

HOBBS OCD
FEB 14 2018
RECEIVED



Lea County, NM (NAD 83 NME)

Neptune 10 State Com #711H

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

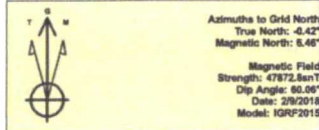
WELL DETAILS: #711H

KB = 25' @ 3632.0usft 3607.0
Northing 446664.00 Easting 782475.90 Latitude 32°13'31.980 N Longitude 103°33'12.729 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	8000.0	0.00	0.00	8000.0	0.0	0.0	0.00	0.00	0.0	
3	8192.0	3.84	216.72	8191.8	-5.2	-3.8	2.00	216.72	-5.1	
4	11780.7	3.84	216.72	11772.5	-197.7	-147.5	0.00	0.00	-194.1	
5	12556.2	90.00	359.57	12275.0	278.9	-171.5	12.00	142.78	283.0	
6	22353.6	90.00	359.57	12275.0	10076.0	-245.0	0.00	0.00	10079.0	PBHL (Neptune 10 St Com #711H)

To convert a Magnetic Direction to a Grid Direction, Add 6.48°
To convert a Magnetic Direction to a True Direction, Add 6.87° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

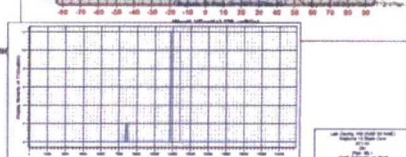
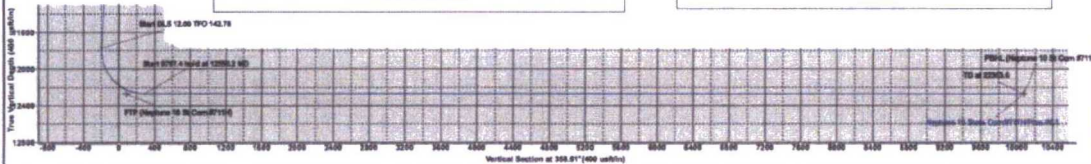
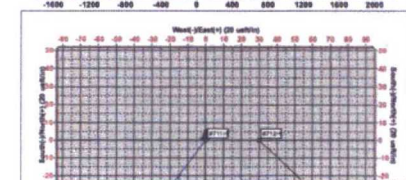
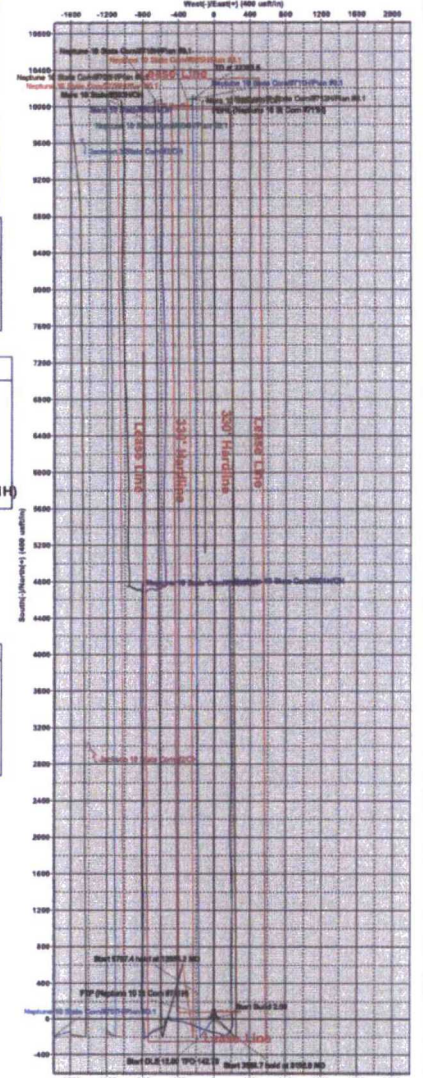
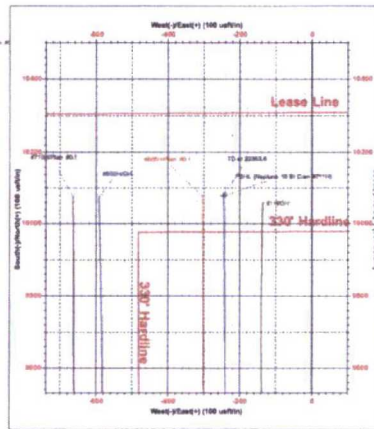
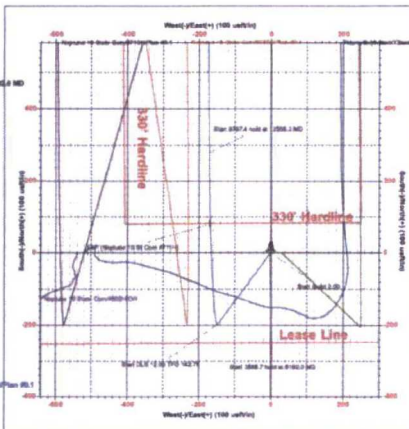
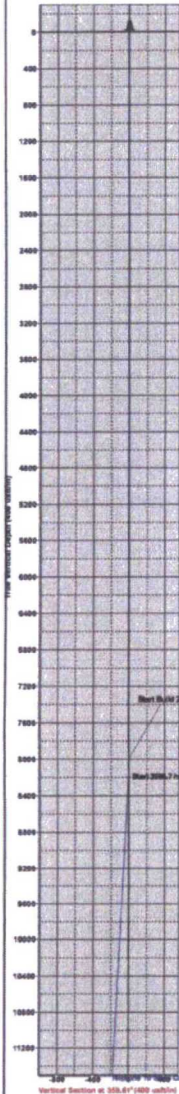


CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Neptune 10 St Com #711H)	12275.0	79.0	-170.0	446743.00	782365.00
PBHL (Neptune 10 St Com #711H)	12275.0	10076.0	-245.0	446740.00	782330.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#711H

OH

Plan: Plan #0.1

Standard Planning Report

12 February, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #711H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25' @ 3632.0usft
MD Reference: KB = 25' @ 3632.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

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 #711H

Well Position +N/-S 107.0 usft Northing: 446,664.00 usft Latitude: 32° 13' 31.980 N
 +E/-W 3,511.0 usft Easting: 782,475.00 usft Longitude: 103° 33' 12.729 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,607.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/9/2018	6.87	60.06	47,872.83612241

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	358.61

Plan Survey Tool Program Date 2/12/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,352.6 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	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,192.0	3.84	216.72	8,191.8	-5.2	-3.8	2.00	2.00	0.00	216.72	
11,780.7	3.84	216.72	11,772.5	-197.7	-147.5	0.00	0.00	0.00	0.00	
12,556.2	90.00	359.57	12,275.0	278.9	-171.5	12.00	11.11	18.42	142.78	
22,353.6	90.00	359.57	12,275.0	10,076.0	-245.0	0.00	0.00	0.00	0.00	PBHL (Neptune 10 St



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Neptune 10 State Com
 Well: #711H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference: KB = 25' @ 3632.0usft
 MD Reference: KB = 25' @ 3632.0usft
 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)
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	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
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Neptune 10 State Com
 Well: #711H
 Wellbore: OH
 Design: Plan #0.1

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 MD Reference: KB = 25' @ 3632.0usft
 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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	2.00	216.72	8,100.0	-1.4	-1.0	-1.4	2.00	2.00	0.00
8,192.0	3.84	216.72	8,191.8	-5.2	-3.8	-5.1	2.00	2.00	0.00
8,200.0	3.84	216.72	8,199.8	-5.6	-4.2	-5.5	0.00	0.00	0.00
8,300.0	3.84	216.72	8,299.6	-11.0	-8.2	-10.7	0.00	0.00	0.00
8,400.0	3.84	216.72	8,399.4	-16.3	-12.2	-16.0	0.00	0.00	0.00
8,500.0	3.84	216.72	8,499.2	-21.7	-16.2	-21.3	0.00	0.00	0.00
8,600.0	3.84	216.72	8,598.9	-27.1	-20.2	-26.6	0.00	0.00	0.00
8,700.0	3.84	216.72	8,698.7	-32.4	-24.2	-31.8	0.00	0.00	0.00
8,800.0	3.84	216.72	8,798.5	-37.8	-28.2	-37.1	0.00	0.00	0.00
8,900.0	3.84	216.72	8,898.3	-43.2	-32.2	-42.4	0.00	0.00	0.00
9,000.0	3.84	216.72	8,998.0	-48.5	-36.2	-47.6	0.00	0.00	0.00
9,100.0	3.84	216.72	9,097.8	-53.9	-40.2	-52.9	0.00	0.00	0.00
9,200.0	3.84	216.72	9,197.6	-59.2	-44.2	-58.2	0.00	0.00	0.00
9,300.0	3.84	216.72	9,297.4	-64.6	-48.2	-63.4	0.00	0.00	0.00
9,400.0	3.84	216.72	9,397.1	-70.0	-52.2	-68.7	0.00	0.00	0.00
9,500.0	3.84	216.72	9,496.9	-75.3	-56.2	-74.0	0.00	0.00	0.00
9,600.0	3.84	216.72	9,596.7	-80.7	-60.2	-79.2	0.00	0.00	0.00
9,700.0	3.84	216.72	9,696.5	-86.1	-64.2	-84.5	0.00	0.00	0.00
9,800.0	3.84	216.72	9,796.2	-91.4	-68.2	-89.8	0.00	0.00	0.00
9,900.0	3.84	216.72	9,896.0	-96.8	-72.2	-95.0	0.00	0.00	0.00
10,000.0	3.84	216.72	9,995.8	-102.2	-76.2	-100.3	0.00	0.00	0.00
10,100.0	3.84	216.72	10,095.6	-107.5	-80.2	-105.6	0.00	0.00	0.00
10,200.0	3.84	216.72	10,195.4	-112.9	-84.2	-110.8	0.00	0.00	0.00
10,300.0	3.84	216.72	10,295.1	-118.3	-88.2	-116.1	0.00	0.00	0.00
10,400.0	3.84	216.72	10,394.9	-123.6	-92.2	-121.4	0.00	0.00	0.00
10,500.0	3.84	216.72	10,494.7	-129.0	-96.3	-126.6	0.00	0.00	0.00
10,600.0	3.84	216.72	10,594.5	-134.4	-100.3	-131.9	0.00	0.00	0.00



