



HOBBS OCD
JUN 17 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Streetcar 15 Fed
#706H
OH

Design: OH

Midland PVA

22 March, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3395.0usft
Site:	Streetcar 15 Fed	MD Reference:	KB = 25 @ 3395.0usft
Well:	#706H	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	Latitude:	32° 7' 26.337 N
From:	Map	Easting:	782,680.00 usft	Longitude:	103° 33' 13.460 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well		#706H				
Well Position	+N-S	0.0 usft	Northing:	409,687.00 usft	Latitude:	32° 7' 26.381 N
	+E-W	0.0 usft	Easting:	778,582.00 usft	Longitude:	103° 34' 1.113 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,370.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/15/2018	6.82	59.90	47,760.23969317

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	357.93	

Survey Program	Data 3/22/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
120.0	17,340.0	Leam MWD (OH)	MWD	OWSG MWD - Standard



Midland PVA

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Site:	Streetcar 15 Fed	MD Reference:	KB = 25 @ 3395.0usft
Well:	#706H	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)	DLag (°/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	
120.0	1.40	6.40	120.0	1.5	0.2	1.17	1.17	0.00	-1.5	0.0	
236.0	1.70	43.50	235.9	4.1	1.5	0.88	0.26	31.98	-4.0	1.7	
409.0	1.30	45.60	408.9	7.3	4.7	0.23	-0.23	1.21	-8.5	2.0	
588.0	1.10	59.30	587.8	9.6	7.6	0.19	-0.11	7.65	-11.5	4.4	
777.0	1.30	77.80	776.8	11.0	11.3	0.23	0.11	9.79	-13.3	8.4	
871.0	1.10	84.30	870.8	11.3	13.2	0.26	-0.21	6.91	-14.3	10.0	
964.0	1.20	82.20	963.8	11.6	15.1	0.12	0.11	-2.28	-16.5	9.4	
1,058.0	1.30	83.10	1,057.7	11.8	17.1	0.11	0.11	0.96	-18.4	9.7	
1,230.0	1.10	79.40	1,229.7	12.4	20.6	0.12	-0.12	-2.15	-22.6	8.4	
1,416.0	0.60	65.70	1,415.7	13.1	23.3	0.29	-0.27	-7.37	-26.6	2.3	
1,603.0	0.70	23.10	1,602.7	14.5	24.6	0.26	0.05	-22.78	-23.0	-16.9	
1,790.0	0.90	357.10	1,789.7	17.1	25.0	0.22	0.11	-13.90	-15.6	-25.8	
1,977.0	1.00	0.10	1,976.6	20.2	24.9	0.06	0.05	1.60	-20.2	-24.9	
2,165.0	1.30	240.20	2,164.6	20.7	23.1	1.06	0.16	-63.78	30.3	-6.5	
2,259.0	1.10	244.80	2,258.6	19.8	21.3	0.24	-0.21	4.89	27.8	-8.9	
2,352.0	1.00	247.40	2,351.6	19.1	19.8	0.12	-0.11	2.80	25.6	-10.1	
2,540.0	0.40	278.70	2,539.6	18.6	17.6	0.37	-0.32	16.65	14.6	-21.1	
2,633.0	0.40	279.60	2,632.6	18.7	17.0	0.01	0.00	0.97	13.6	-21.3	
2,727.0	0.40	308.30	2,726.6	19.0	16.4	0.21	0.00	30.53	1.1	-25.0	
2,914.0	0.70	359.20	2,913.6	20.5	15.9	0.28	0.16	27.22	-20.3	-16.2	
