

HOBBS OCD

DEC 08 2017

RECEIVED



Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

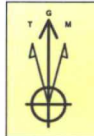
#602H

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: 59.97°
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: #602H

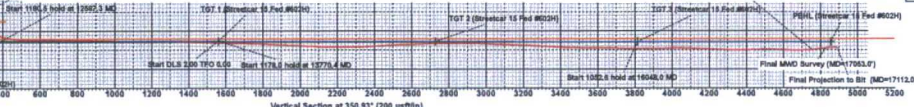
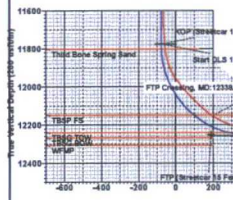
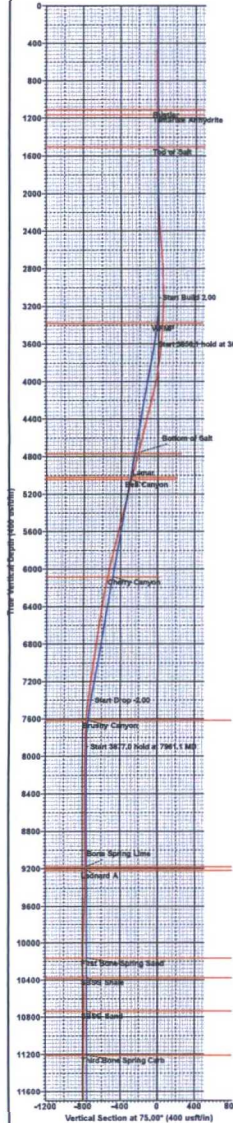
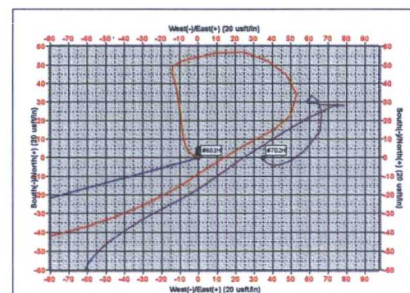
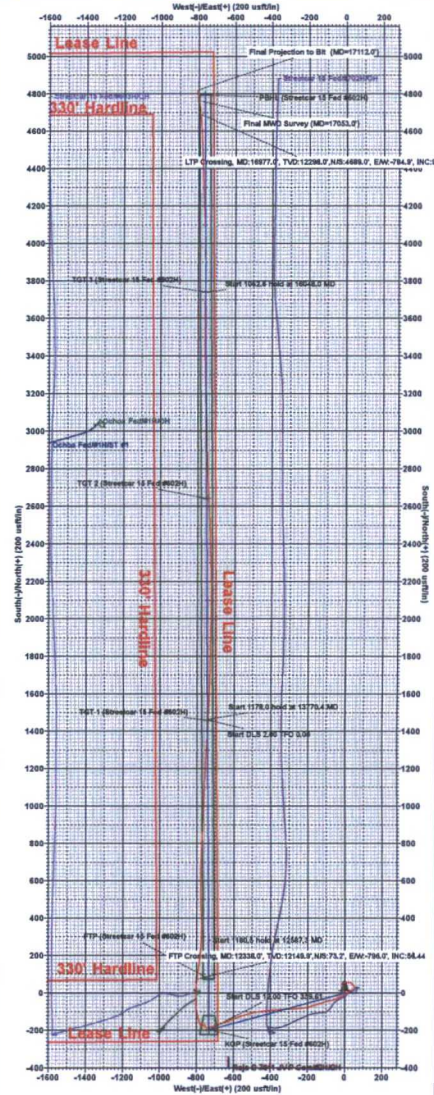
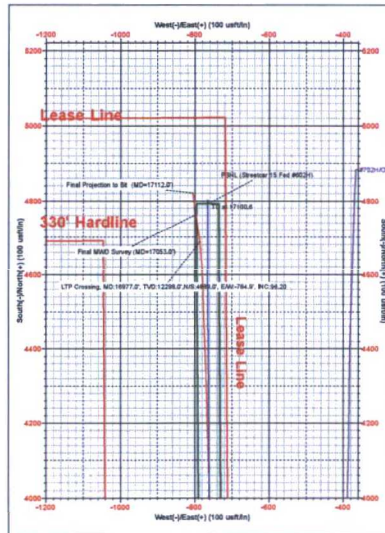
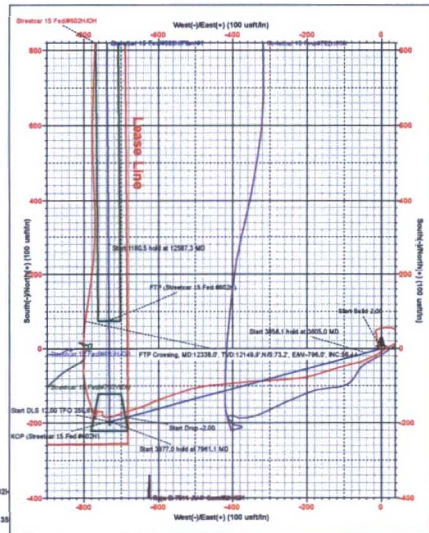
	+N/-S	+E/-W	Northing	KB = 35' @ 3376.0ush (HP 473)	Latitude	Longitude	Spot
	0.0	0.0	409714.00	East	32° 7' 26.337 N	103° 33' 13.460 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3105.0	0.00	0.00	3105.0	0.0	0.0	0.00	0.00	0.0	
3	3605.0	10.00	255.00	3602.5	-11.3	-42.0	2.00	255.00	-4.5	
4	7461.1	10.00	255.00	7400.0	-184.6	-688.8	0.00	0.00	-73.7	
5	7961.1	0.00	0.00	7897.5	-195.8	-730.9	2.00	180.00	-78.2	
6	11838.2	0.00	0.00	11774.5	-195.8	-730.9	0.00	0.00	-78.2	
