



Lea County, NM (NAD 83 NME)

Neptune 10 State Com #707H

Plan #0.1

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: #707H

KB = 25 @ 3838.0usft
Northing 448524.00 Easting 780479.00 Latitude 32° 13' 30.709 N Longitude 103° 33' 31.320 W

Azimuths to Grid North
True North: -0.41°
Magnetic North: 8.48°
Magnetic Field
Strength: 47875.1enT
Dip Angle: 50.38°
Date: 2/9/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.48°
To convert a Magnetic Direction to a True Direction, Add 0.41° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

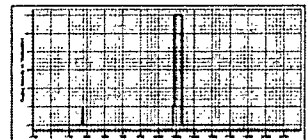
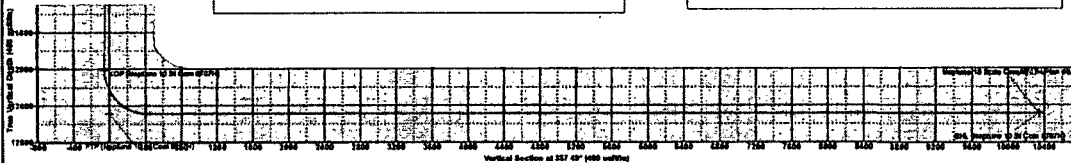
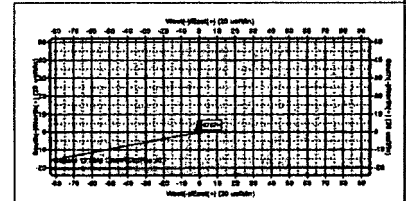
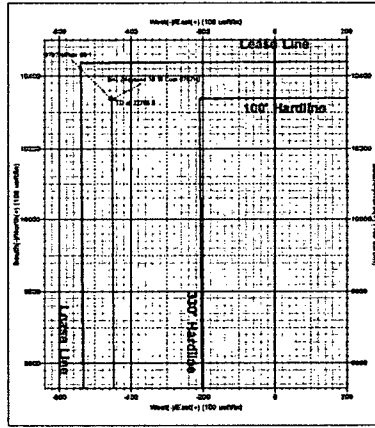
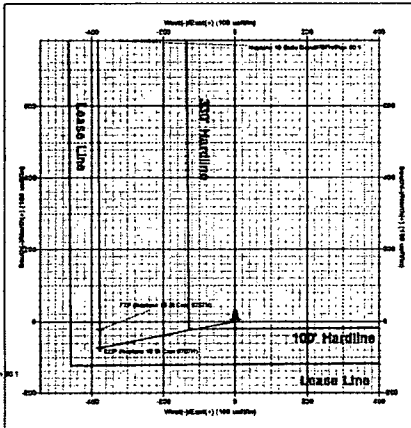
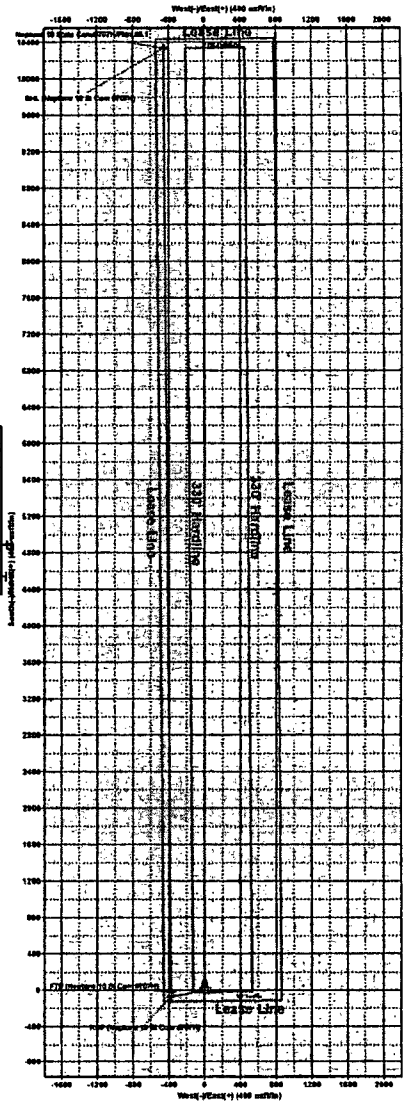
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3123.3	2.47	259.16	3123.3	-0.5	-2.6	2.00	259.16	-0.4	
4	11896.4	2.47	259.16	11888.2	-71.5	-373.4	0.00	0.00	-55.1	
5	12019.7	0.00	0.00	12011.5	-72.0	-376.0	2.00	180.00	-55.5	KOP (Neptune 10 St Com #707H)
6	12769.7	90.00	359.58	12489.0	405.5	-379.5	12.00	359.58	421.7	
7	22700.5	90.00	359.58	12489.0	10336.0	-453.0	0.00	0.00	10345.9	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
KOP (Neptune 10 St Com #707H)	12011.5	-72.0	-376.0	448432.00	780503.00
BHL (Neptune 10 St Com #707H)	12489.0	-72.0	-376.0	448432.00	780429.00
FTP (Neptune 10 St Com #707H)	12489.0	-23.0	-376.0	448502.00	780503.00



