eog resources

Lea County, NM (NAD 83 NME)

Neptune 10 State Com #707H

Plan #0.1

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.46°

Magnetic Field
Strength: 47672.1snT
Dip Angle: 60.06°
Date: 2/9/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.46°
To convert a Magnetic Direction to a True Direction, Add 6.88° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

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: #707H

3609.0
KB = 25' @ 3634.0usft

Northing	Easting	Latitude	Longitude
446524.00	780879.00	32° 13' 30.709 N	103° 33' 31.320 W

SECTION DETAILS

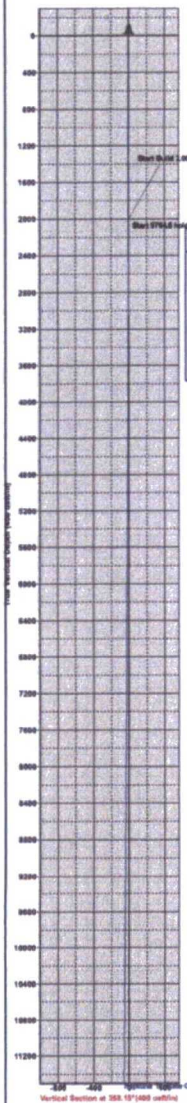
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2073.0	1.46	254.10	2073.0	-0.3	-0.9	2.00	254.10	-0.2	
4	11837.6	1.46	254.10	11834.4	-68.4	-240.1	0.00	0.00	-60.6	
5	12590.9	90.00	359.57	12315.0	409.0	-255.5	12.00	105.46	417.0	
6	22389.2	90.00	359.57	12315.0	10207.0	-329.0	0.00	0.00	10212.3	BHL (Neptune 10 St Com #707H)

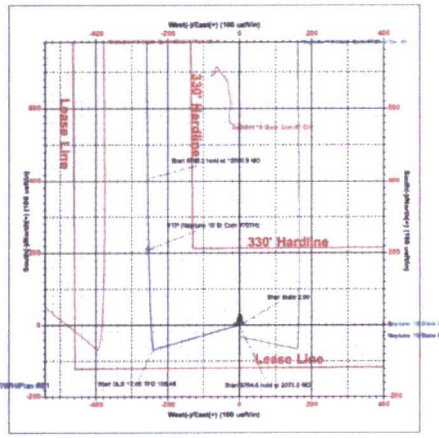
CASING DETAILS

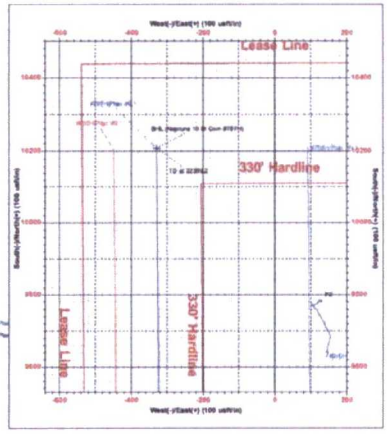
No casing data is available

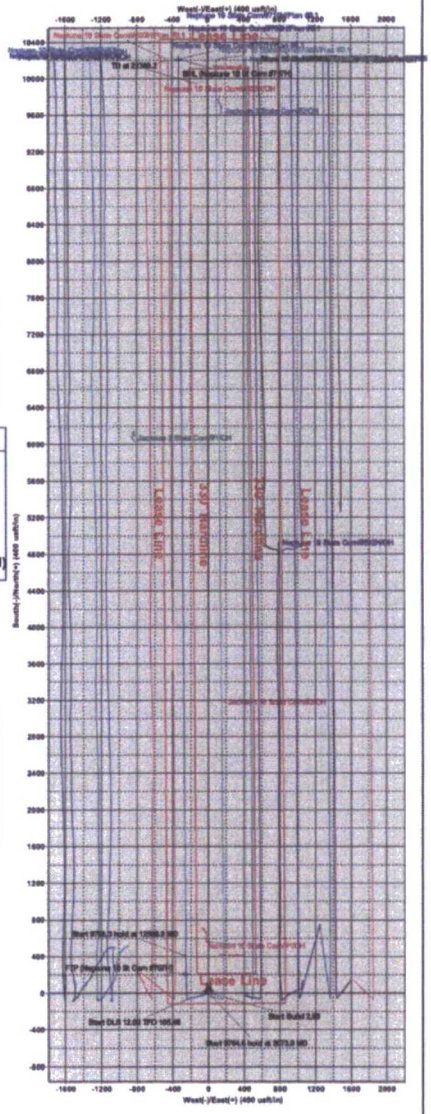
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

