



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

#701H

OH

Design: OH

Midland PVA

09 June, 2018





Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3374.0usft (H&P 642)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3374.0usft (H&P 642)
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	Streetcar 15 Fed		
Site Position:		Northing:	409,714.00 usft
From:	Map	Easting:	782,680.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 26.337 N
		Longitude:	103° 33' 13.460 W
		Grid Convergence:	0.41 °

Well	#701H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	9/7/2017	6.91
			Dip Angle
			(°)
			Field Strength
			(nT)

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
			(°)

Survey Program	Date 6/9/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
238.0	17,242.0	Lean MWD (OH)	MWD
			Description
			OWSG MWD - Standard



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3374.0usft (H&P 642)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3374.0usft (H&P 642)
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)	OLeg (°/100usft)	Bufile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
238.0	0.10	93.50	238.0	0.0	0.2	0.04	0.04	0.00	-0.2	0.0	
328.0	0.40	322.40	328.0	0.2	0.1	0.52	0.33	-145.67	-0.1	-0.2	
403.0	0.70	58.70	403.0	0.7	0.3	1.12	0.40	128.40	-0.6	0.4	
493.0	1.10	43.90	493.0	1.6	1.4	0.51	0.44	-16.44	-2.1	0.1	
581.0	1.80	55.20	581.0	3.0	3.1	0.86	0.80	12.84	-4.3	0.7	
678.0	1.50	61.90	677.9	4.4	5.5	0.37	-0.31	6.91	-6.9	1.3	
771.0	1.60	60.60	770.9	5.7	7.7	0.11	0.11	-1.40	-9.5	1.2	
863.0	1.80	54.30	862.8	7.1	10.0	0.30	0.22	-6.85	-12.3	0.0	
956.0	1.30	6.00	955.8	9.0	11.3	1.45	-0.54	-51.94	-10.2	-10.3	
1,048.0	1.80	13.40	1,047.8	11.5	11.7	0.58	0.54	8.04	-13.9	-8.7	
1,141.0	2.00	3.30	1,140.7	14.5	12.2	0.42	0.22	-10.86	-15.2	-11.3	
1,176.0	2.10	7.40	1,175.7	15.8	12.3	0.51	0.29	11.71	-17.2	-10.1	
1,241.0	2.10	357.50	1,240.7	18.1	12.4	0.56	0.00	-15.23	-17.6	-13.2	
1,335.0	2.20	358.20	1,334.6	21.7	12.2	0.11	0.11	0.74	-21.3	-12.9	
1,428.0	0.10	116.70	1,427.6	23.4	12.3	2.42	-2.26	127.42	-0.4	26.4	
1,520.0	1.30	162.60	1,519.6	22.4	12.6	1.34	1.30	49.89	17.6	18.8	
1,614.0	1.80	147.70	1,613.5	20.1	13.8	0.68	0.53	-15.85	9.6	22.4	
1,708.0	1.80	141.10	1,707.5	17.7	15.5	0.22	0.00	-7.02	4.1	23.2	
1,802.0	2.00	129.40	1,801.4	15.5	17.7	0.46	0.21	-12.45	-3.8	23.2	
1,895.0	2.20	125.90	1,894.4	13.4	20.4	0.26	0.22	-3.76	-8.6	22.8	
1,988.0	0.30	100.20	1,987.3	12.4	22.0	2.08	-2.04	-27.63	-19.5	16.1	
2,081.0	0.40	335.70	2,080.3	12.6	22.2	0.67	0.11	-133.87	-2.4	-25.4	
2,175.0	0.90	26.90	2,174.3	13.6	22.4	0.77	0.53	54.47	-22.2	-13.8	
2,269.0	1.30	48.20	2,268.3	14.9	23.5	0.60	0.43	22.66	-27.5	-4.5	
2,363.0	1.00	145.20	2,362.3	15.0	24.7	1.84	-0.32	103.19	-1.8	28.9	
2,457.0	1.00	160.30	2,456.3	13.5	25.5	0.28	0.00	16.06	4.1	28.6	



