

HOBBS OCD

AUG 10 2018

RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Fox 30 Fed Com

#701H

OH

Design: OH

Midland PVA

02 May, 2018



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	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	Fox 30 Fed Com		
Site Position:		Northing:	401,193.00 usft
From:	Map	Easting:	797,271.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 0.947 N
		Longitude:	103° 30' 24.557 W
		Grid Convergence:	0.44 °

Well	#701H		
Well Position	+N/-S	0.0 usft	Northing: 401,193.00 usft
	+E/-W	0.0 usft	Easting: 797,236.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation: usft
			Latitude: 32° 6' 0.947 N
			Longitude: 103° 30' 24.964 W
			Ground Level: 3,323.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	3/20/2018	6.83
			Dip Angle (°)
			59.95
			Field Strength (nT)
			47,794,40791847

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 (°)
			181.78

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Databases:	EDM 5000.14

Survey Program		Date	5/2/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description		
297.0	952.0	Integrity MWD #1 (OH)	MWD	OWSG MWD - Standard		
1,171.0	20,110.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard		

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	BuId ("/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
297.0	1.30	120.90	297.0	-1.7	2.9	0.44	0.44	0.00	0.0	0.0
341.0	1.40	124.50	341.0	-2.3	3.8	0.30	0.23	8.18	0.0	0.0
472.0	1.40	172.70	471.9	-4.8	5.3	0.87	0.00	36.79	0.0	0.0
646.0	1.80	193.00	645.9	-9.6	4.9	0.40	0.23	11.67	0.0	0.0
734.0	1.60	200.70	733.8	-12.1	4.2	0.34	-0.23	8.75	0.0	0.0
777.0	2.10	194.30	776.8	-13.4	3.8	1.26	1.16	-14.88	0.0	0.0
865.0	2.60	195.40	864.7	-16.9	2.9	0.57	0.57	1.25	0.0	0.0
908.0	2.60	202.40	907.7	-18.7	2.2	0.74	0.00	16.28	0.0	0.0
952.0	2.90	199.80	951.6	-20.7	1.5	0.74	0.68	-5.91	0.0	0.0
1,171.0	4.10	208.40	1,170.2	-32.8	-4.1	0.60	0.55	3.93	0.0	0.0
1,258.0	4.50	246.00	1,257.0	-36.9	-8.7	3.21	0.46	43.22	0.0	0.0
1,389.0	2.90	264.40	1,387.7	-39.3	-16.7	1.51	-1.22	14.05	0.0	0.0
1,433.0	2.00	252.80	1,431.7	-39.6	-18.6	2.33	-2.05	-26.36	0.0	0.0
1,564.0	0.70	124.90	1,562.7	-40.8	-20.1	1.90	-0.99	-97.63	0.0	0.0
1,738.0	0.70	86.50	1,736.6	-41.3	-18.2	0.26	0.00	-22.07	0.0	0.0
1,913.0	0.60	71.10	1,911.6	-41.0	-16.2	0.11	-0.06	-8.80	0.0	0.0
2,087.0	1.10	331.70	2,085.6	-39.2	-16.2	0.77	0.29	-57.13	0.0	0.0
2,262.0	1.00	334.80	2,260.6	-36.3	-17.6	0.07	-0.06	1.77	0.0	0.0
2,436.0	1.60	339.20	2,434.5	-32.7	-19.1	0.35	0.34	2.53	0.0	0.0
2,611.0	1.60	342.10	2,609.5	-28.1	-20.7	0.05	0.00	1.66	0.0	0.0