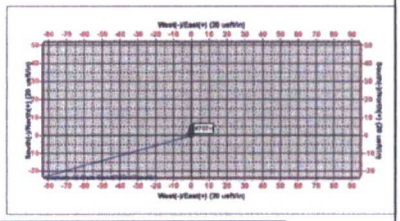
Name	TVD	+N/-S	+E/-W	Northing	Easting
BHL (Neptune 10 St Com #707H)	12315.0	10207.0	-329.0	456731.00	780550.00
FTP (Neptune 10 St Com #707H)	12315.0	209.0	-254.0	446733.00	780625.00

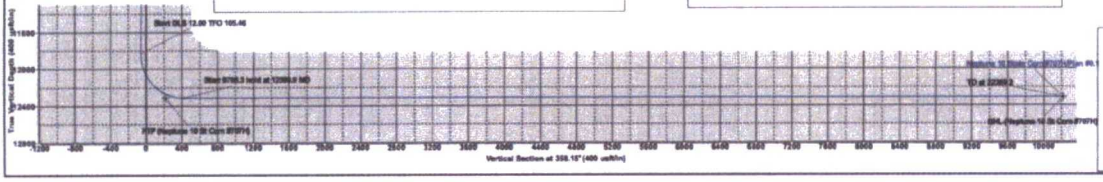


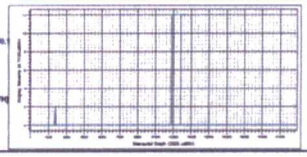












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Neptune 10 State Com
#707H

OH

Plan: Plan #0.1

Standard Planning Report

12 February, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3634.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3634.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#707H	**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	Neptune 10 State Com				
Site Position:		**Northing:**	446,557.00 usft	**Latitude:**	32° 13' 31.172 N
From:	Map	**Easting:**	778,964.00 usft	**Longitude:**	103° 33' 53.609 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.41 °

Well	#707H					
Well Position	**+N/-S**	-33.0 usft	**Northing:**	446,524.00 usft	**Latitude:**	32° 13' 30.709 N
	+E/-W	1,915.0 usft	**Easting:**	780,879.00 usft	**Longitude:**	103° 33' 31.320 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,609.0 usft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	2/9/2018	6.88	60.06	47,872.07006737

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 (°)**	
	0.0	0.0	0.0	358.15	

Plan Survey Tool Program **Date** 2/12/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,389.2	Plan #0.1 (OH)	MWD	
				MWD - Standard	

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,073.0	1.46	254.10	2,073.0	-0.3	-0.9	2.00	2.00	0.00	254.10	
11,837.6	1.46	254.10	11,834.4	-68.4	-240.1	0.00	0.00	0.00	0.00	
12,590.9	90.00	359.57	12,315.0	409.0	-255.5	12.00	11.75	14.00	105.46	
22,389.2	90.00	359.57	12,315.0	10,207.0	-329.0	0.00	0.00	0.00	0.00	BHL (Neptune 10 St C