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3374.0usft (H&P 642)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3374.0usft (H&P 642)
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)	EAW (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,551.0	1.60	133.60	2,550.3	11.9	26.7	0.89	0.64	-28.40	-11.2	27.0	
2,644.0	1.00	155.60	2,643.2	10.2	28.0	0.83	-0.65	23.66	-2.3	29.7	
2,737.0	0.70	178.10	2,736.2	8.9	28.3	0.48	-0.32	24.19	8.0	28.6	
2,831.0	1.00	115.50	2,830.2	8.0	29.1	0.98	0.32	-66.60	-22.8	19.7	
2,924.0	1.10	8.10	2,923.2	8.5	30.0	1.82	0.11	-115.48	-12.7	-28.5	
3,017.0	2.00	351.00	3,016.2	11.0	29.8	1.08	0.97	-18.39	-6.2	-31.2	
3,110.0	2.00	16.50	3,109.1	14.2	30.0	0.95	0.00	27.42	-22.1	-24.8	
3,204.0	0.50	10.70	3,203.1	16.1	30.6	1.60	-1.60	-6.17	-21.5	-27.1	
3,299.0	1.80	220.40	3,298.1	15.4	29.7	2.37	1.37	-158.21	31.0	12.6	
3,393.0	1.80	224.30	3,392.0	13.2	27.7	0.13	0.00	4.15	28.8	10.6	
3,487.0	1.50	216.90	3,486.0	11.2	25.9	0.39	-0.32	-7.87	24.5	14.0	
3,581.0	1.10	209.20	3,580.0	9.4	24.8	0.46	-0.43	-8.19	20.3	17.0	
3,674.0	1.00	196.50	3,673.0	7.9	24.1	0.27	-0.11	-13.66	14.4	20.9	
3,768.0	0.90	186.00	3,767.0	6.3	23.8	0.21	-0.11	-11.17	8.8	23.0	
3,862.0	0.80	145.90	3,860.9	5.1	24.1	0.63	-0.11	-42.66	-9.3	22.8	
3,956.0	1.00	128.80	3,954.9	4.0	25.1	0.35	0.21	-18.19	-17.0	18.8	
4,049.0	1.40	113.00	4,047.9	3.1	26.8	0.55	0.43	-16.99	-23.4	13.3	
4,143.0	0.90	204.30	4,141.9	1.9	27.5	1.79	-0.53	97.13	13.1	24.3	
4,237.0	0.90	225.20	4,235.9	0.7	26.7	0.35	0.00	22.23	19.5	18.3	
4,331.0	0.80	155.60	4,329.9	-0.4	26.4	1.04	-0.11	-74.04	-11.3	23.9	
4,425.0	1.10	133.60	4,423.9	-1.6	27.4	0.50	0.32	-23.40	-20.9	17.7	
4,520.0	1.40	122.70	4,518.8	-2.9	29.0	0.40	0.32	-11.47	-25.9	13.3	
4,613.0	0.40	60.30	4,611.8	-3.3	30.2	1.36	-1.08	-67.10	-24.6	-17.9	
4,707.0	0.40	56.80	4,705.8	-3.0	30.8	0.03	0.00	-3.72	-24.1	-19.3	
4,801.0	0.90	106.30	4,799.8	-3.0	31.8	0.75	0.53	52.66	-31.3	6.0	
4,893.0	0.90	104.40	4,891.8	-3.4	33.2	0.03	0.00	-2.07	-33.0	5.0	
4,967.0	1.10	110.60	4,965.8	-3.8	34.4	0.31	0.27	8.38	-33.4	9.3	



