	
4,800.0	2.29	135.61	4,799.2	21.9	-23.1	1.62	-1.56	9.88	0.0	0.0	
4,825.0	2.58	128.39	4,824.1	21.2	-22.3	1.69	1.16	-28.88	-0.1	0.0	
4,830.0	2.93	126.09	4,829.1	21.0	-22.1	7.34	7.00	-46.00	-0.1	0.1	
5,076.0	1.15	133.88	5,075.0	15.6	-15.2	0.73	-0.72	3.17	1.3	1.0	
5,171.0	1.94	349.58	5,169.9	16.5	-14.8	3.11	0.83	-151.89	-4.8	1.4	
5,265.0	4.06	340.38	5,263.8	21.2	-16.2	2.31	2.26	-9.79	-9.6	1.4	
5,360.0	6.43	336.64	5,358.4	29.3	-19.5	2.52	2.49	-3.94	-15.0	1.2	
5,454.0	8.73	332.33	5,451.6	40.4	-24.9	2.52	2.45	-4.59	-21.1	0.5	
5,548.0	11.07	334.49	5,544.2	54.9	-32.1	2.52	2.49	2.30	-27.8	1.8	
5,642.0	13.19	334.86	5,636.1	72.7	-40.5	2.26	2.26	0.39	-35.1	2.0	
5,737.0	13.63	335.18	5,728.5	92.7	-49.8	0.47	0.46	0.34	-41.5	1.9	
5,831.0	15.09	334.30	5,819.5	113.8	-59.8	1.57	1.55	-0.94	-46.2	0.7	
6,019.0	14.69	332.73	6,001.2	157.0	-81.3	0.30	-0.21	-0.84	-49.7	-1.4	
6,207.0	14.11	331.29	6,183.3	198.3	-103.3	0.36	-0.31	-0.77	-50.1	-2.3	
6,396.0	13.73	330.29	6,366.8	238.0	-125.4	0.24	-0.20	-0.53	-48.9	-1.8	
6,584.0	14.30	331.30	6,549.2	277.8	-147.6	0.33	0.30	0.54	-48.1	0.3	
6,772.0	14.38	331.83	6,731.3	318.7	-169.8	0.08	0.04	0.28	-48.4	1.4	
6,960.0	10.75	331.37	6,914.8	354.7	-189.2	1.93	-1.93	-0.24	-45.0	1.7	
7,149.0	6.40	335.40	7,101.6	379.7	-202.1	2.32	-2.30	2.13	-39.4	4.3	
7,337.0	1.50	344.40	7,289.1	391.6	-207.1	2.62	-2.61	4.79	-30.2	7.6	
7,526.0	0.64	355.41	7,478.1	395.1	-207.9	0.47	-0.46	5.83	-23.3	10.2	
7,714.0	0.35	328.89	7,666.1	396.6	-208.2	0.19	-0.15	-14.11	-26.5	-1.7	

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Site:	Bandit 29 State Com.	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	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)	
7,903.0	0.47	332.67	7,855.1	397.8	-208.9	0.07	0.06	2.00	-28.0	0.1	
8,092.0	0.58	164.87	8,044.1	397.6	-209.0	0.55	0.06	-88.78	27.1	-6.1	
8,280.0	0.58	164.24	8,232.1	395.7	-208.5	0.00	0.00	-0.34	25.3	-5.8	
8,469.0	0.66	187.05	8,421.1	393.7	-208.4	0.14	0.04	12.07	19.1	-14.8	
8,658.0	0.78	199.53	8,610.0	391.4	-208.9	0.10	0.06	6.60	13.1	-18.4	
8,846.0	0.87	203.94	8,798.0	388.9	-209.9	0.06	0.05	2.35	8.9	-19.2	
9,034.0	1.02	201.70	8,986.0	388.1	-211.1	0.08	0.08	-1.19	6.5	-18.9	
9,223.0	0.93	130.75	9,175.0	383.5	-210.6	0.60	-0.05	-37.54	17.9	-1.6	
9,412.0	0.98	110.21	9,363.9	381.9	-207.9	0.18	0.03	-10.87	14.3	4.3	
9,601.0	1.05	104.16	9,552.9	381.0	-204.7	0.07	0.04	-3.20	10.4	5.6	
