



Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #705H

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

WELL DETAILS: #705H

KB = 25' @ 3482.0usft
Northing 428115.00 Easting 795232.00 Latitude 32° 10' 7.704 N Longitude 103° 30' 45.821 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	5089.0	6.78	165.09	5065.8	-366.9	78.0	0.00	0.00	-357.7	
2	5189.0	6.78	165.09	5165.1	-378.3	81.1	0.00	0.00	-368.7	
3	5731.3	13.17	109.63	5700.0	-430.2	147.7	2.00	-85.94	-413.9	
4	8612.3	13.17	109.63	8505.2	-650.7	766.0	0.00	0.00	-573.6	
5	9270.9	0.00	0.00	9158.0	-676.0	837.0	2.00	180.00	-591.9	
6	12030.6	0.00	0.00	11917.7	-676.0	837.0	0.00	0.00	-591.9	
7	12788.0	90.89	351.28	12395.1	-196.7	763.5	12.00	351.28	-122.0	
8	13063.9	90.89	359.56	12390.8	78.0	741.5	3.00	89.95	149.4	
9	14924.9	90.89	359.56	12362.0	1938.8	727.1	0.00	0.00	2000.0	
10	14943.3	91.26	359.56	12361.7	1957.2	727.0	2.00	0.98	2018.3	TGT#1(Diamond 31 Fed Com #705H)
11	16936.4	91.26	359.56	12318.0	3949.7	711.9	0.00	0.00	4000.0	TGT#2(Diamond 31 Fed Com #705H)
12	16937.9	91.22	359.56	12318.0	3951.2	711.8	2.00	-179.95	4001.5	
13	18947.8	91.22	359.56	12275.0	5960.6	696.6	0.00	0.00	6000.0	TGT#3(Diamond 31 Fed Com #705H)
14	18981.7	91.90	359.56	12274.1	5994.5	696.3	2.00	-0.33	6033.7	
15	20067.8	91.90	359.56	12238.0	7080.0	688.0	0.00	0.00	7113.3	PBHL (Diamond 31 Fed Com #705H)

