



Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #704H

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: #704H

KB = 25' @ 3482.0usft 3457.0
Northing 426114.00 Easting 795217.00 Latitude 32° 10' 7.597 N Longitude 103° 30' 46.228 W

SECTION DETAILS

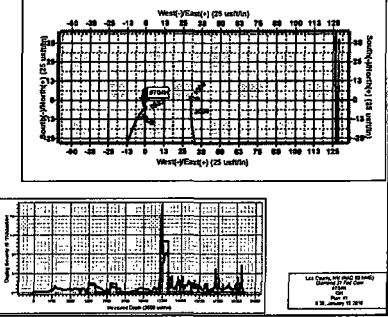
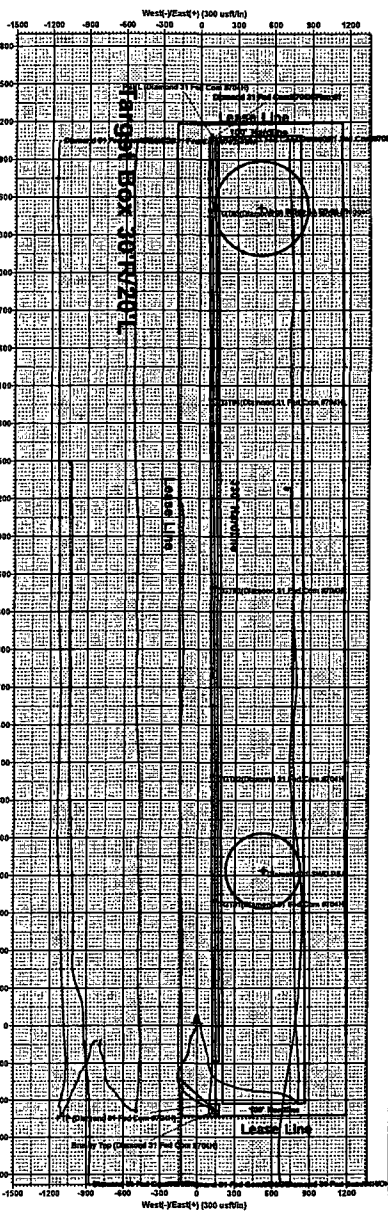
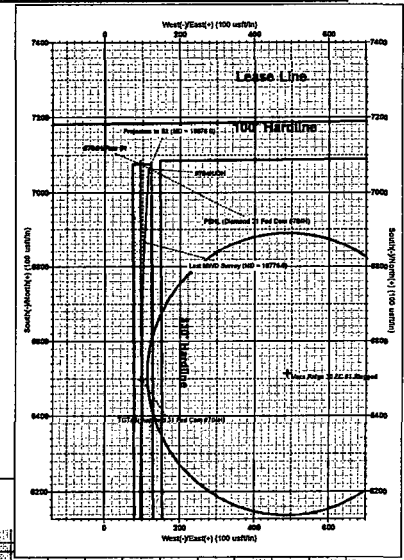
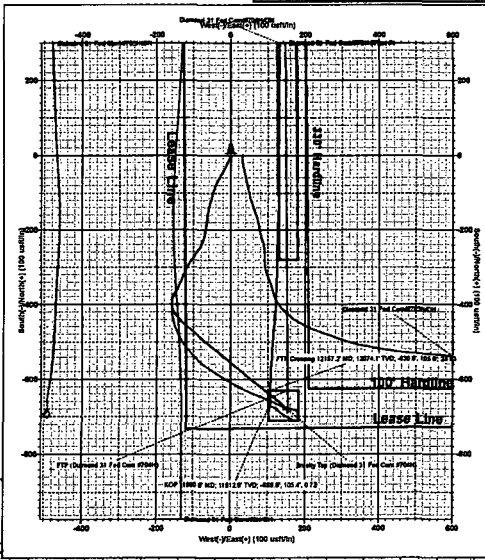
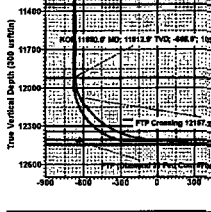
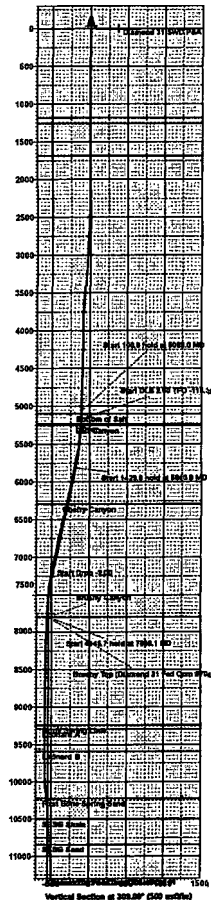
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	5099.0	7.54	210.58	5063.8	-362.0	-146.8	0.00	0.00	-363.9	
2	5189.0	7.54	210.58	5183.0	-373.3	-153.5	0.00	0.00	-375.3	
3	5840.9	11.91	129.48	5807.9	-453.3	-123.2	2.00	-115.39	-454.8	
4	7270.8	11.91	129.48	7207.0	-640.8	104.4	0.00	0.00	-639.4	
5	7866.1	0.00	0.00	7798.0	-680.0	162.0	2.00	180.00	-677.9	Brushy Top (Diamond 31 Fed Com #704H)
6	12011.8	0.00	0.00	11943.7	-680.0	152.0	0.00	0.00	-677.9	
7	12764.3	90.29	359.56	12421.2	-200.1	148.3	12.00	359.56	-198.1	
8	13962.7	90.29	359.56	12415.0	998.3	139.2	0.00	0.00	1000.0	TGT#1(Diamond 31 Fed Com #704H)
9	13991.4	90.87	359.56	12414.7	1028.9	139.0	2.00	0.00	1028.7	
10	14963.0	90.87	359.56	12400.0	1998.4	131.8	0.00	0.00	2000.0	TGT#2(Diamond 31 Fed Com #704H)
11	14960.8	91.22	359.56	12399.7	2016.2	131.5	2.00	0.00	2017.8	
