



Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

#703Y

H&P 647

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GR5 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.52°
Magnetic Field
Strength: 47672.1 nT
Dip Angle: 68.57°
Date: 7/18/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.52°
To convert a Magnetic Direction to a True Direction, Add 6.83° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #703Y

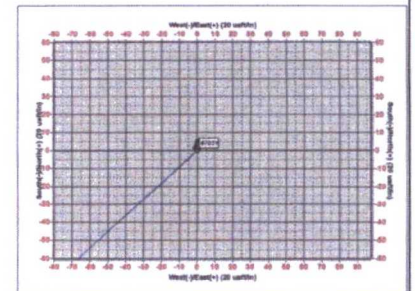
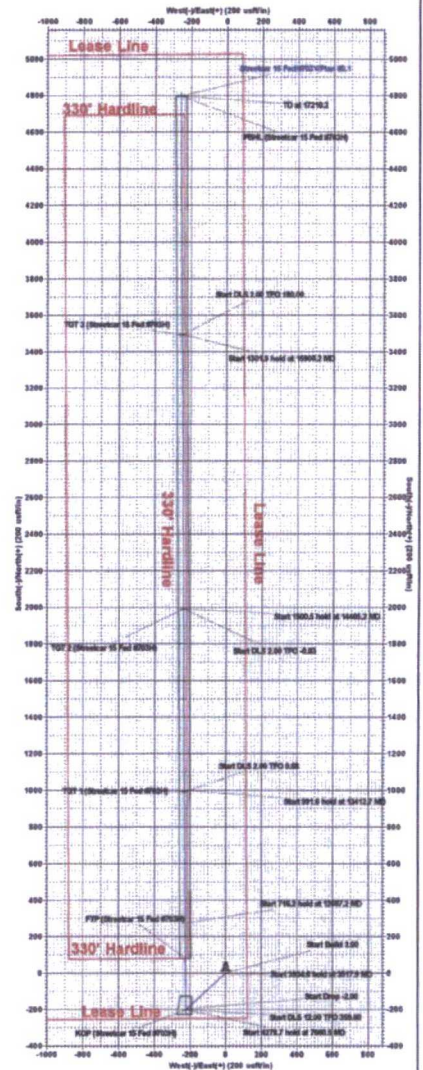
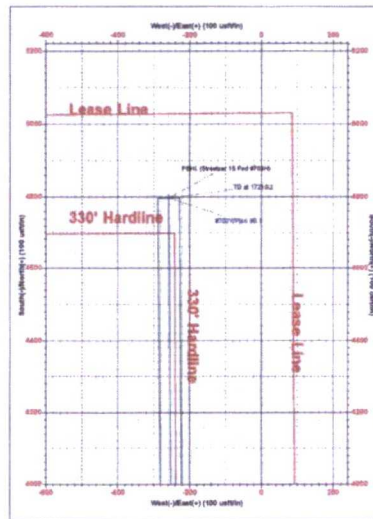
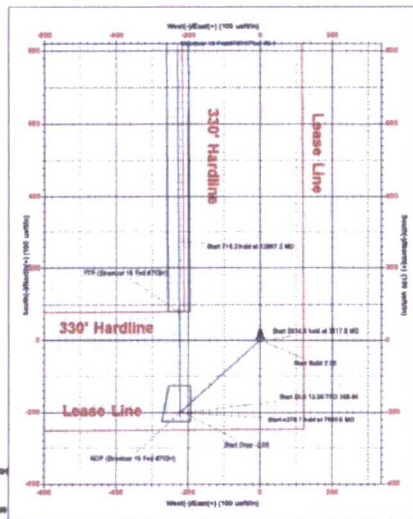
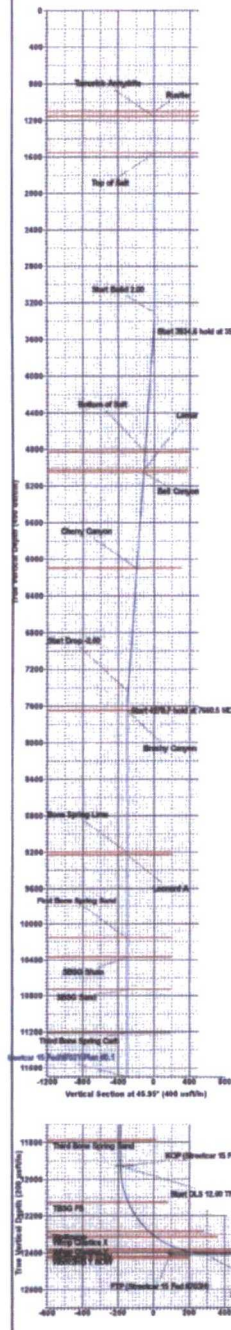
3353.0
KB = 29 @ 3378 Depth (H&P 647)
Easting: 781893.00 32° 7' 28.334 N
Northing: 409708.00 103° 33' 22.811 W
Slat

