



Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

#702H

HP 473

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



Azimuths to Grid North
 True North: -0.41°
 Magnetic North: 6.51°

Magnetic Field
 Strength: 47872.4nT
 Dip Angle: 59.57°
 Date: 7/18/2017
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.51°
 To convert a Magnetic Direction to a True Direction, Add 6.93° East
 To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #702H

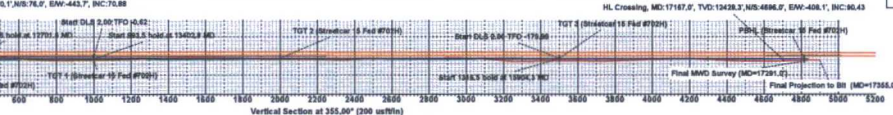
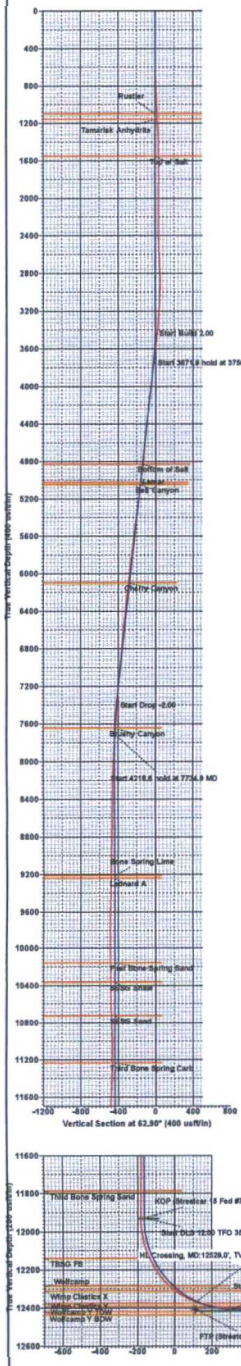
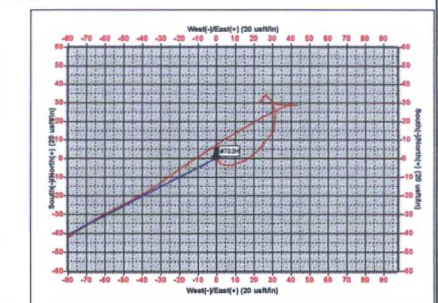
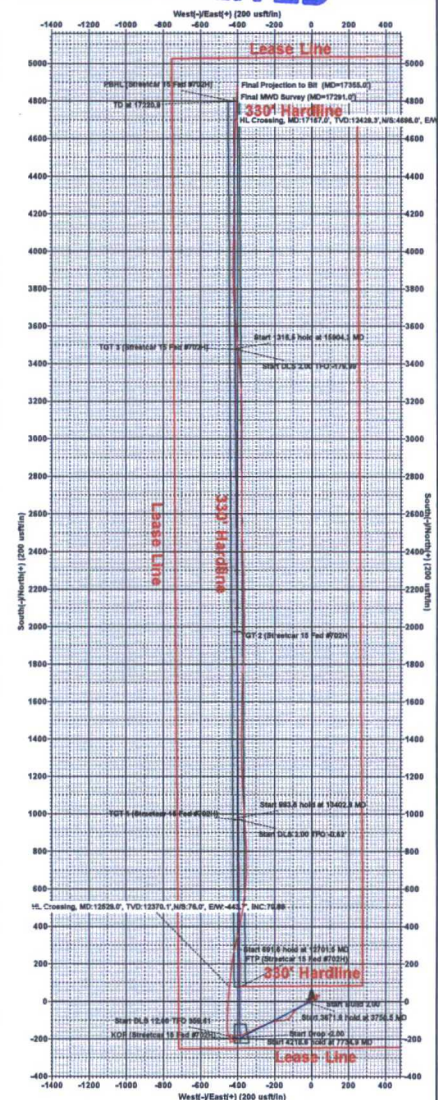
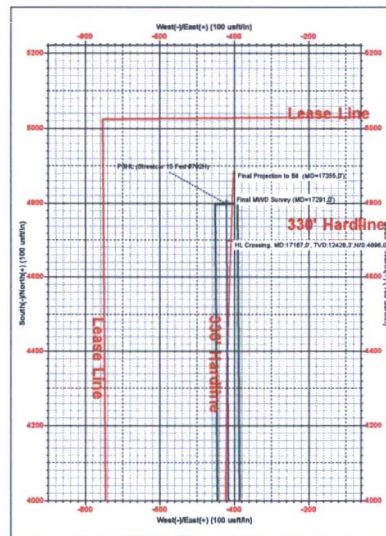
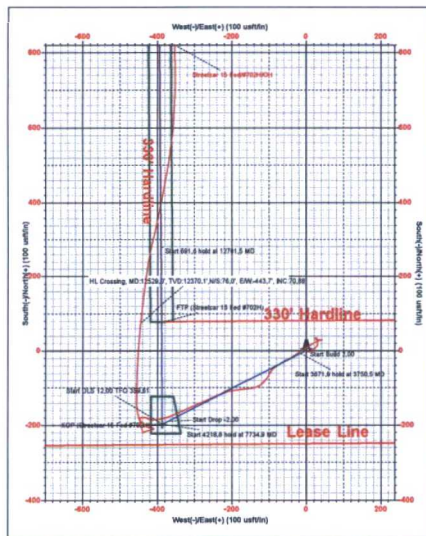
	+N/-S	+E/-W	Northing	KB = 25' @ 3376.0usft (HP 473)	Latitude	Longitude	Spot
	0.0	0.0	409714.00	782715.00	32° 7' 28.355" N	103° 33' 13.053" W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3438.0	0.00	0.00	3438.0	0.0	0.0	0.00	0.00	0.0	
3	3750.5	6.25	242.90	3749.9	-7.8	-15.2	2.00	242.90	-6.4	
4	7422.4	6.25	242.90	7400.0	-189.9	-371.0	0.00	0.00	-156.8	
5	7734.9	0.00	0.00	7711.9	-197.6	-386.2	2.00	180.00	-163.2	