12	16463.6	91.22	359.56	12368.0	3498.7	120.2	0.00	0.00	3500.0	TGT#3(Diamond 31 Fed Com #704H)
13	16494.4	91.84	359.56	12367.2	3529.4	120.0	2.00	0.00	3530.7	
14	17954.8	91.84	359.56	12320.0	4999.0	108.8	0.00	0.00	5000.0	TGT#4(Diamond 31 Fed Com #704H)
15	17976.6	91.60	359.56	12319.6	5010.8	108.7	2.00	180.00	5011.8	
16	19465.7	91.60	359.56	12278.0	6499.3	97.4	0.00	0.00	6500.0	TGT#5(Diamond 31 Fed Com #704H)
17	19527.9	92.85	359.56	12276.6	6581.5	96.9	2.00	0.00	6582.2	
18	20043.1	92.85	359.56	12260.0	7076.0	93.0	0.00	0.00	7076.8	PBHL (Diamond 31 Fed Com #704H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Diamond 31 SWD P&A	0.0	1239.3	629.3	427353.29	795746.32
Vaca Ridge 30 FC #1 Plugged	0.0	6514.3	469.0	432623.31	795706.00
Brushy Top (Diamond 31 Fed Com #704H)	7788.0	-680.0	152.0	425434.00	795369.00
PBHL (Diamond 31 Fed Com #704H)	12260.0	7076.0	93.0	433190.00	795310.00
TGT#1(Diamond 31 Fed Com #704H)	12276.0	6459.3	87.4	432613.30	795314.39
TGT#2(Diamond 31 Fed Com #704H)	12320.0	4999.0	108.8	431113.00	795325.80
TGT#3(Diamond 31 Fed Com #704H)	12368.0	3498.7	120.2	429612.70	795337.21
TGT#4(Diamond 31 Fed Com #704H)	12420.0	1898.4	131.6	429112.40	795345.63
TGT#5(Diamond 31 Fed Com #704H)	12415.0	998.3	139.2	427112.30	795356.23
FTP (Diamond 31 Fed Com #704H)	12420.0	-630.0	152.0	425484.00	795369.00