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3634.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3634.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#707H	**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
1,200.0	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
1,600.0	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
2,073.0	1.46	254.10	2,073.0	-0.3	-0.9	-0.2	2.00	2.00	0.00
2,100.0	1.46	254.10	2,100.0	-0.4	-1.6	-0.4	0.00	0.00	0.00
2,200.0	1.46	254.10	2,200.0	-1.1	-4.0	-1.0	0.00	0.00	0.00
2,300.0	1.46	254.10	2,299.9	-1.8	-6.5	-1.6	0.00	0.00	0.00
2,400.0	1.46	254.10	2,399.9	-2.5	-8.9	-2.2	0.00	0.00	0.00
2,500.0	1.46	254.10	2,499.9	-3.2	-11.4	-2.9	0.00	0.00	0.00
2,600.0	1.46	254.10	2,599.8	-3.9	-13.8	-3.5	0.00	0.00	0.00
2,700.0	1.46	254.10	2,699.8	-4.6	-16.3	-4.1	0.00	0.00	0.00
2,800.0	1.46	254.10	2,799.8	-5.3	-18.7	-4.7	0.00	0.00	0.00
2,900.0	1.46	254.10	2,899.7	-6.0	-21.2	-5.3	0.00	0.00	0.00
3,000.0	1.46	254.10	2,999.7	-6.7	-23.6	-6.0	0.00	0.00	0.00
3,100.0	1.46	254.10	3,099.7	-7.4	-26.1	-6.6	0.00	0.00	0.00
3,200.0	1.46	254.10	3,199.6	-8.1	-28.5	-7.2	0.00	0.00	0.00
3,300.0	1.46	254.10	3,299.6	-8.8	-31.0	-7.8	0.00	0.00	0.00
3,400.0	1.46	254.10	3,399.6	-9.5	-33.4	-8.4	0.00	0.00	0.00
3,500.0	1.46	254.10	3,499.5	-10.2	-35.8	-9.0	0.00	0.00	0.00
3,600.0	1.46	254.10	3,599.5	-10.9	-38.3	-9.7	0.00	0.00	0.00
3,700.0	1.46	254.10	3,699.5	-11.6	-40.7	-10.3	0.00	0.00	0.00
3,800.0	1.46	254.10	3,799.4	-12.3	-43.2	-10.9	0.00	0.00	0.00
3,900.0	1.46	254.10	3,899.4	-13.0	-45.6	-11.5	0.00	0.00	0.00
4,000.0	1.46	254.10	3,999.4	-13.7	-48.1	-12.1	0.00	0.00	0.00
4,100.0	1.46	254.10	4,099.3	-14.4	-50.5	-12.8	0.00	0.00	0.00
4,200.0	1.46	254.10	4,199.3	-15.1	-53.0	-13.4	0.00	0.00	0.00
4,300.0	1.46	254.10	4,299.3	-15.8	-55.4	-14.0	0.00	0.00	0.00
4,400.0	1.46	254.10	4,399.2	-16.5	-57.9	-14.6	0.00	0.00	0.00
4,500.0	1.46	254.10	4,499.2	-17.2	-60.3	-15.2	0.00	0.00	0.00
4,600.0	1.46	254.10	4,599.2	-17.9	-62.8	-15.9	0.00	0.00	0.00
4,700.0	1.46	254.10	4,699.1	-18.6	-65.2	-16.5	0.00	0.00	0.00
4,800.0	1.46	254.10	4,799.1	-19.3	-67.7	-17.1	0.00	0.00	0.00
4,900.0	1.46	254.10	4,899.1	-20.0	-70.1	-17.7	0.00	0.00	0.00
5,000.0	1.46	254.10	4,999.0	-20.7	-72.6	-18.3	0.00	0.00	0.00
5,100.0	1.46	254.10	5,099.0	-21.4	-75.0	-18.9	0.00	0.00	0.00
5,200.0	1.46	254.10	5,199.0	-22.1	-77.5	-19.6	0.00	0.00	0.00