7	12587.3	89.90	359.61	12252.0	280.8	-734.1	12.00	359.61	393.0	
8	13767.9	89.90	359.61	12254.0	1461.3	-742.2	0.00	0.00	1560.0	TGT 1 (Streetcar 15 Fed #602H)
9	13770.4	89.95	359.61	12254.0	1463.8	-742.2	2.00	0.00	1562.5	
10	14948.4	89.95	359.61	12255.0	2641.8	-750.3	0.00	0.00	2727.0	TGT 2 (Streetcar 15 Fed #602H)
11	16048.0	89.94	359.61	12256.0	3741.4	-757.8	0.00	180.00	3814.1	TGT 3 (Streetcar 15 Fed #602H)
12	17100.6	89.94	359.61	12257.0	4794.0	-765.0	0.00	0.00	4854.7	PBHL (Streetcar 15 Fed #602H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	East	Shape
KOP (Streetcar 15 Fed #602H)	11774.5	+195.8	-730.9	409816.16	781948.13	Polygon
FTP (Streetcar 15 Fed #602H)	12252.0	75.0	-733.0	409789.00	781947.00	Point
TGT 1 (Streetcar 15 Fed #602H)	12254.0	1461.3	-742.2	411175.30	781937.79	Point
TGT 2 (Streetcar 15 Fed #602H)	12255.0	2641.8	-750.3	412355.80	781939.72	Point
TGT 3 (Streetcar 15 Fed #602H)	12256.0	3741.4	-757.8	413455.40	781922.20	Point
PBHL (Streetcar 15 Fed #602H)	12257.0	4794.0	-765.0	414508.00	781915.00	Rectangle (Sides: L0.0 W60.0)