6	11953.6	0.00	0.00	11930.5	-197.6	-386.2	0.00	0.00	-163.2	
7	12701.5	89.75	359.61	12408.0	277.7	-389.4	12.00	359.61	310.6	
8	13393.1	89.75	359.61	12411.0	969.3	-394.0	0.00	0.00	1000.0	TGT 1 (Streetcar 15 Fed #702H)
9	13402.8	89.94	359.61	12411.0	979.1	-394.1	2.00	-0.52	1009.7	TGT 2 (Streetcar 15 Fed #702H)
10	14396.4	89.94	359.61	12412.0	1972.6	-400.9	0.00	0.00	2000.0	TGT 3 (Streetcar 15 Fed #702H)
11	15901.2	89.98	359.61	12413.0	3477.4	-411.1	0.00	0.04	3500.0	
12	15904.3	89.91	359.61	12413.0	3480.5	-411.1	2.00	-179.99	3503.1	
13	17220.8	89.91	359.61	12415.0	4797.0	-420.0	0.00	0.00	4815.4	PBHL (Streetcar 15 Fed #702H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP (Streetcar 15 Fed #702H)	11930.5	-197.6	-386.2	409516.38	782228.82	Polygon
FTP (Streetcar 15 Fed #702H)	13408.0	77.0	-388.0	409791.00	782327.00	Point
TGT 1 (Streetcar 15 Fed #702H)	12411.0	969.3	-394.0	410683.39	782320.95	Point
TGT 2 (Streetcar 15 Fed #702H)	12412.0	1972.6	-400.9	411886.60	782314.15	Point
TGT 3 (Streetcar 15 Fed #702H)	12413.0	3477.4	-411.1	413191.40	782303.95	Point
PBHL (Streetcar 15 Fed #702H)	12415.0	4797.0	-420.0	414511.00	782296.00	Rectangle (Sides: L0.0 W60.0)