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Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#707H	**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)
5,300.0	1.46	254.10	5,298.9	-22.8	-79.9	-20.2	0.00	0.00	0.00
5,400.0	1.46	254.10	5,398.9	-23.5	-82.4	-20.8	0.00	0.00	0.00
5,500.0	1.46	254.10	5,498.9	-24.2	-84.8	-21.4	0.00	0.00	0.00
5,600.0	1.46	254.10	5,598.8	-24.9	-87.3	-22.0	0.00	0.00	0.00
5,700.0	1.46	254.10	5,698.8	-25.6	-89.7	-22.7	0.00	0.00	0.00
5,800.0	1.46	254.10	5,798.8	-26.3	-92.2	-23.3	0.00	0.00	0.00
5,900.0	1.46	254.10	5,898.8	-27.0	-94.6	-23.9	0.00	0.00	0.00
6,000.0	1.46	254.10	5,998.7	-27.7	-97.1	-24.5	0.00	0.00	0.00
6,100.0	1.46	254.10	6,098.7	-28.3	-99.5	-25.1	0.00	0.00	0.00
6,200.0	1.46	254.10	6,198.7	-29.0	-102.0	-25.7	0.00	0.00	0.00
6,300.0	1.46	254.10	6,298.6	-29.7	-104.4	-26.4	0.00	0.00	0.00
6,400.0	1.46	254.10	6,398.6	-30.4	-106.9	-27.0	0.00	0.00	0.00
6,500.0	1.46	254.10	6,498.6	-31.1	-109.3	-27.6	0.00	0.00	0.00
6,600.0	1.46	254.10	6,598.5	-31.8	-111.8	-28.2	0.00	0.00	0.00
6,700.0	1.46	254.10	6,698.5	-32.5	-114.2	-28.8	0.00	0.00	0.00
6,800.0	1.46	254.10	6,798.5	-33.2	-116.7	-29.5	0.00	0.00	0.00
6,900.0	1.46	254.10	6,898.4	-33.9	-119.1	-30.1	0.00	0.00	0.00
7,000.0	1.46	254.10	6,998.4	-34.6	-121.6	-30.7	0.00	0.00	0.00
7,100.0	1.46	254.10	7,098.4	-35.3	-124.0	-31.3	0.00	0.00	0.00
7,200.0	1.46	254.10	7,198.3	-36.0	-126.5	-31.9	0.00	0.00	0.00
7,300.0	1.46	254.10	7,298.3	-36.7	-128.9	-32.5	0.00	0.00	0.00
7,400.0	1.46	254.10	7,398.3	-37.4	-131.4	-33.2	0.00	0.00	0.00
7,500.0	1.46	254.10	7,498.2	-38.1	-133.8	-33.8	0.00	0.00	0.00
7,600.0	1.46	254.10	7,598.2	-38.8	-136.3	-34.4	0.00	0.00	0.00
7,700.0	1.46	254.10	7,698.2	-39.5	-138.7	-35.0	0.00	0.00	0.00
7,800.0	1.46	254.10	7,798.1	-40.2	-141.2	-35.6	0.00	0.00	0.00
7,900.0	1.46	254.10	7,898.1	-40.9	-143.6	-36.3	0.00	0.00	0.00
8,000.0	1.46	254.10	7,998.1	-41.6	-146.1	-36.9	0.00	0.00	0.00
8,100.0	1.46	254.10	8,098.0	-42.3	-148.5	-37.5	0.00	0.00	0.00
8,200.0	1.46	254.10	8,198.0	-43.0	-151.0	-38.1	0.00	0.00	0.00
8,300.0	1.46	254.10	8,298.0	-43.7	-153.4	-38.7	0.00	0.00	0.00
8,400.0	1.46	254.10	8,397.9	-44.4	-155.9	-39.3	0.00	0.00	0.00
8,500.0	1.46	254.10	8,497.9	-45.1	-158.3	-40.0	0.00	0.00	0.00
8,600.0	1.46	254.10	8,597.9	-45.8	-160.8	-40.6	0.00	0.00	0.00
8,700.0	1.46	254.10	8,697.8	-46.5	-163.2	-41.2	0.00	0.00	0.00
8,800.0	1.46	254.10	8,797.8	-47.2	-165.7	-41.8	0.00	0.00	0.00
8,900.0	1.46	254.10	8,897.8	-47.9	-168.1	-42.4	0.00	0.00	0.00
9,000.0	1.46	254.10	8,997.7	-48.6	-170.6	-43.1	0.00	0.00	0.00
9,100.0	1.46	254.10	9,097.7	-49.3	-173.0	-43.7	0.00	0.00	0.00
9,200.0	1.46	254.10	9,197.7	-50.0	-175.5	-44.3	0.00	0.00	0.00
9,300.0	1.46	254.10	9,297.6	-50.7	-177.9	-44.9	0.00	0.00	0.00
9,400.0	1.46	254.10	9,397.6	-51.4	-180.4	-45.5	0.00	0.00	0.00
9,500.0	1.46	254.10	9,497.6	-52.1	-182.8	-46.2	0.00	0.00	0.00
9,600.0	1.46	254.10	9,597.6	-52.8	-185.3	-46.8	0.00	0.00	0.00