3,008.0	0.40	97.50	3,007.5	21.0	16.2	0.91	-0.32	104.57	-13.3	23.0	
3,101.0	0.70	143.00	3,100.5	20.5	16.9	0.55	0.32	48.92	6.3	25.8	
3,194.0	1.20	90.60	3,193.5	20.1	18.2	1.02	0.54	-56.34	-18.0	20.3	
3,288.0	1.90	70.10	3,287.5	20.6	20.6	0.94	0.74	-21.81	-26.4	12.4	
3,477.0	1.00	143.20	3,476.4	20.3	24.6	0.99	-0.46	36.68	1.6	31.8	
3,571.0	1.30	177.30	3,570.4	18.6	25.1	0.76	0.32	36.28	17.4	25.9	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Les County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3395.0usft
Site:	Streeter 15 Fed	MD Reference:	KB = 25 @ 3395.0usft
Well:	#706H	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/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)		
3,664.0	1.80	190.10	3,663.4	16.1	24.9	0.65	0.54	13.76	20.2	21.7		
3,758.0	1.80	173.40	3,757.3	13.1	24.8	0.58	0.11	-17.77	10.2	28.2		
3,852.0	2.50	152.00	3,851.3	9.8	25.9	1.07	0.64	-22.77	-3.5	27.5		
3,945.0	1.40	175.00	3,944.2	6.9	27.0	1.43	-1.18	24.73	4.5	27.5		
4,039.0	1.40	246.70	4,038.2	5.3	26.0	1.74	0.00	76.28	26.0	5.5		
4,133.0	1.10	225.50	4,132.2	4.2	24.3	0.58	-0.32	-22.55	20.3	14.1		
4,226.0	1.00	198.60	4,225.2	2.8	23.5	0.54	-0.11	-28.92	10.1	21.3		
4,319.0	2.40	138.80	4,318.1	0.5	24.5	2.24	1.51	-64.30	-15.7	18.8		
4,413.0	3.30	145.30	4,412.0	-3.2	27.3	1.02	0.96	6.91	-18.1	20.7		
4,507.0	3.10	150.80	4,505.9	-7.6	30.1	0.39	-0.21	5.85	-21.3	22.6		
4,600.0	4.60	131.60	4,598.7	-12.3	34.1	2.11	1.61	-20.65	-33.6	13.5		
4,694.0	6.60	151.80	4,692.2	-19.5	39.5	2.98	2.13	21.49	-35.8	25.7		
4,787.0	6.10	160.40	4,784.6	-28.9	43.7	1.15	-0.54	9.25	-41.5	32.0		
4,881.0	4.70	192.60	4,878.2	-37.4	44.5	3.49	-1.49	34.26	-23.1	53.1		
4,974.0	5.60	218.10	4,970.9	-44.7	40.9	2.62	0.97	27.42	0.3	59.3		
5,068.0	5.60	223.90	5,064.4	-51.6	34.9	0.60	0.00	6.17	5.8	59.2		
5,162.0	5.60	221.60	5,158.0	-58.3	28.6	0.24	0.00	-2.45	2.8	57.3		
5,350.0	5.60	219.80	5,345.1	-72.2	16.7	0.09	0.00	-0.96	0.2	55.7		
5,537.0	5.50	215.10	5,531.2	-86.6	5.7	0.25	-0.05	-2.51	-5.0	55.0		
5,630.0	6.40	225.80	5,623.7	-93.6	-0.6	1.53	0.97	11.51	4.2	54.3		
5,724.0	6.50	230.40	5,717.1	-100.9	-8.5	0.56	0.11	4.89	6.4	52.0		
5,818.0	6.50	227.40	5,810.5	-107.9	-16.5	0.36	0.00	-3.19	1.6	50.1		
6,005.0	5.90	227.70	5,996.4	-121.5	-31.4	0.32	-0.32	0.16	-1.3	46.5		
6,098.0	5.50	227.40	6,089.0	-127.7	-38.2	0.43	-0.43	-0.32	-2.3	44.7		
6,192.0	5.20	227.00	6,182.6	-133.7	-44.6	0.32	-0.32	-0.43	-2.8	43.0		
6,379.0	4.70	227.40	6,368.9	-144.6	-56.5	0.27	-0.27	0.21	-1.6	39.5		
6,473.0	6.90	234.80	6,462.4	-150.5	-63.9	2.47	2.34	7.87	2.2	37.0		



