

HOBBS OCD

MAR 07 2019

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Stonewall 28 Fed Com
#302H
OH

Design: OH

Midland PVA

20 August, 2018





Midland PVA



Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well #302H
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB = 25 @ 3525.0usft
Site:	Stonewall 28 Fed Com			MD Reference:	KB = 25 @ 3525.0usft
Well:	#302H			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 Stonewall 28 Fed Com					
Site Position:		Northing:	435,811.00 usft	Latitude:	32° 11' 42.907 N
From:	Map	Easting:	804,872.00 usft	Longitude:	103° 28' 53.013 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well #302H						
Well Position	+N-S	0.0 usft	Northing:	435,811.00 usft	Latitude:	32° 11' 42.904 N
	+E-W	0.0 usft	Easting:	804,905.00 usft	Longitude:	103° 28' 52.629 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,500.0 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/15/2018	6.85	60.04	47,870.24297182

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	177.04	



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

Survey Program	Date	8/20/2018			
From (usft)	To (usft)	Survey (Wellbore)	Top Name	Description	
158.0	1,109.0	Cartel 41 MWD 8'KB + 17' (OH)	MWD	OWSG MWD - Standard	
1,278.0	20,310.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (*/100usft)	Build (*/100usft)	Turn (*/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
158.0	0.09	211.02	158.0	-0.1	-0.1	0.06	0.06	0.00	0.0	0.0
317.0	0.09	163.92	317.0	-0.3	-0.1	0.05	0.00	-29.62	0.0	0.0
475.0	0.18	153.47	475.0	-0.7	0.1	0.06	0.06	-6.61	0.0	0.0
633.0	0.33	174.29	633.0	-1.3	0.2	0.11	0.09	13.18	0.0	0.0
792.0	0.33	204.17	792.0	-2.2	0.1	0.11	0.00	18.79	0.0	0.0
951.0	0.31	221.48	951.0	-3.0	-0.4	0.06	-0.01	10.89	0.0	0.0
1,109.0	0.40	185.01	1,109.0	-3.8	-0.7	0.15	0.06	-23.08	0.0	0.0
1,278.0	0.80	317.30	1,278.0	-3.6	-1.6	0.66	0.24	78.28	-1.8	0.4
1,372.0	2.50	37.60	1,371.9	-1.4	-0.8	2.65	1.81	85.43	0.7	4.6
1,561.0	6.10	68.00	1,560.4	5.6	11.0	2.19	1.90	16.08	2.6	6.3
1,749.0	5.60	72.40	1,747.4	12.1	29.1	0.36	-0.27	2.34	-2.3	6.3
1,938.0	5.00	74.10	1,935.6	17.1	45.8	0.33	-0.32	0.90	-5.7	5.7
2,126.0	4.40	73.00	2,123.0	21.5	60.5	0.32	-0.32	-0.59	-7.4	4.8
2,314.0	4.00	68.90	2,310.5	26.0	73.6	0.27	-0.21	-2.18	-7.7	4.0
2,503.0	3.70	66.00	2,499.1	30.8	85.3	0.19	-0.16	-1.53	-6.8	4.3
2,693.0	3.80	66.70	2,688.6	35.8	96.7	0.06	0.05	0.37	-5.2	5.3
2,882.0	4.00	69.70	2,877.2	40.6	108.6	0.15	0.11	1.59	-3.9	6.1
3,071.0	3.80	71.30	3,065.8	44.9	120.7	0.12	-0.11	0.85	-2.7	6.1
3,260.0	3.90	73.10	3,254.3	48.7	132.8	0.08	0.05	0.95	-1.4	5.7
3,448.0	4.00	76.20	3,442.9	52.2	145.3	0.12	0.05	1.64	-0.3	4.6