Lea County, NM (NAD 83 NME)
 Streetcar 15 Fed #702H
 HP 473
 Plan #1
 Date: 12/08/2017
 Model: IGRF2015

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

#702H

OH

Design: OH

PVA Report

25 September, 2017

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3376.0usft (HP 473)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3376.0usft (HP 473)
Well:	#702H	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		#702H				
Well Position	+N/-S	0.0 usft	Northing:	409,714.00 usft	Latitude:	32° 7' 26.335 N
	+E/-W	0.0 usft	Easting:	782,715.00 usft	Longitude:	103° 33' 13.053 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,351.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/18/2017	6.93	59.97	47,872.36167351

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	355.00

Survey Program		Date 9/25/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
181.0	17,355.0	Intrepid MWD (OH)	MWD	MWD - Standard

PVA Report

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Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3376.0usft (HP 473)
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/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
181.0	0.60	148.60	181.0	-0.8	0.5	0.33	0.33	0.00	-0.9	0.0
366.0	0.90	138.40	366.0	-2.7	2.0	0.18	0.16	-5.51	-3.3	-0.3
550.0	1.30	97.90	549.9	-4.1	5.0	0.46	0.22	-22.01	-5.5	-3.4
704.0	1.80	75.90	703.9	-3.7	9.1	0.50	0.32	-14.29	-7.9	-5.8
890.0	2.40	63.50	889.8	-1.3	15.4	0.40	0.32	-6.67	-13.2	-8.0
1,076.0	2.40	44.30	1,075.6	3.2	21.6	0.43	0.00	-10.32	-17.4	-13.2
1,185.0	2.80	41.30	1,184.5	6.9	24.9	0.39	0.37	-2.75	-21.6	-14.2
1,358.0	3.60	34.00	1,357.2	14.5	30.8	0.52	0.46	-4.22	-29.2	-17.4
1,544.0	3.60	336.10	1,542.9	24.7	31.7	1.87	0.00	-31.13	-9.8	-39.0
1,668.0	2.70	348.30	1,666.7	31.1	29.5	0.90	-0.73	9.84	-24.5	-35.2
1,855.0	1.70	235.50	1,853.6	33.9	26.3	1.98	-0.53	-60.32	40.9	-13.0
2,042.0	1.20	193.20	2,040.6	30.4	23.6	0.61	-0.27	-22.62	35.0	16.0
2,227.0	1.10	50.70	2,225.6	29.7	24.5	1.18	-0.05	-77.03	-37.8	7.4
2,413.0	1.10	131.50	2,411.6	29.6	27.2	0.77	0.00	43.44	-0.8	40.2
2,599.0	2.60	84.80	2,597.5	28.8	32.8	1.08	0.81	-25.11	-35.2	25.7
2,787.0	2.80	97.90	2,785.3	28.6	41.6	0.34	0.11	6.97	-37.2	34.0
2,972.0	1.50	280.20	2,970.2	28.4	43.7	2.32	-0.70	-96.05	37.9	-35.7
3,159.0	2.20	258.30	3,157.1	28.1	37.7	0.53	0.37	-11.71	42.6	-19.8
3,346.0	7.10	240.20	3,343.4	21.6	24.2	2.70	2.62	-9.68	31.7	-6.8
3,532.0	6.00	238.50	3,528.2	10.8	5.9	0.60	-0.59	-0.91	12.1	-6.0
3,719.0	7.60	236.00	3,713.9	-1.2	-12.7	0.87	0.86	-1.34	2.0	-4.5
3,905.0	4.90	233.20	3,898.8	-12.9	-29.2	1.46	-1.45	-1.51	1.7	-1.6
4,093.0	7.70	243.10	4,085.6	-23.4	-46.9	1.59	1.49	5.27	1.4	-0.6
4,278.0	5.50	240.70	4,269.4	-33.3	-65.7	1.20	-1.19	-1.30	0.3	-0.2
4,466.0	6.80	233.90	4,456.3	-44.3	-82.5	0.79	0.69	-3.62	0.5	1.9
4,653.0	4.80	207.00	4,642.4	-57.8	-95.0	1.78	-1.07	-14.39	-1.7	8.9