CASING DETAILS

No casing data is available



HOBBS OCD
FEB 27 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#704H

OH

Design: OH

Midland PVA

15 January, 2019



Midland PVA

Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well #704H
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:	#704H			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:	425,998.00 usft	Latitude:	32° 10' 6.586 N
From:	Map	Easting:	794,470.00 usft	Longitude:	103° 30' 54.929 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.44 °

Well:	#704H					
Well Position	+N-S	0.0 usft	Northing:	426,114.00 usft	Latitude:	32° 10' 7.697 N
	+E-W	0.0 usft	Easting:	795,217.00 usft	Longitude:	103° 30' 46.228 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,457.0 usft

Wellbore:	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/29/2017	6.90	60.02	47,890.71397652

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	0.75	



Midland PVA

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Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3482.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date 1/15/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
217.0	1,150.0	Cartel 41 8' kb + 17' (OH)	MWD	OWSG MWD - Standard	
1,334.0	5,089.0	Cartel 18 22' KB + 3' KB (OH)	MWD	OWSG MWD - Standard	
5,159.0	19,976.0	Drilltech MWD (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inch (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulid (°/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	248.73	217.0	-0.3	-0.8	0.22	0.22	0.00	0.0	0.0
376.0	0.15	244.25	376.0	-0.7	-1.7	0.21	-0.21	-2.82	0.0	0.0
535.0	0.20	175.17	535.0	-1.0	-1.8	0.13	0.03	-43.45	0.0	0.0
694.0	0.31	142.21	694.0	-1.6	-1.5	0.11	0.07	-20.73	0.0	0.0
852.0	0.33	186.94	852.0	-2.4	-1.3	0.15	0.01	28.31	0.0	0.0
1,011.0	0.04	190.72	1,011.0	-2.9	-1.4	0.18	-0.18	2.38	0.0	0.0
1,150.0	0.31	153.02	1,150.0	-3.3	-1.2	0.20	0.19	-27.12	0.0	0.0
1,337.0	0.20	110.55	1,337.0	-3.9	-0.7	0.11	-0.06	-22.71	0.0	0.0
1,511.0	0.75	157.37	1,511.0	-5.0	0.0	0.36	0.32	26.91	0.0	0.0
1,686.0	0.31	6.82	1,686.0	-5.6	0.5	0.59	-0.25	-86.03	0.0	0.0
1,860.0	0.63	254.15	1,860.0	-5.4	-0.3	0.46	0.18	-64.75	0.0	0.0
2,035.0	3.10	215.14	2,034.9	-9.6	-4.0	1.51	1.41	-22.29	0.0	0.0
2,210.0	4.62	200.90	2,209.5	-20.0	-9.2	1.02	0.87	-8.14	0.0	0.0
2,384.0	5.76	210.31	2,382.8	-34.1	-16.1	0.82	0.66	5.41	0.0	0.0
2,559.0	7.35	209.63	2,556.6	-51.4	-26.1	0.91	0.91	-0.39	0.0	0.0
2,733.0	8.22	206.22	2,729.0	-72.2	-37.1	0.57	0.50	-1.96	0.0	0.0
2,907.0	7.75	199.50	2,901.3	-94.5	-46.5	0.60	-0.27	-3.86	0.0	0.0
3,082.0	7.84	193.16	3,074.7	-117.2	-53.2	0.49	0.05	-3.62	0.0	0.0
3,256.0	9.01	191.22	3,246.8	-142.1	-58.5	0.69	0.67	-1.11	0.0	0.0