Scale: 1 inch = 100 feet
Date: 2/9/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#707H

OH

Plan: Plan #0.1

Standard Planning Report

30 August, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3638.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3638.0usft
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
From:	Map	Easting:	778,964.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 31.172 N
		Longitude:	103° 33' 53.609 W
		Grid Convergence:	0.41 °

Well	#707H		
Well Position	+N/-S	-33.0 usft	Northing: 446,524.00 usft
	+E/-W	1,915.0 usft	Easting: 780,879.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 13' 30.709 N
			Longitude: 103° 33' 31.320 W
			Ground Level: 3,613.0 usft

Wellbore	OH		
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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):	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			357.49

Plan Survey Tool Program	Date: 8/30/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	22,700.5 Plan #0.1 (OH)	MWD
			OWSG 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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,123.3	2.47	259.16	3,123.3	-0.5	-2.6	2.00	2.00	0.00	259.16	
11,896.4	2.47	259.16	11,888.2	-71.5	-373.4	0.00	0.00	0.00	0.00	
12,019.7	0.00	0.01	12,011.5	-72.0	-376.0	2.00	-2.00	0.00	180.00	KOP (Neptune 10 St C
12,769.7	90.00	359.58	12,489.0	405.5	-379.5	12.00	12.00	-0.06	359.58	
22,700.5	90.00	359.58	12,489.0	10,336.0	-453.0	0.00	0.00	0.00	0.00	BHL (Neptune 10 St C



Planning Report

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3638.0usft
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
2,100.0	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	2.00	259.16	3,100.0	-0.3	-1.7	-0.3	2.00	2.00	0.00
3,123.3	2.47	259.16	3,123.3	-0.5	-2.6	-0.4	2.00	2.00	0.00
3,200.0	2.47	259.16	3,199.9	-1.1	-5.8	-0.9	0.00	0.00	0.00
3,300.0	2.47	259.16	3,299.8	-1.9	-10.1	-1.5	0.00	0.00	0.00
3,400.0	2.47	259.16	3,399.7	-2.7	-14.3	-2.1	0.00	0.00	0.00
3,500.0	2.47	259.16	3,499.6	-3.5	-18.5	-2.7	0.00	0.00	0.00
3,600.0	2.47	259.16	3,599.5	-4.4	-22.8	-3.4	0.00	0.00	0.00
3,700.0	2.47	259.16	3,699.4	-5.2	-27.0	-4.0	0.00	0.00	0.00
3,800.0	2.47	259.16	3,799.3	-6.0	-31.2	-4.6	0.00	0.00	0.00
3,900.0	2.47	259.16	3,899.2	-6.8	-35.4	-5.2	0.00	0.00	0.00
4,000.0	2.47	259.16	3,999.1	-7.6	-39.7	-5.9	0.00	0.00	0.00
4,100.0	2.47	259.16	4,099.1	-8.4	-43.9	-6.5	0.00	0.00	0.00
4,200.0	2.47	259.16	4,199.0	-9.2	-48.1	-7.1	0.00	0.00	0.00
4,300.0	2.47	259.16	4,298.9	-10.0	-52.3	-7.7	0.00	0.00	0.00
4,400.0	2.47	259.16	4,398.8	-10.8	-56.6	-8.3	0.00	0.00	0.00
4,500.0	2.47	259.16	4,498.7	-11.6	-60.8	-9.0	0.00	0.00	0.00
4,600.0	2.47	259.16	4,598.6	-12.5	-65.0	-9.6	0.00	0.00	0.00
4,700.0	2.47	259.16	4,698.5	-13.3	-69.2	-10.2	0.00	0.00	0.00
4,800.0	2.47	259.16	4,798.4	-14.1	-73.5	-10.8	0.00	0.00	0.00
4,900.0	2.47	259.16	4,898.3	-14.9	-77.7	-11.5	0.00	0.00	0.00
5,000.0	2.47	259.16	4,998.2	-15.7	-81.9	-12.1	0.00	0.00	0.00
5,100.0	2.47	259.16	5,098.1	-16.5	-86.1	-12.7	0.00	0.00	0.00
5,200.0	2.47	259.16	5,198.0	-17.3	-90.4	-13.3	0.00	0.00	0.00



Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3638.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3638.0usft
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)
5,300.0	2.47	259.16	5,297.9	-18.1	-94.6	-14.0	0.00	0.00	0.00
5,400.0	2.47	259.16	5,397.9	-18.9	-98.8	-14.6	0.00	0.00	0.00
5,500.0	2.47	259.16	5,497.8	-19.7	-103.1	-15.2	0.00	0.00	0.00
5,600.0	2.47	259.16	5,597.7	-20.5	-107.3	-15.8	0.00	0.00	0.00
5,700.0	2.47	259.16	5,697.6	-21.4	-111.5	-16.4	0.00	0.00	0.00
5,800.0	2.47	259.16	5,797.5	-22.2	-115.7	-17.1	0.00	0.00	0.00
5,900.0	2.47	259.16	5,897.4	-23.0	-120.0	-17.7	0.00	0.00	0.00
6,000.0	2.47	259.16	5,997.3	-23.8	-124.2	-18.3	0.00	0.00	0.00
6,100.0	2.47	259.16	6,097.2	-24.6	-128.4	-18.9	0.00	0.00	0.00
6,200.0	2.47	259.16	6,197.1	-25.4	-132.6	-19.6	0.00	0.00	0.00
6,300.0	2.47	259.16	6,297.0	-26.2	-136.9	-20.2	0.00	0.00	0.00
6,400.0	2.47	259.16	6,396.9	-27.0	-141.1	-20.8	0.00	0.00	0.00
6,500.0	2.47	259.16	6,496.8	-27.8	-145.3	-21.4	0.00	0.00	0.00
6,600.0	2.47	259.16	6,596.7	-28.6	-149.5	-22.1	0.00	0.00	0.00
6,700.0	2.47	259.16	6,696.6	-29.4	-153.8	-22.7	0.00	0.00	0.00
6,800.0	2.47	259.16	6,796.6	-30.3	-158.0	-23.3	0.00	0.00	0.00
6,900.0	2.47	259.16	6,896.5	-31.1	-162.2	-23.9	0.00	0.00	0.00
7,000.0	2.47	259.16	6,996.4	-31.9	-166.5	-24.6	0.00	0.00	0.00
7,100.0	2.47	259.16	7,096.3	-32.7	-170.7	-25.2	0.00	0.00	0.00
7,200.0	2.47	259.16	7,196.2	-33.5	-174.9	-25.8	0.00	0.00	0.00
7,300.0	2.47	259.16	7,296.1	-34.3	-179.1	-26.4	0.00	0.00	0.00
7,400.0	2.47	259.16	7,396.0	-35.1	-183.4	-27.0	0.00	0.00	0.00
7,500.0	2.47	259.16	7,495.9	-35.9	-187.6	-27.7	0.00	0.00	0.00
7,600.0	2.47	259.16	7,595.8	-36.7	-191.8	-28.3	0.00	0.00	0.00
7,700.0	2.47	259.16	7,695.7	-37.5	-196.0	-28.9	0.00	0.00	0.00
7,800.0	2.47	259.16	7,795.6	-38.3	-200.3	-29.5	0.00	0.00	0.00
7,900.0	2.47	259.16	7,895.5	-39.2	-204.5	-30.2	0.00	0.00	0.00
8,000.0	2.47	259.16	7,995.4	-40.0	-208.7	-30.8	0.00	0.00	0.00
8,100.0	2.47	259.16	8,095.4	-40.8	-212.9	-31.4	0.00	0.00	0.00
8,200.0	2.47	259.16	8,195.3	-41.6	-217.2	-32.0	0.00	0.00	0.00
8,300.0	2.47	259.16	8,295.2	-42.4	-221.4	-32.7	0.00	0.00	0.00
8,400.0	2.47	259.16	8,395.1	-43.2	-225.6	-33.3	0.00	0.00	0.00
8,500.0	2.47	259.16	8,495.0	-44.0	-229.8	-33.9	0.00	0.00	0.00
8,600.0	2.47	259.16	8,594.9	-44.8	-234.1	-34.5	0.00	0.00	0.00
8,700.0	2.47	259.16	8,694.8	-45.6	-238.3	-35.2	0.00	0.00	0.00
8,800.0	2.47	259.16	8,794.7	-46.4	-242.5	-35.8	0.00	0.00	0.00
8,900.0	2.47	259.16	8,894.6	-47.3	-246.8	-36.4	0.00	0.00	0.00
