



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Date 14 State Com

#303H

OH

Design: OH

Midland PVA

05 November, 2019

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #303H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3816.0usft
Site:	Date 14 State Com	MD Reference:	KB = 25' @ 3816.0usft
Well:	#303H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project	Lea County, NM (NAD 83 NME)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Date 14 State Com		
Site Position:			
From:	Map	Northing: 536,428.00 usft	Latitude: 32° 28' 19.914 N
Position Uncertainty:	0.0 usft	Easting: 786,265.00 usft	Longitude: 103° 32' 20.860 W
		Slot Radius: 13-3/16 "	Grid Convergence: 0.43 °

Well	#303H		
Well Position			
+N/-S	0.0 usft	Northing: 536,430.00 usft	Latitude: 32° 28' 19.936 N
+E/-W	0.0 usft	Easting: 786,232.00 usft	Longitude: 103° 32' 21.245 W
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level: 3,791.0 usft

Wellbore	OH		
Magnetics			
Model Name	IGRF2015	Sample Date	10/5/2019
		Declination (°)	6.71
		Dip Angle (°)	60.26
		Field Strength (nT)	47,848.57449649

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:			
		Depth From (TVD) (usft)	+N/-S (usft)
		0.0	0.0
		+E/-W (usft)	Direction (°)
		0.0	5.54

Survey Program	Date	11/5/2019	
From (usft)	To (usft)	Survey (Wellbore)	Description
153.0	20,459.0	HTMWMD (OH)	OWSG MWD - Standard
		MWD	

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Survey										
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0.0	0.00	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	0.0
153.0	0.92	224.95	153.0	-0.9	-0.9	0.60	0.60	0.00	-1.2	0.0
240.0	0.88	213.97	240.0	-1.9	-1.7	0.20	-0.05	-12.62	-2.6	-0.4
416.0	0.53	210.01	416.0	-3.7	-2.9	0.20	-0.20	-2.25	-4.7	-0.6
590.0	0.26	292.10	590.0	-4.3	-3.7	0.32	-0.16	47.18	-1.8	5.4
780.0	0.40	7.51	780.0	-3.5	-4.0	0.22	0.07	39.69	4.0	3.5
967.0	0.13	283.40	967.0	-2.8	-4.1	0.22	-0.14	-44.98	-3.3	3.7
1,154.0	0.35	314.69	1,154.0	-2.3	-4.7	0.13	0.12	16.73	-1.7	5.0
1,341.0	0.53	318.64	1,341.0	-1.3	-5.7	0.10	0.10	2.11	-2.8	5.1
1,528.0	1.01	312.49	1,527.9	0.5	-7.5	0.26	0.26	-3.29	-5.8	4.7
1,715.0	1.63	299.04	1,714.9	2.9	-11.0	0.37	0.33	-7.19	-11.0	2.8
1,902.0	2.02	285.95	1,901.8	5.1	-16.5	0.30	0.21	-7.00	-17.3	-0.4
1,961.0	2.11	281.82	1,960.8	5.6	-18.6	0.29	0.15	-7.00	-19.3	-1.7
2,105.0	0.88	287.27	2,104.7	6.5	-22.2	0.86	-0.85	3.78	-23.7	0.5
2,292.0	1.58	77.65	2,291.7	7.4	-21.1	1.28	0.37	80.42	28.4	15.5
2,479.0	4.35	80.46	2,478.4	9.2	-11.6	1.48	1.48	1.50	39.9	21.3
2,667.0	6.68	77.03	2,665.5	12.8	6.1	1.25	1.24	-1.82	51.8	35.9
2,854.0	13.45	88.99	2,849.6	15.6	38.5	3.77	3.62	6.40	69.3	34.8
3,041.0	15.47	88.99	3,030.6	16.5	85.2	1.08	1.08	0.00	67.8	43.2
3,226.0	17.27	99.18	3,208.2	12.5	137.0	1.83	0.97	5.51	67.7	35.7
3,412.0	17.10	103.14	3,385.9	1.9	190.9	0.64	-0.09	2.13	60.4	30.2
3,600.0	15.74	102.26	3,566.2	-9.8	242.7	0.74	-0.72	-0.47	52.7	28.5
3,787.0	15.21	101.03	3,746.4	-19.9	291.6	0.33	-0.28	-0.66	48.1	27.9
3,974.0	14.95	101.47	3,927.0	-29.4	339.3	0.15	-0.14	0.24	45.5	26.3
4,161.0	16.04	101.20	4,107.2	-39.2	388.3	0.58	0.58	-0.14	41.3	25.1
4,347.0	16.00	100.59	4,286.0	-48.9	438.7	0.09	-0.02	-0.33	35.2	24.4
4,535.0	16.70	99.27	4,466.3	-58.0	490.8	0.42	0.37	-0.70	27.8	24.9