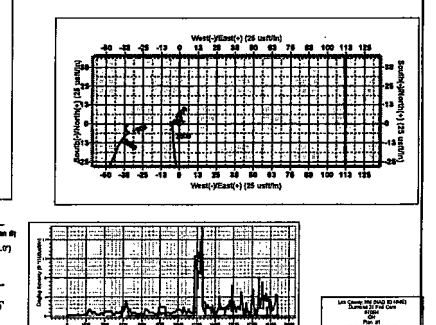
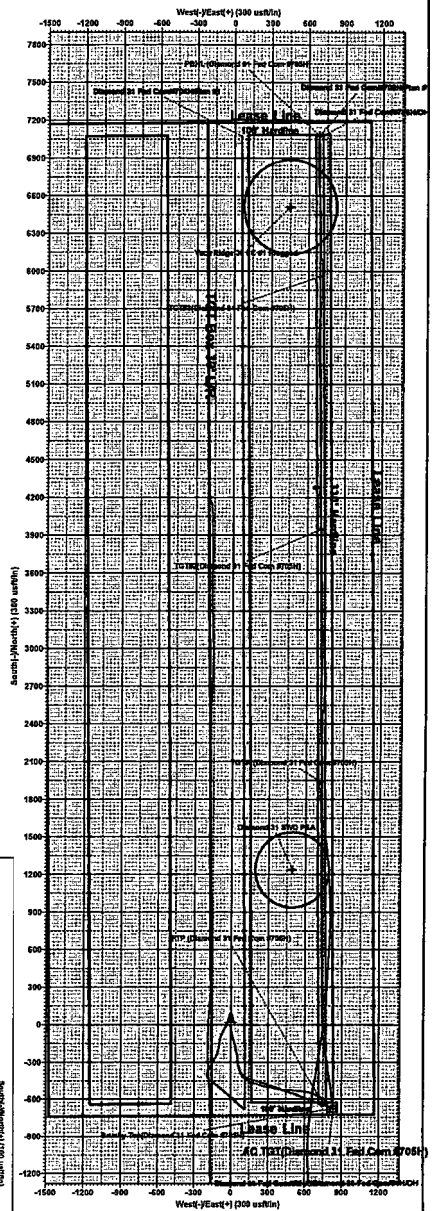
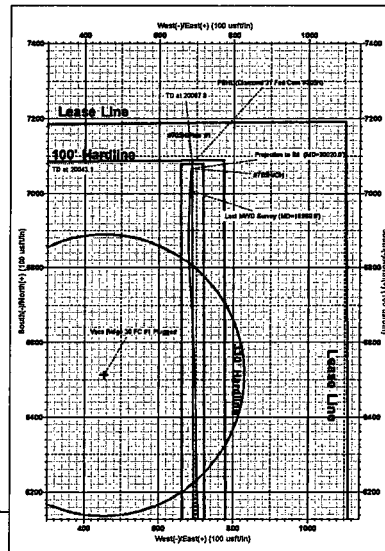
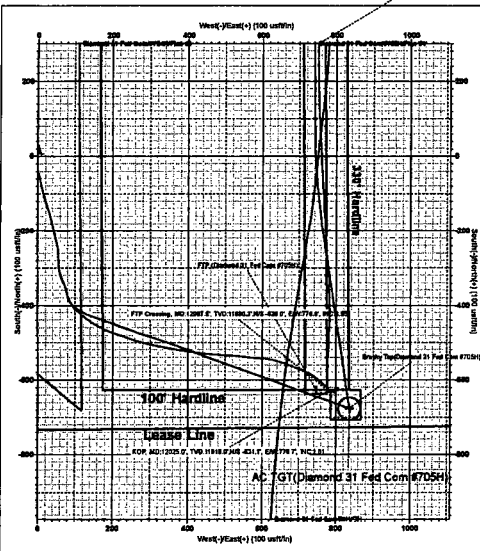
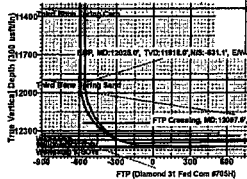
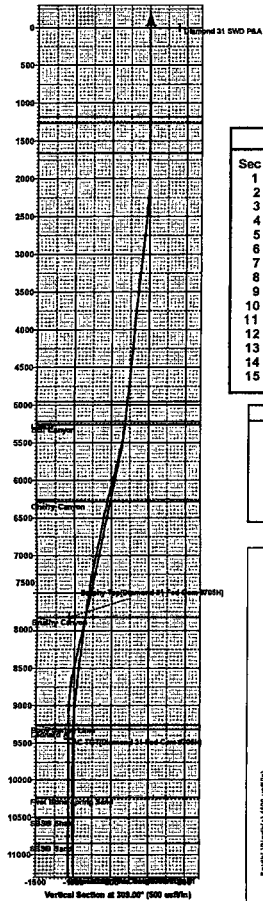
To convert a Magnetic Direction to a Grid Direction, Add 6.48°
To convert a Magnetic Direction to a True Direction, Add 6.90° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Diamond 31 SMD PSA	0.0	1235.3	484.9	427353.29	795746.32
Vaca Ridge 30 FC #1 Plugged	0.0	6513.3	464.0	432628.31	795708.00
Brushy Top(Diamond 31 Fed Com #705H)	7818.0	-476.0	837.0	425439.00	796089.00
AC TGT(Diamond 31 Fed Com #705H)	8442.1	-476.0	837.0	425439.00	796089.00
PBHL (Diamond 31 Fed Com #705H)	12238.0	7080.0	688.0	433195.00	795940.00
TGT#1(Diamond 31 Fed Com #705H)	12275.0	696.6	711.9	432076.60	795948.68
TGT#2(Diamond 31 Fed Com #705H)	12318.0	3949.7	711.9	432064.70	795963.66
TGT#3(Diamond 31 Fed Com #705H)	12822.0	1938.8	727.1	429063.60	795979.13
FTP (Diamond 31 Fed Com #705H)	12383.0	-626.0	747.0	425489.00	795999.00