9,000.0	2.47	259.16	8,994.5	-48.1	-251.0	-37.0	0.00	0.00	0.00
9,100.0	2.47	259.16	9,094.4	-48.9	-255.2	-37.6	0.00	0.00	0.00
9,200.0	2.47	259.16	9,194.3	-49.7	-259.4	-38.3	0.00	0.00	0.00
9,300.0	2.47	259.16	9,294.2	-50.5	-263.7	-38.9	0.00	0.00	0.00
9,400.0	2.47	259.16	9,394.1	-51.3	-267.9	-39.5	0.00	0.00	0.00
9,500.0	2.47	259.16	9,494.1	-52.1	-272.1	-40.1	0.00	0.00	0.00
9,600.0	2.47	259.16	9,594.0	-52.9	-276.3	-40.8	0.00	0.00	0.00
9,700.0	2.47	259.16	9,693.9	-53.7	-280.6	-41.4	0.00	0.00	0.00
9,800.0	2.47	259.16	9,793.8	-54.5	-284.8	-42.0	0.00	0.00	0.00
9,900.0	2.47	259.16	9,893.7	-55.3	-289.0	-42.6	0.00	0.00	0.00
10,000.0	2.47	259.16	9,993.6	-56.2	-293.2	-43.3	0.00	0.00	0.00
10,100.0	2.47	259.16	10,093.5	-57.0	-297.5	-43.9	0.00	0.00	0.00
10,200.0	2.47	259.16	10,193.4	-57.8	-301.7	-44.5	0.00	0.00	0.00
10,300.0	2.47	259.16	10,293.3	-58.6	-305.9	-45.1	0.00	0.00	0.00
10,400.0	2.47	259.16	10,393.2	-59.4	-310.1	-45.8	0.00	0.00	0.00
10,500.0	2.47	259.16	10,493.1	-60.2	-314.4	-46.4	0.00	0.00	0.00
10,600.0	2.47	259.16	10,593.0	-61.0	-318.6	-47.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3638.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3638.0usft
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	2.47	259.16	10,692.9	-61.8	-322.8	-47.6	0.00	0.00	0.00	
10,800.0	2.47	259.16	10,792.9	-62.6	-327.1	-48.2	0.00	0.00	0.00	
10,900.0	2.47	259.16	10,892.8	-63.4	-331.3	-48.9	0.00	0.00	0.00	
11,000.0	2.47	259.16	10,992.7	-64.2	-335.5	-49.5	0.00	0.00	0.00	
11,100.0	2.47	259.16	11,092.6	-65.1	-339.7	-50.1	0.00	0.00	0.00	
11,200.0	2.47	259.16	11,192.5	-65.9	-344.0	-50.7	0.00	0.00	0.00	
11,300.0	2.47	259.16	11,292.4	-66.7	-348.2	-51.4	0.00	0.00	0.00	
11,400.0	2.47	259.16	11,392.3	-67.5	-352.4	-52.0	0.00	0.00	0.00	
11,500.0	2.47	259.16	11,492.2	-68.3	-356.6	-52.6	0.00	0.00	0.00	
11,600.0	2.47	259.16	11,592.1	-69.1	-360.9	-53.2	0.00	0.00	0.00	
11,700.0	2.47	259.16	11,692.0	-69.9	-365.1	-53.9	0.00	0.00	0.00	
11,800.0	2.47	259.16	11,791.9	-70.7	-369.3	-54.5	0.00	0.00	0.00	
11,896.4	2.47	259.16	11,888.2	-71.5	-373.4	-55.1	0.00	0.00	0.00	
11,900.0	2.39	259.16	11,891.8	-71.5	-373.5	-55.1	2.00	-2.00	0.00	
12,000.0	0.39	259.16	11,991.8	-72.0	-375.9	-55.5	2.00	-2.00	0.00	
12,019.7	0.00	0.01	12,011.5	-72.0	-376.0	-55.5	2.00	-2.00	0.00	
KOP (Neptune 10 St Com #707H)										
12,025.0	0.64	359.58	12,016.8	-72.0	-376.0	-55.4	12.00	12.00	0.00	
12,050.0	3.64	359.58	12,041.8	-71.0	-376.0	-54.5	12.00	12.00	0.00	
12,075.0	6.64	359.58	12,066.7	-68.8	-376.0	-52.3	12.00	12.00	0.00	