Midland PVA

Company: EOG Resources - Midland				Local Co-ordinate References:						
Project: Lea County, NM (NAD 83 NME)				Well #704H						
Site: Diamond 31 Fed Cam				KB = 25' @ 3482.0ush						
Well: #704H				KB = 25' @ 3482.0ush						
Wellbore: OH				Grid						
Datum: OH				Minimum Curvature						
				EDM 5000.14						
Survey										
MD (feet)	Inc (")	AG (estmth) (")	TVD (feet)	N/S (feet)	EW (feet)	DLeg ("100feet)	Build ("100feet)	Turn ("100feet)	High to Plan (feet)	Right to Plan (feet)
3,431.0	7.90	186.86	3,419.9	-167.5	-62.6	0.73	-0.63	-2.49	0.0	0.0
3,805.0	8.76	187.68	3,592.1	-192.5	-65.8	0.50	0.48	0.47	0.0	0.0
3,780.0	7.61	191.68	3,765.3	-217.1	-69.9	0.73	-0.66	2.29	0.0	0.0
3,955.0	7.23	205.31	3,938.9	-238.4	-77.0	1.03	-0.22	7.79	0.0	0.0
4,130.0	7.53	216.30	4,112.4	-257.6	-88.5	0.82	0.17	6.28	0.0	0.0
4,304.0	6.61	215.36	4,285.1	-274.9	-101.0	0.53	-0.53	-0.54	0.0	0.0
4,473.0	6.57	213.90	4,457.9	-291.4	-112.4	0.10	-0.02	-0.84	0.0	0.0
4,653.0	7.08	199.16	4,631.7	-308.9	-121.5	1.04	0.29	-8.42	0.0	0.0
4,827.0	7.86	205.96	4,804.2	-330.7	-130.2	0.68	0.45	3.91	0.0	0.0
5,002.0	7.81	208.35	4,977.6	-351.9	-141.1	0.19	-0.03	1.37	0.0	0.0
5,089.0	7.54	210.58	5,053.8	-362.0	-146.8	0.46	-0.31	2.56	0.0	0.0
5,159.0	6.80	211.90	5,133.3	-369.5	-151.4	1.08	-1.06	1.89	0.5	-0.1
5,347.0	8.30	188.30	5,319.7	-392.4	-159.2	1.81	0.80	-12.55	-0.7	0.6
5,534.0	11.00	173.60	5,504.0	-423.5	-159.2	1.94	1.44	-7.86	-9.0	-4.3
5,721.0	12.80	160.30	5,687.1	-460.7	-150.2	1.75	0.96	-7.11	-18.4	-17.5
5,908.0	13.30	147.40	5,869.3	-498.4	-131.6	1.58	0.27	-6.90	-20.7	-35.6
6,095.0	13.20	136.20	6,051.3	-531.9	-105.2	1.37	-0.05	-5.89	-17.8	-47.5
6,283.0	12.20	128.50	6,234.7	-559.7	-74.8	1.04	-0.53	-4.10	-13.9	-51.7
6,470.0	12.60	120.40	6,417.4	-582.4	-41.8	0.95	0.21	-4.33	-8.5	-49.8
6,656.0	12.00	120.70	6,599.1	-602.5	-7.7	0.32	-0.32	0.16	-10.5	-43.8
6,844.0	12.30	118.90	6,782.9	-622.2	26.7	0.26	0.16	-0.96	-10.6	-37.6
7,031.0	11.70	111.80	6,965.8	-638.8	61.7	0.85	-0.32	-3.80	-7.9	-29.3
7,217.0	11.20	112.10	7,148.1	-652.6	96.0	0.27	-0.27	0.16	-8.3	-17.7
7,403.0	8.30	118.40	7,331.4	-665.8	124.5	1.66	-1.56	3.39	-6.5	-7.9
7,590.0	6.20	106.20	7,516.9	-675.1	146.1	1.39	-1.12	-6.52	-5.6	-2.3
7,777.0	3.80	104.10	7,703.2	-679.4	161.8	1.29	-1.28	-1.12	-10.8	2.3
7,963.0	2.60	102.10	7,888.9	-681.8	171.9	0.65	-0.65	-1.08	-19.8	2.4