Lea County, NM (NAD 83 NME)
HP 473
Streetcar 15 Fed #602H
Plan #1
Date: 12/08/2017
By: [Signature]



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

#602H

OH

Design: OH

PVA Report

16 October, 2017

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #602H
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:	#602H	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	#602H		
Well Position	+N/-S	0.0 usft	Northing: 409,714.00 usft
	+E/-W	0.0 usft	Easting: 782,680.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation: usft
			Latitude: 32° 7' 26.337 N
			Longitude: 103° 33' 13.460 W
			Ground Level: 3,351.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	7/18/2017	6.93
			Dip Angle (°) 59.97
			Field Strength (nT) 47,872.35017118

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)
	0.0	0.0	0.0
			Direction (°) 350.93

Survey Program	Date 10/16/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
196.0	17,112.0	Intrepid MWD (OH)	MWD
			Description MWD - Standard

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #602H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #602H
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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
196.0	0.40	324.50	196.0	0.6	-0.4	0.20	0.20	0.00	-0.7	0.0
327.0	0.70	286.90	327.0	1.2	-1.4	0.35	0.23	-28.70	-1.7	-0.7
463.0	0.60	298.20	463.0	1.7	-2.9	0.12	-0.07	8.31	-3.3	-0.2
649.0	1.00	315.50	649.0	3.4	-4.8	0.25	0.22	9.30	-5.8	1.1
801.0	1.90	340.80	800.9	6.7	-6.6	0.71	0.59	16.64	-8.5	4.0
987.0	3.00	352.70	986.7	14.4	-8.2	0.65	0.59	6.40	-15.4	6.3
1,173.0	3.80	354.00	1,172.4	25.4	-9.5	0.43	0.43	0.70	-26.2	6.8
1,302.0	4.00	349.50	1,301.1	34.1	-10.8	0.28	0.16	-3.49	-35.4	4.4
1,489.0	1.30	338.80	1,487.9	42.4	-12.7	1.46	-1.44	-5.72	-44.2	-3.5
1,675.0	1.10	348.90	1,673.9	46.2	-13.8	0.16	-0.11	5.43	-48.0	4.7
1,862.0	1.10	27.40	1,860.8	49.5	-13.3	0.39	0.00	20.59	-37.8	34.6
2,049.0	1.90	67.90	2,047.8	52.3	-9.7	0.69	0.43	21.66	-10.7	52.1
2,234.0	2.90	81.80	2,232.6	54.1	-2.2	0.62	0.54	7.51	-5.6	53.9
2,420.0	4.30	75.00	2,418.2	56.6	9.2	0.79	0.75	-3.66	-23.5	52.3
2,606.0	5.60	97.30	2,603.6	57.2	25.0	1.24	0.70	11.99	-17.4	60.0
2,794.0	3.40	130.90	2,791.0	52.4	38.3	1.78	-1.17	17.87	5.4	64.7
2,979.0	4.10	125.10	2,975.6	45.0	47.8	0.43	0.38	-3.14	-13.2	64.3
3,166.0	4.20	178.80	3,162.2	34.3	53.4	2.00	0.05	28.72	33.3	54.7
3,353.0	3.70	218.40	3,348.8	22.7	49.8	1.45	-0.27	21.18	57.0	30.9
3,539.0	4.00	239.50	3,534.4	14.8	40.5	0.77	0.16	11.34	72.8	16.1
3,726.0	7.00	244.40	3,720.5	6.5	24.6	1.62	1.60	2.62	87.0	16.1
3,912.0	9.80	234.10	3,904.5	-7.7	1.6	1.70	1.51	-5.54	86.1	40.6
4,100.0	13.30	245.50	4,088.7	-26.0	-31.1	2.21	1.86	6.06	87.1	31.7
4,285.0	14.10	257.00	4,268.4	-39.9	-72.4	1.53	0.43	6.22	80.1	17.1
4,473.0	15.00	254.10	4,450.4	-51.7	-118.1	0.62	0.48	-1.54	64.2	20.5
4,660.0	13.50	249.70	4,631.6	-65.9	-161.9	0.99	-0.80	-2.35	48.6	26.4