12,100.0	9.64	359.58	12,091.4	-65.3	-376.0	-48.7	12.00	12.00	0.00	
12,125.0	12.64	359.58	12,115.9	-60.4	-376.1	-43.9	12.00	12.00	0.00	
12,150.0	15.64	359.58	12,140.2	-54.3	-376.1	-37.8	12.00	12.00	0.00	
12,175.0	18.64	359.58	12,164.1	-47.0	-376.2	-30.5	12.00	12.00	0.00	
12,200.0	21.64	359.58	12,187.5	-38.4	-376.2	-21.9	12.00	12.00	0.00	
12,225.0	24.64	359.58	12,210.5	-28.5	-376.3	-12.0	12.00	12.00	0.00	
12,250.0	27.64	359.58	12,233.0	-17.5	-376.4	-1.0	12.00	12.00	0.00	
12,275.0	30.64	359.58	12,254.8	-5.4	-376.5	11.1	12.00	12.00	0.00	
12,300.0	33.64	359.58	12,276.0	7.9	-376.6	24.4	12.00	12.00	0.00	
12,325.0	36.64	359.58	12,296.4	22.3	-376.7	38.8	12.00	12.00	0.00	
12,350.0	39.64	359.58	12,316.1	37.8	-376.8	54.2	12.00	12.00	0.00	
12,375.0	42.64	359.58	12,334.9	54.2	-376.9	70.7	12.00	12.00	0.00	
12,400.0	45.64	359.58	12,352.8	71.6	-377.1	88.0	12.00	12.00	0.00	
12,424.0	48.52	359.58	12,369.2	89.2	-377.2	105.6	12.00	12.00	0.00	
FTP (Neptune 10 St Com #707H)										
12,425.0	48.64	359.58	12,369.8	89.9	-377.2	106.4	12.00	12.00	0.00	
12,450.0	51.64	359.58	12,385.9	109.1	-377.3	125.5	12.00	12.00	0.00	
12,475.0	54.64	359.58	12,400.9	129.1	-377.5	145.5	12.00	12.00	0.00	
12,500.0	57.64	359.58	12,414.8	149.9	-377.6	166.3	12.00	12.00	0.00	
12,525.0	60.64	359.58	12,427.6	171.3	-377.8	187.7	12.00	12.00	0.00	
12,550.0	63.64	359.58	12,439.3	193.4	-378.0	209.8	12.00	12.00	0.00	
12,575.0	66.64	359.58	12,449.8	216.1	-378.1	232.5	12.00	12.00	0.00	
12,600.0	69.64	359.58	12,459.1	239.3	-378.3	255.6	12.00	12.00	0.00	
12,625.0	72.64	359.58	12,467.2	263.0	-378.5	279.3	12.00	12.00	0.00	
12,650.0	75.64	359.58	12,474.0	287.0	-378.7	303.3	12.00	12.00	0.00	
12,675.0	78.64	359.58	12,479.6	311.4	-378.8	327.7	12.00	12.00	0.00	
12,700.0	81.64	359.58	12,483.9	336.0	-379.0	352.3	12.00	12.00	0.00	
12,725.0	84.64	359.58	12,486.9	360.8	-379.2	377.1	12.00	12.00	0.00	
12,750.0	87.64	359.58	12,488.6	385.8	-379.4	402.0	12.00	12.00	0.00	
12,769.7	90.00	359.58	12,489.0	405.5	-379.5	421.7	12.00	12.00	0.00	
12,800.0	90.00	359.58	12,489.0	435.7	-379.8	452.0	0.00	0.00	0.00	
12,900.0	90.00	359.58	12,489.0	535.7	-380.5	551.9	0.00	0.00	0.00	
13,000.0	90.00	359.58	12,489.0	635.7	-381.2	651.8	0.00	0.00	0.00	
13,100.0	90.00	359.58	12,489.0	735.7	-382.0	751.8	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3638.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3638.0usft
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)
13,200.0	90.00	359.58	12,489.0	835.7	-382.7	851.7	0.00	0.00	0.00