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3376.0usft (HP 473)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3376.0usft (HP 473)
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,840.0	8.90	213.80	4,828.0	-76.8	-106.6	2.23	2.19	3.64	-5.0	19.8
5,028.0	7.00	239.00	5,014.2	-94.8	-124.5	2.09	-1.01	13.40	-0.4	27.7
5,216.0	7.50	262.20	5,200.8	-102.3	-146.5	1.57	0.27	12.34	6.9	23.4
5,404.0	7.70	264.60	5,387.1	-105.2	-171.2	0.20	0.11	1.28	2.0	16.0
5,591.0	7.60	261.90	5,572.5	-108.1	-195.9	0.20	-0.05	-1.44	-4.4	8.9
5,778.0	7.20	250.30	5,757.9	-113.8	-219.2	0.83	-0.21	-6.20	-9.7	2.7
5,965.0	6.90	246.40	5,943.5	-122.3	-240.5	0.30	-0.16	-2.09	-12.5	0.0
6,153.0	6.10	247.70	6,130.3	-130.6	-260.1	0.43	-0.43	0.69	-13.4	-1.2
6,339.0	5.70	246.40	6,315.3	-138.0	-277.7	0.23	-0.22	-0.70	-12.3	-2.9
6,526.0	5.50	246.30	6,501.4	-145.3	-294.5	0.11	-0.11	-0.05	-10.2	-4.2
6,713.0	5.70	244.90	6,687.5	-152.9	-311.1	0.13	0.11	-0.75	-8.0	-5.3
6,900.0	5.30	244.60	6,873.7	-160.5	-327.3	0.21	-0.21	-0.16	-5.5	-6.0
7,088.0	4.90	248.20	7,060.9	-167.2	-342.6	0.27	-0.21	1.91	-2.2	-7.0
7,273.0	4.40	245.20	7,245.3	-173.1	-356.4	0.30	-0.27	-1.62	3.4	-8.3
7,459.0	4.30	249.00	7,430.8	-178.6	-369.3	0.16	-0.05	2.04	8.7	-10.2
7,645.0	3.90	260.00	7,616.3	-182.2	-382.1	0.47	-0.22	5.91	5.2	-14.0
7,831.0	3.10	259.40	7,802.0	-184.3	-393.3	0.43	-0.43	-0.32	-4.5	-14.4
8,018.0	2.40	266.20	7,988.7	-185.4	-402.1	0.41	-0.37	3.64	-15.1	-13.2
8,205.0	2.30	257.00	8,175.6	-186.5	-409.7	0.21	-0.05	-4.92	-20.4	-16.1
8,391.0	1.70	300.40	8,361.5	-186.0	-415.7	0.85	-0.32	23.33	-31.4	4.9
8,565.0	1.60	278.10	8,535.4	-184.3	-420.3	0.37	-0.06	-12.82	-35.7	-8.3
8,751.0	1.10	300.60	8,721.4	-183.1	-424.5	0.39	-0.27	12.10	-40.4	7.0
8,937.0	1.10	290.70	8,907.3	-181.5	-427.7	0.10	0.00	-5.32	-44.5	-0.4
9,124.0	1.50	282.70	9,094.3	-180.4	-431.7	0.23	0.21	-4.28	-48.2	-6.8
9,311.0	1.60	278.60	9,281.2	-179.4	-436.7	0.08	0.05	-2.19	-52.7	-10.4
9,499.0	2.10	256.10	9,469.1	-179.9	-442.6	0.46	0.27	-11.97	-50.5	-30.8
9,686.0	2.50	186.50	9,656.0	-184.7	-446.4	1.41	0.21	-37.22	6.0	-61.3