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	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)	BuId (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,785.0	1.90	353.80	2,783.4	-22.9	-21.8	0.27	0.17	6.72	0.0	0.0
2,960.0	1.80	0.60	2,958.3	-17.3	-22.1	0.14	-0.06	3.89	0.0	0.0
3,135.0	1.80	0.30	3,133.2	-11.8	-22.0	0.01	0.00	-0.17	0.0	0.0
3,309.0	2.40	10.20	3,307.1	-5.5	-21.4	0.40	0.34	5.69	0.0	0.0
3,483.0	2.40	101.90	3,481.0	-2.6	-17.2	1.98	0.00	52.70	0.0	0.0
3,658.0	0.60	86.00	3,655.9	-3.3	-12.7	1.05	-1.03	-9.09	0.0	0.0
3,832.0	0.30	62.20	3,829.9	-3.0	-11.3	0.20	-0.17	-13.68	0.0	0.0
4,007.0	2.10	338.00	4,004.9	0.1	-12.1	1.19	1.03	-48.11	0.0	0.0
4,181.0	2.10	320.60	4,178.8	5.6	-15.4	0.37	0.00	-10.00	0.0	0.0
4,356.0	2.10	312.40	4,353.6	10.2	-19.8	0.17	0.00	-4.69	0.0	0.0
4,530.0	1.80	333.00	4,527.5	14.8	-23.4	0.44	-0.17	11.84	0.0	0.0
4,705.0	1.30	337.70	4,702.5	19.1	-25.4	0.29	-0.29	2.69	0.0	0.0
4,836.0	0.10	357.10	4,833.5	20.6	-25.9	0.92	-0.92	14.81	0.0	0.0
4,923.0	0.60	129.80	4,920.5	20.4	-25.6	0.77	0.57	152.53	0.0	0.0
5,123.0	1.20	162.80	5,120.4	17.7	-24.2	0.38	0.30	16.50	0.0	0.0
5,218.0	1.30	155.80	5,215.4	15.7	-23.4	0.19	0.11	-7.37	-0.1	0.1
5,375.0	4.70	352.40	5,372.3	20.5	-23.5	3.79	2.17	-104.08	-6.4	-0.8
5,563.0	8.90	343.20	5,558.9	42.1	-28.8	2.30	2.23	-4.89	-20.2	-6.5
5,750.0	12.20	331.80	5,742.7	73.3	-42.3	2.08	1.76	-6.10	-31.8	-16.0
5,937.0	13.10	328.20	5,925.2	108.8	-62.8	0.64	0.48	-1.93	-38.6	-20.8
6,124.0	12.20	326.80	6,107.7	143.3	-84.8	0.51	-0.48	-0.75	-34.7	-23.0
6,312.0	11.70	329.40	6,291.6	176.3	-105.4	0.39	-0.27	1.38	-27.7	-23.3
6,500.0	13.10	330.70	6,475.2	211.3	-125.5	0.76	0.74	0.69	-21.9	-26.2
6,685.0	13.00	329.50	6,655.4	247.5	-146.3	0.16	-0.05	-0.65	-17.1	-29.9
6,872.0	13.30	327.40	6,837.5	283.8	-168.6	0.30	0.16	-1.12	-12.0	-32.5
7,060.0	13.20	325.40	7,020.5	319.7	-192.4	0.25	-0.05	-1.06	-7.2	-33.2
7,247.0	12.50	323.40	7,202.8	353.5	-216.6	0.44	-0.37	-1.07	-1.3	-32.1