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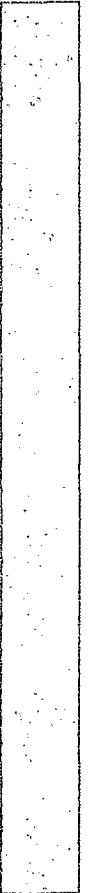
EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Diamond 31 Fed Com
#705H
OH

Design: OH

Midland PVA

07 January, 2019





Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3482.0usft
Well:	#705H	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:	Diamond 31 Fed Com		
Site Position:		Northing:	425,996.00 usft
From:	Map	Easting:	794,470.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 6.586 N
		Longitude:	103° 30' 54.929 W
		Grid Convergence:	0.44 °

Well:	#705H		
Well Position	+N-S	0.0 usft	Northing: 426,115.00 usft
	+E-W	0.0 usft	Easting: 795,252.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 10' 7.704 N
		Longitude:	103° 30' 45.821 W
		Ground Level:	3,457.0 usft

Wellbore:	OH		
Magnetics:	Model Name	Sample Date	Declination
			(°)
	IGRF2015	8/29/2017	6.90
			Dip Angle
			(°)
			60.02
			Field Strength
			(nT)
			47,890.72705556

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:	(°)
			5.54



Midland PVA

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Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date 1/7/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
217.0	1,170.0	Cartel 41 8' KB + 17' (OH)	MWD	OWSG MWD - Standard
1,336.0	5,089.0	Cartel 18 22' KB + 3' (OH)	MWD	OWSG MWD - Standard
5,163.0	20,020.0	Driltech MWD (OH)	MWD	OWSG MWD - Standard

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg ("/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
217.0	0.48	286.00	217.0	0.3	-0.9	0.22	0.22	0.00	0.0	0.0
376.0	0.40	291.45	376.0	0.6	-2.0	0.06	-0.05	3.43	0.0	0.0
535.0	0.55	285.56	535.0	1.0	-3.3	0.10	0.09	-3.70	0.0	0.0
694.0	0.40	258.75	694.0	1.1	-4.6	0.17	-0.09	-16.86	0.0	0.0
852.0	0.20	277.03	852.0	1.1	-5.4	0.14	-0.13	11.57	0.0	0.0
1,011.0	0.33	128.58	1,011.0	0.8	-5.3	0.32	0.08	-93.36	0.0	0.0
1,170.0	0.26	181.49	1,170.0	0.2	-4.9	0.17	-0.04	33.28	0.0	0.0
1,339.0	0.26	154.07	1,339.0	-0.6	-4.8	0.07	0.00	-16.22	0.0	0.0
1,513.0	0.69	179.99	1,513.0	-2.0	-4.6	0.27	0.25	14.90	0.0	0.0
1,688.0	0.42	180.41	1,688.0	-3.7	-4.6	0.15	-0.15	0.24	0.0	0.0
1,862.0	0.20	173.33	1,862.0	-4.6	-4.6	0.13	-0.13	-4.07	0.0	0.0
2,037.0	2.58	177.75	2,036.9	-8.8	-4.4	1.36	1.36	2.53	0.0	0.0
2,211.0	4.81	172.24	2,210.5	-20.0	-3.3	1.30	1.28	-3.17	0.0	0.0
2,386.0	5.39	166.21	2,384.8	-35.2	-0.3	0.45	0.33	-3.45	0.0	0.0
2,560.0	7.23	166.89	2,557.8	-53.8	4.1	1.06	1.06	0.39	0.0	0.0
2,734.0	8.02	168.67	2,730.2	-76.4	9.0	0.47	0.45	1.02	0.0	0.0
2,909.0	8.10	165.09	2,903.5	-100.3	14.6	0.29	0.05	-2.05	0.0	0.0
3,083.0	8.43	162.42	3,075.7	-124.3	21.6	0.29	0.19	-1.53	0.0	0.0
3,258.0	7.20	161.04	3,249.1	-146.9	29.0	0.71	-0.70	-0.79	0.0	0.0