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3376.0usft (HP 473)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3376.0usft (HP 473)
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,873.0	1.40	135.50	9,842.9	-190.4	-445.3	1.04	-0.59	-27.27	46.6	-37.1
10,060.0	1.40	103.10	10,029.8	-192.6	-441.5	0.42	0.00	-17.33	55.0	-7.6
10,248.0	2.00	138.50	10,217.8	-195.5	-437.0	0.63	0.32	18.83	35.2	-36.7
10,436.0	1.80	146.80	10,405.7	-200.5	-433.3	0.18	-0.11	4.41	23.4	-41.0
10,624.0	2.00	116.50	10,593.6	-204.4	-428.7	0.54	0.11	-16.12	35.0	-25.1
10,811.0	2.90	92.10	10,780.4	-206.0	-421.1	0.73	0.48	-13.05	34.5	-9.7
10,998.0	2.30	110.00	10,967.2	-207.5	-412.8	0.54	-0.32	9.57	21.6	-18.4
11,185.0	0.70	156.60	11,154.1	-209.8	-408.8	1.01	-0.86	24.92	-2.2	-25.6
11,370.0	1.50	246.40	11,339.1	-211.8	-410.6	0.89	0.43	48.54	-28.1	3.2
11,557.0	3.40	256.60	11,525.9	-214.1	-418.2	1.04	1.02	5.45	-35.0	8.6
11,696.0	3.50	252.20	11,664.7	-216.3	-426.3	0.20	0.07	-3.17	-43.9	5.6
11,816.0	2.40	251.00	11,784.5	-218.3	-432.1	0.92	-0.92	-1.00	-50.2	4.6
11,910.0	2.50	247.30	11,878.4	-219.7	-435.9	0.20	0.11	-3.94	-54.4	1.2
11,956.0	1.10	292.00	11,924.4	-219.9	-437.2	4.09	-3.04	97.12	-39.0	39.8
12,003.0	4.60	340.70	11,971.3	-218.0	-438.3	8.43	7.45	103.62	3.7	56.4
12,097.0	15.90	345.20	12,063.7	-201.9	-442.8	12.04	12.02	4.79	7.8	60.3
12,144.0	22.50	342.20	12,108.1	-187.1	-447.2	14.19	14.04	-6.38	4.0	64.6
12,191.0	27.80	348.60	12,150.6	-167.8	-452.1	12.66	11.28	13.62	9.6	68.3
12,238.0	29.90	358.30	12,191.8	-145.3	-454.7	10.90	4.47	20.64	19.8	68.5
12,283.0	35.80	0.60	12,229.6	-120.9	-454.8	13.40	13.11	5.11	23.2	67.8
12,331.0	43.90	2.80	12,266.4	-90.2	-453.9	17.13	16.87	4.58	24.7	66.0
12,377.0	51.30	1.30	12,297.4	-56.3	-452.7	16.27	16.09	-3.26	21.0	65.2
12,424.0	57.50	3.30	12,324.7	-18.1	-451.1	13.64	13.19	4.26	18.6	63.1
12,469.0	63.40	4.80	12,346.9	20.9	-448.4	13.43	13.11	3.33	15.2	60.1
12,517.0	69.70	4.70	12,366.0	64.7	-444.7	13.13	13.12	-0.21	9.8	56.5
12,529.0	70.88	5.29	12,370.1	76.0	-443.7	10.89	9.87	4.88	8.7	55.5
HL Crossing, MD:12529.0', TVD:12370.1', N/S:76.0', E/W:-443.7', INC:70.88										