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #602H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #602H
 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)
4,847.0	15.30	261.50	4,812.8	-77.2	-206.8	1.84	0.96	6.31	38.8	16.9
5,035.0	14.70	266.60	4,994.4	-82.2	-255.1	0.77	-0.32	2.71	23.2	9.0
5,223.0	14.30	266.90	5,176.4	-84.9	-302.1	0.22	-0.21	0.16	7.8	2.3
5,411.0	14.20	265.60	5,358.6	-87.9	-348.3	0.18	-0.05	-0.69	-6.7	-4.1
5,598.0	14.00	264.70	5,540.0	-91.8	-393.7	0.16	-0.11	-0.48	-20.5	-10.0
5,785.0	14.10	264.50	5,721.4	-96.1	-438.9	0.06	0.05	-0.11	-34.1	-15.5
5,958.0	13.50	260.80	5,889.4	-101.3	-479.8	0.62	-0.35	-2.14	-44.6	-22.0
6,146.0	12.00	252.30	6,072.8	-110.8	-520.1	1.28	-0.80	-4.52	-49.8	-30.0
6,333.0	9.90	250.10	6,256.4	-122.1	-553.7	1.14	-1.12	-1.18	-51.8	-29.8
6,519.0	9.70	252.00	6,439.7	-132.4	-583.6	0.20	-0.11	1.02	-52.1	-25.9
6,706.0	9.40	245.30	6,624.1	-143.7	-612.5	0.62	-0.16	-3.58	-47.7	-28.0
6,893.0	8.30	252.10	6,808.8	-154.2	-639.2	0.81	-0.59	3.64	-46.8	-18.9
7,081.0	7.30	252.10	6,995.1	-162.1	-663.5	0.53	-0.53	0.00	-39.6	-17.2
7,267.0	8.30	251.30	7,179.4	-170.0	-687.5	0.54	0.54	-0.43	-32.3	-15.8
7,452.0	7.30	251.80	7,362.7	-177.9	-711.3	0.54	-0.54	0.27	-25.4	-13.6
7,639.0	5.20	258.30	7,548.5	-183.4	-730.9	1.18	-1.12	3.48	-18.6	-11.0
7,824.0	1.80	291.10	7,733.2	-184.0	-741.8	2.06	-1.84	17.73	-18.2	-4.3
8,011.0	1.00	321.10	7,920.1	-181.7	-745.5	0.57	-0.43	16.04	-20.2	2.5
8,199.0	0.70	272.40	8,108.1	-180.4	-747.7	0.40	-0.16	-25.90	-17.5	-14.7
8,384.0	0.60	315.30	8,293.1	-179.6	-749.5	0.26	-0.05	23.19	-24.6	1.9
8,571.0	0.60	9.70	8,480.1	-178.0	-750.1	0.29	0.00	29.09	-14.4	21.9
8,757.0	1.10	17.10	8,666.1	-175.3	-749.4	0.27	0.27	3.98	-14.2	23.7
8,943.0	0.80	359.10	8,852.0	-172.3	-748.9	0.23	-0.16	-9.68	-23.8	17.6
9,130.0	0.40	26.00	9,039.0	-170.4	-748.6	0.26	-0.21	14.39	-15.1	27.1
9,317.0	0.60	316.30	9,226.0	-169.1	-749.0	0.32	0.11	-37.27	-31.8	-5.4
9,502.0	0.90	274.90	9,411.0	-168.3	-751.1	0.32	0.16	-22.38	-22.5	-25.7
9,688.0	2.40	255.10	9,596.9	-169.2	-756.3	0.85	0.81	-10.65	-17.7	-32.3