Midland PVA

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3482.0usft
Well:	#705H	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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,432.0	7.36	165.16	3,421.7	-168.0	35.4	0.31	0.09	2.37	0.0	0.0	
3,606.0	9.05	168.85	3,593.9	-192.2	40.9	1.02	0.97	2.12	0.0	0.0	
3,781.0	7.54	165.80	3,767.0	-216.8	46.4	0.90	-0.88	-1.74	0.0	0.0	
3,955.0	6.06	162.98	3,939.8	-236.7	51.9	0.87	-0.85	-1.62	0.0	0.0	
4,130.0	6.74	180.58	4,113.7	-255.8	54.5	1.18	0.39	10.06	0.0	0.0	
4,303.0	6.64	176.93	4,285.6	-275.9	54.9	0.25	-0.06	-2.11	0.0	0.0	
4,478.0	7.02	175.00	4,459.3	-296.7	56.4	0.25	0.22	-1.10	0.0	0.0	
4,652.0	6.54	162.22	4,632.1	-316.7	60.3	0.91	-0.28	-7.34	0.0	0.0	
4,827.0	6.88	154.64	4,805.9	-335.7	67.9	0.54	0.19	-4.33	0.0	0.0	
5,001.0	7.63	165.41	4,978.5	-356.3	75.2	0.89	0.43	6.19	0.0	0.0	
5,089.0	6.78	165.09	5,065.8	-366.9	78.0	0.97	-0.97	-0.36	0.0	0.0	
5,163.0	5.90	162.10	5,139.4	-374.8	80.3	1.27	-1.19	-4.04	0.6	0.2	
5,351.0	7.70	150.40	5,326.1	-394.9	89.5	1.20	0.96	-6.22	1.4	-0.3	
5,537.0	13.30	133.10	5,508.9	-420.4	111.3	3.42	3.01	-9.30	-3.7	-5.4	
5,725.0	15.30	121.20	5,691.1	-448.0	148.3	1.89	1.06	-6.33	-11.5	-14.6	
5,912.0	15.10	111.10	5,871.6	-468.6	192.2	1.42	-0.11	-5.40	-15.1	-21.8	
6,099.0	15.60	108.90	6,051.9	-486.5	238.7	0.41	0.27	-1.18	-21.4	-22.8	
6,286.0	14.20	105.60	6,232.7	-500.8	284.6	0.88	-0.75	-1.76	-25.8	-22.4	
6,473.0	14.40	100.60	6,413.9	-511.3	329.5	0.67	0.11	-2.67	-27.9	-19.8	
6,660.0	13.90	100.30	6,595.2	-519.5	374.5	0.27	-0.27	-0.16	-31.6	-13.1	
6,848.0	14.80	97.40	6,777.3	-526.7	420.5	0.61	0.48	-1.54	-35.7	-6.8	
7,033.0	15.20	93.40	6,956.0	-531.2	468.2	0.60	0.22	-2.16	-42.6	0.9	
7,220.0	14.90	93.50	7,136.6	-534.1	516.6	0.16	-0.16	0.05	-50.4	12.9	
7,407.0	12.10	97.80	7,318.4	-538.2	560.1	1.59	-1.50	2.30	-51.2	27.0	
7,594.0	9.90	92.40	7,502.0	-541.5	595.5	1.30	-1.18	-2.89	-48.2	33.0	
7,780.0	9.80	100.90	7,685.3	-545.2	627.1	0.78	-0.05	4.57	-32.4	48.4	
7,967.0	8.80	109.20	7,869.8	-552.9	656.2	0.89	-0.53	4.44	-12.5	55.1	