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #706H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3395.0usft
 MD Reference: KB = 25 @ 3395.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)	
6,661.0	7.40	236.20	6,646.9	-163.8	-83.2	0.28	0.27	0.74	-3.9	31.1	
6,848.0	6.90	235.80	6,834.5	-176.8	-102.5	0.27	-0.27	-0.21	-11.1	24.9	
6,941.0	6.40	235.50	6,926.8	-182.8	-111.4	0.54	-0.54	-0.32	-13.8	21.9	
7,035.0	6.20	235.60	7,020.3	-186.7	-119.9	0.22	-0.21	0.32	-15.8	19.0	
7,129.0	5.70	235.00	7,113.8	-194.2	-127.9	0.54	-0.53	-0.85	-17.6	15.8	
7,222.0	4.00	244.30	7,206.4	-198.3	-134.6	2.01	-1.83	10.00	-15.0	15.0	
7,316.0	2.60	248.80	7,300.3	-200.4	-139.6	1.51	-1.49	4.79	-11.8	11.6	
7,409.0	2.40	242.70	7,393.2	-202.1	-143.3	0.36	-0.22	-6.56	-9.4	6.2	
7,596.0	2.10	248.10	7,580.0	-205.2	-149.9	0.20	-0.16	2.69	-7.6	2.0	
7,784.0	0.40	39.30	7,768.0	-206.0	-152.7	1.31	-0.90	80.43	9.3	3.6	
7,878.0	0.40	284.20	7,862.0	-205.6	-152.8	0.68	0.00	-111.81	-6.2	7.8	
7,971.0	0.30	276.80	7,955.0	-205.4	-153.3	0.16	-0.11	-18.71	-8.8	5.5	
8,065.0	0.50	130.20	8,049.0	-205.6	-153.3	0.82	0.21	-155.96	4.1	-9.5	
8,160.0	0.70	89.90	8,144.0	-205.9	-152.4	0.48	0.21	-42.42	8.4	-4.9	
8,253.0	1.00	102.60	8,237.0	-206.1	-151.0	0.38	0.32	13.66	5.7	-6.5	
8,346.0	1.10	110.00	8,332.0	-206.6	-149.3	0.18	0.11	7.79	3.1	-7.1	
8,441.0	1.10	127.00	8,424.9	-207.4	-147.8	0.35	0.00	16.28	-0.8	-7.4	
8,534.0	1.30	130.00	8,517.9	-208.6	-146.3	0.23	0.22	3.23	-3.2	-7.3	
8,628.0	1.60	136.30	8,611.9	-210.3	-144.6	0.36	0.32	6.70	-6.3	-6.8	
8,722.0	2.00	145.70	8,705.8	-212.6	-142.7	0.53	0.43	10.00	-10.3	-5.6	
8,816.0	0.70	125.10	8,799.8	-214.3	-141.3	1.45	-1.38	-21.91	-9.8	-9.3	
8,909.0	0.80	137.20	8,892.8	-214.9	-140.5	0.16	-0.11	13.01	-12.6	-6.9	
9,003.0	0.70	166.00	8,986.8	-215.9	-140.1	0.36	0.11	30.64	-15.4	0.2	
9,096.0	1.00	177.50	9,079.8	-217.2	-139.9	0.37	0.32	12.37	-16.4	3.4	
9,180.0	0.80	182.20	9,173.8	-216.7	-139.9	0.23	-0.21	5.00	-17.5	4.8	
9,284.0	1.00	147.60	9,267.8	-220.0	-139.5	0.60	0.21	-36.81	-18.5	-6.4	
9,377.0	0.80	139.70	9,360.8	-221.2	-138.6	0.25	-0.22	-8.49	-18.9	-9.0	