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25' @ 3376.0usft (HP 473)
 MD Reference: KB = 25' @ 3376.0usft (HP 473)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,563.0	74.25	6.90	12,380.2	108.3	-440.3	10.89	9.90	4.75	5.6	51.9
12,610.0	78.50	6.80	12,391.3	153.6	-434.8	9.04	9.04	-0.21	1.4	46.3
12,656.0	81.60	7.90	12,399.3	198.5	-429.0	7.14	6.74	2.39	-0.9	40.2
12,704.0	88.10	9.70	12,403.6	245.7	-421.7	14.05	13.54	3.75	-3.0	32.6
12,777.0	92.00	13.60	12,403.5	317.2	-407.0	7.55	5.34	5.34	-4.9	17.3
12,869.0	88.90	11.20	12,402.8	407.0	-387.2	4.26	-3.37	-2.61	-5.8	-3.0
12,963.0	86.50	10.00	12,406.6	499.4	-370.0	2.85	-2.55	-1.28	-2.6	-20.9
13,057.0	82.70	5.90	12,415.4	592.0	-357.0	5.93	-4.04	-4.36	5.6	-34.6
13,151.0	88.10	1.10	12,422.9	685.5	-351.3	7.67	5.74	-5.11	13.2	-40.8
13,243.0	90.60	358.70	12,424.0	777.4	-351.5	3.77	2.72	-2.61	13.8	-41.3
13,335.0	90.60	356.70	12,423.0	869.4	-355.2	2.17	0.00	-2.17	12.5	-38.2
13,428.0	89.70	355.90	12,422.8	962.2	-361.2	1.29	-0.97	-0.86	11.8	-32.8
13,519.0	91.20	357.30	12,422.1	1,053.0	-366.6	2.25	1.65	1.54	11.0	-28.1
13,611.0	91.80	357.30	12,419.7	1,144.9	-370.9	0.65	0.65	0.00	8.4	-24.3
13,703.0	92.70	357.50	12,416.0	1,236.7	-375.1	1.00	0.98	0.22	4.7	-20.8
13,796.0	93.00	358.90	12,411.4	1,329.5	-378.0	1.54	0.32	1.51	0.0	-18.5
13,889.0	91.20	0.90	12,408.0	1,422.5	-378.2	2.89	-1.94	2.15	-3.4	-19.0
13,983.0	90.70	0.90	12,406.5	1,516.4	-376.7	0.53	-0.53	0.00	-5.1	-21.1
14,077.0	88.30	1.80	12,407.3	1,610.4	-374.5	2.73	-2.55	0.96	-4.4	-23.9
14,170.0	87.30	3.20	12,410.8	1,703.2	-370.4	1.85	-1.08	1.51	-1.0	-28.6
14,264.0	87.00	1.10	12,415.5	1,797.0	-366.9	2.25	-0.32	-2.23	3.6	-32.8
14,358.0	88.20	0.70	12,419.5	1,890.9	-365.4	1.35	1.28	-0.43	7.5	-34.9
14,451.0	90.40	0.30	12,420.6	1,983.9	-364.6	2.40	2.37	-0.43	8.6	-36.3
14,544.0	91.10	0.30	12,419.4	2,076.9	-364.1	0.75	0.75	0.00	7.3	-37.4
14,637.0	88.50	358.90	12,419.7	2,169.9	-364.8	3.18	-2.80	-1.51	7.5	-37.4
14,731.0	87.80	358.90	12,422.7	2,263.8	-366.6	0.74	-0.74	0.00	10.5	-36.3
14,824.0	92.40	357.70	12,422.6	2,356.8	-369.3	5.11	4.95	-1.29	10.2	-34.1