SECTION DETAILS

	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	3310.0	0.00	0.00	3310.0	0.0	0.0	0.00	0.00	0.0	
3	3517.9	4.16	227.94	3517.8	-5.1	-5.6	2.00	227.94	-4.7	
4	7452.6	4.16	227.94	7442.0	-196.2	-217.5	0.00	0.00	-184.3	
5	7660.5	0.00	0.00	7649.8	-201.3	-223.1	2.00	180.00	-189.0	
6	11939.2	0.00	0.00	11928.5	-201.3	-223.1	0.00	0.00	-189.0	
7	12667.2	89.76	359.60	12406.0	274.2	-226.4	12.00	359.60	285.9	KOP (Streetcar 15 Fed #703H)
8	13403.4	89.76	359.60	12409.0	990.3	-231.4	0.00	0.00	1001.3	TGT 1 (Streetcar 15 Fed #703H)
9	13412.7	89.94	359.60	12409.0	999.6	-231.5	2.00	0.68	1010.6	
10	14404.3	89.94	359.60	12410.0	1991.2	-238.4	0.00	0.00	2001.1	TGT 2 (Streetcar 15 Fed #703H)
11	14405.2	89.96	359.60	12410.0	1992.1	-238.4	2.00	-0.03	2002.0	
12	15905.7	89.96	359.60	12411.0	3492.6	-248.9	0.00	0.00	3500.9	TGT 3 (Streetcar 15 Fed #703H)
13	15908.2	89.91	359.60	12411.0	3495.1	-248.9	2.00	180.00	3503.4	
14	17210.2	89.91	359.60	12413.0	4797.0	-258.0	0.00	0.00	4803.9	PBHL (Streetcar 15 Fed #703H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
KOP (Streetcar 15 Fed #703H)	11928.5	-201.3	-223.1	409906.73	781899.94	Polygon
PTP (Streetcar 15 Fed #703H)	12406.0	78.0	-226.0	409787.00	781867.00	Point
TGT 1 (Streetcar 15 Fed #703H)	13409.0	960.3	-231.4	410986.39	781861.88	Point
TGT 2 (Streetcar 15 Fed #703H)	13410.0	1991.2	-238.4	411699.20	781864.89	Point
TGT 3 (Streetcar 15 Fed #703H)	12411.0	3492.6	-248.9	413200.00	781644.11	Point
PBHL (Streetcar 15 Fed #703H)	12413.0	4797.0	-258.0	414608.00	781638.00	Rectangle (Sides: L0.0 W90.0)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

#703Y

72040

OH

Plan: Plan #0.1

Standard Planning Report

07 September, 2017

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Site:	Streetcar 15 Fed	North Reference:	Grid
Well:	#703Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	#703Y					
Well Position	+N/-S	-6.0 usft	Northing:	409,708.00 usft	Latitude:	32° 7' 26.334 N
	+E/-W	-787.0 usft	Easting:	781,893.00 usft	Longitude:	103° 33' 22.611 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,353.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/18/2017	6.93	59.97	47,872.05234489

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	-2.0	0.0	0.0	356.92

Plan Survey Tool Program	Date 9/7/2017			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,210.2 Plan #0.1 (OH)	MWD	
			MWD - Standard	

Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #703Y
 Wellbore: OH
 Design: Plan #0.1

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

Well #703Y
 KB = 25 @ 3378.0usft (H&P 647)
 KB = 25 @ 3378.0usft (H&P 647)
 Grid
 Minimum Curvature