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3374.0ust (H&P 642)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3374.0ust (H&P 642)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (ust)	Inc (°)	Azi (azimuth) (°)	TVD (ust)	N/S (ust)	E/W (ust)	D Leg (°/100ust)	Build (°/100ust)	Turn (°/100ust)	High to Plan (ust)	Right to Plan (ust)	
5,061.0	2.20	173.00	5,059.8	-5.9	35.5	2.08	1.17	66.38	-5.9	35.8	
5,155.0	4.80	203.20	5,153.6	-11.3	34.1	3.30	2.77	32.13	13.9	33.3	
5,249.0	5.40	205.00	5,247.2	-18.9	30.7	0.66	0.64	1.91	13.8	31.1	
5,343.0	5.00	207.90	5,340.8	-26.5	26.9	0.51	-0.43	3.09	14.0	28.3	
5,437.0	4.70	208.80	5,434.5	-33.5	23.2	0.33	-0.32	0.96	13.5	25.8	
5,531.0	4.70	208.80	5,528.2	-40.3	19.5	0.02	0.00	-0.21	12.9	23.5	
5,624.0	6.10	208.50	5,620.8	-48.0	15.3	1.51	1.51	-0.11	11.1	21.2	
5,718.0	5.80	208.80	5,714.3	-56.5	10.6	0.32	-0.32	0.11	8.5	18.8	
5,812.0	6.00	208.80	5,807.8	-65.0	6.0	0.21	0.21	0.21	5.9	16.4	
5,906.0	5.80	205.00	5,901.3	-73.6	1.6	0.47	-0.21	-4.04	2.4	14.6	
6,000.0	5.40	205.50	5,994.8	-81.9	-2.3	0.43	-0.43	0.53	0.6	12.6	
6,094.0	6.20	207.10	6,088.3	-90.4	-6.5	0.87	0.85	1.70	-1.4	10.6	
6,188.0	6.80	202.50	6,181.7	-100.1	-11.0	0.84	0.64	-4.89	-5.6	8.4	
6,282.0	6.40	204.80	6,275.1	-110.0	-15.3	0.51	-0.43	2.45	-8.8	7.0	
6,376.0	6.20	204.60	6,368.5	-119.4	-19.6	0.21	-0.21	-0.21	-11.9	5.1	
6,470.0	6.10	204.60	6,462.0	-128.5	-23.8	0.11	-0.11	0.00	-14.7	3.3	
6,564.0	5.80	203.60	6,555.5	-137.4	-27.8	0.34	-0.32	-1.06	-17.3	1.2	
6,658.0	5.90	201.80	6,649.0	-146.3	-31.5	0.24	0.11	-2.13	-19.6	-1.0	
6,752.0	6.10	201.10	6,742.5	-155.4	-35.0	0.22	0.21	-0.53	-22.0	-2.7	
6,845.0	4.70	177.50	6,835.1	-163.8	-36.7	2.79	-1.51	-25.38	-20.3	-11.6	
6,938.0	4.50	171.90	6,927.8	-171.2	-36.0	0.53	-0.22	-6.02	-19.5	-11.5	
7,032.0	4.20	175.80	7,021.5	-178.3	-35.2	0.45	-0.32	4.15	-20.1	-8.1	
7,126.0	2.70	206.40	7,115.3	-183.7	-35.9	2.47	-1.60	32.55	-19.4	2.9	
7,219.0	2.60	206.40	7,208.2	-187.6	-37.8	0.11	-0.11	0.00	-16.6	0.9	
7,312.0	2.60	203.70	7,301.2	-191.4	-39.6	0.13	0.00	-2.90	-13.6	-1.7	
7,406.0	1.10	198.10	7,395.1	-194.2	-40.8	1.61	-1.60	-5.96	-9.0	-4.3	
7,500.0	0.60	232.70	7,489.1	-195.4	-41.4	0.74	-0.53	36.81	-5.9	-2.6	