9,700.0	1.46	254.10	9,697.5	-53.5	-187.7	-47.4	0.00	0.00	0.00
9,800.0	1.46	254.10	9,797.5	-54.2	-190.2	-48.0	0.00	0.00	0.00
9,900.0	1.46	254.10	9,897.5	-54.9	-192.6	-48.6	0.00	0.00	0.00
10,000.0	1.46	254.10	9,997.4	-55.6	-195.1	-49.2	0.00	0.00	0.00
10,100.0	1.46	254.10	10,097.4	-56.3	-197.5	-49.9	0.00	0.00	0.00
10,200.0	1.46	254.10	10,197.4	-57.0	-200.0	-50.5	0.00	0.00	0.00
10,300.0	1.46	254.10	10,297.3	-57.6	-202.4	-51.1	0.00	0.00	0.00
10,400.0	1.46	254.10	10,397.3	-58.3	-204.9	-51.7	0.00	0.00	0.00
10,500.0	1.46	254.10	10,497.3	-59.0	-207.3	-52.3	0.00	0.00	0.00
10,600.0	1.46	254.10	10,597.2	-59.7	-209.8	-53.0	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3634.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3634.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#707H	**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)
10,700.0	1.46	254.10	10,697.2	-60.4	-212.2	-53.6	0.00	0.00	0.00
10,800.0	1.46	254.10	10,797.2	-61.1	-214.7	-54.2	0.00	0.00	0.00
10,900.0	1.46	254.10	10,897.1	-61.8	-217.1	-54.8	0.00	0.00	0.00
11,000.0	1.46	254.10	10,997.1	-62.5	-219.6	-55.4	0.00	0.00	0.00
11,100.0	1.46	254.10	11,097.1	-63.2	-222.0	-56.0	0.00	0.00	0.00
11,200.0	1.46	254.10	11,197.0	-63.9	-224.5	-56.7	0.00	0.00	0.00
11,300.0	1.46	254.10	11,297.0	-64.6	-226.9	-57.3	0.00	0.00	0.00
11,400.0	1.46	254.10	11,397.0	-65.3	-229.4	-57.9	0.00	0.00	0.00
11,500.0	1.46	254.10	11,496.9	-66.0	-231.8	-58.5	0.00	0.00	0.00
11,600.0	1.46	254.10	11,596.9	-66.7	-234.3	-59.1	0.00	0.00	0.00
11,700.0	1.46	254.10	11,696.9	-67.4	-236.7	-59.8	0.00	0.00	0.00
11,800.0	1.46	254.10	11,796.8	-68.1	-239.2	-60.4	0.00	0.00	0.00
11,837.6	1.46	254.10	11,834.4	-68.4	-240.1	-60.6	0.00	0.00	0.00
11,850.0	1.78	307.53	11,846.8	-68.3	-240.4	-60.5	12.00	2.62	431.34
11,875.0	4.33	340.65	11,871.8	-67.2	-241.0	-59.4	12.00	10.19	132.48
11,900.0	7.23	348.42	11,896.7	-64.7	-241.6	-56.9	12.00	11.61	31.05
11,925.0	10.19	351.72	11,921.4	-61.0	-242.3	-53.2	12.00	11.84	13.22
11,950.0	13.17	353.55	11,945.8	-56.0	-242.9	-48.1	12.00	11.91	7.30
11,975.0	16.16	354.71	11,970.0	-49.7	-243.6	-41.8	12.00	11.94	4.64
12,000.0	19.15	355.51	11,993.8	-42.1	-244.2	-34.3	12.00	11.96	3.23
12,025.0	22.14	356.11	12,017.2	-33.3	-244.8	-25.4	12.00	11.97	2.38
12,050.0	25.13	356.57	12,040.1	-23.3	-245.5	-15.4	12.00	11.98	1.84
12,075.0	28.13	356.94	12,062.5	-12.2	-246.1	-4.2	12.00	11.98	1.47
12,100.0	31.13	357.24	12,084.2	0.2	-246.7	8.1	12.00	11.99	1.21
12,125.0	34.12	357.49	12,105.3	13.6	-247.3	21.6	12.00	11.99	1.02
12,150.0	37.12	357.71	12,125.6	28.2	-248.0	36.2	12.00	11.99	0.87
12,175.0	40.12	357.90	12,145.1	43.8	-248.6	51.8	12.00	11.99	0.76
12,200.0	43.12	358.07	12,163.8	60.4	-249.1	68.4	12.00	11.99	0.67
12,225.0	46.11	358.22	12,181.6	77.9	-249.7	85.9	12.00	11.99	0.60
12,250.0	49.11	358.35	12,198.4	96.4	-250.3	104.4	12.00	11.99	0.54