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,310.0	0.00	0.00	3,310.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,517.9	4.16	227.94	3,517.8	-5.1	-5.6	2.00	2.00	0.00	227.94	
7,452.6	4.16	227.94	7,442.0	-196.2	-217.5	0.00	0.00	0.00	0.00	
7,660.5	0.00	0.00	7,649.8	-201.3	-223.1	2.00	-2.00	0.00	180.00	
11,939.2	0.00	0.00	11,928.5	-201.3	-223.1	0.00	0.00	0.00	0.00	KOP (Streetcar 15 Fe
12,687.2	89.76	359.60	12,406.0	274.2	-226.4	12.00	12.00	-0.05	359.60	
13,403.4	89.76	359.60	12,409.0	990.3	-231.4	0.00	0.00	0.00	0.00	TGT 1 (Streetcar 15 F
13,412.7	89.94	359.60	12,409.0	999.6	-231.5	2.00	2.00	0.02	0.68	
14,404.3	89.94	359.60	12,410.0	1,991.2	-238.4	0.00	0.00	0.00	0.00	TGT 2 (Streetcar 15 F
14,405.2	89.96	359.60	12,410.0	1,992.1	-238.4	2.00	2.00	0.00	-0.03	
15,905.7	89.96	359.60	12,411.0	3,492.6	-248.9	0.00	0.00	0.00	0.00	TGT 3 (Streetcar 15 F
15,908.2	89.91	359.60	12,411.0	3,495.1	-248.9	2.00	-2.00	0.00	180.00	
17,210.2	89.91	359.60	12,413.0	4,797.0	-258.0	0.00	0.00	0.00	0.00	PBHL (Streetcar 15 F

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Site:	Streetcar 15 Fed	North Reference:	Grid
Well:	#703Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,105.0	0.00	0.00	1,105.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,156.0	0.00	0.00	1,156.0	0.0	0.0	0.0	0.00	0.00	0.00
Tamarisk Anhydrite									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,558.0	0.00	0.00	1,558.0	0.0	0.0	0.0	0.00	0.00	0.00
Top of Salt									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,310.0	0.00	0.00	3,310.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	1.80	227.94	3,400.0	-0.9	-1.0	-0.9	2.00	2.00	0.00
3,500.0	3.80	227.94	3,499.9	-4.2	-4.7	-4.0	2.00	2.00	0.00
3,517.9	4.16	227.94	3,517.8	-5.1	-5.6	-4.7	2.00	2.00	0.00
3,600.0	4.16	227.94	3,599.6	-9.0	-10.0	-8.5	0.00	0.00	0.00
3,700.0	4.16	227.94	3,699.3	-13.9	-15.4	-13.1	0.00	0.00	0.00
3,800.0	4.16	227.94	3,799.1	-18.8	-20.8	-17.6	0.00	0.00	0.00
3,900.0	4.16	227.94	3,898.8	-23.6	-26.2	-22.2	0.00	0.00	0.00
4,000.0	4.16	227.94	3,998.5	-28.5	-31.6	-26.7	0.00	0.00	0.00
4,100.0	4.16	227.94	4,098.3	-33.3	-36.9	-31.3	0.00	0.00	0.00
4,200.0	4.16	227.94	4,198.0	-38.2	-42.3	-35.9	0.00	0.00	0.00
4,300.0	4.16	227.94	4,297.8	-43.0	-47.7	-40.4	0.00	0.00	0.00
4,400.0	4.16	227.94	4,397.5	-47.9	-53.1	-45.0	0.00	0.00	0.00

Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #703Y
Wellbore: OH
Design: Plan #0.1