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Well:	#302H	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)	OLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,638.0	4.30	78.50	3,631.4	55.2	158.7	0.18	0.16	1.22	-0.1		2.9
3,828.0	4.30	81.10	3,820.9	57.7	172.7	0.10	0.00	1.37	-0.5		0.6
4,017.0	4.00	73.70	4,009.4	60.6	186.0	0.32	-0.16	-3.92	-0.3		-1.2
4,206.0	3.50	60.50	4,198.0	65.3	197.4	0.53	-0.26	-6.98	1.4		-0.4
4,395.0	3.60	71.10	4,386.6	70.1	208.0	0.35	0.05	5.61	3.6		0.1
4,585.0	4.40	83.60	4,576.1	72.8	220.9	0.62	0.42	6.58	4.0		-2.6
4,774.0	4.40	73.60	4,764.6	75.7	235.1	0.41	0.00	-5.29	3.8		-3.9
4,963.0	5.20	84.80	4,952.9	78.5	250.5	0.65	0.42	5.93	0.7		-6.7
5,153.0	4.50	61.60	5,142.3	82.8	265.7	1.09	-0.37	-12.21	1.7		-7.2
5,202.0	4.00	55.20	5,191.1	84.7	268.8	1.40	-1.02	-13.06	2.3		-6.2
5,324.0	3.60	57.20	5,312.9	89.2	275.5	0.35	-0.33	1.64	2.8		-4.1
5,512.0	3.60	63.20	5,500.5	95.1	285.7	0.20	0.00	3.19	4.2		-2.1
5,702.0	3.80	57.20	5,690.1	101.2	296.3	0.23	0.11	-3.16	5.8		0.9
5,890.0	3.50	67.70	5,877.7	106.7	306.9	0.39	-0.16	5.59	7.8		1.6
6,078.0	5.80	62.50	6,065.1	113.3	320.6	1.24	1.22	-2.77	6.1		3.6
6,267.0	4.80	58.50	6,253.3	121.8	335.8	0.56	-0.53	-2.12	1.9		6.1
6,456.0	4.50	53.10	6,441.6	130.4	348.5	0.28	-0.16	-2.86	-0.7		9.6
6,645.0	4.30	51.40	6,630.1	139.3	360.0	0.13	-0.11	-0.90	-2.4		13.9
6,834.0	5.40	74.60	6,818.4	146.1	374.1	1.18	0.58	12.28	1.7		15.4
7,023.0	5.20	74.70	7,006.6	150.7	390.9	0.11	-0.11	0.05	-1.9		14.3
7,212.0	4.70	72.10	7,194.9	155.3	406.5	0.29	-0.26	-1.38	-5.0		13.4
7,401.0	2.60	62.10	7,383.5	159.7	417.7	1.16	-1.11	-5.29	-5.5		12.9
7,590.0	2.70	58.60	7,572.3	164.1	425.3	0.10	0.05	-1.85	-1.4		15.1
7,779.0	2.20	60.10	7,761.1	168.2	432.2	0.27	-0.26	0.79	-1.8		16.5
7,968.0	0.90	313.20	7,950.1	171.0	434.3	1.38	-0.69	-56.56	-15.8		-9.9
8,156.0	0.80	323.00	8,138.1	173.1	432.4	0.09	-0.05	5.21	-20.0		-6.8
8,345.0	0.50	63.70	8,327.1	174.5	432.4	0.54	-0.16	53.28	-3.6		22.2