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #602H
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:	#602H	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)	
9,875.0	3.00	280.20	9,783.7	-169.3	-764.9	0.70	0.32	13.42	-38.2	-20.1	
10,062.0	1.50	297.50	9,970.6	-167.3	-771.9	0.87	-0.80	9.25	-49.6	-6.4	
10,251.0	1.50	30.10	10,159.5	-164.0	-772.9	1.15	0.00	48.99	-6.5	52.3	
10,439.0	1.60	95.30	10,347.5	-162.1	-769.0	0.89	0.05	34.68	41.1	30.0	
10,626.0	0.30	96.80	10,534.5	-162.4	-765.9	0.70	-0.70	0.80	38.8	29.0	
10,813.0	1.10	173.70	10,721.4	-164.3	-765.2	0.57	0.43	41.12	35.1	-30.7	
11,000.0	1.50	170.60	10,908.4	-168.5	-764.6	0.22	0.21	-1.66	32.5	-28.9	
11,187.0	1.60	198.00	11,095.3	-173.4	-765.1	0.40	0.05	14.65	10.8	-39.5	
11,373.0	1.10	196.80	11,281.3	-177.6	-766.4	0.27	-0.27	-0.65	7.2	-39.3	
11,560.0	1.50	178.40	11,468.2	-181.7	-766.8	0.31	0.21	-9.84	15.1	-35.5	
11,741.0	1.90	179.50	11,649.2	-187.1	-766.7	0.22	0.22	0.61	9.1	-35.8	
11,910.0	10.50	336.30	11,817.3	-175.8	-772.9	7.26	5.09	92.78	-33.3	31.4	
11,957.0	18.10	339.20	11,862.8	-165.0	-777.2	16.24	16.17	6.17	-36.7	35.9	
12,004.0	24.40	342.50	11,906.6	-148.9	-782.8	13.64	13.40	7.02	-40.5	42.1	
12,051.0	33.30	344.10	11,947.8	-127.2	-789.2	19.01	18.94	3.40	-46.3	48.5	
12,098.0	38.80	349.70	11,985.7	-100.3	-795.4	13.63	11.70	11.91	-49.8	57.6	
12,145.0	42.40	354.20	12,021.4	-70.0	-799.6	9.87	7.66	9.57	-52.8	64.4	
12,190.0	44.90	358.80	12,054.0	-39.0	-801.5	8.98	5.56	10.22	-53.1	69.1	
12,237.0	47.80	2.30	12,086.4	-5.0	-801.2	8.19	6.17	7.45	-52.0	70.6	
12,284.0	49.80	2.90	12,117.4	30.3	-799.5	4.36	4.26	1.28	-50.1	69.0	
12,331.0	55.20	5.90	12,146.0	67.5	-796.7	12.55	11.49	6.38	-45.0	66.8	
12,338.0	56.44	6.47	12,149.9	73.2	-796.0	18.98	17.73	8.19	-44.2	66.2	
FTP Crossing, MD:12338.0', TVD:12149.9', N/S:73.2', E/W:-796.0', INC:56.44											
12,377.0	63.40	9.40	12,169.5	106.6	-791.3	18.98	17.84	7.50	-41.5	61.4	
12,424.0	69.40	8.80	12,188.3	149.1	-784.5	12.82	12.77	-1.28	-40.5	53.3	
12,470.0	72.90	6.90	12,203.1	192.2	-778.6	8.55	7.61	-4.13	-38.2	46.3	
12,517.0	74.30	5.50	12,216.4	237.1	-773.7	4.13	2.98	-2.98	-32.3	40.8	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #602H
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:	#602H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
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12,564.0	76.00	1.80	12,228.5	282.4	-770.8	8.42	3.62	-7.87	-22.8	37.2	
12,610.0	79.10	1.00	12,238.4	327.3	-769.8	6.95	6.74	-1.74	-13.3	35.4	
12,657.0	86.90	358.80	12,244.1	373.9	-769.8	17.23	16.60	-4.68	-8.0	35.1	
12,697.0	89.30	357.00	12,245.4	413.9	-771.3	7.50	6.00	-4.50	-6.8	36.3	
12,776.0	90.60	357.60	12,245.5	492.8	-775.0	1.81	1.65	0.76	-6.8	39.4	
12,868.0	89.80	1.30	12,245.2	584.7	-775.9	4.11	-0.87	4.02	-7.3	39.7	
12,962.0	89.10	1.70	12,246.1	678.7	-773.4	0.86	-0.74	0.43	-6.6	36.6	
13,056.0	88.50	1.90	12,248.1	772.6	-770.5	0.67	-0.64	0.21	-4.7	33.0	
13,150.0	88.20	2.60	12,250.8	866.5	-766.8	0.81	-0.32	0.74	-2.2	28.7	
13,242.0	87.30	2.00	12,254.4	958.4	-763.1	1.18	-0.98	-0.65	1.3	24.4	
13,335.0	91.50	3.00	12,255.3	1,051.3	-759.1	4.64	4.52	1.08	2.0	19.7	
13,427.0	89.80	3.30	12,254.3	1,143.1	-754.0	1.88	-1.85	0.33	0.9	14.0	
13,518.0	88.20	2.40	12,255.9	1,234.0	-749.5	2.02	-1.76	-0.99	2.3	8.8	
13,610.0	88.60	3.30	12,258.5	1,325.8	-744.9	1.07	0.43	0.98	4.7	3.6	
13,702.0	88.40	3.70	12,260.9	1,417.6	-739.3	0.49	-0.22	0.43	6.9	-2.6	
13,795.0	88.20	2.10	12,263.6	1,510.5	-734.6	1.73	-0.22	-1.72	9.6	-8.0	
13,888.0	89.50	2.60	12,265.5	1,603.4	-730.8	1.50	1.40	0.54	11.4	-12.4	