Planning Report

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Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #711H
Wellbore: OH
Design: Plan #0.1

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

Well #711H
KB = 25' @ 3632.0usft
KB = 25' @ 3632.0usft
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)
10,700.0	3.84	216.72	10,694.2	-139.7	-104.3	-137.2	0.00	0.00	0.00
10,800.0	3.84	216.72	10,794.0	-145.1	-108.3	-142.4	0.00	0.00	0.00
10,900.0	3.84	216.72	10,893.8	-150.5	-112.3	-147.7	0.00	0.00	0.00
11,000.0	3.84	216.72	10,993.6	-155.8	-116.3	-153.0	0.00	0.00	0.00
11,100.0	3.84	216.72	11,093.3	-161.2	-120.3	-158.2	0.00	0.00	0.00
11,200.0	3.84	216.72	11,193.1	-166.6	-124.3	-163.5	0.00	0.00	0.00
11,300.0	3.84	216.72	11,292.9	-171.9	-128.3	-168.8	0.00	0.00	0.00
11,400.0	3.84	216.72	11,392.7	-177.3	-132.3	-174.0	0.00	0.00	0.00
11,500.0	3.84	216.72	11,492.4	-182.7	-136.3	-179.3	0.00	0.00	0.00
11,600.0	3.84	216.72	11,592.2	-188.0	-140.3	-184.6	0.00	0.00	0.00
11,700.0	3.84	216.72	11,692.0	-193.4	-144.3	-189.8	0.00	0.00	0.00
11,780.7	3.84	216.72	11,772.5	-197.7	-147.5	-194.1	0.00	0.00	0.00
11,800.0	2.44	251.91	11,791.8	-198.4	-148.3	-194.7	12.00	-7.26	181.96
11,825.0	3.24	313.85	11,816.7	-198.1	-149.3	-194.4	12.00	3.22	247.75
11,850.0	5.75	335.83	11,841.7	-196.4	-150.3	-192.7	12.00	10.04	87.94
11,875.0	8.58	343.99	11,866.5	-193.5	-151.4	-189.8	12.00	11.32	32.62
11,900.0	11.49	348.07	11,891.1	-189.3	-152.4	-185.5	12.00	11.66	16.35
11,925.0	14.44	350.52	11,915.5	-183.8	-153.4	-180.0	12.00	11.80	9.77
11,950.0	17.41	352.14	11,939.5	-177.0	-154.5	-173.2	12.00	11.87	6.51
11,975.0	20.39	353.31	11,963.1	-168.9	-155.5	-165.1	12.00	11.91	4.66
12,000.0	23.37	354.19	11,986.3	-159.7	-156.5	-155.8	12.00	11.93	3.52
12,025.0	26.36	354.88	12,009.0	-149.2	-157.5	-145.3	12.00	11.94	2.76
12,050.0	29.34	355.44	12,031.1	-137.6	-158.5	-133.7	12.00	11.95	2.23
12,075.0	32.34	355.90	12,052.6	-124.8	-159.4	-120.9	12.00	11.96	1.85
12,100.0	35.33	356.29	12,073.3	-110.9	-160.4	-107.0	12.00	11.97	1.57
12,125.0	38.32	356.63	12,093.4	-96.0	-161.3	-92.0	12.00	11.97	1.35
12,150.0	41.31	356.93	12,112.6	-80.0	-162.2	-76.0	12.00	11.98	1.19
12,175.0	44.31	357.19	12,130.9	-63.0	-163.1	-59.0	12.00	11.98	1.05
12,200.0	47.30	357.43	12,148.3	-45.1	-163.9	-41.1	12.00	11.98	0.95
12,225.0	50.30	357.64	12,164.8	-26.3	-164.7	-22.3	12.00	11.98	0.86
12,250.0	53.30	357.84	12,180.2	-6.7	-165.5	-2.7	12.00	11.98	0.79
12,275.0	56.29	358.02	12,194.7	13.7	-166.2	17.8	12.00	11.99	0.73
12,300.0	59.29	358.19	12,208.0	34.9	-166.9	38.9	12.00	11.99	0.68
12,325.0	62.29	358.35	12,220.2	56.7	-167.6	60.7	12.00	11.99	0.64
12,350.0	65.28	358.50	12,231.2	79.1	-168.2	83.1	12.00	11.99	0.60