Midland PVA

Company:	EOG Resources - Midland					Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)					TVD Reference:	KB = 25 @ 3395.0usft
Site:	Streetcar 15 Fed					MD Reference:	KB = 25 @ 3395.0usft
Well:	#706H					North Reference:	Grid
Wellbore:	OH					Survey Calculation Method:	Minimum Curvature
Design:	OH					Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,471.0	1.10	153.60	9,454.7	-222.5	-137.8	0.40	0.32	14.78	-22.1	-4.0
9,565.0	1.30	194.70	9,548.7	-224.4	-137.8	0.92	0.21	43.72	-21.0	12.1
9,659.0	2.50	233.20	9,642.7	-226.6	-139.6	1.80	1.28	40.96	-11.8	23.2
9,753.0	1.10	231.60	9,736.6	-228.4	-141.9	1.49	-1.49	-1.70	-15.4	22.8
9,847.0	1.30	310.90	9,830.8	-228.3	-143.4	1.64	0.21	84.36	18.3	20.2
9,941.0	2.00	272.90	9,924.6	-227.5	-145.9	1.34	0.74	-40.43	-0.5	26.6
10,035.0	1.70	318.60	10,018.5	-226.4	-148.4	1.56	-0.32	48.62	16.1	20.1
10,128.0	1.10	281.00	10,111.5	-225.0	-150.2	0.95	-0.65	-29.68	2.8	24.6
10,222.0	1.30	246.90	10,205.5	-225.1	-152.0	0.98	0.21	-48.91	-16.8	19.0
10,315.0	1.70	288.30	10,298.5	-225.1	-154.3	1.16	0.43	42.37	-3.1	26.1
10,408.0	1.30	280.50	10,381.4	-224.4	-156.6	0.45	-0.43	4.52	-3.6	26.3
10,503.0	1.20	292.40	10,486.4	-223.6	-158.5	0.11	-0.11	2.00	-4.8	26.5
10,596.0	0.80	279.10	10,579.4	-223.1	-160.1	0.49	-0.43	-14.30	-12.4	24.4
10,690.0	1.00	243.00	10,673.4	-223.4	-161.5	0.63	0.21	-38.40	-25.7	12.1
10,784.0	2.00	233.40	10,767.3	-224.8	-163.5	1.09	1.06	-10.21	-29.8	7.5
10,878.0	1.40	225.50	10,861.3	-226.6	-165.6	0.68	-0.64	-8.40	-33.3	3.1
10,971.0	2.30	204.50	10,954.2	-228.0	-167.2	1.20	0.97	-22.58	-35.1	-8.5
11,065.0	1.20	196.80	11,048.2	-231.7	-168.3	1.19	-1.17	-8.19	-36.4	-14.4
11,158.0	0.60	114.20	11,141.2	-232.8	-168.1	1.37	-0.65	-88.82	9.0	-38.9
11,252.0	2.10	125.60	11,235.2	-234.0	-168.3	1.61	1.60	12.34	-1.3	-39.8
11,346.0	1.80	171.50	11,329.1	-236.5	-164.7	1.64	-0.32	48.62	-32.1	-25.7
11,439.0	0.40	30.30	11,422.1	-237.7	-164.3	2.29	-1.51	-151.83	41.9	-1.0
11,533.0	0.50	301.90	11,516.1	-237.2	-164.5	0.67	0.11	-94.04	1.7	41.5
11,627.0	1.10	303.00	11,610.1	-236.5	-165.6	0.64	0.64	1.17	1.2	41.5
11,678.0	1.10	275.20	11,661.1	-236.2	-166.5	1.04	0.00	-54.51	-19.2	37.1
11,755.0	2.40	199.80	11,738.1	-237.6	-167.7	3.09	1.69	-98.18	-42.5	-10.1
11,850.0	0.40	163.40	11,833.0	-239.8	-168.4	2.13	-2.11	-17.05	-40.2	-22.1