9,789.0	0.70	175.79	9,740.9	379.4	-203.0	0.57	-0.19	38.10	6.9	-6.5	
9,987.0	1.24	249.69	9,938.9	377.5	-204.9	0.63	0.27	37.32	-6.8	-7.3	
10,172.0	1.34	272.82	10,123.8	376.9	-208.9	0.28	0.05	12.50	-13.1	-3.2	
10,361.0	1.03	243.46	10,312.8	376.2	-212.7	0.36	-0.16	-15.53	-13.5	-10.3	
10,549.0	0.93	229.01	10,500.8	374.5	-215.3	0.14	-0.05	-7.69	-13.6	-13.8	
10,581.0	0.94	229.62	10,532.8	374.1	-215.7	0.04	0.03	1.91	-14.3	-13.6	
10,653.0	4.53	194.72	10,604.7	371.0	-216.9	5.27	4.99	-48.47	-7.2	-19.7	
10,679.9	7.89	189.87	10,631.4	368.1	-217.5	12.64	12.50	-18.04	-8.4	-20.3	
KOP(Bandit 29 St Com #502H)											
10,700.0	10.42	188.29	10,651.3	365.0	-218.0	12.64	12.58	-7.87	-10.7	-20.6	
10,747.0	10.87	185.29	10,697.4	356.4	-219.0	1.52	0.96	-6.38	-14.1	-20.9	
10,794.0	12.18	188.91	10,743.5	347.0	-220.2	3.18	2.79	7.70	-15.8	-19.5	
10,842.0	15.34	194.89	10,790.1	335.9	-222.6	7.21	6.58	12.46	-15.1	-18.3	
10,889.0	21.99	196.02	10,834.6	321.4	-226.6	14.17	14.15	2.40	-12.1	-19.7	
10,936.0	26.86	194.81	10,877.4	302.7	-231.8	10.42	10.36	-2.57	-8.4	-21.8	
10,983.0	31.94	190.22	10,918.3	280.2	-236.7	11.82	10.81	-9.77	-2.8	-23.1	
11,031.0	37.11	188.25	10,957.9	253.3	-241.0	11.02	10.77	-4.10	2.3	-22.4	

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	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)	DLag ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
11,078.0	43.51	185.35	10,993.7	223.1	-244.6	14.19	13.62	-6.17	7.2	-20.0	
11,125.0	49.51	183.06	11,026.0	189.2	-247.0	13.24	12.77	-4.87	11.2	-15.7	
11,174.0	54.26	180.77	11,056.3	150.6	-248.3	10.37	9.69	-4.67	15.1	-9.4	
11,220.0	61.46	181.28	11,080.7	111.7	-249.0	15.68	15.65	1.11	18.2	-3.1	
11,243.0	65.91	182.90	11,090.9	91.1	-249.8	20.35	19.35	7.03	19.0	-0.4	
HL Crossing, MD:11243.0, TVD:11090.9, N/S:91.1, E/W:-249.8, INC:65.91											
11,255.4	68.31	183.72	11,095.7	79.8	-250.4	20.35	19.40	6.65	19.2	0.9	
FTP(Bandit 29 St Com #502H)											
11,267.0	70.57	184.47	11,099.8	68.9	-251.2	20.35	19.43	6.44	19.2	1.9	
11,314.0	79.44	188.33	11,112.0	23.8	-256.3	20.47	18.87	8.21	17.5	4.7	
11,322.0	81.33	189.28	11,113.3	16.0	-257.5	26.37	23.62	11.87	16.9	4.8	
11,382.0	88.99	192.56	11,118.4	-42.6	-268.8	13.88	12.77	5.47	11.6	4.3	
11,477.0	91.98	190.55	11,117.6	-135.7	-287.8	3.79	3.15	-2.12	7.6	2.3	
11,571.0	90.85	188.70	11,115.2	-228.3	-303.5	2.31	-1.20	-1.97	5.3	0.9	