Midland PVA

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3482.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
8,153.0	7.50	112.60	8,053.9	-562.3	680.8	0.75	-0.70	1.83	7.0	54.4
8,340.0	6.90	113.20	8,239.5	-571.4	702.4	0.32	-0.32	0.32	26.8	51.8
8,526.0	6.00	110.50	8,424.3	-579.2	721.8	0.51	-0.48	-1.45	46.1	52.0
8,714.0	6.90	127.10	8,611.1	-589.4	740.0	1.10	0.48	8.83	77.9	27.2
8,901.0	6.40	128.90	8,796.8	-602.8	757.1	0.29	-0.27	0.96	86.0	14.8
9,088.0	5.00	130.40	8,982.9	-614.6	771.4	0.75	-0.75	0.80	84.6	6.3
9,276.0	3.80	128.80	9,170.4	-623.8	782.5	0.64	-0.64	-0.85	75.2	6.5
9,464.0	2.40	124.10	9,358.1	-629.9	790.6	0.76	-0.74	-2.50	64.2	12.2
9,652.0	1.10	103.60	9,546.0	-632.5	795.6	0.76	-0.69	-10.90	50.4	32.5
9,846.0	1.10	67.40	9,739.9	-632.3	799.2	0.35	0.00	-18.66	18.1	54.9
10,032.0	2.70	36.60	9,925.8	-628.1	803.4	0.99	0.86	-16.56	-18.4	55.5
10,219.0	1.80	4.60	10,112.7	-621.6	806.3	0.81	-0.48	-17.11	-51.8	35.0
10,406.0	1.00	187.10	10,299.7	-620.3	806.3	1.50	-0.43	-94.92	51.5	-37.3
10,593.0	3.30	219.70	10,486.5	-626.0	802.7	1.35	1.23	17.43	16.5	-58.3
10,779.0	2.40	269.30	10,672.3	-630.2	795.4	1.36	-0.48	26.67	-41.1	-46.3
10,966.0	1.80	295.00	10,859.2	-629.0	788.8	0.59	-0.32	13.74	-63.5	-22.2
11,058.0	0.80	214.40	10,951.2	-629.0	787.1	2.04	-0.98	-87.61	10.6	-67.8
11,151.0	1.70	251.40	11,044.2	-630.1	785.3	1.21	0.86	39.78	-34.3	-60.0
11,338.0	1.30	214.70	11,231.1	-632.7	781.5	0.54	-0.21	-19.63	4.0	-70.3
11,525.0	1.40	27.60	11,418.1	-632.4	781.4	1.44	0.05	92.46	-12.9	89.5
11,711.0	0.50	309.80	11,604.1	-629.9	781.8	0.74	-0.48	-41.83	-71.9	-0.1
11,834.0	0.90	249.00	11,727.1	-629.9	780.5	0.64	0.33	-49.43	-36.2	-63.3
11,911.0	1.41	253.41	11,804.0	-630.4	779.0	0.67	0.66	5.73	-42.5	-60.3
12,005.0	1.23	243.30	11,898.0	-631.1	777.0	0.31	-0.19	-10.76	-33.4	-67.0
12,051.0	2.40	355.30	11,944.0	-630.4	776.5	6.69	2.54	243.48	-49.6	56.5
12,098.0	8.62	8.02	11,990.8	-625.9	776.9	13.41	13.23	27.06	-35.4	64.6
12,145.0	14.60	1.34	12,036.8	-616.5	777.5	13.02	12.72	-14.21	-41.8	57.6