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	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)
7,435.0	8.10	299.80	7,387.8	376.4	-240.3	3.20	-2.34	-12.55	14.0	-21.3
7,623.0	4.00	293.30	7,574.8	385.6	-257.8	2.21	-2.18	-3.46	18.5	-7.1
7,811.0	2.70	276.50	7,762.4	388.7	-268.2	0.86	-0.69	-8.94	18.0	7.1
7,999.0	2.50	268.90	7,950.2	389.1	-276.7	0.21	-0.11	-4.04	9.6	10.8
8,187.0	2.00	263.30	8,138.1	388.7	-284.1	0.29	-0.27	-2.98	1.1	11.2
8,374.0	0.70	313.40	8,325.0	389.1	-288.1	0.88	-0.70	26.79	6.1	8.8
8,560.0	0.60	307.20	8,511.0	390.4	-289.7	0.07	-0.05	-3.33	3.0	9.3
8,747.0	0.50	284.40	8,698.0	391.2	-291.3	0.13	-0.05	-12.19	-2.5	9.4
8,935.0	0.60	275.10	8,886.0	391.5	-293.1	0.07	0.05	-4.95	-5.8	8.7
9,122.0	0.80	277.40	9,073.0	391.8	-295.3	0.11	0.11	1.23	-7.7	9.0
9,310.0	0.80	269.10	9,261.0	391.9	-298.0	0.06	0.00	-4.41	-11.6	7.6
9,499.0	1.10	272.60	9,450.0	392.0	-301.1	0.16	0.16	1.85	-14.2	8.4
9,687.0	1.80	287.10	9,637.9	392.9	-305.7	0.42	0.37	7.71	-16.4	12.1
9,875.0	2.10	3.80	9,825.8	397.3	-308.3	1.29	0.16	40.80	3.9	21.6
10,062.0	0.80	347.00	10,012.7	401.9	-308.4	0.72	-0.70	-8.98	-7.1	20.8
10,248.0	1.00	282.80	10,198.7	403.6	-310.2	0.52	0.11	-34.52	-24.0	1.5
10,435.0	1.70	246.00	10,385.7	402.8	-314.4	0.58	0.37	-19.68	-24.2	-14.2
10,623.0	0.60	55.60	10,573.7	402.2	-316.1	1.22	-0.59	90.21	23.0	18.8
10,809.0	1.30	351.30	10,759.6	404.9	-315.6	0.63	0.38	-34.57	-9.5	28.0
10,997.0	2.20	74.20	10,947.6	407.9	-312.5	1.28	0.48	44.10	22.7	15.0
11,185.0	1.50	69.50	11,135.5	409.8	-306.7	0.38	-0.37	-2.50	15.4	16.5
11,372.0	1.10	24.90	11,322.4	412.3	-303.6	0.56	-0.21	-23.85	-4.2	20.9
11,560.0	2.60	71.10	11,510.3	415.3	-298.9	1.07	0.80	24.57	6.6	18.8
11,748.0	1.10	45.40	11,698.2	417.9	-293.5	0.89	-0.80	-13.67	-7.8	17.9
11,875.0	0.80	16.80	11,825.2	419.6	-292.4	0.43	-0.24	-22.52	-17.4	11.4
12,041.0	0.80	17.70	11,991.2	421.9	-291.7	0.01	0.00	0.54	-19.5	11.7
12,135.0	0.70	41.50	12,085.2	422.9	-291.1	0.35	-0.11	25.32	-14.3	18.9