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
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:	#704H	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)	D/Lag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,151.0	1.30	150.90	8,076.8	-684.5	177.1	1.06	-0.69	25.96	-16.2	19.7	
8,337.0	1.40	163.90	8,262.8	-688.6	178.8	0.17	0.05	6.99	-15.6	23.3	
8,524.0	1.20	173.20	8,449.7	-692.7	179.6	0.16	-0.11	4.97	-15.9	25.9	
8,710.0	1.10	187.60	8,635.7	-696.4	180.2	0.08	-0.05	-3.01	-22.1	24.1	
8,898.0	1.10	172.20	8,823.6	-699.9	180.9	0.05	0.00	2.45	-23.7	25.9	
9,085.0	1.20	178.80	9,010.6	-703.7	181.2	0.09	0.05	3.53	-24.3	28.7	
9,272.0	1.10	198.80	9,197.6	-707.3	180.6	0.22	-0.05	10.70	-16.6	35.9	
9,460.0	0.70	200.90	9,385.5	-710.1	179.6	0.21	-0.21	1.12	-18.3	36.6	
9,647.0	1.10	245.90	9,572.5	-711.9	177.6	0.42	0.21	24.06	10.3	39.6	
9,835.0	1.60	282.30	9,760.5	-712.1	173.4	0.51	0.27	19.38	27.7	26.8	
10,023.0	3.00	301.90	9,948.3	-708.9	166.6	0.84	0.74	10.43	27.7	16.8	
10,210.0	5.10	294.80	10,134.8	-702.8	154.9	1.15	1.12	-3.80	12.2	19.5	
10,397.0	3.30	299.70	10,321.3	-696.7	142.7	0.98	-0.96	2.62	0.2	19.1	
10,584.0	4.60	312.80	10,507.9	-688.9	132.5	0.84	0.70	7.01	-8.2	19.8	
10,770.0	3.40	311.10	10,693.4	-680.2	122.9	0.65	-0.65	-0.91	-21.8	19.3	
10,957.0	1.90	297.10	10,880.2	-675.2	116.0	0.87	-0.80	-7.49	-34.3	12.1	
11,143.0	1.90	285.70	11,066.1	-672.9	110.3	0.20	0.00	-6.13	-42.1	4.5	
11,329.0	1.80	294.20	11,252.0	-670.9	104.6	0.16	-0.05	4.57	-46.9	11.1	
11,515.0	1.20	48.90	11,438.0	-668.4	103.4	1.37	-0.32	61.67	29.0	40.7	
11,702.0	0.80	22.40	11,625.0	-665.9	105.4	0.32	-0.21	-14.17	4.8	48.4	
11,818.0	0.40	167.30	11,741.0	-665.6	105.8	0.99	-0.34	124.91	24.2	-41.9	
11,939.0	0.90	201.80	11,861.9	-666.9	105.5	0.51	0.41	28.51	-5.1	-48.0	
11,990.0	0.72	358.43	11,912.9	-666.9	105.4	3.11	-0.36	307.11	-14.3	46.2	
KOP 11990.0' MD; 11912.9' TVD; -666.9'; 105.4'; 0.72											
12,009.0	1.30	4.30	11,931.9	-666.6	105.4	3.11	3.06	30.92	-9.9	47.5	
12,103.0	17.60	357.40	12,024.4	-651.2	104.8	17.35	17.34	-7.34	-23.5	46.2	