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Design: OH

Local Co-ordinate Reference: Well #302H
TVD Reference: KB = 25 @ 3525.0usft
MD Reference: KB = 25 @ 3525.0usft
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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,535.0	1.10	64.30	8,517.0	175.6	434.8	0.32	0.32	0.32	-6.0	22.2	
8,723.0	1.20	57.20	8,705.0	177.5	438.0	0.09	0.05	-3.78	-12.5	21.1	
8,912.0	0.70	314.10	8,894.0	179.4	438.9	0.80	-0.26	-54.55	-18.4	-18.9	
9,101.0	1.20	324.60	9,083.0	181.8	436.9	0.28	0.26	5.56	-24.7	-15.0	
9,290.0	1.60	339.50	9,271.9	185.9	434.8	0.28	0.21	7.88	-32.3	-7.6	
9,478.0	2.10	337.30	9,459.8	191.5	432.6	0.27	0.27	-1.17	-38.0	-8.9	
9,508.0	2.10	337.20	9,489.8	192.5	432.2	0.01	0.00	-0.33	-39.1	-9.0	
9,586.0	1.30	166.10	9,567.8	193.0	431.8	4.35	-1.03	-219.36	40.5	2.6	
9,680.0	16.50	168.70	9,660.4	178.8	434.7	16.17	16.17	2.77	26.8	1.0	
9,775.0	31.60	170.30	9,746.9	140.8	441.6	15.91	15.89	1.68	-0.7	2.4	
9,840.4	40.43	173.08	9,799.7	102.8	447.0	13.72	13.49	4.26	-24.3	5.4	
FTP Crossing 9840.4' MD; 9799.7' TVD; 102.8°; 447.0°; 40.43											
9,869.0	44.30	174.00	9,820.9	83.6	449.2	13.72	13.55	3.20	-35.5	7.0	
9,964.0	49.60	177.10	9,885.7	14.5	454.5	6.07	5.58	3.26	-69.9	12.5	
10,058.0	59.20	179.90	9,940.4	-61.9	456.4	10.49	10.21	2.98	-99.6	16.9	
10,153.0	61.30	180.40	9,987.5	-144.3	456.2	2.26	2.21	0.53	-122.3	15.9	
10,247.0	65.90	182.80	10,029.3	-226.5	453.8	5.40	4.89	2.55	-130.8	14.7	
10,342.0	64.50	182.10	10,069.1	-314.6	450.1	1.62	-1.47	-0.74	-122.3	8.5	
10,437.0	68.00	179.70	10,107.4	-401.5	448.8	4.35	3.68	-2.53	-96.2	5.2	
10,532.0	68.90	179.50	10,142.3	-489.9	449.4	0.97	0.95	-0.21	-62.3	5.1	
10,626.0	74.90	181.20	10,171.5	-579.2	448.8	6.61	6.38	1.81	-33.9	3.5	
10,721.0	80.60	180.50	10,191.6	-672.0	447.4	6.04	6.00	-0.74	-14.5	1.2	
10,815.0	87.50	179.40	10,201.4	-765.4	447.5	7.43	7.34	-1.17	-5.6	0.5	
10,910.0	89.50	179.10	10,203.9	-860.4	448.8	2.13	2.11	-0.32	-3.9	0.9	
11,004.0	89.40	179.00	10,204.8	-954.4	450.3	0.15	-0.11	-0.11	-3.8	1.6	
11,099.0	89.40	179.50	10,205.7	-1,049.3	451.6	0.53	0.00	0.53	-3.6	2.0	
11,193.0	89.80	179.40	10,206.4	-1,143.3	452.5	0.44	0.43	-0.11	-3.8	2.1	