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

Well #703Y
KB = 25 @ 3378.0usft (H&P 647)
KB = 25 @ 3378.0usft (H&P 647)
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.0	4.16	227.94	4,497.2	-52.8	-58.5	-49.5	0.00	0.00	0.00
4,600.0	4.16	227.94	4,597.0	-57.6	-63.9	-54.1	0.00	0.00	0.00
4,700.0	4.16	227.94	4,696.7	-62.5	-69.2	-58.7	0.00	0.00	0.00
4,800.0	4.16	227.94	4,796.4	-67.3	-74.6	-63.2	0.00	0.00	0.00
4,834.6	4.16	227.94	4,831.0	-69.0	-76.5	-64.8	0.00	0.00	0.00
Bottom of Salt									
4,900.0	4.16	227.94	4,896.2	-72.2	-80.0	-67.8	0.00	0.00	0.00
5,000.0	4.16	227.94	4,995.9	-77.1	-85.4	-72.4	0.00	0.00	0.00
5,033.2	4.16	227.94	5,029.0	-78.7	-87.2	-73.9	0.00	0.00	0.00
Lamar									
5,057.2	4.16	227.94	5,053.0	-79.8	-88.5	-75.0	0.00	0.00	0.00
Bell Canyon									
5,100.0	4.16	227.94	5,095.7	-81.9	-90.8	-76.9	0.00	0.00	0.00
5,200.0	4.16	227.94	5,195.4	-86.8	-96.2	-81.5	0.00	0.00	0.00
5,300.0	4.16	227.94	5,295.1	-91.6	-101.6	-86.0	0.00	0.00	0.00
5,400.0	4.16	227.94	5,394.9	-96.5	-106.9	-90.6	0.00	0.00	0.00
5,500.0	4.16	227.94	5,494.6	-101.4	-112.3	-95.2	0.00	0.00	0.00
5,600.0	4.16	227.94	5,594.3	-106.2	-117.7	-99.7	0.00	0.00	0.00
5,700.0	4.16	227.94	5,694.1	-111.1	-123.1	-104.3	0.00	0.00	0.00
5,800.0	4.16	227.94	5,793.8	-115.9	-128.5	-108.9	0.00	0.00	0.00
5,900.0	4.16	227.94	5,893.5	-120.8	-133.9	-113.4	0.00	0.00	0.00
6,000.0	4.16	227.94	5,993.3	-125.6	-139.2	-118.0	0.00	0.00	0.00
6,100.0	4.16	227.94	6,093.0	-130.5	-144.6	-122.5	0.00	0.00	0.00
6,110.0	4.16	227.94	6,103.0	-131.0	-145.2	-123.0	0.00	0.00	0.00
Cherry Canyon									
6,200.0	4.16	227.94	6,192.8	-135.4	-150.0	-127.1	0.00	0.00	0.00
6,300.0	4.16	227.94	6,292.5	-140.2	-155.4	-131.7	0.00	0.00	0.00
6,400.0	4.16	227.94	6,392.2	-145.1	-160.8	-136.2	0.00	0.00	0.00
6,500.0	4.16	227.94	6,492.0	-149.9	-166.2	-140.8	0.00	0.00	0.00
6,600.0	4.16	227.94	6,591.7	-154.8	-171.6	-145.4	0.00	0.00	0.00
6,700.0	4.16	227.94	6,691.4	-159.7	-176.9	-149.9	0.00	0.00	0.00
6,800.0	4.16	227.94	6,791.2	-164.5	-182.3	-154.5	0.00	0.00	0.00
6,900.0	4.16	227.94	6,890.9	-169.4	-187.7	-159.0	0.00	0.00	0.00
7,000.0	4.16	227.94	6,990.6	-174.2	-193.1	-163.6	0.00	0.00	0.00
7,100.0	4.16	227.94	7,090.4	-179.1	-198.5	-168.2	0.00	0.00	0.00
7,200.0	4.16	227.94	7,190.1	-183.9	-203.9	-172.7	0.00	0.00	0.00
7,300.0	4.16	227.94	7,289.9	-188.8	-209.2	-177.3	0.00	0.00	0.00
7,400.0	4.16	227.94	7,389.6	-193.7	-214.6	-181.9	0.00	0.00	0.00
7,452.6	4.16	227.94	7,442.0	-196.2	-217.5	-184.3	0.00	0.00	0.00
7,500.0	3.21	227.94	7,489.4	-198.3	-219.7	-186.2	2.00	-2.00	0.00
7,600.0	1.21	227.94	7,589.3	-200.8	-222.6	-188.6	2.00	-2.00	0.00
7,660.5	0.00	0.00	7,649.8	-201.3	-223.1	-189.0	2.00	-2.00	0.00
7,663.7	0.00	0.00	7,653.0	-201.3	-223.1	-189.0	0.00	0.00	0.00
Brushy Canyon									
7,700.0	0.00	0.00	7,689.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,789.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,889.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,989.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,089.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,189.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,289.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,389.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,489.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,589.3	-201.3	-223.1	-189.0	0.00	0.00	0.00

Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #703Y
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3378.0usft (H&P 647)
MD Reference: KB = 25 @ 3378.0usft (H&P 647)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,700.0	0.00	0.00	8,689.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,789.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,889.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,989.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,089.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,189.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,213.7	0.00	0.00	9,203.0	-201.3	-223.1	-189.0	0.00	0.00	0.00
Bone Spring Lime									
9,243.7	0.00	0.00	9,233.0	-201.3	-223.1	-189.0	0.00	0.00	0.00
Leonard A									
9,300.0	0.00	0.00	9,289.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,389.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,489.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,589.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,689.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,789.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,889.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,989.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,089.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,172.7	0.00	0.00	10,162.0	-201.3	-223.1	-189.0	0.00	0.00	0.00
First Bone Spring Sand									
10,200.0	0.00	0.00	10,189.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,289.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,382.7	0.00	0.00	10,372.0	-201.3	-223.1	-189.0	0.00	0.00	0.00
SBSG Shale									
10,400.0	0.00	0.00	10,389.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,489.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,589.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,689.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,741.7	0.00	0.00	10,731.0	-201.3	-223.1	-189.0	0.00	0.00	0.00
SBSG Sand									
10,800.0	0.00	0.00	10,789.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,889.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,989.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,089.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,189.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,217.7	0.00	0.00	11,207.0	-201.3	-223.1	-189.0	0.00	0.00	0.00
Third Bone Spring Carb									
11,300.0	0.00	0.00	11,289.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,389.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,489.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,589.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,689.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,789.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,802.7	0.00	0.00	11,792.0	-201.3	-223.1	-189.0	0.00	0.00	0.00
Third Bone Spring Sand									
11,900.0	0.00	0.00	11,889.3	-201.3	-223.1	-189.0	0.00	0.00	0.00
11,939.2	0.00	0.00	11,928.5	-201.3	-223.1	-189.0	0.00	0.00	0.00
KOP (Streetcar 15 Fed #703H)									
11,950.0	1.29	359.60	11,939.3	-201.1	-223.1	-188.9	12.00	12.00	0.00
11,975.0	4.29	359.60	11,964.2	-199.9	-223.1	-187.7	12.00	12.00	0.00
12,000.0	7.29	359.60	11,989.1	-197.4	-223.1	-185.1	12.00	12.00	0.00
12,025.0	10.29	359.60	12,013.8	-193.6	-223.1	-181.3	12.00	12.00	0.00