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4,723.0	15.52	99.18	4,647.0	-66.4	542.3	0.63	-0.63	-0.05	21.6	25.2	
4,910.0	15.69	101.03	4,827.1	-75.2	591.8	0.28	0.09	0.99	17.9	24.2	
5,097.0	14.46	102.61	5,007.6	-85.1	639.4	0.69	-0.66	0.84	15.8	22.0	
5,239.0	13.49	103.57	5,145.4	-92.9	672.8	0.70	-0.68	0.68	16.7	19.6	
5,434.0	16.62	105.77	5,333.7	-105.8	721.8	1.63	1.61	1.13	14.4	14.8	
5,622.0	15.69	105.16	5,514.3	-119.8	772.2	0.50	-0.49	-0.32	7.8	10.1	
5,809.0	14.55	102.52	5,694.8	-131.5	819.5	0.71	-0.61	-1.41	4.4	7.0	
5,996.0	15.65	103.22	5,875.4	-142.3	867.0	0.60	0.59	0.37	1.6	4.3	
6,183.0	15.69	105.07	6,055.4	-154.7	916.0	0.27	0.02	0.99	-3.1	0.7	
6,370.0	15.52	105.33	6,235.5	-167.9	964.5	0.10	-0.09	0.14	-7.8	-3.8	
6,557.0	11.12	94.79	6,417.5	-176.0	1,006.7	2.68	-2.35	-5.64	-4.5	-5.9	
6,744.0	9.49	89.78	6,601.4	-177.4	1,040.0	0.99	-0.87	-2.68	-1.8	-1.7	
6,931.0	5.27	106.83	6,786.9	-179.9	1,063.7	2.52	-2.26	9.12	-1.7	0.4	
7,118.0	1.54	84.41	6,973.5	-182.1	1,074.4	2.08	-1.99	-11.99	-0.7	-0.4	
7,206.5	1.28	89.26	7,062.0	-182.0	1,076.6	0.32	-0.29	5.48	-1.6	0.0	
Brushy Top(Date 14 State Com #303H)											
7,305.0	1.01	97.51	7,160.5	-182.1	1,078.6	0.32	-0.28	8.37	-3.5	0.4	
7,493.0	1.19	120.63	7,348.4	-183.3	1,081.9	0.25	0.10	12.30	-6.6	2.4	
7,680.0	1.32	140.84	7,535.4	-185.9	1,084.9	0.25	0.07	10.81	-9.3	5.2	
7,866.0	1.27	154.46	7,721.3	-189.5	1,087.2	0.17	-0.03	7.32	-12.0	7.7	
8,055.0	1.32	165.54	7,910.3	-193.5	1,088.6	0.13	0.03	5.86	-14.5	10.3	
8,242.0	0.84	183.47	8,097.3	-196.9	1,089.1	0.31	-0.26	9.59	-14.0	14.9	
8,429.0	1.01	175.12	8,284.2	-199.9	1,089.1	0.12	0.09	-4.47	-19.1	12.5	
8,616.0	0.66	199.64	8,471.2	-202.6	1,088.9	0.26	-0.19	13.11	-14.7	20.0	
8,803.0	0.97	203.95	8,658.2	-205.0	1,087.9	0.17	0.17	2.30	-15.8	21.1	
8,990.0	1.10	228.64	8,845.2	-207.7	1,085.9	0.25	0.07	13.20	-8.8	26.5	
9,177.0	2.02	4.52	9,032.1	-205.6	1,084.8	1.56	0.49	72.66	22.7	-11.6	