11,665.0	92.46	186.12	11,112.5	-321.5	-315.7	3.23	1.71	-2.74	2.6	0.1	
11,760.0	91.75	184.58	11,109.0	-416.0	-324.5	1.78	-0.75	-1.62	-0.9	-0.4	
11,854.0	92.18	185.17	11,105.8	-509.6	-332.5	0.78	0.46	0.63	-4.2	-3.3	
11,949.0	93.36	183.99	11,101.2	-604.2	-340.1	1.76	1.24	-1.24	-8.7	-8.8	
12,043.0	91.93	183.84	11,096.9	-697.9	-346.3	1.57	-1.52	-0.37	-13.1	-15.5	
12,137.0	90.02	181.71	11,095.3	-791.7	-350.7	2.89	-2.03	-2.05	-14.7	-20.5	
12,231.0	88.35	179.86	11,096.6	-885.7	-352.0	2.65	-1.78	-1.97	-13.4	-22.5	
12,325.0	87.77	177.18	11,099.8	-979.6	-349.6	2.92	-0.62	-2.85	-10.1	-20.7	
12,419.0	88.71	177.61	11,102.7	-1,073.5	-345.3	1.10	1.00	0.46	-7.3	-17.1	
12,514.0	89.44	177.23	11,104.2	-1,168.4	-341.0	0.87	0.77	-0.40	-5.8	-13.5	
12,609.0	87.11	176.75	11,107.1	-1,263.2	-338.0	2.50	-2.45	-0.51	-2.9	-9.2	
12,703.0	87.51	176.51	11,111.5	-1,356.9	-330.5	0.50	0.43	-0.26	1.5	-4.3	
12,797.0	89.35	177.12	11,114.1	-1,450.7	-325.3	2.06	1.96	0.65	4.1	0.2	

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	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)	
12,892.0	89.38	176.71	11,115.1	-1,545.6	-320.2	0.43	0.03	-0.43	5.1	4.7	
12,987.0	90.82	178.68	11,115.0	-1,640.5	-316.4	2.57	1.52	2.07	5.0	7.8	
13,082.0	91.85	178.70	11,112.7	-1,735.5	-314.2	1.08	1.08	0.02	2.8	9.3	
13,176.0	90.82	179.64	11,110.6	-1,829.4	-312.8	1.48	-1.10	1.00	0.6	10.0	
13,271.0	91.07	179.21	11,109.0	-1,924.4	-311.9	0.52	0.26	-0.45	-1.0	10.3	
13,366.0	91.84	179.05	11,106.6	-2,019.4	-310.4	0.83	0.81	-0.17	-3.4	11.1	
13,460.0	90.90	179.95	11,104.3	-2,113.3	-309.6	1.38	-1.00	0.96	-5.7	11.2	
13,555.0	91.95	180.08	11,102.0	-2,208.3	-309.6	1.11	1.11	0.14	-8.0	10.6	
13,650.0	90.38	179.47	11,100.0	-2,303.3	-309.3	1.77	-1.65	-0.64	-10.0	10.3	
13,744.0	91.15	179.34	11,098.8	-2,397.3	-308.3	0.83	0.82	-0.14	-11.2	10.6	
13,839.0	89.84	179.15	11,098.0	-2,492.2	-307.0	1.39	-1.38	-0.20	-12.0	11.2	
13,934.0	90.55	179.09	11,097.6	-2,587.2	-305.6	0.75	0.75	-0.06	-12.4	11.9	
14,028.0	87.70	179.75	11,099.1	-2,681.2	-304.6	3.11	-3.03	0.70	-10.9	12.2	
14,123.0	86.93	179.57	11,103.5	-2,776.1	-304.1	0.83	-0.81	-0.19	-6.5	12.1	
14,218.0	87.71	178.52	11,108.0	-2,871.0	-302.5	1.38	0.82	-1.11	-2.0	13.0	
14,312.0	88.39	178.67	11,111.2	-2,964.9	-300.2	0.74	0.72	0.16	1.2	14.7	
14,334.8	88.64	178.98	11,111.7	-2,987.7	-299.7	1.75	1.12	1.35	1.7	15.0	
TOT#1(Bandit 29 St Com #502H)											