Midland PVA



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3374.0usft (H&P 642)
MD Reference: KB = 25' @ 3374.0usft (H&P 642)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
7,594.0	0.80	232.60	7,583.1	-196.1	-42.4	0.21	0.21	-0.11	-4.0	-5.4	
7,688.0	0.80	246.10	7,677.1	-196.7	-43.5	0.20	0.00	14.36	-5.8	-5.0	
7,781.0	1.20	246.60	7,770.1	-197.4	-45.0	0.43	0.43	2.69	-7.7	-4.8	
7,875.0	1.50	254.00	7,864.0	-198.1	-47.1	0.35	0.32	5.74	-10.3	-3.9	
7,968.0	1.50	242.20	7,957.0	-199.0	-49.3	0.33	0.00	-12.69	-11.7	-6.2	
8,062.0	1.70	237.80	8,051.0	-200.3	-51.6	0.25	0.21	-4.68	-13.8	-7.2	
8,156.0	0.40	311.00	8,144.9	-200.8	-53.0	1.73	-1.38	77.87	-11.6	12.5	
8,250.0	0.50	27.10	8,238.9	-200.2	-53.1	0.60	0.11	80.96	8.8	14.5	
8,344.0	0.60	5.10	8,332.9	-199.4	-52.8	0.25	0.11	-23.40	1.9	16.6	
8,438.0	0.50	343.60	8,426.9	-198.5	-52.9	0.24	-0.11	-22.87	-5.2	16.0	
8,531.0	0.40	298.50	8,519.9	-197.9	-53.3	0.38	-0.11	-48.49	-15.6	7.3	
8,625.0	0.30	241.50	8,613.9	-197.9	-53.8	0.37	-0.11	-60.64	-15.1	-8.4	
8,718.0	0.40	240.60	8,706.9	-198.2	-54.3	0.11	0.11	-0.97	-15.5	-9.6	
8,812.0	0.40	235.90	8,800.9	-198.5	-54.9	0.03	0.00	-5.00	-15.3	-10.9	
8,905.0	0.80	244.30	8,893.9	-199.0	-55.7	0.44	0.43	9.03	-17.7	-8.5	
8,999.0	0.80	276.30	8,987.9	-199.2	-57.0	0.47	0.00	34.04	-20.7	2.5	
9,094.0	0.90	280.40	9,082.9	-199.0	-58.4	0.12	0.11	4.32	-21.9	4.0	
9,188.0	1.20	273.00	9,176.9	-198.8	-60.1	0.35	0.32	-7.87	-24.0	1.1	
9,282.0	1.40	299.00	9,270.9	-198.2	-62.1	0.66	0.21	27.66	-23.1	11.9	
9,375.0	1.70	302.20	9,363.8	-196.9	-64.2	0.34	0.32	3.44	-24.9	13.2	
9,469.0	3.30	331.30	9,457.7	-193.8	-66.7	2.12	1.70	30.96	-19.2	24.4	
9,563.0	0.40	326.40	9,551.7	-191.2	-68.2	3.09	-3.09	-5.21	-24.3	22.4	
9,656.0	0.70	3.90	9,644.7	-190.3	-68.3	0.49	0.32	40.33	-6.5	32.7	
9,750.0	0.90	347.30	9,738.7	-189.0	-68.4	0.32	0.21	-17.66	-16.8	29.4	
9,844.0	0.40	297.40	9,832.6	-188.1	-68.9	0.76	-0.53	-53.09	-34.1	5.5	
9,938.0	0.40	234.80	9,926.6	-188.2	-69.5	0.44	0.00	-66.60	-21.0	-28.1	
10,032.0	0.90	191.80	10,020.6	-189.1	-69.9	0.71	0.53	-45.74	2.8	-35.1	



Midland PVA



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #701H
KB = 25' @ 3374.0usft (H&P 642)
KB = 25' @ 3374.0usft (H&P 642)
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)	
10,125.0	2.00	161.70	10,113.6	-191.4	-69.5	1.40	1.18	-32.37	17.7	-29.3	
10,218.0	2.40	155.60	10,206.5	-194.7	-68.2	0.50	0.43	-6.56	17.2	-27.5	
10,312.0	0.70	218.80	10,300.5	-196.9	-67.8	2.31	-1.81	67.23	-18.2	-26.0	
10,405.0	0.60	220.40	10,393.5	-197.7	-68.4	0.11	-0.11	1.72	-20.0	-25.4	
10,499.0	0.80	199.50	10,487.5	-198.7	-69.0	0.34	0.21	-22.23	-10.7	-31.1	
10,592.0	1.00	262.10	10,580.5	-199.4	-70.0	1.02	0.22	67.31	-33.6	-4.2	
10,686.0	1.10	230.40	10,674.5	-200.1	-71.5	0.62	0.11	-33.72	-28.0	-21.7	
10,779.0	0.60	231.00	10,767.5	-201.0	-72.6	0.54	-0.54	0.65	-29.6	-21.4	
10,873.0	0.50	192.50	10,861.5	-201.7	-73.0	0.40	-0.11	-40.96	-10.7	-35.5	
10,966.0	1.80	222.40	10,954.4	-203.2	-74.1	1.49	1.40	32.15	-28.7	-25.2	
11,060.0	1.40	265.60	11,048.4	-204.4	-76.2	1.31	-0.43	45.96	-40.4	2.3	
11,154.0	1.20	263.50	11,142.4	-204.6	-76.4	0.22	-0.21	-2.23	-42.6	0.8	
11,248.0	0.50	279.50	11,236.4	-204.6	-79.7	0.78	-0.74	17.02	-42.1	12.7	
11,341.0	0.60	261.40	11,329.4	-204.6	-80.6	0.21	0.11	-19.46	-44.9	-1.1	
11,435.0	1.40	242.40	11,423.3	-205.2	-82.1	0.91	0.85	-20.21	-43.7	-15.8	
11,530.0	1.80	248.20	11,518.3	-206.3	-84.5	0.45	0.42	6.11	-47.7	-11.2	
11,623.0	3.20	269.10	11,611.2	-206.9	-88.5	1.77	1.51	22.47	-52.5	7.1	
11,748.0	1.80	310.30	11,736.1	-205.7	-93.5	1.75	-1.12	32.96	-39.4	42.2	
11,842.0	1.80	346.10	11,830.1	-203.3	-95.0	1.18	0.00	38.09	-10.0	58.2	
11,936.0	4.20	350.70	11,923.9	-198.5	-95.9	2.56	2.55	4.89	-10.2	58.9	
11,983.0	9.40	355.80	11,970.6	-192.9	-96.4	11.13	11.06	10.65	-9.1	59.8	
12,030.0	14.50	356.10	12,016.6	-183.2	-97.1	10.85	10.85	0.64	-12.7	60.3	
12,077.0	17.50	352.40	12,061.7	-170.3	-98.5	6.74	6.38	-7.87	-19.0	60.3	
12,123.0	18.50	351.20	12,105.5	-156.3	-100.5	2.32	2.17	-2.61	-19.9	61.9	
12,216.0	25.30	358.60	12,191.7	-121.8	-103.2	7.88	7.31	7.96	-3.6	66.6	
12,263.0	34.40	7.70	12,232.5	-98.5	-101.7	21.58	19.36	19.36	9.7	64.2	
12,310.0	40.50	10.50	12,269.8	-70.3	-97.1	13.47	12.98	5.96	14.0	58.7	