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Site:	Streetcar 15 Fed	North Reference:	Grid
Well:	#703Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,050.0	13.29	359.60	12,038.3	-188.5	-223.1	-176.2	12.00	12.00	0.00	
12,075.0	16.29	359.60	12,062.5	-182.1	-223.2	-169.8	12.00	12.00	0.00	
12,100.0	19.29	359.60	12,086.3	-174.5	-223.2	-162.2	12.00	12.00	0.00	
12,125.0	22.29	359.60	12,109.6	-165.6	-223.3	-153.4	12.00	12.00	0.00	
12,148.3	25.09	359.60	12,131.0	-156.2	-223.4	-144.0	12.00	12.00	0.00	
TBSG FS										
12,150.0	25.29	359.60	12,132.5	-155.5	-223.4	-143.3	12.00	12.00	0.00	
12,175.0	28.29	359.60	12,154.8	-144.2	-223.5	-132.0	12.00	12.00	0.00	
12,200.0	31.29	359.60	12,176.5	-131.8	-223.5	-119.6	12.00	12.00	0.00	
12,225.0	34.29	359.60	12,197.5	-118.3	-223.6	-106.1	12.00	12.00	0.00	
12,250.0	37.29	359.60	12,217.8	-103.7	-223.7	-91.5	12.00	12.00	0.00	
12,275.0	40.29	359.60	12,237.3	-88.0	-223.9	-75.8	12.00	12.00	0.00	
12,300.0	43.29	359.60	12,255.9	-71.3	-224.0	-59.2	12.00	12.00	0.00	
12,325.0	46.29	359.60	12,273.6	-53.7	-224.1	-41.6	12.00	12.00	0.00	
12,347.7	49.02	359.60	12,288.9	-36.9	-224.2	-24.8	12.00	12.00	0.00	
Wolfcamp										
12,350.0	49.29	359.60	12,290.4	-35.2	-224.2	-23.1	12.00	12.00	0.00	
12,375.0	52.29	359.60	12,306.2	-15.8	-224.4	-3.8	12.00	12.00	0.00	
12,394.8	54.66	359.60	12,318.0	0.0	-224.5	12.1	12.00	12.00	0.00	
Wfmp Clastics X										
12,400.0	55.29	359.60	12,321.0	4.3	-224.5	16.4	12.00	12.00	0.00	
12,425.0	58.29	359.60	12,334.7	25.2	-224.6	37.3	12.00	12.00	0.00	
12,450.0	61.29	359.60	12,347.3	46.8	-224.8	58.9	12.00	12.00	0.00	
12,475.0	64.29	359.60	12,358.7	69.1	-225.0	81.1	12.00	12.00	0.00	
12,500.0	67.29	359.60	12,369.0	91.9	-225.1	103.8	12.00	12.00	0.00	
12,501.4	67.46	359.60	12,369.5	93.2	-225.1	105.1	12.00	12.00	0.00	
FTP (Streetcar 15 Fed #703H)										
12,525.0	70.29	359.60	12,378.0	115.2	-225.3	127.1	12.00	12.00	0.00	
12,550.0	73.29	359.60	12,385.8	138.9	-225.4	150.8	12.00	12.00	0.00	
12,551.4	73.45	359.60	12,386.2	140.2	-225.5	152.1	12.00	12.00	0.00	
Wfmp Clastics Y										
12,575.0	76.29	359.60	12,392.4	163.0	-225.6	174.9	12.00	12.00	0.00	
12,592.8	78.42	359.60	12,396.3	180.4	-225.7	192.2	12.00	12.00	0.00	
Wolfcamp Y TOW										
12,600.0	79.29	359.60	12,397.7	187.5	-225.8	199.3	12.00	12.00	0.00	
12,625.0	82.29	359.60	12,401.7	212.2	-226.0	224.0	12.00	12.00	0.00	
12,650.0	85.29	359.60	12,404.4	237.0	-226.1	248.8	12.00	12.00	0.00	
12,675.0	88.29	359.60	12,405.8	262.0	-226.3	273.7	12.00	12.00	0.00	
12,687.2	89.76	359.60	12,406.0	274.2	-226.4	285.9	12.00	12.00	0.00	
12,700.0	89.76	359.60	12,406.0	287.0	-226.5	298.7	0.00	0.00	0.00	
12,800.0	89.76	359.60	12,406.4	387.0	-227.2	398.6	0.00	0.00	0.00	
12,900.0	89.76	359.60	12,406.9	486.9	-227.9	498.5	0.00	0.00	0.00	
13,000.0	89.76	359.60	12,407.3	586.9	-228.6	598.4	0.00	0.00	0.00	
13,100.0	89.76	359.60	12,407.7	686.9	-229.3	698.3	0.00	0.00	0.00	
13,200.0	89.76	359.60	12,408.1	786.9	-230.0	798.2	0.00	0.00	0.00	
13,300.0	89.76	359.60	12,408.6	886.9	-230.7	898.0	0.00	0.00	0.00	
13,403.4	89.76	359.60	12,409.0	990.3	-231.4	1,001.3	0.00	0.00	0.00	
TGT 1 (Streetcar 15 Fed #703H)										