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12,192.0	19.61	359.67	12,081.7	-602.7	777.6	10.71	10.66	-3.55	-41.9	53.8
12,286.0	29.72	2.57	12,167.0	-563.5	778.6	10.83	10.76	3.09	-34.3	47.1
12,333.0	32.60	2.00	12,207.2	-539.2	779.5	6.16	6.13	-1.21	-29.8	41.1
12,379.0	38.70	2.70	12,244.6	-512.5	780.6	13.29	13.26	1.52	-23.9	34.9
12,473.0	52.00	1.40	12,310.5	-445.8	782.9	14.18	14.15	-1.38	-14.3	20.1
12,520.0	57.80	359.50	12,337.5	-407.4	783.2	12.78	12.34	-4.04	-9.9	13.2
12,566.0	62.00	358.10	12,360.6	-367.6	782.4	9.50	9.13	-3.04	-4.7	7.5
12,613.0	69.60	356.30	12,379.8	-324.8	780.3	16.54	16.17	-3.83	0.5	2.8
12,659.0	76.00	356.10	12,393.4	-281.0	777.3	13.92	13.91	-0.43	4.6	-1.0
12,726.0	82.10	356.80	12,406.2	-215.3	773.3	9.16	9.10	1.04	11.1	-6.9
12,762.0	89.10	356.00	12,408.9	-179.5	771.0	19.57	19.44	-2.22	14.1	-10.0
12,856.0	87.40	357.30	12,411.8	-85.8	765.5	2.28	-1.81	1.38	18.4	-15.7
12,949.0	88.20	356.50	12,415.4	7.0	760.5	1.22	0.86	-0.86	23.4	-17.2
13,043.0	89.60	357.20	12,417.2	100.9	755.3	1.67	1.49	0.74	26.7	-14.1
13,137.0	89.20	359.00	12,418.1	194.8	752.2	1.96	-0.43	1.91	29.1	-11.7
13,230.0	90.80	359.00	12,418.1	287.8	750.6	1.72	1.72	0.00	30.6	-10.8
13,324.0	88.60	358.30	12,418.6	381.8	748.4	2.46	-2.34	-0.74	32.5	-9.3
13,417.0	90.20	357.90	12,419.6	474.7	745.3	1.77	1.72	-0.43	34.9	-6.9
13,510.0	88.90	359.00	12,420.3	567.7	742.8	1.83	-1.40	1.18	37.1	-5.1
13,604.0	90.20	0.30	12,421.1	661.7	742.2	1.96	1.38	1.38	39.3	-5.2
13,697.0	89.50	0.30	12,421.3	754.7	742.7	0.75	-0.75	0.00	41.0	-6.4
13,790.0	91.60	0.90	12,420.4	847.6	743.7	2.35	2.26	0.65	41.5	-8.1
13,884.0	91.30	0.60	12,418.0	941.6	744.9	0.45	-0.32	-0.32	40.6	-10.1
13,977.0	91.20	359.40	12,416.0	1,034.6	744.9	1.29	-0.11	-1.29	40.0	-10.8
14,070.0	91.60	359.40	12,413.7	1,127.5	743.9	0.43	0.43	0.00	39.2	-10.6
14,164.0	91.40	358.90	12,411.3	1,221.5	742.5	0.57	-0.21	-0.53	38.2	-9.9
14,257.0	92.70	359.00	12,408.0	1,314.4	740.8	1.40	1.40	0.11	36.3	-8.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3482.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
14,350.0	94.00	0.30	12,402.5	1,407.3	740.3	1.98	1.40	1.40	32.3	-9.0	
14,444.0	90.30	358.60	12,399.0	1,501.2	739.4	4.33	-3.94	-1.81	30.2	-8.9	
14,537.0	91.00	359.70	12,397.9	1,594.2	738.0	1.40	0.75	1.18	30.6	-8.2	
14,631.0	92.90	359.80	12,394.7	1,688.1	737.6	2.02	2.02	0.11	28.9	-8.5	
14,724.0	93.00	358.50	12,390.0	1,781.0	736.2	1.40	0.11	-1.40	25.5	-7.9	