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Well:	#302H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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11,288.0	90.10	179.50	10,206.5	-1,238.3	453.4	0.33	0.32	0.11	-4.5	2.2
11,383.0	89.60	178.20	10,206.7	-1,333.3	455.3	1.47	-0.53	-1.37	-5.1	3.3
11,477.0	90.10	179.30	10,207.0	-1,427.3	457.3	1.29	0.53	1.17	-5.7	4.5
11,572.0	90.50	178.60	10,206.5	-1,522.3	459.1	0.85	0.42	-0.74	-7.4	5.4
11,666.0	90.50	178.80	10,205.7	-1,616.2	461.2	0.21	0.00	0.21	-10.0	6.7
11,761.0	91.10	178.70	10,204.3	-1,711.2	463.3	0.84	0.63	-0.11	-13.1	8.0
11,855.0	91.80	178.50	10,202.0	-1,805.1	465.6	0.77	0.74	-0.21	-17.2	9.5
11,950.0	90.70	177.70	10,199.9	-1,900.1	468.7	1.43	-1.16	-0.84	-21.1	11.8
12,045.0	91.80	181.10	10,197.8	-1,995.0	469.7	3.76	1.16	3.58	-24.9	12.0
12,140.0	88.10	181.00	10,197.9	-2,090.0	468.0	3.90	-3.89	-0.11	-26.1	9.4
12,234.0	88.80	181.50	10,200.4	-2,183.9	465.9	0.92	0.74	0.53	-24.7	6.5
12,329.0	89.20	181.20	10,202.1	-2,278.9	463.7	0.53	0.42	-0.32	-24.1	3.4
12,423.0	89.40	180.40	10,203.2	-2,372.9	462.4	0.88	0.21	-0.85	-24.1	1.3
12,518.0	86.20	179.00	10,206.9	-2,467.8	462.9	3.68	-3.37	-1.47	-21.5	1.0
12,613.0	85.60	177.70	10,213.7	-2,562.5	465.6	1.50	-0.63	-1.37	-15.9	2.9
12,707.0	86.50	178.20	10,220.2	-2,656.2	469.0	1.09	0.96	0.53	-10.5	5.4
12,802.0	87.00	178.30	10,225.5	-2,751.0	471.9	0.54	0.53	0.11	-6.2	7.5
12,896.0	89.30	179.00	10,228.6	-2,844.9	474.1	2.56	2.45	0.74	-4.3	8.8
12,991.0	88.20	178.70	10,230.7	-2,939.9	476.0	1.20	-1.16	-0.32	-3.3	9.9
13,085.0	89.30	178.10	10,232.7	-3,033.8	478.6	1.33	1.17	-0.64	-2.3	11.7
13,180.0	90.20	180.70	10,233.1	-3,128.8	479.6	2.90	0.95	2.74	-3.0	11.9
13,274.0	91.10	180.60	10,232.1	-3,222.8	478.5	0.96	0.96	-0.11	-5.2	10.0
13,369.0	87.90	180.30	10,232.9	-3,317.8	477.8	3.38	-3.37	-0.32	-5.5	8.4
13,463.0	88.40	180.10	10,235.9	-3,411.7	477.4	0.57	0.53	-0.21	-3.5	7.3
13,558.0	88.30	179.70	10,238.7	-3,506.7	477.6	0.43	-0.11	-0.42	-1.9	6.6
13,652.0	88.80	179.40	10,241.0	-3,600.7	478.4	0.62	0.53	-0.32	-0.6	6.5
13,747.0	88.30	178.90	10,243.4	-3,695.6	479.8	0.74	-0.53	-0.53	0.7	7.1