14,407.0	89.45	179.95	11,112.9	-3,059.9	-299.0	1.75	1.12	1.35	2.7	15.2	
14,502.0	90.76	181.47	11,112.8	-3,154.9	-300.2	2.11	1.38	1.60	2.1	13.3	
14,597.0	91.01	180.90	11,111.3	-3,249.8	-302.2	0.66	0.26	-0.60	0.3	10.7	
14,691.0	91.55	180.56	11,109.2	-3,343.8	-303.4	0.68	0.57	-0.36	-2.2	8.9	
14,786.0	90.58	180.58	11,107.4	-3,438.8	-304.3	1.02	-1.02	0.02	-4.3	7.2	
14,880.0	91.16	180.83	11,106.0	-3,532.8	-305.5	0.67	0.62	0.27	-6.1	5.4	
14,975.0	89.19	181.69	11,105.7	-3,627.7	-307.6	2.26	-2.07	0.91	-6.8	2.7	
15,070.0	90.58	181.28	11,105.9	-3,722.7	-310.0	1.53	1.46	-0.43	-7.0	-0.4	
15,164.0	89.58	181.39	11,105.8	-3,816.7	-312.2	1.07	-1.06	0.12	-7.5	-3.3	

Final PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #502H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3553.0usft (H&P 444)	
Site: Bandit 29 State Com		MD Reference: KB = 25 @ 3553.0usft (H&P 444)	
Well: #502H		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)	
15,258.0	90.78	181.40	11,105.5	-3,910.6	-314.5	1.28	1.28	0.01	-8.2	-6.2	
15,353.0	89.59	181.44	11,105.2	-4,005.6	-316.9	1.25	-1.25	0.04	-8.8	-9.2	
15,447.0	90.59	180.90	11,105.0	-4,099.6	-318.8	1.21	1.06	-0.57	-9.4	-11.8	
15,542.0	89.73	180.73	11,104.8	-4,194.6	-320.1	0.92	-0.91	-0.18	-10.0	-13.8	
15,636.0	88.73	180.99	11,106.0	-4,288.6	-321.5	1.10	-1.06	0.28	-9.1	-15.9	
15,731.0	89.33	180.19	11,107.6	-4,383.5	-322.5	1.05	0.63	-0.84	-7.9	-17.5	
15,825.0	90.92	179.30	11,107.4	-4,477.5	-322.1	1.94	1.69	-0.95	-8.5	-17.7	
15,920.0	91.09	180.31	11,105.8	-4,572.5	-321.8	1.08	0.18	1.06	-10.5	-18.1	
16,014.0	88.33	180.16	11,106.2	-4,666.5	-322.2	2.94	-2.94	-0.16	-10.4	-19.1	
16,109.0	88.96	180.11	11,108.5	-4,761.5	-322.4	0.67	0.66	-0.05	-8.5	-20.0	
16,203.0	89.13	180.04	11,110.1	-4,855.5	-322.5	0.20	0.18	-0.07	-7.3	-20.8	
16,297.0	89.85	178.96	11,110.9	-4,949.4	-321.7	1.38	0.77	-1.15	-6.9	-20.6	
16,392.0	90.32	178.57	11,110.8	-5,044.4	-319.6	0.64	0.49	-0.41	-7.4	-19.2	
16,486.0	89.04	177.84	11,111.3	-5,138.4	-316.7	1.57	-1.36	-0.78	-7.2	-16.9	
16,581.0	89.24	176.57	11,112.7	-5,233.2	-312.1	1.35	0.21	-1.34	-6.2	-12.9	
16,675.0	89.81	176.64	11,113.5	-5,327.1	-306.5	0.61	0.61	0.07	-5.8	-8.0	
16,769.0	91.24	176.46	11,112.6	-5,420.9	-300.8	1.53	1.52	-0.19	-7.0	-3.0	
16,864.0	88.72	177.67	11,112.7	-5,515.8	-296.0	2.94	-2.65	1.27	-7.4	1.2	
16,958.0	88.81	177.50	11,114.7	-5,609.7	-292.0	0.20	0.10	-0.18	-5.7	4.5	