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	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)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,182.0	2.80	172.60	12,132.2	422.0	-290.8	7.03	4.47	278.94	24.9	-1.1
12,229.0	10.60	183.00	12,178.8	416.5	-290.9	16.73	16.60	22.13	25.5	-5.8
12,276.0	19.60	179.40	12,224.1	404.3	-291.0	19.24	19.15	-7.66	24.4	-4.4
12,323.0	25.00	180.50	12,267.6	386.5	-291.0	11.52	11.49	2.34	21.5	-5.0
12,370.0	28.00	179.60	12,309.7	365.5	-291.0	6.44	6.38	-1.91	19.7	-4.8
12,417.0	30.50	173.70	12,350.7	342.6	-289.7	8.11	5.32	-12.55	20.3	-1.9
12,464.0	36.50	178.00	12,389.9	316.8	-287.9	13.72	12.77	9.15	21.4	-1.6
12,511.0	41.20	180.80	12,426.5	287.3	-287.6	10.67	10.00	5.96	22.6	-2.4
12,558.0	41.40	181.70	12,461.8	256.3	-288.3	1.33	0.43	1.91	26.3	-3.6
12,605.0	44.10	185.40	12,496.3	224.5	-290.3	7.84	5.74	7.87	32.9	-7.3
12,652.0	50.90	185.20	12,528.0	190.0	-293.5	14.47	14.47	-0.43	40.0	-10.8
12,699.0	58.00	185.60	12,555.3	151.9	-297.1	15.12	15.11	0.85	45.7	-14.8
12,736.8	64.51	182.66	12,573.5	118.9	-299.4	18.51	17.22	-7.77	49.2	-16.2
FTP Crossing 12736.8' MD; 12573.5' TVD; 118.9°; -299.4°; 64.51										
12,746.0	66.10	182.00	12,577.3	110.5	-299.8	18.51	17.31	-7.22	49.8	-16.4
12,793.0	72.80	180.80	12,593.8	66.6	-300.8	14.45	14.26	-2.55	51.8	-17.3
12,843.0	77.90	175.80	12,606.5	18.3	-299.4	14.06	10.20	-10.00	53.4	-15.3
12,886.0	83.20	176.10	12,613.5	-24.0	-296.4	12.34	12.33	0.70	54.3	-13.0
12,933.0	87.50	176.80	12,617.3	-70.8	-293.5	9.27	9.15	1.49	55.3	-10.7
12,980.0	89.00	176.80	12,618.8	-117.7	-290.9	3.19	3.19	0.00	56.4	-8.5
12,991.0	89.10	176.20	12,619.0	-128.7	-290.2	5.53	0.91	-5.45	56.4	-7.9
13,085.0	89.90	176.80	12,619.8	-222.5	-284.4	1.06	0.85	0.64	56.4	-3.0
13,179.0	90.20	175.00	12,619.7	-316.2	-277.7	1.94	0.32	-1.91	55.5	3.0
13,273.0	91.50	177.10	12,618.3	-410.0	-271.2	2.63	1.38	2.23	53.3	8.7
13,367.0	90.60	178.70	12,616.6	-503.9	-287.8	1.95	-0.96	1.70	50.7	11.4
13,460.0	90.50	178.50	12,615.7	-596.9	-265.5	0.24	-0.11	-0.22	49.0	12.9
13,554.0	89.10	180.70	12,616.0	-690.9	-264.9	2.77	-1.49	2.34	48.5	12.8

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	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)	
13,647.0	91.10	181.00	12,615.9	-783.9	-266.3	2.17	2.15	0.32	47.5	10.6	
13,741.0	91.70	180.90	12,613.6	-877.8	-267.8	0.65	0.64	-0.11	44.4	8.3	
13,835.0	90.90	178.70	12,611.4	-971.8	-267.5	2.49	-0.85	-2.34	41.4	7.9	
13,929.0	89.70	180.10	12,610.9	-1,065.8	-266.5	1.96	-1.28	1.49	40.1	8.1	
14,022.0	85.80	179.70	12,614.6	-1,158.7	-266.3	4.22	-4.19	-0.43	43.0	7.5	
14,116.0	85.70	180.20	12,621.6	-1,252.4	-266.3	0.54	-0.11	0.53	49.1	6.9	
14,210.0	86.60	178.40	12,627.9	-1,346.2	-265.1	2.14	0.96	-1.91	54.6	7.3	
14,305.0	87.80	177.80	12,632.5	-1,441.0	-262.0	1.41	1.26	-0.63	58.4	9.6	
14,399.0	91.60	176.50	12,633.0	-1,534.9	-257.3	4.27	4.04	-1.38	58.0	13.5	
14,493.0	92.26	177.60	12,629.8	-1,628.7	-252.5	1.36	0.70	1.17	54.0	17.6	
14,587.0	92.04	177.16	12,626.3	-1,722.6	-248.2	0.52	-0.23	-0.47	49.7	21.1	
14,681.0	89.19	178.74	12,625.3	-1,816.5	-244.8	3.47	-3.03	1.68	47.8	23.7	
14,774.0	88.57	180.15	12,627.1	-1,909.4	-243.9	1.66	-0.67	1.52	48.9	23.9	
14,868.0	89.10	179.62	12,629.0	-2,003.4	-243.7	0.80	0.56	-0.56	49.9	23.3	
14,962.0	89.54	181.20	12,630.1	-2,097.4	-244.4	1.74	0.47	1.68	50.1	21.9	
15,056.0	84.97	182.26	12,634.6	-2,191.2	-247.2	4.99	-4.86	1.13	53.7	18.3	
15,150.0	86.95	179.80	12,641.3	-2,285.0	-248.9	3.35	2.11	-2.62	59.3	15.9	
15,244.0	93.49	180.68	12,640.9	-2,378.9	-249.3	7.02	6.96	0.94	58.0	14.7	
15,264.0	93.63	179.70	12,639.7	-2,398.9	-249.4	4.94	0.70	-4.90	56.6	14.5	
15,338.0	89.89	180.59	12,637.4	-2,472.8	-249.5	5.20	-5.05	1.20	53.6	13.7	
15,431.0	90.20	180.90	12,637.3	-2,566.8	-250.8	0.47	0.33	0.33	52.6	11.7	
15,524.0	87.90	181.60	12,638.9	-2,658.8	-252.8	2.59	-2.47	0.75	53.2	9.0	
15,618.0	91.30	180.80	12,639.5	-2,752.7	-254.8	3.72	3.62	-0.85	52.9	6.3	
15,711.0	88.60	180.10	12,639.6	-2,845.7	-255.5	3.00	-2.90	-0.75	52.1	4.8	
15,805.0	88.20	178.40	12,642.2	-2,939.7	-254.3	1.86	-0.43	-1.81	53.8	5.3	
15,898.0	89.30	178.00	12,644.3	-3,032.6	-251.3	1.26	1.18	-0.43	54.9	7.5	
15,992.0	89.20	178.00	12,645.5	-3,126.6	-248.1	0.11	-0.11	0.00	55.1	10.0	