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	9,364.0	1.80	1.27	9,219.0	-199.4	1,085.1	0.13	-0.12	-1.74	17.1	-10.5
	9,552.0	0.79	347.74	9,407.0	-195.1	1,084.9	0.56	-0.54	-7.20	14.9	-6.9
	9,638.0	0.75	346.68	9,493.0	-194.0	1,084.7	0.05	-0.05	-1.23	13.9	-6.6
	9,700.0	5.09	2.25	9,554.9	-190.9	1,084.7	7.05	7.00	25.12	8.5	-10.0
	KOP, MD:9700.0', TVD:9554.9', N/S:-190.9', EW:1084.7', INC:5.09										
	9,770.0	10.02	3.56	9,624.3	-181.7	1,085.2	7.05	7.05	1.87	1.6	-10.3
	9,864.0	17.27	2.94	9,715.5	-159.6	1,086.4	7.71	7.71	-0.66	-4.2	-11.4
	9,946.3	21.89	358.59	9,793.1	-132.0	1,086.7	5.88	5.61	-5.29	-4.3	-12.1
	FTP Crossing, MD:9946.3', TVD:9793.1', N/S:-132.0', EW:1086.7', INC:21.89										
	9,958.0	22.55	358.11	9,803.9	-127.6	1,086.5	5.88	5.67	-4.09	-3.9	-12.1
	10,052.0	27.74	4.26	9,889.0	-87.7	1,087.6	6.17	5.52	6.54	1.1	-13.4
	10,146.0	35.08	357.05	9,969.2	-38.8	1,087.8	8.76	7.81	-7.67	13.8	-13.6
	10,216.1	45.55	356.29	10,022.5	6.3	1,085.1	14.95	14.94	-1.09	21.0	-10.9
	FTP(Date 14 State Com #303H)										
	10,241.0	49.27	356.08	10,039.4	24.7	1,083.9	14.95	14.94	-0.83	22.5	-9.7
	10,335.0	63.96	358.02	10,091.0	102.8	1,080.0	15.72	15.63	2.06	22.1	-7.0
	10,428.0	70.11	358.02	10,127.2	188.4	1,077.0	6.61	6.61	0.00	19.6	-4.8
	10,490.0	79.56	359.16	10,143.5	248.1	1,075.6	15.34	15.24	1.84	17.5	-4.0
	10,530.0	86.47	358.58	10,148.3	287.8	1,074.8	17.33	17.27	-1.45	14.0	-3.6
	10,626.0	86.97	357.93	10,153.8	383.6	1,071.9	0.85	0.52	-0.68	10.4	-1.4
	10,721.0	88.65	357.73	10,157.4	478.4	1,068.3	1.78	1.77	-0.21	14.6	1.4
	10,815.0	89.22	357.33	10,159.2	572.3	1,064.2	0.74	0.61	-0.43	17.0	4.7
	10,909.0	89.78	358.88	10,160.0	666.3	1,061.1	1.75	0.60	1.65	18.5	7.0
	11,002.0	89.27	359.37	10,160.8	759.3	1,059.7	0.76	-0.55	0.53	20.0	7.7
	11,095.0	90.39	359.36	10,161.0	852.3	1,058.7	1.20	1.20	-0.01	21.0	8.0
	11,188.0	89.22	0.31	10,161.4	945.3	1,058.4	1.62	-1.26	1.02	21.9	7.5
	11,281.0	89.05	0.72	10,162.8	1,038.2	1,059.2	0.48	-0.18	0.44	24.0	5.9