13,300.0	90.00	359.58	12,489.0	935.7	-383.5	951.6	0.00	0.00	0.00
13,400.0	90.00	359.58	12,489.0	1,035.7	-384.2	1,051.6	0.00	0.00	0.00
13,500.0	90.00	359.58	12,489.0	1,135.7	-384.9	1,151.5	0.00	0.00	0.00
13,600.0	90.00	359.58	12,489.0	1,235.7	-385.7	1,251.4	0.00	0.00	0.00
13,700.0	90.00	359.58	12,489.0	1,335.7	-386.4	1,351.4	0.00	0.00	0.00
13,800.0	90.00	359.58	12,489.0	1,435.7	-387.2	1,451.3	0.00	0.00	0.00
13,900.0	90.00	359.58	12,489.0	1,535.7	-387.9	1,551.2	0.00	0.00	0.00
14,000.0	90.00	359.58	12,489.0	1,635.7	-388.6	1,651.2	0.00	0.00	0.00
14,100.0	90.00	359.58	12,489.0	1,735.7	-389.4	1,751.1	0.00	0.00	0.00
14,200.0	90.00	359.58	12,489.0	1,835.7	-390.1	1,851.0	0.00	0.00	0.00
14,300.0	90.00	359.58	12,489.0	1,935.7	-390.9	1,951.0	0.00	0.00	0.00
14,400.0	90.00	359.58	12,489.0	2,035.7	-391.6	2,050.9	0.00	0.00	0.00
14,500.0	90.00	359.58	12,489.0	2,135.7	-392.3	2,150.8	0.00	0.00	0.00
14,600.0	90.00	359.58	12,489.0	2,235.7	-393.1	2,250.8	0.00	0.00	0.00
14,700.0	90.00	359.58	12,489.0	2,335.7	-393.8	2,350.7	0.00	0.00	0.00
14,800.0	90.00	359.58	12,489.0	2,435.7	-394.6	2,450.6	0.00	0.00	0.00
14,900.0	90.00	359.58	12,489.0	2,535.7	-395.3	2,550.6	0.00	0.00	0.00
15,000.0	90.00	359.58	12,489.0	2,635.7	-396.0	2,650.5	0.00	0.00	0.00
15,100.0	90.00	359.58	12,489.0	2,735.7	-396.8	2,750.4	0.00	0.00	0.00
15,200.0	90.00	359.58	12,489.0	2,835.7	-397.5	2,850.4	0.00	0.00	0.00
15,300.0	90.00	359.58	12,489.0	2,935.7	-398.3	2,950.3	0.00	0.00	0.00
15,400.0	90.00	359.58	12,489.0	3,035.7	-399.0	3,050.2	0.00	0.00	0.00
15,500.0	90.00	359.58	12,489.0	3,135.7	-399.7	3,150.2	0.00	0.00	0.00
15,600.0	90.00	359.58	12,489.0	3,235.7	-400.5	3,250.1	0.00	0.00	0.00
15,700.0	90.00	359.58	12,489.0	3,335.7	-401.2	3,350.0	0.00	0.00	0.00
15,800.0	90.00	359.58	12,489.0	3,435.7	-402.0	3,450.0	0.00	0.00	0.00
15,900.0	90.00	359.58	12,489.0	3,535.7	-402.7	3,549.9	0.00	0.00	0.00
16,000.0	90.00	359.58	12,489.0	3,635.7	-403.4	3,649.8	0.00	0.00	0.00
16,100.0	90.00	359.58	12,489.0	3,735.7	-404.2	3,749.8	0.00	0.00	0.00
16,200.0	90.00	359.58	12,489.0	3,835.7	-404.9	3,849.7	0.00	0.00	0.00
16,300.0	90.00	359.58	12,489.0	3,935.7	-405.6	3,949.6	0.00	0.00	0.00
16,400.0	90.00	359.58	12,489.0	4,035.6	-406.4	4,049.6	0.00	0.00	0.00
16,500.0	90.00	359.58	12,489.0	4,135.6	-407.1	4,149.5	0.00	0.00	0.00
16,600.0	90.00	359.58	12,489.0	4,235.6	-407.9	4,249.4	0.00	0.00	0.00
16,700.0	90.00	359.58	12,489.0	4,335.6	-408.6	4,349.4	0.00	0.00	0.00
16,800.0	90.00	359.58	12,489.0	4,435.6	-409.3	4,449.3	0.00	0.00	0.00