Midland PVA

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3395.0usft
Site:	Streeter 15 Fed	MD Reference:	KB = 25 @ 3395.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
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11,943.0	2.80	9.60	11,928.0	-237.9	-166.1	3.44	2.58	-188.88	40.4	17.6	
12,038.0	16.20	8.50	12,019.5	-222.4	-165.7	14.11	14.11	-1.16	31.8	17.3	
12,132.0	31.00	7.30	12,105.4	-185.2	-160.7	15.75	15.74	-1.28	17.3	14.7	
12,228.0	41.20	9.60	12,181.2	-130.6	-152.4	10.94	10.85	2.45	0.7	7.9	
12,320.0	52.10	7.80	12,245.7	-63.1	-142.2	11.68	11.60	-1.91	-15.5	-1.1	
12,367.0	62.10	5.70	12,271.2	-24.0	-137.6	21.60	21.28	-4.47	-24.9	-6.0	
12,413.0	65.00	5.40	12,291.6	17.0	-133.6	6.33	6.30	-0.85	-34.7	-10.0	
12,460.0	68.20	4.90	12,311.1	59.7	-129.8	2.73	2.55	-1.06	-41.6	-14.1	
12,507.0	66.70	4.90	12,329.8	102.6	-126.1	1.06	1.06	0.00	-44.2	-18.3	
12,554.0	68.40	0.60	12,347.8	146.0	-124.0	9.20	3.62	-9.15	-41.9	-22.1	
12,600.0	69.70	358.30	12,364.2	188.9	-124.4	5.46	2.83	-5.00	-36.4	-22.6	
12,647.0	74.60	356.20	12,378.6	233.6	-126.6	11.26	10.43	-4.47	-28.6	-20.7	
12,694.0	77.00	356.20	12,390.2	279.0	-129.6	5.11	5.11	0.00	-19.2	-17.9	
12,741.0	78.20	356.20	12,400.3	324.9	-132.7	2.55	2.55	0.00	-9.5	-15.0	
12,788.0	80.70	357.10	12,408.9	371.0	-135.4	5.64	5.32	1.91	-1.3	-12.5	
12,835.0	83.10	357.30	12,415.5	417.4	-137.6	5.12	5.11	0.43	4.9	-10.5	
12,882.0	87.00	357.10	12,419.5	464.2	-139.9	8.31	8.30	-0.43	8.7	-8.5	
12,980.0	88.60	356.90	12,423.3	562.0	-145.0	1.65	1.63	-0.20	11.8	-4.0	
13,073.0	91.40	1.20	12,423.3	655.0	-146.6	5.52	3.01	4.62	11.2	-3.1	
13,167.0	90.00	359.10	12,422.2	748.9	-146.3	2.68	-1.49	-2.23	9.4	-4.0	
13,260.0	89.30	1.30	12,422.7	841.9	-146.0	2.48	-0.75	2.37	9.4	-4.9	
13,354.0	88.00	0.10	12,424.9	935.9	-144.9	1.88	-1.38	-1.28	11.0	-6.7	
13,448.0	87.80	1.50	12,426.4	1,029.8	-143.5	1.50	-0.21	1.49	13.9	-8.6	
13,541.0	86.60	359.80	12,431.3	1,122.8	-142.5	2.02	0.86	-1.83	16.2	-10.3	
13,635.0	89.20	0.80	12,433.1	1,216.7	-142.0	1.24	0.64	1.06	17.4	-11.4	
13,728.0	91.70	0.10	12,432.4	1,309.7	-141.3	2.79	2.69	-0.75	16.1	-12.8	
13,822.0	90.10	359.40	12,430.9	1,403.7	-141.7	1.86	-1.70	-0.74	14.0	-13.0	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3395.0usft
Site:	Streeter 15 Fed	MD Reference:	KB = 25 @ 3395.0usft
Well:	#706H	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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
13,915.0	90.40	358.90	12,430.5	1,496.7	-143.1	0.63	0.32	-0.54	13.1	-12.2	
14,009.0	90.80	359.40	12,429.5	1,590.7	-144.5	0.68	0.43	0.53	11.5	-11.4	
14,102.0	90.70	0.50	12,428.3	1,683.7	-144.5	1.19	-0.11	1.18	9.7	-12.0	
14,196.0	88.10	359.20	12,429.3	1,777.7	-144.8	3.09	-2.77	-1.38	10.1	-12.4	
14,290.0	88.80	358.70	12,431.8	1,871.8	-146.5	0.92	0.74	-0.53	12.0	-11.3	
14,384.0	89.20	358.90	12,433.5	1,965.8	-148.5	0.48	0.43	0.21	13.1	-9.9	
14,477.0	91.30	359.60	12,433.1	2,058.8	-149.7	2.38	2.26	0.75	12.1	-9.3	