14,818.0	91.40	359.00	12,386.4	1,874.9	734.2	1.78	-1.70	0.53	23.4	-6.5	
14,911.0	90.30	359.80	12,385.0	1,967.8	733.2	1.46	-1.18	0.86	23.5	-6.3	
15,004.0	90.80	359.10	12,384.1	2,060.8	732.3	0.92	0.54	-0.75	24.7	-6.1	
15,098.0	92.30	358.20	12,381.5	2,154.8	730.1	1.86	1.60	-0.96	24.2	-4.6	
15,192.0	91.80	0.30	12,378.2	2,248.7	728.8	2.30	-0.53	2.23	22.9	-4.1	
15,285.0	93.10	0.60	12,374.2	2,341.6	729.6	1.43	1.40	0.32	21.0	-5.5	
15,379.0	93.60	3.40	12,368.7	2,435.4	732.8	3.02	0.53	2.98	17.5	-9.4	
15,473.0	91.30	5.60	12,364.7	2,529.0	740.2	3.38	-2.45	2.34	15.6	-17.5	
15,566.0	91.90	6.40	12,362.1	2,621.4	749.9	1.07	0.65	0.86	15.2	-27.9	
15,659.0	90.10	0.30	12,360.5	2,714.2	755.4	6.84	-1.94	-6.56	15.4	-34.1	
15,752.0	89.80	359.60	12,360.5	2,807.2	755.3	0.82	-0.32	-0.75	17.5	-34.7	
15,845.0	90.00	356.60	12,360.7	2,900.2	752.2	3.23	0.22	-3.23	19.7	-32.4	
15,939.0	91.20	355.60	12,359.7	2,993.9	745.8	1.66	1.28	-1.06	20.8	-26.7	
16,032.0	92.00	355.80	12,357.1	3,086.6	738.8	0.89	0.86	0.22	20.2	-20.4	
16,126.0	91.90	357.70	12,353.9	3,180.4	733.5	2.02	-0.11	2.02	19.1	-15.8	
16,220.0	92.70	359.60	12,350.2	3,274.3	731.3	2.19	0.85	2.02	17.3	-14.3	
16,313.0	92.80	358.20	12,345.7	3,367.2	729.5	1.51	0.11	-1.51	14.9	-13.2	
16,407.0	92.90	359.40	12,341.0	3,461.1	727.5	1.28	0.11	1.28	12.3	-12.0	
16,529.0	86.90	356.90	12,341.2	3,582.9	723.6	5.33	-4.92	-2.05	15.2	-9.0	
16,622.0	90.00	358.50	12,343.7	3,675.8	719.9	3.75	3.33	1.72	19.7	-6.0	
16,716.0	90.00	358.70	12,343.7	3,769.8	717.6	0.21	0.00	0.21	21.8	-4.4	
16,810.0	91.30	359.00	12,342.7	3,863.7	715.7	1.42	1.38	0.32	22.8	-3.2	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3482.0usft
Well:	#705H	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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
16,904.0	91.60	359.00	12,340.3	3,957.7	714.1	0.32	0.32	0.00	22.5	-2.3	
16,998.0	88.80	358.90	12,340.0	4,051.7	712.3	2.98	-2.98	-0.11	24.1	-1.3	
17,091.0	90.10	359.80	12,340.9	4,144.7	711.3	1.70	1.40	0.97	27.0	-0.9	
17,185.0	89.80	359.60	12,340.9	4,238.7	710.8	0.38	-0.32	-0.21	29.1	-1.1	
17,278.0	90.60	359.30	12,340.6	4,331.7	709.9	0.92	0.86	-0.32	30.8	-0.9	
17,371.0	90.70	359.10	12,339.6	4,424.6	708.6	0.24	0.11	-0.22	31.7	-0.4	
17,465.0	91.00	0.00	12,338.2	4,518.6	707.9	1.01	0.32	0.96	32.3	-0.3	
17,558.0	95.70	3.10	12,332.7	4,611.4	710.4	6.05	5.05	3.33	28.9	-3.5	
17,652.0	91.40	359.80	12,326.9	4,705.2	712.7	5.76	-4.57	-3.51	25.1	-6.6	
17,746.0	91.50	359.60	12,324.5	4,799.1	712.2	0.24	0.11	-0.21	24.7	-8.8	