16,900.0	90.00	359.58	12,489.0	4,535.6	-410.1	4,549.2	0.00	0.00	0.00
17,000.0	90.00	359.58	12,489.0	4,635.6	-410.8	4,649.2	0.00	0.00	0.00
17,100.0	90.00	359.58	12,489.0	4,735.6	-411.6	4,749.1	0.00	0.00	0.00
17,200.0	90.00	359.58	12,489.0	4,835.6	-412.3	4,849.0	0.00	0.00	0.00
17,300.0	90.00	359.58	12,489.0	4,935.6	-413.0	4,949.0	0.00	0.00	0.00
17,400.0	90.00	359.58	12,489.0	5,035.6	-413.8	5,048.9	0.00	0.00	0.00
17,500.0	90.00	359.58	12,489.0	5,135.6	-414.5	5,148.8	0.00	0.00	0.00
17,600.0	90.00	359.58	12,489.0	5,235.6	-415.3	5,248.8	0.00	0.00	0.00
17,700.0	90.00	359.58	12,489.0	5,335.6	-416.0	5,348.7	0.00	0.00	0.00
17,800.0	90.00	359.58	12,489.0	5,435.6	-416.7	5,448.6	0.00	0.00	0.00
17,900.0	90.00	359.58	12,489.0	5,535.6	-417.5	5,548.6	0.00	0.00	0.00
18,000.0	90.00	359.58	12,489.0	5,635.6	-418.2	5,648.5	0.00	0.00	0.00
18,100.0	90.00	359.58	12,489.0	5,735.6	-419.0	5,748.4	0.00	0.00	0.00
18,200.0	90.00	359.58	12,489.0	5,835.6	-419.7	5,848.4	0.00	0.00	0.00
18,300.0	90.00	359.58	12,489.0	5,935.6	-420.4	5,948.3	0.00	0.00	0.00
18,400.0	90.00	359.58	12,489.0	6,035.6	-421.2	6,048.2	0.00	0.00	0.00
18,500.0	90.00	359.58	12,489.0	6,135.6	-421.9	6,148.2	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3638.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3638.0usft
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)
18,600.0	90.00	359.58	12,489.0	6,235.6	-422.7	6,248.1	0.00	0.00	0.00
18,700.0	90.00	359.58	12,489.0	6,335.6	-423.4	6,348.0	0.00	0.00	0.00
18,800.0	90.00	359.58	12,489.0	6,435.6	-424.1	6,448.0	0.00	0.00	0.00
18,900.0	90.00	359.58	12,489.0	6,535.6	-424.9	6,547.9	0.00	0.00	0.00
19,000.0	90.00	359.58	12,489.0	6,635.6	-425.6	6,647.9	0.00	0.00	0.00
19,100.0	90.00	359.58	12,489.0	6,735.6	-426.4	6,747.8	0.00	0.00	0.00
19,200.0	90.00	359.58	12,489.0	6,835.6	-427.1	6,847.7	0.00	0.00	0.00
19,300.0	90.00	359.58	12,489.0	6,935.6	-427.8	6,947.7	0.00	0.00	0.00
19,400.0	90.00	359.58	12,489.0	7,035.6	-428.6	7,047.6	0.00	0.00	0.00
19,500.0	90.00	359.58	12,489.0	7,135.6	-429.3	7,147.5	0.00	0.00	0.00
19,600.0	90.00	359.58	12,489.0	7,235.6	-430.1	7,247.5	0.00	0.00	0.00
19,700.0	90.00	359.58	12,489.0	7,335.6	-430.8	7,347.4	0.00	0.00	0.00
19,800.0	90.00	359.58	12,489.0	7,435.6	-431.5	7,447.3	0.00	0.00	0.00
19,900.0	90.00	359.58	12,489.0	7,535.6	-432.3	7,547.3	0.00	0.00	0.00
20,000.0	90.00	359.58	12,489.0	7,635.6	-433.0	7,647.2	0.00	0.00	0.00
20,100.0	90.00	359.58	12,489.0	7,735.5	-433.8	7,747.1	0.00	0.00	0.00
20,200.0	90.00	359.58	12,489.0	7,835.5	-434.5	7,847.1	0.00	0.00	0.00