14,571.0	91.90	357.30	12,430.4	2,152.5	-152.2	2.53	0.64	-2.45	8.9	-7.4	
14,665.0	88.70	359.80	12,429.9	2,246.4	-154.6	4.32	-3.40	2.86	7.8	-5.6	
14,759.0	85.60	359.20	12,434.8	2,340.3	-155.4	3.36	-3.30	-0.64	11.9	-5.5	
14,853.0	87.60	358.90	12,440.2	2,434.1	-157.0	2.15	2.13	-0.32	16.9	-4.6	
14,947.0	88.10	1.30	12,443.7	2,528.0	-158.8	2.61	0.53	2.55	19.8	-5.3	
15,041.0	91.10	1.90	12,444.4	2,622.0	-154.2	3.25	3.19	0.84	19.9	-8.8	
15,135.0	88.30	2.20	12,444.9	2,715.9	-150.8	3.00	-2.98	0.32	19.8	-12.5	
15,228.0	88.90	1.20	12,448.8	2,808.8	-148.1	1.85	-1.51	-1.08	23.1	-15.9	
15,321.0	90.60	359.20	12,450.8	2,901.7	-147.8	4.52	3.98	-2.15	24.6	-16.9	
15,415.0	91.90	355.20	12,448.7	2,995.6	-152.3	4.47	1.38	-4.26	21.9	-12.9	
15,507.0	89.30	355.90	12,447.8	3,087.3	-159.5	2.93	-2.83	0.78	20.4	-6.3	
15,601.0	90.50	356.80	12,447.9	3,181.1	-165.5	1.60	1.28	0.96	20.0	-1.0	
15,695.0	90.70	357.30	12,447.0	3,275.0	-170.3	0.57	0.21	0.53	18.4	3.2	
15,788.0	92.50	357.10	12,444.4	3,367.8	-174.8	1.95	1.94	-0.22	15.2	7.1	
15,881.0	90.70	359.10	12,441.8	3,460.7	-177.9	2.89	-1.94	2.15	11.8	9.6	
15,975.0	85.90	1.30	12,444.8	3,554.7	-177.6	5.62	-5.11	2.34	13.8	8.7	
16,069.0	88.10	1.50	12,449.5	3,648.5	-175.3	2.35	2.34	0.21	18.0	5.7	
16,163.0	88.90	1.70	12,451.9	3,742.4	-172.7	0.88	0.85	0.21	19.6	2.5	
16,256.0	91.10	0.50	12,451.9	3,835.4	-170.9	2.69	2.37	-1.29	18.9	0.1	
16,350.0	93.20	0.60	12,448.4	3,929.3	-170.0	2.24	2.23	0.11	14.5	-1.4	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3395.0usft
Site:	Streetcar 15 Fed	MD Reference:	KB = 25 @ 3395.0usft
Well:	#706H	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)	
16,443.0	91.50	2.20	12,444.6	4,022.2	-167.7	2.51	-1.83	1.72	10.3	-4.3	
16,537.0	91.20	1.90	12,442.4	4,116.1	-164.4	0.45	-0.32	-0.32	7.8	-8.3	
16,630.0	91.50	2.20	12,440.2	4,209.0	-161.0	0.46	0.32	0.32	5.2	-12.2	
16,724.0	90.80	3.30	12,438.5	4,302.9	-158.5	1.51	-0.96	1.17	3.2	-17.4	
16,817.0	92.90	0.30	12,435.6	4,395.8	-153.6	4.06	2.47	-3.23	0.0	-20.9	
16,910.0	90.50	0.80	12,432.8	4,488.8	-152.7	2.64	-2.58	0.54	-3.1	-22.4	
17,004.0	88.30	358.20	12,435.5	4,582.7	-153.5	5.25	-4.47	-2.77	-0.2	-22.2	
17,098.0	91.60	0.60	12,437.2	4,676.6	-154.5	6.19	5.84	2.55	2.0	-21.9	
17,191.0	91.50	359.60	12,434.7	4,769.6	-154.3	1.08	-0.11	-1.08	-0.1	-22.7	
17,284.0	92.20	359.90	12,431.7	4,862.5	-154.8	0.82	0.75	0.32	-2.6	-22.8	
17,340.0	92.20	359.90	12,429.5	4,918.5	-154.9	0.00	0.00	0.00	-4.5	-23.1	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
11,928.0	11,911.0	-238.6	-168.2	KOP, MD:11928.0', TVD:11911.0', N/S:-238.6', E/W:-168.2', INC:2.28
12,193.4	12,156.0	-151.0	-155.7	FTP Crossing, MD:12193.4', TVD:12156.0', N/S:-151.0', E/W:-155.7', INC:37.68
17,284.0	12,431.7	4,862.5	-154.8	Last MWD Survey (MD=17284.0')
17,340.0	12,429.5	4,918.5	-154.9	Projection to Bit (MD=17340.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Streetcar 15 Fed #706H