17,052.0	89.59	177.01	11,116.0	-5,703.6	-287.5	0.98	0.83	-0.52	-4.8	8.3	
17,147.0	89.61	179.01	11,116.7	-5,798.5	-284.2	2.11	0.02	2.11	-4.5	11.0	
17,241.0	89.64	178.63	11,117.3	-5,892.5	-282.3	0.41	0.03	-0.40	-4.3	12.3	
17,335.0	89.79	179.53	11,117.7	-5,986.4	-280.8	0.97	0.16	0.96	-4.2	13.1	
17,430.0	90.76	178.80	11,117.3	-6,081.4	-279.4	1.28	1.02	-0.77	-5.0	13.8	
17,524.0	89.72	180.35	11,116.9	-6,175.4	-278.7	1.99	-1.11	1.65	-5.8	13.9	
17,618.0	90.75	180.40	11,116.5	-6,269.4	-279.3	1.10	1.10	0.05	-6.5	12.6	
17,712.0	91.16	179.72	11,114.9	-6,363.4	-279.4	0.84	0.44	-0.72	-8.5	11.9	

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Site:	Bandit 29 State Com	MD Reference:	KB = 25 @ 3553.0usft (H&P 444)
Well:	#502H	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)	
17,806.0	92.73	179.35	11,111.7	-6,457.3	-278.6	1.72	1.67	-0.39	-12.0	12.0	
17,900.0	91.66	179.67	11,108.1	-6,551.3	-277.8	1.19	-1.14	0.34	-16.0	12.1	
17,994.0	89.48	180.60	11,107.2	-6,645.3	-278.1	2.52	-2.32	0.99	-17.3	11.3	
18,089.0	87.62	181.34	11,109.6	-6,740.2	-279.7	2.11	-1.96	0.78	-15.3	9.0	
18,183.0	88.67	181.38	11,112.7	-6,834.1	-281.9	1.12	1.12	0.04	-12.6	6.1	
18,277.0	89.55	180.97	11,114.1	-6,928.1	-283.8	1.03	0.94	-0.44	-11.5	3.5	
18,372.0	90.75	180.26	11,113.9	-7,023.1	-284.8	1.47	1.26	-0.75	-12.2	1.9	
18,466.0	88.75	179.37	11,114.3	-7,117.1	-284.5	2.33	-2.13	-0.95	-12.1	1.5	
18,517.0	89.28	179.33	11,115.2	-7,168.1	-284.0	1.05	1.04	-0.09	-11.4	1.7	
HL Crossing, MD:18517.0', TVD:11115.2', N/S:-7168.1', E/W:-284.0', INC:89.28											
18,560.0	89.73	179.29	11,115.5	-7,211.1	-283.4	1.05	1.04	-0.09	-11.2	1.9	
Final MWD Survey (MD=18560.0')											
18,617.0	89.73	179.29	11,115.8	-7,268.0	-282.7	0.00	0.00	0.00	-11.2	2.3	
PBHL(Bandit 29 St Com #502H)											
18,628.0	89.73	179.29	11,115.8	-7,279.1	-282.6	0.00	0.00	0.00	-15.6	3.1	
Final Projection to Bit (MD=18628.0')											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,243.0	11,090.9	91.1	-249.8	HL Crossing, MD:11243.0', TVD:11090.9', N/S:91.1', E/W:-249.8', INC:65.91
18,517.0	11,115.2	-7,168.1	-284.0	HL Crossing, MD:18517.0', TVD:11115.2', N/S:-7168.1', E/W:-284.0', INC:89.28
18,560.0	11,115.5	-7,211.1	-283.4	Final MWD Survey (MD=18560.0')
18,628.0	11,115.8	-7,279.1	-282.6	Final Projection to Bit (MD=18628.0')

Checked By: _____ Approved By: _____ Date: _____