13,412.7	89.94	359.60	12,409.0	999.6	-231.5	1,010.6	2.00	2.00	0.02	
13,500.0	89.94	359.60	12,409.1	1,086.9	-232.1	1,097.8	0.00	0.00	0.00	
13,600.0	89.94	359.60	12,409.2	1,186.9	-232.8	1,197.7	0.00	0.00	0.00	
13,700.0	89.94	359.60	12,409.3	1,286.9	-233.5	1,297.6	0.00	0.00	0.00	
13,800.0	89.94	359.60	12,409.4	1,386.9	-234.2	1,397.5	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Site:	Streetcar 15 Fed	North Reference:	Grid
Well:	#703Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,900.0	89.94	359.60	12,409.5	1,486.9	-234.9	1,497.4	0.00	0.00	0.00
14,000.0	89.94	359.60	12,409.6	1,586.9	-235.6	1,597.3	0.00	0.00	0.00
14,100.0	89.94	359.60	12,409.7	1,686.9	-236.3	1,697.2	0.00	0.00	0.00
14,200.0	89.94	359.60	12,409.8	1,786.9	-237.0	1,797.1	0.00	0.00	0.00
14,300.0	89.94	359.60	12,409.9	1,886.9	-237.7	1,897.0	0.00	0.00	0.00
14,404.3	89.94	359.60	12,410.0	1,991.2	-238.4	2,001.1	0.00	0.00	0.00
TGT 2 (Streetcar 15 Fed #703H)									
14,405.2	89.96	359.60	12,410.0	1,992.1	-238.4	2,002.0	2.00	2.00	0.00
14,500.0	89.96	359.60	12,410.1	2,086.9	-239.1	2,096.7	0.00	0.00	0.00
14,600.0	89.96	359.60	12,410.1	2,186.9	-239.8	2,196.6	0.00	0.00	0.00
14,700.0	89.96	359.60	12,410.2	2,286.9	-240.5	2,296.5	0.00	0.00	0.00
14,800.0	89.96	359.60	12,410.3	2,386.9	-241.2	2,396.4	0.00	0.00	0.00
14,900.0	89.96	359.60	12,410.3	2,486.9	-241.9	2,496.3	0.00	0.00	0.00
15,000.0	89.96	359.60	12,410.4	2,586.9	-242.6	2,596.2	0.00	0.00	0.00
15,100.0	89.96	359.60	12,410.5	2,686.9	-243.3	2,696.1	0.00	0.00	0.00
15,200.0	89.96	359.60	12,410.5	2,786.9	-244.0	2,796.0	0.00	0.00	0.00
15,300.0	89.96	359.60	12,410.6	2,886.9	-244.7	2,895.9	0.00	0.00	0.00
15,400.0	89.96	359.60	12,410.7	2,986.9	-245.4	2,995.7	0.00	0.00	0.00
15,500.0	89.96	359.60	12,410.7	3,086.9	-246.1	3,095.6	0.00	0.00	0.00
15,600.0	89.96	359.60	12,410.8	3,186.9	-246.8	3,195.5	0.00	0.00	0.00
15,700.0	89.96	359.60	12,410.9	3,286.9	-247.5	3,295.4	0.00	0.00	0.00
15,800.0	89.96	359.60	12,410.9	3,386.9	-248.2	3,395.3	0.00	0.00	0.00
15,905.7	89.96	359.60	12,411.0	3,492.6	-248.9	3,500.9	0.00	0.00	0.00
TGT 3 (Streetcar 15 Fed #703H)									
15,908.2	89.91	359.60	12,411.0	3,495.1	-248.9	3,503.4	2.00	-2.00	0.00
16,000.0	89.91	359.60	12,411.1	3,586.9	-249.6	3,595.1	0.00	0.00	0.00
16,100.0	89.91	359.60	12,411.3	3,686.9	-250.2	3,695.0	0.00	0.00	0.00
16,200.0	89.91	359.60	12,411.5	3,786.9	-250.9	3,794.9	0.00	0.00	0.00
16,300.0	89.91	359.60	12,411.6	3,886.9	-251.6	3,894.8	0.00	0.00	0.00
16,400.0	89.91	359.60	12,411.8	3,986.9	-252.3	3,994.7	0.00	0.00	0.00
16,500.0	89.91	359.60	12,411.9	4,086.9	-253.0	4,094.5	0.00	0.00	0.00
16,600.0	89.91	359.60	12,412.1	4,186.9	-253.7	4,194.4	0.00	0.00	0.00
16,700.0	89.91	359.60	12,412.2	4,286.8	-254.4	4,294.3	0.00	0.00	0.00
16,800.0	89.91	359.60	12,412.4	4,386.8	-255.1	4,394.2	0.00	0.00	0.00
16,900.0	89.91	359.60	12,412.5	4,486.8	-255.8	4,494.1	0.00	0.00	0.00
17,000.0	89.91	359.60	12,412.7	4,586.8	-256.5	4,594.0	0.00	0.00	0.00
17,100.0	89.91	359.60	12,412.8	4,686.8	-257.2	4,693.9	0.00	0.00	0.00
17,200.0	89.91	359.60	12,413.0	4,786.8	-257.9	4,793.8	0.00	0.00	0.00
17,210.2	89.91	359.60	12,413.0	4,797.0	-258.0	4,803.9	0.00	0.00	0.00
PBHL (Streetcar 15 Fed #703H)									