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11,374.0	89.61	0.35	10,163.9	1,131.2	1,060.1	0.72	0.60	-0.40	25.8	4.3	
11,468.0	89.94	0.24	10,164.2	1,225.2	1,060.6	0.37	0.35	-0.12	26.9	3.0	
11,561.0	90.11	0.01	10,164.2	1,318.2	1,060.8	0.31	0.18	-0.25	27.5	2.1	
11,655.0	90.39	358.40	10,163.8	1,412.2	1,059.5	1.74	0.30	-1.71	27.8	2.6	
11,748.0	91.12	358.95	10,162.5	1,505.2	1,057.3	0.98	0.78	0.59	27.2	4.0	
11,792.3	91.54	359.06	10,161.5	1,549.5	1,056.6	0.99	0.96	0.26	26.5	4.4	
TGT#1(Date 14 State Com #303H)											
11,842.0	92.02	359.19	10,160.0	1,599.1	1,055.8	0.99	0.96	0.26	25.4	4.8	
11,935.0	90.90	359.57	10,157.6	1,692.1	1,054.8	1.27	-1.20	0.41	23.8	5.0	
12,028.0	91.23	359.67	10,155.9	1,785.1	1,054.2	0.37	0.35	0.11	22.8	4.9	
12,122.0	91.29	0.60	10,153.8	1,879.1	1,054.4	0.99	0.06	0.99	21.5	3.9	
12,214.0	91.85	1.08	10,151.3	1,971.0	1,055.8	0.80	0.61	0.52	19.7	1.8	
12,307.0	90.34	2.60	10,149.5	2,063.9	1,058.7	2.30	-1.62	1.63	18.7	-1.9	
12,400.0	89.83	3.48	10,149.4	2,156.8	1,063.7	1.09	-0.55	0.95	19.3	-7.6	
12,494.0	89.38	3.25	10,150.0	2,250.6	1,069.2	0.54	-0.48	-0.24	20.7	-13.8	
12,587.0	89.66	0.85	10,150.8	2,343.6	1,072.5	2.60	0.30	-2.58	22.3	-17.9	
12,680.0	89.66	357.03	10,151.4	2,436.5	1,070.8	4.11	0.00	-4.11	23.6	-17.0	
12,773.0	90.22	358.53	10,151.5	2,529.5	1,067.2	1.72	0.60	1.61	24.4	-14.1	
12,866.0	91.51	358.41	10,150.0	2,622.4	1,064.7	1.39	1.39	-0.13	23.8	-12.4	
12,960.0	92.47	357.88	10,146.8	2,716.3	1,061.7	1.17	1.02	-0.56	21.3	-10.1	
13,053.0	91.29	358.11	10,143.7	2,809.2	1,058.4	1.29	-1.27	0.25	19.0	-7.6	
13,147.0	91.01	357.78	10,141.8	2,903.1	1,055.1	0.46	-0.30	-0.35	17.9	-5.0	
13,240.0	90.06	358.42	10,141.0	2,996.1	1,052.0	1.23	-1.02	0.69	17.8	-2.7	
13,334.0	90.90	358.17	10,140.2	3,090.0	1,049.2	0.93	0.89	-0.27	17.7	-0.6	
13,427.0	91.85	357.79	10,138.0	3,182.9	1,045.9	1.10	1.02	-0.41	16.3	1.9	
13,521.0	91.85	358.61	10,134.9	3,276.8	1,042.9	0.87	0.00	0.87	14.0	4.1	
13,614.0	90.22	358.59	10,133.2	3,369.8	1,040.7	1.75	-1.75	-0.02	13.1	5.6	