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Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3482.0usft
Well:	#704H	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)	
12,157.2	28.63	2.50	12,074.1	-630.0	105.0	20.67	20.36	9.42	-28.2	48.3	
FTP Crossing 12157.2' MD; 12074.1' TVD; -630.0'; 105.0'; 28.63											
12,197.0	36.80	4.40	12,107.6	-608.6	106.4	20.67	20.52	4.76	-35.8	48.5	
12,291.0	43.00	1.70	12,179.7	-548.4	109.5	6.85	6.60	-2.87	-57.6	43.6	
12,364.0	49.20	5.60	12,244.1	-481.6	113.8	7.32	6.67	4.19	-64.9	41.3	
12,477.0	57.70	4.60	12,299.5	-407.2	120.4	9.18	9.14	-1.08	-65.8	32.4	
12,570.0	65.40	0.10	12,343.8	-325.6	123.7	9.31	8.28	-4.84	-58.8	26.0	
12,664.0	74.00	2.10	12,376.3	-237.5	125.4	9.36	9.15	2.13	-43.1	23.8	
12,757.0	81.80	0.70	12,395.8	-146.7	127.6	8.52	8.39	-1.51	-24.9	20.5	
12,804.0	82.70	0.40	12,402.2	-100.1	128.1	2.02	1.91	-0.64	-18.4	19.6	
12,851.0	82.60	0.50	12,408.2	-53.5	128.4	0.30	-0.21	0.21	-12.1	18.9	
12,945.0	85.90	0.10	12,417.6	40.0	128.9	3.54	3.51	-0.43	-2.3	17.6	
13,038.0	85.10	359.90	12,424.9	132.7	128.9	0.89	-0.86	-0.22	5.4	16.9	
13,132.0	88.60	1.20	12,430.1	226.5	129.8	3.97	3.72	1.38	11.1	15.3	
13,225.0	90.00	0.90	12,431.2	319.5	131.5	1.54	1.51	-0.32	12.7	12.9	
13,319.0	89.80	1.60	12,431.4	413.5	133.6	0.77	-0.21	0.74	13.4	10.1	
13,412.0	89.50	2.10	12,431.9	506.4	136.6	0.63	-0.32	0.54	14.4	6.4	
13,505.0	90.40	3.10	12,432.0	599.3	140.8	1.45	0.97	1.08	15.0	1.5	
13,599.0	90.30	3.70	12,431.4	693.2	146.4	0.65	-0.11	0.64	14.9	-4.8	
13,692.0	90.80	0.40	12,430.5	788.1	149.7	3.59	0.54	-3.55	14.4	-8.8	
13,785.0	90.40	359.10	12,429.6	879.1	149.3	1.46	-0.43	-1.40	14.0	-9.2	
13,877.0	93.00	359.00	12,426.8	971.0	147.8	2.83	2.83	-0.11	11.7	-8.3	
13,970.0	93.80	358.30	12,421.3	1,063.8	145.6	1.14	0.86	-0.75	7.2	-6.9	
14,064.0	95.00	358.10	12,414.1	1,157.5	142.6	1.29	1.28	-0.21	1.4	-4.6	
14,157.0	92.20	0.00	12,408.3	1,250.3	141.1	3.64	-3.01	2.04	-3.1	-3.8	
14,251.0	92.70	0.00	12,404.3	1,344.2	141.1	0.53	0.53	0.00	-5.7	-4.5	
14,343.0	92.20	0.50	12,400.3	1,436.1	141.5	0.77	-0.54	0.54	-8.2	-5.6	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
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:	#704H	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)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
14,437.0	90.70	0.00	12,397.9	1,530.1	141.9	1.68	-1.60	-0.53	-9.2	-6.7	
14,530.0	91.90	359.50	12,395.8	1,623.1	141.5	1.40	1.29	-0.54	-9.9	-7.0	
14,625.0	90.70	0.20	12,393.7	1,718.0	141.3	1.46	-1.26	0.74	-10.6	-7.5	
14,718.0	92.40	2.10	12,391.2	1,811.0	143.1	2.74	1.83	2.04	-11.7	-10.1	
14,811.0	90.30	1.30	12,389.0	1,903.9	145.9	2.42	-2.26	-0.86	-12.5	-13.5	
14,904.0	89.60	359.60	12,389.0	1,996.9	146.6	1.98	-0.75	-1.83	-11.0	-15.0	
14,998.0	90.30	358.40	12,389.1	2,090.9	145.0	1.48	0.74	-1.28	-8.0	-14.0	
15,091.0	92.20	358.70	12,387.1	2,183.8	142.6	2.07	2.04	0.32	-9.0	-12.4	
15,185.0	91.40	358.00	12,384.1	2,277.7	139.9	1.13	-0.85	-0.74	-9.9	-10.4	
15,279.0	89.00	359.30	12,383.8	2,371.7	137.7	2.90	-2.55	1.38	-8.3	-8.9	
15,372.0	88.90	359.00	12,384.7	2,464.7	136.3	1.02	0.97	-0.32	-5.4	-8.2	
15,466.0	90.00	0.40	12,384.8	2,558.7	135.8	1.49	0.11	1.49	-3.3	-8.5	