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: #706H

KB = 25 @ 3395.00ft 3370.0
Northing 409887.00 Easting 778582.00 Latitude 32° 7' 28.381 N Longitude 103° 34' 1.113 W

To convert a Magnetic Direction to a Grid Direction, Add 8.41°
To convert a Magnetic Direction to a True Direction, Add 8.41° East
To convert a True Direction to a Grid Direction, Subtract 8.41°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4729.0	0.00	0.00	4729.0	0.0	0.0	0.00	0.00	0.0	
3	4996.1	5.34	215.62	4995.7	-10.1	-7.2	2.00	215.62	-9.8	
4	7385.1	5.34	215.62	7374.3	-190.9	-138.8	0.00	0.00	-185.8	
5	7852.1	0.00	0.00	7841.0	-201.0	-144.0	2.00	180.00	-183.7	Brushy Top(SC 15 Fed #706H)
6	11943.3	0.00	0.00	11932.2	-201.0	-144.0	0.00	0.00	-183.7	
7	12690.3	89.63	359.62	12409.7	273.4	-147.2	12.00	359.62	278.5	
8	13362.0	89.63	359.62	12414.0	945.1	-151.6	0.00	0.00	950.0	TGT#1(SC 15 Fed #706H)
9	13382.7	89.64	359.62	12414.0	945.7	-151.6	2.00	0.00	950.8	
10	15763.1	89.64	359.62	12429.0	3348.1	-167.6	0.00	0.00	3350.0	TGT#2(SC 15 Fed #706H)
11	15769.1	89.52	359.62	12429.0	3352.1	-167.6	2.00	-180.00	3356.0	
12	16363.5	89.52	359.62	12434.0	3948.4	-171.5	0.00	0.00	3950.0	TGT#3(SC 15 Fed #706H)
13	16377.3	89.80	359.62	12434.1	3960.2	-171.6	2.00	0.00	3963.8	
14	16923.7	89.80	359.62	12438.0	4508.6	-175.3	0.00	0.00	4510.0	TGT#4(SC 15 Fed #706H)
15	16948.4	90.29	359.62	12438.0	4531.3	-175.4	2.00	0.00	4534.7	
16	17336.1	90.29	359.62	12434.0	4919.0	-178.0	0.00	0.00	4922.2	PBHL(SC 15 Fed #706H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(SC 15 Fed #706H)	7841.0	-201.0	-144.0	409887.00	778438.00
TGT#1(SC 15 Fed #706H)	12414.0	945.1	-151.6	410832.10	778430.39
TGT#2(SC 15 Fed #706H)	12429.0	3348.1	-167.6	410832.10	778414.45
TGT#3(SC 15 Fed #706H)	12434.0	3948.4	-171.5	410833.20	778410.48
TGT#4(SC 15 Fed #706H)	12438.0	4508.6	-175.3	414193.60	778408.74
PBHL(SC 15 Fed #706H)	12434.0	4919.0	-178.0	414088.00	778404.00
FTP(SC 15 Fed #706H)	12427.0	-151.0	-144.0	409838.00	778438.00