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13,842.0	89.00	178.20	10,245.7	-3,790.6	482.2	1.04	0.74	-0.74	1.7	8.7	
13,936.0	90.30	180.10	10,246.2	-3,884.5	483.6	2.45	1.38	2.02	1.0	9.3	
14,031.0	92.30	180.40	10,244.1	-3,979.5	483.1	2.13	2.11	0.32	-2.4	8.0	
14,125.0	90.60	179.80	10,241.7	-4,073.5	483.0	1.92	-1.81	-0.64	-6.1	7.0	
14,220.0	89.80	179.00	10,241.4	-4,168.5	484.0	1.19	-0.84	-0.84	-7.7	7.2	
14,314.0	90.70	179.30	10,241.0	-4,262.5	485.4	1.01	0.96	0.32	-9.3	7.8	
14,409.0	90.50	180.30	10,240.0	-4,357.5	485.7	1.07	-0.21	1.05	-11.6	7.3	
14,504.0	88.90	180.40	10,240.5	-4,452.4	485.1	1.69	-1.68	0.11	-12.3	5.9	
14,599.0	88.70	180.00	10,242.5	-4,547.4	484.8	0.47	-0.21	-0.42	-11.6	4.7	
14,693.0	88.00	179.30	10,245.2	-4,641.4	485.4	1.05	-0.74	-0.74	-10.2	4.4	
14,787.0	84.10	177.50	10,251.6	-4,735.1	488.0	4.57	-4.15	-1.91	-5.0	6.2	
14,882.0	85.20	178.30	10,280.5	-4,829.6	481.4	1.43	1.16	0.84	2.8	8.9	
14,977.0	87.20	179.90	10,266.8	-4,924.4	492.9	2.69	2.11	1.68	7.7	9.5	
15,071.0	87.40	179.30	10,271.2	-5,018.3	493.6	0.67	0.21	-0.64	10.9	9.4	
15,166.0	90.60	179.60	10,272.9	-5,113.3	494.5	3.38	3.37	0.32	11.2	9.5	
15,260.0	89.10	181.40	10,273.1	-5,207.2	493.7	2.49	-1.60	1.91	10.2	7.8	
15,354.0	88.30	180.60	10,275.3	-5,301.2	492.0	1.20	-0.85	-0.85	11.1	5.3	
15,449.0	88.70	180.90	10,277.7	-5,396.2	490.8	0.53	0.42	0.32	12.3	3.3	
15,543.0	89.60	181.00	10,279.1	-5,490.1	489.2	0.96	0.96	0.11	12.5	0.9	
15,637.0	90.20	181.20	10,279.3	-5,584.1	487.4	0.67	0.64	0.21	11.4	-1.7	
15,732.0	90.60	180.80	10,278.6	-5,679.1	485.8	0.60	0.42	-0.42	9.5	-4.2	
15,827.0	91.60	181.60	10,276.8	-5,774.1	483.8	1.35	1.05	0.84	6.4	-7.0	
15,921.0	90.50	179.10	10,275.1	-5,868.0	483.2	2.91	-1.17	-2.66	3.4	-8.4	
16,016.0	88.40	178.00	10,276.0	-5,963.0	485.6	2.50	-2.21	-1.18	3.1	-6.9	
16,110.0	88.10	178.10	10,278.9	-6,056.9	488.8	0.34	-0.32	0.11	4.7	-4.5	
16,205.0	88.80	178.20	10,281.4	-6,151.8	491.9	0.74	0.74	0.11	6.0	-2.2	
16,300.0	87.80	178.10	10,284.3	-6,246.7	494.9	1.06	-1.05	-0.11	7.5	0.0	



Midland PVA



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Stonewall 28 Fed Com
Well: #302H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #302H
TVD Reference: KB = 25 @ 3525.0usft
MD Reference: KB = 25 @ 3525.0usft
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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
16,394.0	88.60	178.00	10,287.2	-6,340.6	498.1	0.88	0.85	-0.11	9.2	2.4	
16,513.0	91.00	180.80	10,287.6	-6,459.6	499.4	3.10	2.02	2.35	8.0	2.6	
16,608.0	91.20	178.20	10,285.8	-6,554.6	500.2	2.74	0.21	-2.74	5.0	2.6	
16,702.0	89.40	176.10	10,285.3	-6,648.4	504.9	2.94	-1.91	-2.23	3.2	6.4	
16,797.0	87.30	175.30	10,288.1	-6,743.1	512.0	2.37	-2.21	-0.84	4.7	12.7	
16,891.0	84.80	176.20	10,294.5	-6,836.6	519.0	2.83	-2.66	0.96	9.8	18.9	
16,986.0	82.90	179.30	10,304.7	-6,931.0	522.7	3.81	-2.00	3.26	18.8	21.8	
17,080.0	84.20	184.30	10,315.3	-7,024.3	519.7	5.46	1.38	5.32	28.2	17.9	
17,121.0	85.90	187.00	10,318.8	-7,065.0	515.7	7.76	4.15	6.59	31.2	13.4	
17,174.0	88.10	189.00	10,321.6	-7,117.4	508.3	5.61	4.15	3.77	33.3	5.6	
17,269.0	95.00	191.60	10,319.0	-7,210.7	491.4	7.76	7.26	2.74	29.5	-11.8	
17,363.0	103.50	188.40	10,303.9	-7,302.0	475.3	9.65	9.04	-3.40	13.8	-28.6	
17,399.0	100.40	184.90	10,296.5	-7,337.0	471.2	12.83	-8.61	-9.72	5.7	-33.2	
17,458.0	96.40	181.80	10,287.8	-7,395.2	467.8	8.54	-6.78	-5.25	-4.0	-37.2	
17,489.0	93.50	180.40	10,285.2	-7,426.1	467.2	10.38	-9.35	-4.52	-7.2	-38.1	
17,552.0	88.40	179.20	10,284.1	-7,489.1	467.4	8.32	-8.10	-1.90	-9.2	-38.4	
17,572.0	86.70	178.70	10,285.0	-7,509.0	467.8	8.86	-8.50	-2.50	-8.6	-38.2	
17,647.0	86.10	178.70	10,289.7	-7,583.9	469.5	0.80	-0.80	0.00	-4.8	-37.2	
17,741.0	86.00	178.20	10,296.2	-7,677.6	472.0	0.54	-0.11	-0.53	0.4	-35.5	
17,836.0	85.70	178.20	10,303.0	-7,772.3	475.0	0.32	-0.32	0.00	6.0	-33.3	
17,931.0	87.70	177.40	10,308.5	-7,867.1	478.6	2.27	2.11	-0.84	10.2	-30.5	
18,025.0	86.80	176.80	10,313.0	-7,960.9	483.4	1.15	-0.96	-0.64	13.5	-26.5	
18,120.0	86.40	176.00	10,318.7	-8,055.5	489.3	0.94	-0.42	-0.84	17.8	-21.4	
18,215.0	87.30	175.20	10,323.9	-8,150.1	496.6	1.27	0.95	-0.84	21.8	-14.9	
18,309.0	89.20	177.40	10,326.7	-8,243.8	502.7	3.09	2.02	2.34	23.5	-9.7	
18,404.0	89.80	177.90	10,327.6	-8,338.7	506.6	0.82	0.63	0.53	23.6	-6.7	
18,498.0	89.80	177.80	10,327.9	-8,432.7	510.1	0.11	0.00	-0.11	23.2	-4.0	