20,300.0	90.00	359.58	12,489.0	7,935.5	-435.2	7,947.0	0.00	0.00	0.00
20,400.0	90.00	359.58	12,489.0	8,035.5	-436.0	8,046.9	0.00	0.00	0.00
20,500.0	90.00	359.58	12,489.0	8,135.5	-436.7	8,146.9	0.00	0.00	0.00
20,600.0	90.00	359.58	12,489.0	8,235.5	-437.5	8,246.8	0.00	0.00	0.00
20,700.0	90.00	359.58	12,489.0	8,335.5	-438.2	8,346.7	0.00	0.00	0.00
20,800.0	90.00	359.58	12,489.0	8,435.5	-438.9	8,446.7	0.00	0.00	0.00
20,900.0	90.00	359.58	12,489.0	8,535.5	-439.7	8,546.6	0.00	0.00	0.00
21,000.0	90.00	359.58	12,489.0	8,635.5	-440.4	8,646.5	0.00	0.00	0.00
21,100.0	90.00	359.58	12,489.0	8,735.5	-441.2	8,746.5	0.00	0.00	0.00
21,200.0	90.00	359.58	12,489.0	8,835.5	-441.9	8,846.4	0.00	0.00	0.00
21,300.0	90.00	359.58	12,489.0	8,935.5	-442.6	8,946.3	0.00	0.00	0.00
21,400.0	90.00	359.58	12,489.0	9,035.5	-443.4	9,046.3	0.00	0.00	0.00
21,500.0	90.00	359.58	12,489.0	9,135.5	-444.1	9,146.2	0.00	0.00	0.00
21,600.0	90.00	359.58	12,489.0	9,235.5	-444.9	9,246.1	0.00	0.00	0.00
21,700.0	90.00	359.58	12,489.0	9,335.5	-445.6	9,346.1	0.00	0.00	0.00
21,800.0	90.00	359.58	12,489.0	9,435.5	-446.3	9,446.0	0.00	0.00	0.00
21,900.0	90.00	359.58	12,489.0	9,535.5	-447.1	9,545.9	0.00	0.00	0.00
22,000.0	90.00	359.58	12,489.0	9,635.5	-447.8	9,645.9	0.00	0.00	0.00
22,100.0	90.00	359.58	12,489.0	9,735.5	-448.6	9,745.8	0.00	0.00	0.00
22,200.0	90.00	359.58	12,489.0	9,835.5	-449.3	9,845.7	0.00	0.00	0.00
22,300.0	90.00	359.58	12,489.0	9,935.5	-450.0	9,945.7	0.00	0.00	0.00
22,400.0	90.00	359.58	12,489.0	10,035.5	-450.8	10,045.6	0.00	0.00	0.00
22,500.0	90.00	359.58	12,489.0	10,135.5	-451.5	10,145.5	0.00	0.00	0.00
22,600.0	90.00	359.58	12,489.0	10,235.5	-452.3	10,245.5	0.00	0.00	0.00
22,700.5	90.00	359.58	12,489.0	10,336.0	-453.0	10,345.9	0.00	0.00	0.00
BHL (Neptune 10 St Com #707H)									



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3638.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3638.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#707H	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 (Neptune 10 St Cor - plan hits target center - Point	0.00	0.01	12,011.5	-72.0	-376.0	446,452.00	780,503.00	32° 13' 30.024 N	103° 33' 35.703 W
FTP (Neptune 10 St Cor - plan misses target center by 163.5usft at 12424.0usft MD (12369.2 TVD, 89.2 N, -377.2 E) - Point	0.00	0.01	12,489.0	-22.0	-376.0	446,502.00	780,503.00	32° 13' 30.518 N	103° 33' 35.699 W
BHL (Neptune 10 St Cor - plan hits target center - Point	0.00	0.00	12,489.0	10,336.0	-453.0	456,860.00	780,426.00	32° 15' 13.018 N	103° 33' 35.727 W