17,840.0	90.70	358.30	12,322.7	4,893.1	710.5	1.62	-0.85	-1.38	24.9	-5.8	
17,934.0	91.10	357.90	12,321.3	4,987.0	707.4	0.60	0.43	-0.43	25.4	-3.4	
18,028.0	90.80	358.00	12,319.7	5,080.9	704.0	0.34	-0.32	0.11	25.9	-0.8	
18,122.0	92.90	357.90	12,316.7	5,174.8	700.7	2.24	2.23	-0.11	24.9	1.9	
18,175.0	88.60	356.50	12,316.0	5,227.8	698.1	8.53	-8.11	-2.64	25.3	4.0	
18,285.0	87.20	357.70	12,320.0	5,337.5	692.5	1.68	-1.27	1.09	31.7	8.8	
18,403.0	91.20	0.20	12,321.7	5,455.5	690.4	4.00	3.39	2.12	35.8	10.1	
18,497.0	98.50	4.90	12,315.3	5,549.1	684.5	7.53	5.64	5.00	31.5	5.2	
18,591.0	97.90	5.20	12,303.6	5,642.0	702.7	1.52	1.49	0.32	21.7	-3.7	
18,684.0	93.70	4.50	12,294.2	5,734.2	710.6	4.58	-4.52	-0.75	14.4	-12.2	
18,778.0	92.40	1.50	12,289.2	5,827.9	715.5	3.47	-1.38	-3.19	11.3	-17.9	
18,871.0	88.30	359.40	12,288.6	5,920.9	716.2	4.95	-4.41	-2.26	12.7	-19.3	
18,964.0	85.60	358.10	12,293.5	6,013.7	714.2	3.22	-2.90	-1.40	20.0	-18.0	
19,058.0	88.70	355.70	12,298.2	6,107.4	709.1	4.17	3.30	-2.55	27.9	-13.7	
19,151.0	88.30	358.60	12,300.6	6,200.3	704.5	3.15	-0.43	3.12	33.4	-9.8	
19,245.0	88.40	358.90	12,303.4	6,294.2	702.4	0.34	0.11	0.32	39.2	-8.4	
19,339.0	91.30	359.10	12,303.6	6,388.2	700.8	3.09	3.09	0.21	42.6	-7.5	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3482.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D.Leg. (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
19,433.0	91.10	358.00	12,301.6	6,482.1	698.4	1.19	-0.21	-1.17	43.7	-5.9	
19,526.0	92.30	357.50	12,298.9	6,575.0	694.8	1.40	1.29	-0.54	44.1	-2.9	
19,619.0	94.20	357.10	12,293.6	6,667.8	690.4	2.09	2.04	-0.43	41.9	0.7	
19,713.0	93.30	354.80	12,287.5	6,761.3	683.8	2.62	-0.96	-2.45	38.9	6.6	
19,807.0	93.00	359.40	12,282.3	6,855.0	679.0	4.90	-0.32	4.89	36.8	10.7	
19,901.0	90.80	2.70	12,279.2	6,948.9	680.7	4.22	-2.34	3.51	36.8	8.3	
19,960.0	90.90	2.80	12,278.3	7,007.9	683.6	0.24	0.17	0.17	37.9	5.1	
20,020.0	90.90	2.80	12,277.3	7,067.8	686.5	0.00	0.00	0.00	38.9	1.7	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,025.0	11,918.0	-631.1	776.7	KOP, MD:12025.0', TVD:11918.0', N/S:-631.1', E/W:776.7', INC:1.01
12,097.5	11,990.3	-626.0	776.9	FTP Crossing, MD:12097.5', TVD:11990.3', N/S:-626.0', E/W:776.9', INC:8.55
19,960.0	12,278.3	7,007.9	683.6	Last MWD Survey (MD=19960.0')
20,020.0	12,277.3	7,067.8	686.5	Projection to Bit (MD=20020.0')

Checked By: _____	Approved By: _____	Date: _____
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