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #302H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3525.0usft
Site:	Stonewall 28 Fed Com	MD Reference:	KB = 25 @ 3525.0usft
Well:	#302H	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)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,593.0	88.80	177.30	10,329.1	-8,527.6	514.2	1.18	-1.05	-0.53	23.6	-0.7
18,687.0	90.20	177.90	10,329.9	-8,621.5	518.1	1.62	1.49	0.64	23.7	2.4
18,781.0	90.70	178.30	10,329.1	-8,715.4	521.2	0.68	0.53	0.43	22.2	4.7
18,876.0	91.60	178.90	10,327.2	-8,810.4	523.5	1.14	0.95	0.63	19.5	6.2
18,970.0	90.60	180.20	10,325.4	-8,904.4	524.3	1.74	-1.06	1.38	17.0	6.1
19,064.0	90.50	180.10	10,324.5	-8,998.4	524.0	0.15	-0.11	-0.11	15.4	5.0
19,158.0	91.00	179.80	10,323.3	-9,092.4	524.1	0.62	0.53	-0.32	13.4	4.3
19,253.0	89.50	180.80	10,322.9	-9,187.3	523.6	1.90	-1.58	1.05	12.2	2.9
19,347.0	88.80	180.50	10,324.3	-9,281.3	522.5	0.81	-0.74	-0.32	12.9	1.0
19,441.0	88.40	180.20	10,326.6	-9,375.3	522.0	0.53	-0.43	-0.32	14.5	-0.4
19,536.0	91.00	180.60	10,327.1	-9,470.3	521.3	2.77	2.74	0.42	14.2	-1.9
19,630.0	90.60	180.90	10,325.8	-9,564.3	520.1	0.53	-0.43	0.32	12.2	-3.9
19,724.0	90.50	180.20	10,324.9	-9,658.3	519.2	0.75	-0.11	-0.74	10.5	-5.6
19,818.0	90.20	179.80	10,324.3	-9,752.3	519.2	0.53	-0.32	-0.43	9.2	-6.4
19,912.0	89.60	179.60	10,324.4	-9,846.3	519.7	0.67	-0.64	-0.21	8.6	-6.8
20,006.0	90.60	178.90	10,324.3	-9,940.2	520.9	1.30	1.06	-0.74	7.7	-6.4
20,100.0	90.80	178.60	10,323.1	-10,034.2	522.9	0.38	0.21	-0.32	5.9	-5.1
20,194.0	90.60	178.50	10,322.0	-10,128.2	525.3	0.24	-0.21	-0.11	4.0	-3.6
20,250.0	90.60	178.30	10,321.4	-10,184.2	526.9	0.36	0.00	-0.36	2.9	-2.5
Last MWD Survey (MD = 20250.0)										
20,310.0	90.60	178.30	10,320.8	-10,244.1	528.7	0.00	0.00	0.00	1.9	-1.3
Projection to Bit (MD = 20310.0)										