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3374.0usft (H&P 642)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3374.0usft (H&P 642)
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)	
12,357.0	47.70	13.00	12,303.5	-38.3	-90.4	15.76	15.32	5.32	16.3	51.3	
12,404.0	52.50	20.60	12,333.7	-3.9	-79.9	16.06	10.21	16.17	20.2	38.9	
12,498.0	70.40	22.70	12,378.4	72.5	-49.5	19.14	19.04	2.23	13.0	9.3	
12,506.7	72.02	21.76	12,381.2	80.1	-46.4	21.27	18.65	-10.79	11.7	6.4	
FTP Crossing 12506.7' MD; 12381.2' TVD; 80.1°; -46.4°; 72.02											
12,592.0	88.10	13.20	12,395.9	159.9	-21.4	21.27	18.85	-10.04	-2.2	-17.1	
12,695.0	91.90	356.00	12,395.9	262.2	-13.2	17.10	3.69	-16.70	-16.8	-26.1	
12,789.0	87.40	353.70	12,396.5	355.8	-21.6	5.38	-4.79	-2.45	-16.5	-18.3	
12,882.0	87.40	356.10	12,400.7	448.3	-29.9	2.58	0.00	2.58	-12.2	-10.6	
12,976.0	86.70	356.30	12,405.6	542.0	-36.1	0.77	-0.74	0.21	-7.4	-5.1	
13,070.0	87.00	356.50	12,410.7	635.6	-42.0	0.38	0.32	0.21	-2.2	0.2	
13,164.0	85.30	356.50	12,417.0	729.2	-47.7	1.81	-1.81	0.00	4.0	5.3	
13,257.0	90.90	357.50	12,420.1	822.0	-52.6	6.12	6.02	1.08	7.2	9.5	
13,350.0	91.70	357.20	12,418.0	914.9	-56.9	0.92	0.86	-0.32	5.1	13.2	
13,444.0	89.30	356.00	12,417.2	1,008.7	-62.4	2.85	-2.55	-1.28	4.2	18.1	
13,538.0	88.60	358.20	12,418.9	1,102.6	-67.2	2.46	-0.74	2.34	5.9	22.3	
13,631.0	88.50	359.60	12,421.3	1,195.5	-69.0	1.51	-0.11	1.51	8.3	23.4	
13,724.0	88.40	358.80	12,423.8	1,288.5	-70.3	0.87	-0.11	-0.86	10.8	24.1	
13,819.0	88.60	359.80	12,426.3	1,383.5	-71.4	1.07	0.21	1.05	13.3	24.6	
13,913.0	90.00	0.30	12,427.4	1,477.4	-71.3	1.58	1.49	0.53	14.4	23.9	
14,006.0	89.30	1.40	12,428.0	1,570.4	-70.0	1.40	-0.75	1.18	15.0	21.9	
14,100.0	89.00	1.90	12,429.4	1,664.4	-67.3	0.62	-0.32	0.53	16.4	18.5	
14,194.0	89.70	0.70	12,430.4	1,758.3	-65.1	1.48	0.74	-1.28	17.5	15.8	
14,288.0	88.00	0.70	12,432.3	1,852.3	-64.0	1.81	-1.81	0.00	19.4	14.0	
14,381.0	91.40	2.10	12,432.8	1,945.3	-61.7	3.95	3.66	1.51	19.8	11.1	
14,474.0	88.70	358.10	12,432.7	2,038.2	-61.5	5.19	-2.90	-4.30	19.8	10.3	
14,567.0	88.30	358.40	12,435.2	2,131.2	-64.4	0.54	-0.43	0.32	22.2	12.5	