15,559.0	88.10	0.20	12,386.3	2,651.7	136.3	2.05	-2.04	-0.22	0.2	-9.7	
15,652.0	88.20	0.00	12,389.3	2,744.6	136.5	0.24	0.11	-0.22	5.2	-10.5	
15,745.0	89.50	359.70	12,391.2	2,837.6	136.2	1.43	1.40	-0.32	9.1	-11.0	
15,868.0	91.20	359.20	12,390.5	2,960.6	135.1	1.44	1.38	-0.41	11.0	-10.7	
15,961.0	91.70	359.20	12,388.1	3,053.5	133.8	0.54	0.54	0.00	10.6	-10.2	
16,055.0	92.20	359.20	12,384.9	3,147.5	132.4	0.53	0.53	0.00	9.4	-9.6	
16,149.0	92.50	359.60	12,381.0	3,241.4	131.5	0.53	0.32	0.43	7.5	-9.3	
16,243.0	93.40	0.30	12,376.2	3,335.3	131.4	1.21	0.96	0.74	4.7	-9.9	
16,336.0	91.90	358.90	12,371.9	3,428.2	130.7	2.21	-1.61	-1.51	2.4	-10.0	
16,429.0	90.90	359.50	12,369.6	3,521.1	129.4	1.25	-1.08	0.65	2.2	-9.4	
16,523.0	90.70	359.40	12,368.3	3,615.1	128.5	0.24	-0.21	-0.11	3.9	-9.2	
16,616.0	90.90	359.70	12,367.0	3,708.1	127.8	0.39	0.22	0.32	5.6	-9.2	
16,710.0	90.90	359.60	12,365.6	3,802.1	127.2	0.11	0.00	-0.11	7.1	-9.3	
16,804.0	90.70	358.90	12,364.2	3,896.1	126.0	0.77	-0.21	-0.74	8.8	-8.8	
16,898.0	91.50	358.70	12,362.4	3,990.0	124.0	0.88	0.85	-0.21	10.0	-7.6	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
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:	#704H	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)	
16,991.0	91.50	359.00	12,360.0	4,083.0	122.2	0.32	0.00	0.32	10.6	-6.4	
17,085.0	92.30	359.10	12,356.9	4,176.9	120.6	0.86	0.85	0.11	10.5	-5.6	
17,178.0	93.30	359.60	12,352.3	4,269.8	119.5	1.20	1.08	0.54	8.9	-5.2	
17,272.0	88.50	357.30	12,350.9	4,363.7	117.0	5.66	-5.11	-2.45	10.5	-3.4	
17,365.0	89.70	357.30	12,352.3	4,456.6	112.6	1.29	1.29	0.00	14.9	0.3	
17,459.0	90.00	356.90	12,352.6	4,550.5	107.9	0.53	0.32	-0.43	18.2	4.3	
17,552.0	91.20	359.80	12,351.6	4,643.4	105.2	3.37	1.29	3.12	20.2	6.3	
17,646.0	92.10	0.40	12,348.9	4,737.4	105.4	1.15	0.96	0.64	20.5	5.4	
17,739.0	92.80	0.70	12,344.9	4,830.3	106.2	0.82	0.75	0.32	19.5	3.8	
17,834.0	93.30	0.40	12,339.9	4,925.1	107.2	0.61	0.53	-0.32	17.5	2.2	
17,927.0	92.90	359.70	12,334.8	5,018.0	107.2	0.87	-0.43	-0.75	15.4	1.4	
18,022.0	92.00	359.30	12,330.8	5,112.9	106.4	1.04	-0.95	-0.42	14.0	1.5	
18,116.0	92.20	358.60	12,327.3	5,206.8	104.7	0.77	0.21	-0.74	13.2	2.5	
18,209.0	91.30	359.00	12,324.5	5,299.8	102.7	1.06	-0.97	0.43	12.9	3.8	
18,303.0	92.00	359.70	12,321.8	5,393.7	101.7	1.05	0.74	0.74	12.8	4.1	
18,397.0	90.60	359.30	12,319.6	5,487.7	100.9	1.55	-1.49	-0.43	13.3	4.2	
18,491.0	91.70	359.70	12,317.8	5,581.7	100.0	1.25	1.17	0.43	14.1	4.3	
18,585.0	89.70	359.10	12,316.6	5,675.7	99.1	2.22	-2.13	-0.64	15.6	4.6	
18,678.0	90.40	359.00	12,316.5	5,768.6	97.5	0.76	0.75	-0.11	18.1	5.4	
18,771.0	91.30	359.70	12,315.2	5,861.6	96.5	1.23	0.97	0.75	19.3	5.8	
18,864.0	91.00	359.50	12,313.3	5,954.6	95.8	0.39	-0.32	-0.22	20.0	5.7	
18,958.0	91.50	359.90	12,311.2	6,048.6	95.3	0.68	0.53	0.43	20.6	5.5	
19,051.0	92.20	0.30	12,308.2	6,141.5	95.5	0.87	0.75	0.43	20.2	4.6	
19,145.0	93.90	0.80	12,303.2	6,235.4	96.4	1.88	1.81	0.53	17.8	3.0	
19,239.0	93.70	0.60	12,297.0	6,329.2	97.5	0.30	-0.21	-0.21	14.2	1.2	
19,333.0	90.50	359.50	12,293.6	6,423.1	97.6	3.60	-3.40	-1.17	13.4	0.4	
19,426.0	90.40	359.80	12,282.8	6,516.1	97.0	0.34	-0.11	0.32	15.3	0.2	