12,275.0	52.11	358.48	12,214.3	115.7	-250.8	123.7	12.00	11.99	0.49
12,300.0	55.11	358.59	12,229.1	135.8	-251.3	143.8	12.00	11.99	0.45
12,325.0	58.11	358.69	12,242.9	156.7	-251.8	164.7	12.00	11.99	0.42
12,350.0	61.11	358.79	12,255.5	178.2	-252.3	186.3	12.00	12.00	0.40
12,375.0	64.11	358.89	12,267.0	200.4	-252.7	208.5	12.00	12.00	0.37
12,400.0	67.10	358.98	12,277.4	223.2	-253.1	231.2	12.00	12.00	0.36
12,425.0	70.10	359.06	12,286.5	246.4	-253.5	254.5	12.00	12.00	0.34
12,450.0	73.10	359.14	12,294.4	270.2	-253.9	278.2	12.00	12.00	0.33
12,475.0	76.10	359.22	12,301.0	294.3	-254.3	302.3	12.00	12.00	0.32
12,500.0	79.10	359.30	12,306.4	318.7	-254.6	326.7	12.00	12.00	0.31
12,525.0	82.10	359.37	12,310.5	343.3	-254.9	351.4	12.00	12.00	0.30
12,550.0	85.10	359.45	12,313.3	368.2	-255.1	376.2	12.00	12.00	0.30
12,575.0	88.10	359.52	12,314.7	393.1	-255.3	401.1	12.00	12.00	0.30
12,590.9	90.00	359.57	12,315.0	409.0	-255.5	417.0	12.00	12.00	0.29
12,600.0	90.00	359.57	12,315.0	418.1	-255.5	426.1	0.00	0.00	0.00
12,700.0	90.00	359.57	12,315.0	518.1	-256.3	526.1	0.00	0.00	0.00
12,800.0	90.00	359.57	12,315.0	618.1	-257.0	626.1	0.00	0.00	0.00
12,900.0	90.00	359.57	12,315.0	718.1	-257.8	726.0	0.00	0.00	0.00
13,000.0	90.00	359.57	12,315.0	818.1	-258.5	826.0	0.00	0.00	0.00
13,100.0	90.00	359.57	12,315.0	918.1	-259.3	926.0	0.00	0.00	0.00
13,200.0	90.00	359.57	12,315.0	1,018.1	-260.0	1,026.0	0.00	0.00	0.00
13,300.0	90.00	359.57	12,315.0	1,118.1	-260.8	1,125.9	0.00	0.00	0.00
13,400.0	90.00	359.57	12,315.0	1,218.1	-261.5	1,225.9	0.00	0.00	0.00
13,500.0	90.00	359.57	12,315.0	1,318.1	-262.3	1,325.9	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3634.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3634.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#707H	**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)
13,600.0	90.00	359.57	12,315.0	1,418.1	-263.0	1,425.8	0.00	0.00	0.00
13,700.0	90.00	359.57	12,315.0	1,518.1	-263.8	1,525.8	0.00	0.00	0.00
13,800.0	90.00	359.57	12,315.0	1,618.1	-264.5	1,625.8	0.00	0.00	0.00
13,900.0	90.00	359.57	12,315.0	1,718.1	-265.3	1,725.7	0.00	0.00	0.00
14,000.0	90.00	359.57	12,315.0	1,818.1	-266.0	1,825.7	0.00	0.00	0.00
14,100.0	90.00	359.57	12,315.0	1,918.1	-266.8	1,925.7	0.00	0.00	0.00
14,200.0	90.00	359.57	12,315.0	2,018.1	-267.5	2,025.6	0.00	0.00	0.00
14,300.0	90.00	359.57	12,315.0	2,118.1	-268.3	2,125.6	0.00	0.00	0.00
14,400.0	90.00	359.57	12,315.0	2,218.1	-269.0	2,225.6	0.00	0.00	0.00
14,500.0	90.00	359.57	12,315.0	2,318.1	-269.8	2,325.6	0.00	0.00	0.00
14,600.0	90.00	359.57	12,315.0	2,418.1	-270.5	2,425.5	0.00	0.00	0.00
14,700.0	90.00	359.57	12,315.0	2,518.1	-271.3	2,525.5	0.00	0.00	0.00
14,800.0	90.00	359.57	12,315.0	2,618.1	-272.0	2,625.5	0.00	0.00	0.00
14,900.0	90.00	359.57	12,315.0	2,718.1	-272.8	2,725.4	0.00	0.00	0.00
15,000.0	90.00	359.57	12,315.0	2,818.1	-273.5	2,825.4	0.00	0.00	0.00