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	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)
16,086.0	90.20	174.40	12,646.0	-3,220.3	-241.8	3.97	1.06	-3.83	54.7	15.5
16,170.0	91.80	176.70	12,644.5	-3,304.1	-235.3	3.34	1.90	2.74	52.4	21.3
16,261.0	93.20	179.50	12,640.5	-3,394.9	-232.3	3.44	1.54	3.08	47.5	23.6
16,286.0	93.40	180.60	12,639.1	-3,419.9	-232.3	4.46	0.80	4.40	45.8	23.4
16,354.0	92.70	179.40	12,635.5	-3,487.8	-232.3	2.04	-1.03	-1.76	41.5	22.9
16,417.0	92.80	179.30	12,632.5	-3,550.7	-231.6	0.22	0.16	-0.16	37.9	23.1
16,448.0	89.20	180.00	12,631.9	-3,581.7	-231.4	11.83	-11.61	2.26	37.0	23.0
16,471.0	89.20	179.80	12,632.2	-3,604.7	-231.4	0.87	0.00	-0.87	37.1	22.8
16,542.0	90.20	179.90	12,632.6	-3,675.7	-231.2	1.42	1.41	0.14	36.8	22.5
16,636.0	87.20	181.20	12,634.7	-3,769.6	-232.1	3.48	-3.19	1.38	38.0	20.8
16,731.0	87.60	181.60	12,639.1	-3,864.5	-234.4	0.60	0.42	0.42	41.4	17.7
16,825.0	88.00	182.40	12,642.7	-3,958.4	-237.7	0.95	0.43	0.85	44.0	13.7
16,918.0	88.80	180.90	12,645.3	-4,051.3	-240.4	1.83	0.86	-1.61	45.6	10.3
17,012.0	89.80	180.80	12,646.4	-4,145.3	-241.8	1.07	1.06	-0.11	45.7	8.1
17,106.0	90.00	181.10	12,646.6	-4,239.3	-243.3	0.38	0.21	0.32	44.8	5.8
17,201.0	90.70	181.70	12,646.0	-4,334.2	-245.6	0.97	0.74	0.63	43.1	2.7
17,295.0	90.60	178.60	12,644.9	-4,428.2	-245.9	3.30	-0.11	-3.30	40.9	1.7
17,388.0	88.60	176.60	12,645.6	-4,521.1	-242.0	3.04	-2.15	-2.15	40.5	4.9
17,482.0	89.70	178.00	12,647.0	-4,615.0	-237.6	1.89	1.17	1.49	40.8	8.6
17,575.0	90.10	177.80	12,647.1	-4,707.9	-234.1	0.48	0.43	-0.22	39.9	11.2
17,669.0	91.30	180.80	12,646.0	-4,801.9	-233.0	3.44	1.28	3.19	37.7	11.6
17,763.0	89.20	180.70	12,645.6	-4,895.9	-234.2	2.24	-2.23	-0.11	36.2	9.6
17,857.0	89.50	180.80	12,646.6	-4,989.9	-235.5	0.34	0.32	0.11	36.2	7.6
17,950.0	90.40	181.80	12,646.7	-5,082.9	-237.6	1.45	0.97	1.08	35.2	4.8
18,043.0	88.80	181.40	12,647.4	-5,175.8	-240.2	1.77	-1.72	-0.43	34.8	1.4
18,137.0	88.20	181.70	12,649.8	-5,269.8	-242.7	0.71	-0.64	0.32	36.2	-1.9
18,232.0	90.40	183.40	12,651.0	-5,364.6	-246.9	2.93	2.32	1.79	36.2	-6.9