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3376.0usft (HP 473)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3376.0usft (HP 473)
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,918.0	93.60	358.40	12,417.7	2,450.6	-372.5	1.48	1.28	0.74	5.2	-31.6
15,012.0	90.60	358.30	12,414.2	2,544.5	-375.2	3.19	-3.19	-0.11	1.7	-29.5
15,106.0	89.90	359.50	12,413.8	2,638.5	-377.0	1.48	-0.74	1.28	1.2	-28.3
15,199.0	91.00	0.60	12,413.1	2,731.5	-376.9	1.67	1.18	1.18	0.4	-29.1
15,292.0	90.30	0.20	12,412.0	2,824.4	-376.3	0.87	-0.75	-0.43	-0.7	-30.3
15,386.0	90.50	359.60	12,411.4	2,918.4	-376.5	0.67	0.21	-0.64	-1.4	-30.8
15,479.0	86.60	0.60	12,413.7	3,011.4	-376.3	4.33	-4.19	1.08	0.9	-31.6
15,573.0	85.00	0.30	12,420.6	3,105.1	-375.6	1.73	-1.70	-0.32	7.7	-33.0
15,668.0	85.00	358.00	12,428.9	3,199.8	-377.0	2.41	0.00	-2.42	16.0	-32.2
15,763.0	90.80	356.00	12,432.4	3,294.5	-381.9	6.46	6.11	-2.11	19.4	-27.9
15,857.0	93.00	355.30	12,429.2	3,388.2	-389.1	2.46	2.34	-0.74	16.2	-21.4
15,951.0	89.70	355.40	12,427.0	3,481.8	-396.7	3.51	-3.51	0.11	14.0	-14.4
16,045.0	89.90	354.70	12,427.4	3,575.5	-404.8	0.77	0.21	-0.74	14.2	-6.9
16,139.0	88.00	353.90	12,429.1	3,669.0	-414.1	2.19	-2.02	-0.85	15.8	1.8
16,232.0	92.00	358.30	12,429.1	3,761.7	-420.4	6.39	4.30	4.73	15.6	7.5
16,325.0	92.00	358.80	12,425.8	3,854.7	-422.8	0.54	0.00	0.54	12.2	9.2
16,418.0	91.90	0.30	12,422.7	3,947.6	-423.5	1.62	-0.11	1.61	8.9	9.3
16,512.0	91.80	1.10	12,419.6	4,041.5	-422.4	0.86	-0.11	0.85	5.7	7.5
16,604.0	92.00	1.70	12,416.6	4,133.5	-420.1	0.69	0.22	0.65	2.6	4.6
16,697.0	86.20	359.90	12,418.0	4,226.4	-418.8	6.53	-6.24	-1.94	3.9	2.7
16,790.0	86.90	0.60	12,423.6	4,319.2	-418.4	1.06	0.75	0.75	9.3	1.7
16,884.0	88.20	1.40	12,427.7	4,413.1	-416.8	1.62	1.38	0.85	13.2	-0.6
16,977.0	89.80	1.70	12,429.3	4,506.1	-414.3	1.75	1.72	0.32	14.7	-3.8
17,071.0	90.50	1.80	12,429.0	4,600.0	-411.4	0.75	0.74	0.11	14.3	-7.3
17,164.0	90.40	2.10	12,428.3	4,693.0	-408.2	0.34	-0.11	0.32	13.5	-11.0
17,167.0	90.43	2.10	12,428.3	4,696.0	-408.1	0.96	0.96	0.00	13.4	-11.2
HL Crossing, MD:17167.0', TVD:12428.3', N/S:4696.0', E/W:-408.1', INC:90.43										

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #702H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3376.0usft (HP 473)
MD Reference: KB = 25' @ 3376.0usft (HP 473)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,258.0	91.30	2.10	12,426.9	4,786.9	-404.8	0.96	0.96	0.00	11.9	-15.1
17,291.0	91.50	2.60	12,426.1	4,819.9	-403.4	1.63	0.61	1.52	18.3	-24.2
Final MWD Survey (MD=17291.0')										
17,355.0	91.50	2.60	12,424.4	4,883.8	-400.5	0.00	0.00	0.00	53.9	-71.3
Final Projection to Bit (MD=17355.0')										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,529.0	12,370.1	76.0	-443.7	HL Crossing, MD:12529.0', TVD:12370.1', N/S:76.0', E/W:-443.7', INC:70.88
17,167.0	12,428.3	4,696.0	-408.1	HL Crossing, MD:17167.0', TVD:12428.3', N/S:4696.0', E/W:-408.1', INC:90.43
17,291.0	12,426.1	4,819.9	-403.4	Final MWD Survey (MD=17291.0')
17,355.0	12,424.4	4,883.8	-400.5	Final Projection to Bit (MD=17355.0')

Checked By: _____ Approved By: _____ Date: _____