Midland PVA



Company: EOG Resources - Midland
 Project: Lee County, NM (NAD 83 NME)
 Site: Streeter 15 Fed
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference: Well #701H
 MD Reference: KB = 25 @ 3374.0ust (H&P 642)
 North Reference: KB = 25 @ 3374.0ust (H&P 642)
 Survey Calculation Method: Grid
 Database: Minimum Curvature
 EDM 5000.14

Survey	MD (ust)	Inc (°)	Adj (estimated) (°)	TVD (ust)	NS (ust)	EW (ust)	DLeg (°/100ust)	Buid (°/100ust)	Turn (°/100ust)	Hght to Plan (ust)	Right to Plan (ust)
	14,661.0	88.40	0.90	12,437.9	2,225.1	-65.0	2.66	0.11	2.66	24.9	12.4
	14,755.0	91.10	1.20	12,438.3	2,319.1	-63.2	2.89	2.87	0.32	26.3	10.1
	14,848.0	92.60	1.10	12,435.3	2,412.0	-61.4	1.62	1.61	-0.11	22.3	7.6
	14,942.0	90.80	3.50	12,432.5	2,505.9	-57.6	3.19	-1.91	2.55	19.5	3.2
	15,037.0	90.60	3.20	12,431.3	2,600.7	-52.0	0.38	-0.21	-0.32	16.3	-3.0
	15,130.0	94.20	0.70	12,427.4	2,693.6	-48.9	4.71	3.87	-2.69	14.4	-6.8
	15,224.0	89.50	0.90	12,424.4	2,787.5	-47.6	5.00	-5.00	0.21	11.4	-8.8
	15,318.0	87.80	355.40	12,426.6	2,881.4	-50.6	6.12	-1.81	-5.85	13.6	-6.4
	15,412.0	87.20	356.30	12,430.7	2,975.0	-57.4	1.15	-0.64	0.96	17.7	-0.2
	15,504.0	90.70	357.90	12,432.4	3,068.9	-62.0	4.18	3.80	1.74	19.4	3.8
	15,598.0	91.90	356.70	12,430.3	3,160.7	-66.5	1.81	1.28	-1.28	17.3	7.6
	15,695.0	86.40	358.10	12,431.7	3,257.6	-70.9	5.65	-5.67	1.44	16.7	11.4
	15,789.0	80.00	358.80	12,434.7	3,351.5	-73.4	3.90	3.83	0.74	21.7	13.2
	15,883.0	88.50	356.30	12,435.9	3,445.4	-77.4	3.10	-1.60	-2.66	22.8	16.6
	15,977.0	88.30	354.50	12,438.5	3,539.1	-85.0	1.93	-0.21	-1.91	25.5	23.5
	16,070.0	91.80	356.70	12,438.4	3,631.8	-92.1	4.44	3.76	2.37	25.3	30.0
	16,164.0	93.60	356.30	12,434.0	3,725.5	-87.8	1.96	1.91	-0.43	20.8	35.1
	16,258.0	96.10	359.10	12,428.1	3,819.0	-101.6	3.99	2.66	2.98	12.5	38.3
	16,351.0	94.80	3.30	12,417.2	3,911.6	-99.7	4.71	-1.40	4.52	3.4	35.7
	16,442.0	91.90	5.10	12,411.9	4,002.2	-93.0	3.75	-3.19	1.98	-2.0	28.4
	16,536.0	90.40	3.00	12,410.0	4,095.9	-86.4	2.75	-1.80	-2.23	-3.9	21.1
	16,628.0	87.50	0.50	12,411.7	4,187.8	-83.6	4.16	-3.15	-2.72	-2.3	17.7
	16,722.0	88.90	0.00	12,414.7	4,281.8	-83.1	1.48	1.38	-0.53	0.5	16.7
	16,815.0	91.90	358.80	12,414.2	4,374.8	-84.1	3.57	3.33	-1.29	-0.2	17.0
	16,908.0	90.00	0.20	12,412.6	4,467.7	-84.8	2.54	-2.04	1.51	-1.8	17.2
	17,002.0	90.10	1.40	12,412.6	4,561.7	-83.6	1.28	0.11	1.28	-2.1	15.2