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	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)	OLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,326.0	86.90	180.20	12,653.2	-5,458.5	-249.9	5.04	-3.72	-3.40	37.4	-10.6
18,420.0	90.70	179.20	12,655.2	-5,552.5	-249.4	4.18	4.04	-1.06	38.3	-10.8
18,513.0	90.20	177.60	12,654.4	-5,645.5	-246.8	1.80	-0.54	-1.72	36.5	-9.0
18,607.0	90.10	177.00	12,654.2	-5,739.4	-242.4	0.65	-0.11	-0.64	35.1	-5.3
18,700.0	89.90	176.90	12,654.2	-5,832.2	-237.4	0.24	-0.22	-0.11	34.1	-1.1
18,794.0	88.50	177.40	12,655.5	-5,926.1	-232.7	1.58	-1.49	0.53	34.3	2.8
18,888.0	89.70	178.00	12,657.0	-6,020.0	-229.0	1.43	1.28	0.64	34.7	5.8
18,981.0	89.30	178.10	12,657.8	-6,112.9	-225.8	0.44	-0.43	0.11	34.2	8.3
19,075.0	92.00	178.10	12,656.7	-6,206.9	-222.7	2.87	2.87	0.00	31.8	10.6
19,169.0	87.80	176.50	12,656.9	-6,300.7	-218.3	4.78	-4.47	-1.70	30.7	14.3
19,262.0	94.60	180.80	12,654.9	-6,393.6	-216.1	8.65	7.31	4.62	27.5	15.8
19,356.0	89.00	180.70	12,652.0	-6,487.5	-217.3	5.96	-5.96	-0.11	23.3	13.7
19,449.0	92.40	182.90	12,650.9	-6,580.5	-220.2	4.35	3.66	2.37	20.9	10.1
19,518.0	89.60	182.60	12,649.7	-6,649.4	-223.5	4.08	-4.06	-0.43	18.7	6.2
19,544.0	89.40	183.20	12,649.9	-6,675.3	-224.9	2.43	-0.77	2.31	18.6	4.7
19,638.0	88.70	181.60	12,651.4	-6,769.2	-228.8	1.86	-0.74	-1.70	18.9	0.0
19,731.0	89.40	180.50	12,653.0	-6,862.2	-230.5	1.40	0.75	-1.18	19.2	-2.4
19,825.0	89.20	182.10	12,654.1	-6,956.2	-232.6	1.72	-0.21	1.70	19.0	-5.3
19,919.0	89.30	181.00	12,655.4	-7,050.1	-235.2	1.17	0.11	-1.17	19.0	-8.6
20,010.8	89.79	181.59	12,656.1	-7,141.9	-237.2	0.84	0.54	0.65	18.4	-11.4
LTP Crossing 20010.8' MD; 12656.1' TVD; -7141.9'; -237.2'; 89.79										
20,012.0	89.80	181.60	12,656.1	-7,143.1	-237.3	0.84	0.54	0.65	18.4	-11.5
20,056.0	90.10	182.40	12,656.1	-7,187.1	-238.8	1.94	0.68	1.82	17.9	-13.4
Last MWD Survey (MD = 20056.0)										
20,110.0	90.10	182.40	12,656.0	-7,241.0	-241.1	0.00	0.00	0.00	17.1	-16.1
Projection to BR (MD = 20110.0)										