13,982.0	87.60	1.70	12,267.9	1,697.3	-727.3	2.24	-2.02	-0.96	13.7	-16.6	
14,076.0	88.00	0.80	12,271.5	1,791.2	-725.2	1.05	0.43	-0.96	17.2	-19.3	
14,170.0	87.20	0.50	12,275.4	1,885.1	-724.1	0.91	-0.85	-0.32	21.0	-21.0	
14,263.0	86.60	1.50	12,280.4	1,977.9	-722.5	1.25	-0.65	1.08	26.0	-23.3	
14,358.0	89.10	359.50	12,284.0	2,072.9	-721.7	3.37	2.63	-2.11	29.5	-24.7	
14,451.0	90.60	359.40	12,284.3	2,165.8	-722.6	1.62	1.61	-0.11	29.7	-24.4	
14,544.0	92.00	358.90	12,282.1	2,258.8	-724.0	1.60	1.51	-0.54	27.5	-23.7	
14,637.0	93.40	358.30	12,277.8	2,351.7	-726.2	1.64	1.51	-0.65	23.0	-22.1	
14,730.0	92.90	358.60	12,272.7	2,444.5	-728.7	0.63	-0.54	0.32	17.8	-20.2	
14,824.0	92.10	357.90	12,268.6	2,538.4	-731.6	1.13	-0.85	-0.74	13.6	-18.0	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #602H
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:	#602H	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	91.40	357.20	12,265.7	2,632.2	-735.6	1.05	-0.74	-0.74	10.7	-14.6
15,011.0	89.60	357.30	12,264.9	2,725.1	-740.1	1.94	-1.94	0.11	9.8	-10.8
15,105.0	90.20	357.20	12,265.0	2,819.0	-744.6	0.65	0.64	-0.11	9.9	-6.9
15,199.0	87.30	358.40	12,267.1	2,912.9	-748.2	3.34	-3.09	1.28	11.8	-3.9
15,291.0	87.60	358.80	12,271.2	3,004.8	-750.5	0.54	0.33	0.43	15.9	-2.3
15,385.0	88.90	359.50	12,274.0	3,098.7	-751.9	1.57	1.38	0.74	18.6	-1.6
15,478.0	86.90	358.10	12,277.5	3,191.6	-753.8	2.62	-2.15	-1.51	22.0	-0.2
15,572.0	86.90	358.80	12,282.5	3,285.5	-756.3	0.74	0.00	0.74	27.0	1.7
15,668.0	87.80	358.70	12,287.0	3,381.3	-758.4	0.94	0.94	-0.10	31.3	3.1
15,762.0	89.00	359.50	12,289.6	3,475.3	-759.9	1.53	1.28	0.85	33.9	3.9
15,857.0	90.70	0.70	12,289.9	3,570.3	-759.7	2.19	1.79	1.26	34.0	3.1
15,950.0	88.20	0.20	12,290.7	3,663.3	-759.0	2.74	-2.69	-0.54	34.8	1.7
16,043.0	89.10	0.50	12,292.9	3,756.2	-758.4	1.02	0.97	0.32	36.9	0.5
16,137.0	91.80	0.60	12,292.2	3,850.2	-757.5	2.87	2.87	0.11	36.1	-1.0
16,230.0	90.80	359.50	12,290.1	3,943.2	-757.5	1.60	-1.08	-1.18	33.9	-1.7
16,323.0	87.40	357.90	12,291.5	4,036.1	-759.6	4.04	-3.66	-1.72	35.3	-0.3
16,416.0	87.90	358.70	12,295.4	4,129.0	-762.3	1.01	0.54	0.86	39.0	1.9
16,509.0	88.20	358.40	12,298.5	4,221.9	-764.7	0.46	0.32	-0.32	42.1	3.6
16,602.0	90.50	358.00	12,299.6	4,314.9	-767.6	2.51	2.47	-0.43	43.0	5.9
16,696.0	92.60	358.20	12,297.0	4,408.8	-770.7	2.24	2.23	0.21	40.4	8.3
16,789.0	88.00	358.00	12,296.6	4,501.7	-773.8	4.95	-4.95	-0.22	39.8	10.8
16,882.0	86.90	358.10	12,300.7	4,594.6	-777.0	1.19	-1.18	0.11	43.9	13.3
16,976.0	96.20	352.30	12,298.1	4,688.1	-784.8	11.66	9.89	-6.17	41.3	20.4
16,977.0	96.20	352.30	12,298.0	4,689.0	-784.9	0.00	0.00	0.00	41.2	20.5
LTP Crossing, MD:16977.0', TVD:12298.0', N/S:4689.0', E/W:-784.9', INC:96.20										
17,053.0	96.20	352.10	12,289.8	4,763.9	-795.2	0.26	0.00	-0.26	33.1	30.1
Final MWD Survey (MD=17053.0')										

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #602H
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:	#602H	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)
17,112.0	96.20	352.10	12,283.5	4,822.0	-803.2	0.00	0.00	0.00	35.8	40.8
Final Projection to Bit (MD=17112.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,338.0	12,149.9	73.2	-796.0	FTP Crossing, MD:12338.0', TVD:12149.9', N/S:73.2', E/W:-796.0', INC:56.44
16,977.0	12,298.0	4,689.0	-784.9	LTP Crossing, MD:16977.0', TVD:12298.0', N/S:4689.0', E/W:-784.9', INC:96.20
17,053.0	12,289.8	4,763.9	-795.2	Final MWD Survey (MD=17053.0')
17,112.0	12,283.5	4,822.0	-803.2	Final Projection to Bit (MD=17112.0')

Checked By: _____	Approved By: _____	Date: _____
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