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #302H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3525.0usft
Site:	Stonewall 28' Fed Com	MD Reference:	KB = 25 @ 3525.0usft
Well:	#302H	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)	
9,840.4	9,799.7	102.8	447.0	FTP Crossing 9840.4' MD; 9799.7' TVD; 102.8'; 447.0'; 40.43
20,250.0	10,321.4	-10,184.2	526.9	Last MWD Survey (MD = 20250.0)
20,310.0	10,320.8	-10,244.1	528.7	Projection to Bit (MD = 20310.0)

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

Stonewall 28 Fed Com #302H

Plan #1



To convert a Magnetic Direction to a Grid Direction, Add 6.39°
To convert a Magnetic Direction to a True Direction, Add 6.85° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

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

WELL DETAILS: #302H

KB = 25 @ 3525.0usft 3500.0
Northing 435811.00 Easting 804905.00 Latitude 32° 11' 42.904 N Longitude 103° 28' 52.629 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target
1	1109.0	0.40	185.01	1109.0	-3.8	-0.7	0.00	0.00	3.8	
2	1209.0	0.40	185.01	1209.0	-4.5	-0.8	0.00	0.00	4.5	
3	1428.5	4.21	70.21	1428.3	-2.6	6.7	2.00	-119.54	2.9	
4	7585.6	4.21	70.21	7586.8	150.4	431.7	0.00	0.00	-127.9	
5	7796.0	0.00	0.00	7779.0	153.0	439.0	2.00	180.00	-130.1	
6	9648.0	0.00	0.00	9631.0	153.0	439.0	0.00	0.00	-130.1	
7	10543.1	89.51	179.50	10203.9	-415.0	444.0	10.00	179.50	437.4	
8	11596.7	89.51	179.50	10213.0	-1468.6	453.2	0.00	0.00	1490.0	TGT #1(SW 28 FC #302H)
9	11625.9	88.92	179.50	10213.4	-1497.7	453.4	2.00	-180.00	1519.2	
10	12137.2	88.92	179.50	10223.0	-2009.0	457.9	0.00	0.00	2030.0	TGT #2(SW 28 FC #302H)
11	12157.6	89.33	179.50	10223.3	-2029.3	458.1	2.00	0.00	2050.3	
12	13843.9	89.33	179.50	10243.0	-3715.5	472.8	0.00	0.00	3735.0	TGT #3(SW 28 FC #302H)
13	13848.7	89.24	179.50	10243.1	-3720.2	472.9	2.00	180.00	3739.7	
14	18344.5	89.24	179.50	10303.0	-8215.5	512.2	0.00	0.00	8231.0	TGT #4(SW 28 FC #302H)
15	18380.3	89.55	179.50	10303.2	-8231.3	512.3	2.00	0.00	8246.7	
16	20383.1	89.55	179.50	10319.0	-10254.0	530.0	0.00	0.00	10267.7	PBHL(SW 28 FC #302H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP(SW 28 FC #302H)	10200.0	109.0	439.0	435914.00	805344.00
TGT #1(SW 28 FC #302H)	10213.0	-1468.6	453.2	434342.40	805338.18
TGT #2(SW 28 FC #302H)	10223.0	-2009.0	457.9	433802.00	805362.90
TGT #3(SW 28 FC #302H)	10243.0	-3716.5	472.8	432985.50	805377.83
TGT #4(SW 28 FC #302H)	10303.0	-8216.5	512.2	427686.50	805411.10
PBHL(SW 28 FC #302H)	10319.0	-10254.0	530.0	425957.00	805435.00