Midland PVA



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3374.0usft (H&P 642)
MD Reference: KB = 25' @ 3374.0usft (H&P 642)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buikd (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,095.0	92.30	1.60	12,410.6	4,654.7	-81.2	2.37	2.36	0.21	-4.2	12.2
Last MWD Survey (MD = 17095.0)										
17,140.5	92.30	1.60	12,408.8	4,700.1	-79.9	0.00	0.00	0.00	-6.1	10.6
LTP Crossing 17140.5' MD; 12408.8' TVD; 4700.1' -79.9' 92.30										
17,242.0	92.30	1.60	12,404.7	4,801.5	-77.1	0.00	0.00	0.00	-10.3	7.1
Projection to Bit (MD = 17242.0)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,506.7	12,381.2	80.1	-46.4	FTP Crossing 12506.7' MD; 12381.2' TVD; 80.1'; -46.4'; 72.02
17,095.0	12,410.6	4,654.7	-81.2	Last MWD Survey (MD = 17095.0)
17,140.5	12,408.8	4,700.1	-79.9	LTP Crossing 17140.5' MD; 12408.8' TVD; 4700.1'; -79.9'; 92.30
17,242.0	12,404.7	4,801.5	-77.1	Projection to Bit (MD = 17242.0)

Checked By: _____ Approved By: _____ Date: _____

HOBBS OCD

SEP 24 2018

RECEIVED



Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

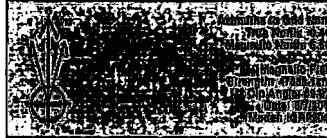
#701H

H&P 642

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



To convert a Magnetic Direction to a Grid Direction, Add 8.52°
To convert a Magnetic Direction to a True Direction, Add 6.91° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