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:	#704H	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)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,520.0	91.30	0.90	12,291.4	6,610.1	97.6	1.51	0.96	1.17	18.2	-1.0
19,613.0	92.10	0.70	12,288.7	6,703.0	98.9	0.89	0.86	-0.22	20.1	-3.0
19,707.0	97.80	2.60	12,280.6	6,796.6	101.6	6.39	6.06	2.02	16.7	-8.4
19,776.0	97.30	3.10	12,271.5	6,864.9	105.0	1.02	-0.72	0.72	11.0	-10.3
Last MWD Survey (MD = 19776.0)										
19,976.0	97.30	3.10	12,246.1	7,063.0	115.7	0.00	0.00	0.00	-4.4	-22.7
Projection to Bit (MD = 19976.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,990.0	11,912.9	-666.9	105.4	KOP 11990.0' MD; 11912.9' TVD; -666.9'; 105.4'; 0.72
12,157.2	12,074.1	-630.0	105.0	FTP Crossing 12157.2' MD; 12074.1' TVD; -630.0'; 105.0'; 28.63
19,776.0	12,271.5	6,864.9	105.0	Last MWD Survey (MD = 19776.0)
19,976.0	12,246.1	7,063.0	115.7	Projection to Bit (MD = 19976.0)

Checked By: _____ Approved By: _____ Date: _____