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25 @ 3348.0usft (H&P 610)
Well:	#701H	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)	
12,736.8	12,573.5	118.9	-299.4	FTP Crossing 12736.8' MD; 12573.5' TVD; 118.9'; -299.4'; 64.51
20,010.8	12,656.1	-7,141.9	-237.2	LTP Crossing 20010.8' MD; 12656.1' TVD; -7141.9'; -237.2'; 89.79
20,056.0	12,656.1	-7,187.1	-238.8	Last MWD Survey (MD = 20056.0)
20,110.0	12,656.0	-7,241.0	-241.1	Projection to Bit (MD = 20110.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Fox 30 Fed Com #701H

H&P 610

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: #701H

KB = 25 @ 3348.0usft (H&P #10) 3323.0
Northing 401193.00 Easting 797236.00 Latitude 32° 6' 0.947 N Longitude 103° 30' 24.964 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSec	Target
1	5123.0	1.20	162.80	5120.5	17.7	-24.2	0.00	0.00	-16.9	
2	5277.0	1.20	162.80	5274.4	14.6	-23.2	0.00	0.00	-13.9	
3	6053.9	14.39	325.93	6043.8	87.2	-75.2	2.00	164.39	-84.8	
4	7210.6	14.39	325.93	7164.2	325.3	-236.2	0.00	0.00	-317.8	
5	7929.9	0.00	0.00	7876.0	399.7	-286.5	2.00	180.00	-390.6	
6	12138.5	0.00	0.00	12084.6	399.7	-286.5	0.00	0.00	-390.6	
7	12884.3	89.49	179.54	12562.0	-73.5	-282.7	12.00	179.54	82.3	KOP (Fox 30 Fed Com #701H)
8	14803.6	89.49	179.54	12579.0	-1992.7	-267.1	0.00	0.00	2000.0	TGT#1 (Fox 30 Fed Com #701H)
9	14807.0	89.43	179.54	12579.0	-1998.0	-267.1	2.00	174.35	2003.4	
10	16805.2	89.43	179.54	12599.0	-3994.1	-251.1	0.00	0.00	4000.0	TGT#2 (Fox 30 Fed Com #701H)
11	16809.5	89.34	179.54	12599.0	-3998.4	-251.1	2.00	-178.10	4004.3	
12	18806.9	89.34	179.54	12622.0	-5995.6	-235.0	0.00	0.00	6000.0	TGT#3 (Fox 30 Fed Com #701H)
13	18813.0	89.22	179.54	12622.1	-6001.8	-235.0	2.00	179.44	6006.2	
14	20053.4	89.22	179.54	12639.0	-7242.0	-225.0	0.00	0.00	7245.5	PBHL (Fox 30 Fed Com #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Fox 30 Fed Com #701H)	12084.6	399.7	-286.5	401193.00	796949.30
TGT#1 (Fox 30 Fed Com #701H)	12562.0	118.6	-285.0	401112.00	796991.00
TGT#2 (Fox 30 Fed Com #701H)	12579.0	-1992.7	-267.1	399206.30	796968.90
TGT#3 (Fox 30 Fed Com #701H)	12599.0	-3994.1	-251.1	397198.90	796984.90
PBHL (Fox 30 Fed Com #701H)	12639.0	-7242.0	-225.0	393951.00	797001.00