WELL DETAILS: #701H

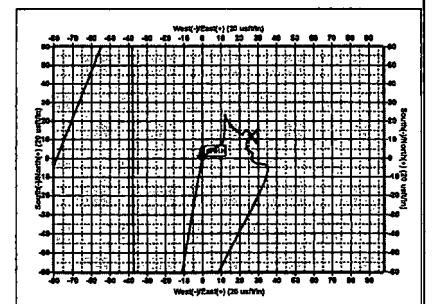
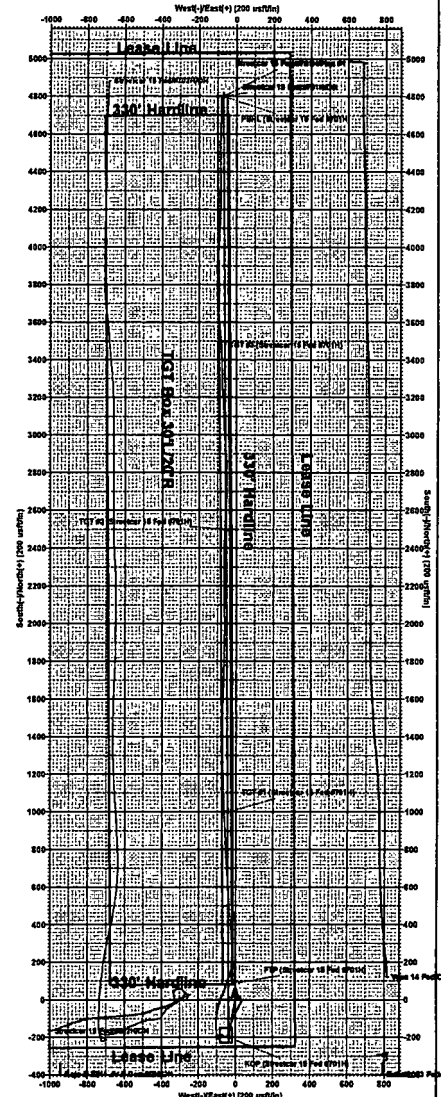
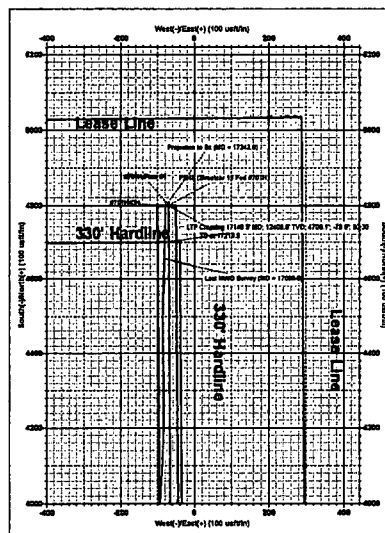
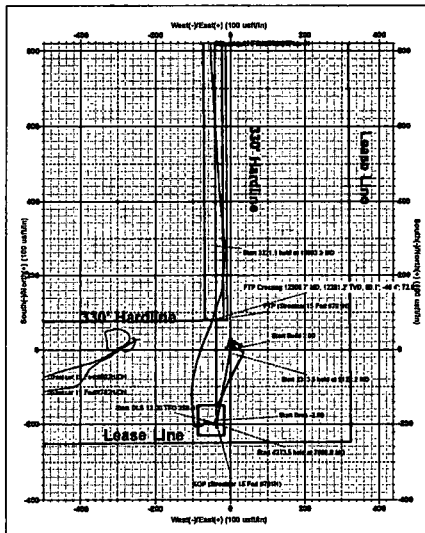
3349.0
KB = 25' @ 3374.0' (H&P 642)
+N-S +E-W Northing Easting
0.0 0.0 409715.00 783000.00 32° 7' 28.324 N 103° 32' 9.7 39 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4900.0	0.00	0.00	4900.0	0.0	0.0	0.00	0.00	0.0	
3	5128.2	4.56	190.28	5127.9	-8.9	-1.6	2.00	190.28	-8.9	
4	7441.8	4.56	190.28	7434.1	-190.1	-34.5	0.00	0.00	-189.5	
5	7669.8	0.00	0.00	7662.0	-199.0	-36.1	2.00	180.00	-198.4	KOP (Streetcar 15 Fed #701H)
6	11943.3	0.00	0.00	11935.5	-199.0	-36.1	0.00	0.00	-198.4	
7	12693.3	90.00	359.61	12413.0	278.5	-39.3	12.00	359.61	279.0	
8	15914.4	90.00	359.61	12413.0	3499.5	-61.2	0.00	0.00	3500.0	TGT #3 (Streetcar 15 Fed #701H)
9	15918.8	89.91	359.61	12413.0	3503.9	-61.2	2.00	180.00	3504.4	
10	17216.0	89.91	359.61	12415.0	4801.0	-70.0	0.00	0.00	4801.5	PBHL (Streetcar 15 Fed #701H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
KOP (Streetcar 15 Fed #701H)	7662.0	-199.0	-36.1	409616.01	782963.90	Polygon
FTP (Streetcar 15 Fed #701H)	12413.0	81.0	-38.0	409796.00	782962.00	Point
TGT #1 (Streetcar 15 Fed #701H)	12413.0	999.5	-44.2	410714.50	782965.77	Point
TGT #2 (Streetcar 15 Fed #701H)	12413.0	2499.5	-54.4	412214.50	782945.60	Point
TGT #3 (Streetcar 15 Fed #701H)	12413.0	3499.5	-61.2	413214.50	782938.82	Point
PBHL (Streetcar 15 Fed #701H)	12415.0	4801.0	-70.0	414516.00	782930.00	Rectangle (Sides: L0.0 W50.0)



Lea County, NM (NAD 83 NME)
H&P 642
Plan #1