15,100.0	90.00	359.57	12,315.0	2,918.0	-274.3	2,925.4	0.00	0.00	0.00
15,200.0	90.00	359.57	12,315.0	3,018.0	-275.0	3,025.3	0.00	0.00	0.00
15,300.0	90.00	359.57	12,315.0	3,118.0	-275.8	3,125.3	0.00	0.00	0.00
15,400.0	90.00	359.57	12,315.0	3,218.0	-276.5	3,225.3	0.00	0.00	0.00
15,500.0	90.00	359.57	12,315.0	3,318.0	-277.3	3,325.2	0.00	0.00	0.00
15,600.0	90.00	359.57	12,315.0	3,418.0	-278.0	3,425.2	0.00	0.00	0.00
15,700.0	90.00	359.57	12,315.0	3,518.0	-278.8	3,525.2	0.00	0.00	0.00
15,800.0	90.00	359.57	12,315.0	3,618.0	-279.5	3,625.2	0.00	0.00	0.00
15,900.0	90.00	359.57	12,315.0	3,718.0	-280.3	3,725.1	0.00	0.00	0.00
16,000.0	90.00	359.57	12,315.0	3,818.0	-281.1	3,825.1	0.00	0.00	0.00
16,100.0	90.00	359.57	12,315.0	3,918.0	-281.8	3,925.1	0.00	0.00	0.00
16,200.0	90.00	359.57	12,315.0	4,018.0	-282.6	4,025.0	0.00	0.00	0.00
16,300.0	90.00	359.57	12,315.0	4,118.0	-283.3	4,125.0	0.00	0.00	0.00
16,400.0	90.00	359.57	12,315.0	4,218.0	-284.1	4,225.0	0.00	0.00	0.00
16,500.0	90.00	359.57	12,315.0	4,318.0	-284.8	4,324.9	0.00	0.00	0.00
16,600.0	90.00	359.57	12,315.0	4,418.0	-285.6	4,424.9	0.00	0.00	0.00
16,700.0	90.00	359.57	12,315.0	4,518.0	-286.3	4,524.9	0.00	0.00	0.00
16,800.0	90.00	359.57	12,315.0	4,618.0	-287.1	4,624.9	0.00	0.00	0.00
16,900.0	90.00	359.57	12,315.0	4,718.0	-287.8	4,724.8	0.00	0.00	0.00
17,000.0	90.00	359.57	12,315.0	4,818.0	-288.6	4,824.8	0.00	0.00	0.00
17,100.0	90.00	359.57	12,315.0	4,918.0	-289.3	4,924.8	0.00	0.00	0.00
17,200.0	90.00	359.57	12,315.0	5,018.0	-290.1	5,024.7	0.00	0.00	0.00
17,300.0	90.00	359.57	12,315.0	5,118.0	-290.8	5,124.7	0.00	0.00	0.00
17,400.0	90.00	359.57	12,315.0	5,218.0	-291.6	5,224.7	0.00	0.00	0.00
17,500.0	90.00	359.57	12,315.0	5,318.0	-292.3	5,324.6	0.00	0.00	0.00
17,600.0	90.00	359.57	12,315.0	5,418.0	-293.1	5,424.6	0.00	0.00	0.00
17,700.0	90.00	359.57	12,315.0	5,518.0	-293.8	5,524.6	0.00	0.00	0.00
17,800.0	90.00	359.57	12,315.0	5,618.0	-294.6	5,624.5	0.00	0.00	0.00
17,900.0	90.00	359.57	12,315.0	5,718.0	-295.3	5,724.5	0.00	0.00	0.00
18,000.0	90.00	359.57	12,315.0	5,818.0	-296.1	5,824.5	0.00	0.00	0.00
18,100.0	90.00	359.57	12,315.0	5,918.0	-296.8	5,924.5	0.00	0.00	0.00
18,200.0	90.00	359.57	12,315.0	6,018.0	-297.6	6,024.4	0.00	0.00	0.00
18,300.0	90.00	359.57	12,315.0	6,118.0	-298.3	6,124.4	0.00	0.00	0.00
18,400.0	90.00	359.57	12,315.0	6,218.0	-299.1	6,224.4	0.00	0.00	0.00
18,500.0	90.00	359.57	12,315.0	6,318.0	-299.8	6,324.3	0.00	0.00	0.00
18,600.0	90.00	359.57	12,315.0	6,418.0	-300.6	6,424.3	0.00	0.00	0.00
18,700.0	90.00	359.57	12,315.0	6,517.9	-301.3	6,524.3	0.00	0.00	0.00
18,800.0	90.00	359.57	12,315.0	6,617.9	-302.1	6,624.2	0.00	0.00	0.00
18,900.0	90.00	359.57	12,315.0	6,717.9	-302.8	6,724.2	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3634.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3634.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#707H	**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)