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13,708.0	90.79	358.64	10,132.4	3,463.8	1,038.4	0.61	0.61	0.05	13.0	7.1
13,801.0	91.79	358.32	10,130.3	3,556.7	1,035.9	1.13	1.08	-0.34	11.7	8.8
13,895.0	90.45	358.94	10,128.5	3,650.7	1,033.7	1.57	-1.43	0.66	10.6	10.3
13,989.0	90.22	359.17	10,127.9	3,744.6	1,032.1	0.35	-0.24	0.24	10.8	11.1
14,083.0	89.89	358.96	10,127.8	3,838.6	1,030.6	0.42	-0.35	-0.22	11.5	11.9
14,177.0	90.22	358.73	10,127.8	3,932.6	1,028.7	0.43	0.35	-0.24	12.2	13.0
14,270.0	90.62	359.55	10,127.1	4,025.6	1,027.3	0.98	0.43	0.88	12.2	13.7
14,364.0	90.56	359.60	10,126.1	4,119.6	1,026.6	0.08	-0.06	0.05	12.0	13.6
14,457.0	90.84	359.94	10,125.0	4,212.6	1,026.2	0.47	0.30	0.37	11.7	13.2
14,551.0	89.89	359.94	10,124.4	4,306.6	1,026.1	1.01	-1.01	0.00	11.8	12.6
14,644.0	91.79	0.62	10,123.0	4,399.6	1,026.6	2.17	2.04	0.73	11.2	11.4
14,738.0	90.39	1.60	10,121.2	4,493.5	1,028.4	1.82	-1.49	1.04	10.2	8.8
14,830.0	88.43	0.57	10,122.2	4,585.5	1,030.2	2.41	-2.13	-1.12	11.9	6.3
14,924.0	88.54	0.23	10,124.6	4,679.5	1,030.8	0.38	0.12	-0.36	15.1	4.9
15,018.0	89.22	359.56	10,126.5	4,773.4	1,030.6	1.02	0.72	-0.71	17.7	4.3
15,111.0	90.56	359.48	10,126.7	4,866.4	1,029.9	1.44	1.44	-0.09	18.7	4.3
15,205.0	91.63	0.06	10,124.9	4,960.4	1,029.5	1.29	1.14	0.62	17.6	3.9
15,298.0	89.89	358.79	10,123.6	5,053.4	1,028.6	2.32	-1.87	-1.37	17.2	4.1
15,393.0	90.22	358.21	10,123.5	5,148.4	1,026.1	0.70	0.35	-0.61	17.9	5.8
15,477.5	90.48	359.16	10,123.0	5,232.9	1,024.1	1.16	0.30	1.12	18.0	7.1
TGT#2(Date 14 State Com #303H)										
15,485.0	90.50	359.24	10,123.0	5,240.3	1,024.0	1.16	0.30	1.12	18.0	7.1
15,579.0	91.46	2.50	10,121.4	5,334.3	1,025.5	3.61	1.02	3.47	17.1	5.0
15,672.0	90.28	3.60	10,119.9	5,427.2	1,030.4	1.73	-1.27	1.18	16.4	-0.7
15,765.0	90.90	5.02	10,119.0	5,519.9	1,037.4	1.67	0.67	1.53	16.2	-8.4
15,859.0	89.83	4.05	10,118.4	5,613.6	1,044.8	1.54	-1.14	-1.03	16.4	-16.6
15,953.0	88.82	3.45	10,119.5	5,707.4	1,051.0	1.25	-1.07	-0.64	18.2	-23.6