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Site:	Streetcar 15 Fed	North Reference:	Grid
Well:	#703Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Streetcar 15 Fed # - plan hits target center - Polygon	0.00	0.00	11,928.5	-201.3	-223.1	409,506.73	781,669.94	32° 7' 24.358 N	103° 33' 25.222 W
Point 1			11,928.5	-25.0	-50.0	409,481.73	781,619.94		
Point 2			11,928.5	-25.0	30.0	409,481.73	781,699.94		
Point 3			11,928.5	75.0	30.0	409,581.73	781,699.94		
Point 4			11,928.5	75.0	-30.0	409,581.73	781,639.94		
FTP (Streetcar 15 Fed # - plan misses target center by 39.2usft at 12501.4usft MD (12369.5 TVD, 93.2 N, -225.1 E) - Point	0.00	0.00	12,406.0	79.0	-226.0	409,787.00	781,667.00	32° 7' 27.132 N	103° 33' 25.233 W
TGT 1 (Streetcar 15 Fed - plan hits target center - Point	0.00	0.00	12,409.0	990.3	-231.4	410,698.30	781,661.57	32° 7' 36.150 N	103° 33' 25.219 W
TGT 2 (Streetcar 15 Fed - plan hits target center - Point	0.00	0.00	12,410.0	1,991.2	-238.4	411,699.20	781,654.59	32° 7' 46.055 N	103° 33' 25.217 W
TGT 3 (Streetcar 15 Fed - plan hits target center - Point	0.00	0.00	12,411.0	3,492.6	-248.9	413,200.60	781,644.10	32° 8' 0.912 N	103° 33' 25.213 W
PBHL (Streetcar 15 Fed - plan hits target center - Rectangle (sides W60.0 H0.0 D4,718.0)	90.00	359.60	12,413.0	4,797.0	-258.0	414,505.00	781,635.00	32° 8' 13.820 N	103° 33' 25.209 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,105.0	1,105.0	Rustler			
1,156.0	1,156.0	Tamarisk Anhydrite			
1,558.0	1,558.0	Top of Salt			
4,834.6	4,831.0	Bottom of Salt			
5,033.2	5,029.0	Lamar			
5,057.2	5,053.0	Bell Canyon			
6,110.0	6,103.0	Cherry Canyon			
7,663.7	7,653.0	Brushy Canyon			
9,213.7	9,203.0	Bone Spring Lime			
9,243.7	9,233.0	Leonard A			
10,172.7	10,162.0	First Bone Spring Sand			
10,382.7	10,372.0	SBSG Shale			
10,741.7	10,731.0	SBSG Sand			
11,217.7	11,207.0	Third Bone Spring Carb			
11,802.7	11,792.0	Third Bone Spring Sand			
12,148.3	12,131.0	TBSG FS			
12,347.7	12,288.9	Wolfcamp		0.08	
12,394.8	12,318.0	Wfmp Clastics X		0.08	
12,551.4	12,386.2	Wfmp Clastics Y		0.08	
12,592.8	12,396.3	Wolfcamp Y TOW		0.08	

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3378.0usft (H&P 647)
Site:	Streetcar 15 Fed	North Reference:	Grid
Well:	#703Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		