19,000.0	90.00	359.57	12,315.0	6,817.9	-303.6	6,824.2	0.00	0.00	0.00
19,100.0	90.00	359.57	12,315.0	6,917.9	-304.3	6,924.1	0.00	0.00	0.00
19,200.0	90.00	359.57	12,315.0	7,017.9	-305.1	7,024.1	0.00	0.00	0.00
19,300.0	90.00	359.57	12,315.0	7,117.9	-305.8	7,124.1	0.00	0.00	0.00
19,400.0	90.00	359.57	12,315.0	7,217.9	-306.6	7,224.1	0.00	0.00	0.00
19,500.0	90.00	359.57	12,315.0	7,317.9	-307.3	7,324.0	0.00	0.00	0.00
19,600.0	90.00	359.57	12,315.0	7,417.9	-308.1	7,424.0	0.00	0.00	0.00
19,700.0	90.00	359.57	12,315.0	7,517.9	-308.8	7,524.0	0.00	0.00	0.00
19,800.0	90.00	359.57	12,315.0	7,617.9	-309.6	7,623.9	0.00	0.00	0.00
19,900.0	90.00	359.57	12,315.0	7,717.9	-310.3	7,723.9	0.00	0.00	0.00
20,000.0	90.00	359.57	12,315.0	7,817.9	-311.1	7,823.9	0.00	0.00	0.00
20,100.0	90.00	359.57	12,315.0	7,917.9	-311.8	7,923.8	0.00	0.00	0.00
20,200.0	90.00	359.57	12,315.0	8,017.9	-312.6	8,023.8	0.00	0.00	0.00
20,300.0	90.00	359.57	12,315.0	8,117.9	-313.3	8,123.8	0.00	0.00	0.00
20,400.0	90.00	359.57	12,315.0	8,217.9	-314.1	8,223.8	0.00	0.00	0.00
20,500.0	90.00	359.57	12,315.0	8,317.9	-314.8	8,323.7	0.00	0.00	0.00
20,600.0	90.00	359.57	12,315.0	8,417.9	-315.6	8,423.7	0.00	0.00	0.00
20,700.0	90.00	359.57	12,315.0	8,517.9	-316.3	8,523.7	0.00	0.00	0.00
20,800.0	90.00	359.57	12,315.0	8,617.9	-317.1	8,623.6	0.00	0.00	0.00
20,900.0	90.00	359.57	12,315.0	8,717.9	-317.8	8,723.6	0.00	0.00	0.00
21,000.0	90.00	359.57	12,315.0	8,817.9	-318.6	8,823.6	0.00	0.00	0.00
21,100.0	90.00	359.57	12,315.0	8,917.9	-319.3	8,923.5	0.00	0.00	0.00
21,200.0	90.00	359.57	12,315.0	9,017.9	-320.1	9,023.5	0.00	0.00	0.00
21,300.0	90.00	359.57	12,315.0	9,117.9	-320.8	9,123.5	0.00	0.00	0.00
21,400.0	90.00	359.57	12,315.0	9,217.9	-321.6	9,223.4	0.00	0.00	0.00
21,500.0	90.00	359.57	12,315.0	9,317.9	-322.3	9,323.4	0.00	0.00	0.00
21,600.0	90.00	359.57	12,315.0	9,417.9	-323.1	9,423.4	0.00	0.00	0.00
21,700.0	90.00	359.57	12,315.0	9,517.9	-323.8	9,523.4	0.00	0.00	0.00
21,800.0	90.00	359.57	12,315.0	9,617.9	-324.6	9,623.3	0.00	0.00	0.00
21,900.0	90.00	359.57	12,315.0	9,717.9	-325.3	9,723.3	0.00	0.00	0.00
22,000.0	90.00	359.57	12,315.0	9,817.9	-326.1	9,823.3	0.00	0.00	0.00
22,100.0	90.00	359.57	12,315.0	9,917.9	-326.8	9,923.2	0.00	0.00	0.00
22,200.0	90.00	359.57	12,315.0	10,017.8	-327.6	10,023.2	0.00	0.00	0.00
22,300.0	90.00	359.57	12,315.0	10,117.8	-328.3	10,123.2	0.00	0.00	0.00
22,389.2	90.00	359.57	12,315.0	10,207.0	-329.0	10,212.3	0.00	0.00	0.00

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
FTP (Neptune 10 St Cor - plan misses target center by 40.2usft at 12400.5usft MD (12277.6 TVD, 223.7 N, -253.2 E) - Point	0.00	0.01	12,315.0	209.0	-254.0	446,733.00	780,625.00	32° 13' 32.796 N	103° 33' 34.259 W
BHL (Neptune 10 St Cor - plan hits target center - Point	0.00	0.00	12,315.0	10,207.0	-329.0	456,731.00	780,550.00	32° 15' 11.732 N	103° 33' 34.294 W