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Date 14 State Com
Well: #303H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3816.0usft
MD Reference: KB = 25' @ 3816.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #303H
 KB = 25' @ 3816.0usft
 KB = 25' @ 3816.0usft
 Grid
 Minimum Curvature
 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)
16,046.0	89.83	2.10	10,120.6	5,800.3	1,055.5	1.81	1.09	-1.45	20.0	-28.8
16,140.0	89.61	1.77	10,121.1	5,894.2	1,058.6	0.42	-0.23	-0.35	21.2	-32.7
16,234.0	87.70	359.96	10,123.3	5,988.2	1,060.1	2.80	-2.03	-1.93	24.1	-34.9
16,329.0	89.78	358.98	10,125.3	6,083.1	1,059.2	2.42	2.19	-1.03	26.9	-34.8
16,422.0	91.01	358.73	10,124.7	6,176.1	1,057.3	1.35	1.32	-0.27	27.0	-33.7
16,515.0	92.30	358.69	10,122.0	6,269.0	1,055.2	1.39	1.39	-0.04	25.0	-32.4
16,609.0	93.75	358.13	10,117.1	6,362.9	1,052.6	1.65	1.54	-0.60	20.7	-30.6
16,703.0	92.63	357.90	10,111.8	6,456.7	1,049.4	1.22	-1.19	-0.24	16.3	-28.1
16,798.0	92.36	357.83	10,107.7	6,551.5	1,045.8	0.29	-0.28	-0.07	12.9	-25.3
16,891.0	91.74	357.74	10,104.4	6,644.4	1,042.2	0.67	-0.67	-0.10	10.3	-22.4
16,986.0	89.72	358.05	10,103.2	6,739.3	1,038.8	2.15	-2.13	0.33	9.8	-19.7
17,078.0	90.84	358.44	10,102.7	6,831.3	1,035.9	1.29	1.22	0.42	10.1	-17.6
17,173.0	89.10	359.01	10,102.8	6,926.2	1,033.8	1.93	-1.83	0.60	10.9	-16.3
17,266.0	88.65	358.81	10,104.6	7,019.2	1,032.1	0.53	-0.48	-0.22	13.4	-15.3
17,360.0	90.17	358.70	10,105.6	7,113.2	1,030.0	1.62	1.62	-0.12	15.1	-14.0
17,454.0	90.62	358.32	10,104.9	7,207.1	1,027.6	0.63	0.48	-0.40	15.2	-12.3
17,548.0	89.89	359.45	10,104.5	7,301.1	1,025.7	1.43	-0.78	1.20	15.5	-11.2
17,641.0	90.73	359.05	10,104.0	7,394.1	1,024.5	1.00	0.90	-0.43	15.7	-10.8
17,735.0	88.43	359.74	10,104.7	7,488.1	1,023.5	2.55	-2.45	0.73	17.1	-10.5
17,828.0	89.72	0.28	10,106.2	7,581.1	1,023.6	1.50	1.39	0.58	19.3	-11.3
17,922.0	90.06	359.99	10,106.4	7,675.1	1,023.8	0.48	0.36	-0.31	20.2	-12.3
18,015.0	91.52	0.12	10,105.1	7,768.1	1,023.9	1.58	1.57	0.14	19.7	-13.1
18,065.1	90.61	0.50	10,104.1	7,818.1	1,024.1	1.97	-1.82	0.75	19.1	-13.8
TGT#3(Date 14 State Com #303H)										
18,108.0	89.83	0.82	10,104.0	7,861.0	1,024.6	1.97	-1.82	0.75	19.3	-14.6
18,201.0	90.90	0.86	10,103.4	7,954.0	1,026.0	1.15	1.15	0.04	19.3	-16.7
18,294.0	90.95	0.14	10,101.9	8,047.0	1,026.8	0.78	0.05	-0.77	18.4	-18.3

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Date 14 State Com
Well: #303H
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Design: OH

Local Co-ordinate Reference:
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MD Reference: KB = 25' @ 3816.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #303H
 KB = 25' @ 3816.0usft
 KB = 25' @ 3816.0usft
 Grid
 Minimum Curvature
 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)
18,388.0	90.06	359.97	10,101.1	8,141.0	1,026.9	0.96	-0.95	-0.18	18.2	-19.2
18,482.0	90.00	359.75	10,101.0	8,235.0	1,026.7	0.24	-0.06	-0.23	18.8	-19.7
18,575.0	89.49	0.48	10,101.4	8,328.0	1,026.8	0.96	-0.55	0.78	19.8	-20.6
18,668.0	89.61	0.56	10,102.1	8,421.0	1,027.7	0.16	0.13	0.09	21.2	-22.2
18,762.0	90.56	359.43	10,102.0	8,515.0	1,027.7	1.57	1.01	-1.20	21.7	-23.0
18,855.0	91.01	358.95	10,100.7	8,608.0	1,026.4	0.71	0.48	-0.52	21.0	-22.4
18,949.0	92.24	359.09	10,098.1	8,701.9	1,024.8	1.32	1.31	0.15	19.0	-21.6
19,043.0	91.74	358.53	10,094.8	8,795.8	1,022.8	0.80	-0.53	-0.60	16.3	-20.4
19,137.0	91.91	358.41	10,091.8	8,889.8	1,020.3	0.22	0.18	-0.13	14.0	-18.6
19,231.0	91.01	357.08	10,089.4	8,983.7	1,016.6	1.71	-0.96	-1.41	12.2	-15.7
19,325.0	89.49	356.94	10,089.0	9,077.5	1,011.7	1.62	-1.62	-0.15	12.4	-11.5
19,418.0	89.16	356.17	10,090.1	9,170.4	1,006.1	0.90	-0.35	-0.83	14.1	-6.7
19,512.0	90.95	358.12	10,090.0	9,264.2	1,001.4	2.82	1.90	2.07	14.7	-2.8
19,605.0	90.62	358.77	10,088.7	9,357.2	998.9	0.78	-0.35	0.70	14.0	-1.0
19,699.0	91.18	358.55	10,087.3	9,451.1	996.7	0.64	0.60	-0.23	13.2	0.4
19,793.0	91.23	358.50	10,085.3	9,545.1	994.3	0.08	0.05	-0.05	11.8	2.1
19,887.0	91.68	358.56	10,082.9	9,639.0	991.9	0.48	0.48	0.06	10.1	3.7
19,980.0	89.94	359.52	10,081.6	9,732.0	990.3	2.14	-1.87	1.03	9.4	4.5
20,073.0	90.06	359.36	10,081.6	9,825.0	989.4	0.22	0.13	-0.17	10.0	4.7
20,167.0	90.00	359.48	10,081.5	9,919.0	988.5	0.14	-0.06	0.13	10.6	4.9
20,261.0	91.63	359.31	10,080.2	10,013.0	987.5	1.74	1.73	-0.18	9.9	5.1
20,354.0	93.09	359.36	10,076.4	10,105.9	986.4	1.57	1.57	0.05	6.7	5.5
20,375.0	93.48	359.37	10,075.2	10,126.9	986.2	1.86	1.86	0.05	5.6	5.5
Last MWD Survey (MD=20375.0')										
20,459.0	93.48	359.37	10,070.1	10,210.7	985.2	0.00	0.00	0.00	1.1	5.8
Projection to Bit (MD=20459.0') - PBHL(Date 14 State Com #303H)										



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Date 14 State Com Well: #303H Wellbore: OH Design: OH	Local Co-ordinate Reference: TVD Reference: KB = 25' @ 3816.0usft MD Reference: KB = 25' @ 3816.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14	Well #303H KB = 25' @ 3816.0usft KB = 25' @ 3816.0usft Grid Minimum Curvature EDM 5000.14
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Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
9,700.0	9,554.9	-190.9	1,084.7	KOP, MD:9700.0', TVD:9554.9', N/S:-190.9', E/W:1084.7', INC:5.09
9,946.3	9,793.1	-132.0	1,086.7	FTP Crossing, MD:9946.3', TVD:9793.1', N/S:-132.0', E/W:1086.7', INC:21.89
20,375.0	10,075.2	10,126.9	986.2	Last MWD Survey (MD=20375.0')
20,459.0	10,070.1	10,210.7	985.2	Projection to Bit (MD=20459.0')

Checked By: _____	Approved By: _____	Date: _____
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