12,375.0	68.28	358.64	12,241.1	102.0	-168.8	106.1	12.00	11.99	0.58
12,400.0	71.28	358.78	12,249.7	125.5	-169.3	129.6	12.00	11.99	0.55
12,425.0	74.27	358.92	12,257.1	149.4	-169.8	153.5	12.00	11.99	0.53
12,450.0	77.27	359.05	12,263.3	173.6	-170.2	177.7	12.00	11.99	0.52
12,475.0	80.27	359.17	12,268.1	198.1	-170.6	202.2	12.00	11.99	0.51
12,500.0	83.27	359.30	12,271.7	222.9	-170.9	226.9	12.00	11.99	0.50
12,525.0	86.26	359.42	12,274.0	247.7	-171.2	251.8	12.00	11.99	0.49
12,550.0	89.26	359.54	12,275.0	272.7	-171.4	276.8	12.00	11.99	0.49
12,556.2	90.00	359.57	12,275.0	278.9	-171.5	283.0	12.00	11.99	0.49
12,600.0	90.00	359.57	12,275.0	322.7	-171.8	326.8	0.00	0.00	0.00
12,700.0	90.00	359.57	12,275.0	422.7	-172.6	426.8	0.00	0.00	0.00
12,800.0	90.00	359.57	12,275.0	522.7	-173.3	526.8	0.00	0.00	0.00
12,900.0	90.00	359.57	12,275.0	622.7	-174.1	626.8	0.00	0.00	0.00
13,000.0	90.00	359.57	12,275.0	722.7	-174.8	726.7	0.00	0.00	0.00
13,100.0	90.00	359.57	12,275.0	822.7	-175.6	826.7	0.00	0.00	0.00
13,200.0	90.00	359.57	12,275.0	922.7	-176.3	926.7	0.00	0.00	0.00
13,300.0	90.00	359.57	12,275.0	1,022.7	-177.1	1,026.7	0.00	0.00	0.00
13,400.0	90.00	359.57	12,275.0	1,122.7	-177.8	1,126.7	0.00	0.00	0.00
13,500.0	90.00	359.57	12,275.0	1,222.7	-178.6	1,226.7	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Neptune 10 State Com
 Well: #711H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #711H
 TVD Reference: KB = 25' @ 3632.0usft
 MD Reference: KB = 25' @ 3632.0usft
 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)
13,600.0	90.00	359.57	12,275.0	1,322.7	-179.3	1,326.7	0.00	0.00	0.00
13,700.0	90.00	359.57	12,275.0	1,422.7	-180.1	1,426.6	0.00	0.00	0.00
13,800.0	90.00	359.57	12,275.0	1,522.7	-180.8	1,526.6	0.00	0.00	0.00
13,900.0	90.00	359.57	12,275.0	1,622.7	-181.6	1,626.6	0.00	0.00	0.00
14,000.0	90.00	359.57	12,275.0	1,722.7	-182.3	1,726.6	0.00	0.00	0.00
14,100.0	90.00	359.57	12,275.0	1,822.7	-183.1	1,826.6	0.00	0.00	0.00
14,200.0	90.00	359.57	12,275.0	1,922.7	-183.8	1,926.6	0.00	0.00	0.00
14,300.0	90.00	359.57	12,275.0	2,022.7	-184.6	2,026.6	0.00	0.00	0.00
14,400.0	90.00	359.57	12,275.0	2,122.7	-185.3	2,126.5	0.00	0.00	0.00
14,500.0	90.00	359.57	12,275.0	2,222.7	-186.1	2,226.5	0.00	0.00	0.00
14,600.0	90.00	359.57	12,275.0	2,322.7	-186.8	2,326.5	0.00	0.00	0.00
14,700.0	90.00	359.57	12,275.0	2,422.7	-187.6	2,426.5	0.00	0.00	0.00
14,800.0	90.00	359.57	12,275.0	2,522.7	-188.3	2,526.5	0.00	0.00	0.00
14,900.0	90.00	359.57	12,275.0	2,622.7	-189.1	2,626.5	0.00	0.00	0.00
15,000.0	90.00	359.57	12,275.0	2,722.7	-189.8	2,726.5	0.00	0.00	0.00
15,100.0	90.00	359.57	12,275.0	2,822.6	-190.6	2,826.4	0.00	0.00	0.00
15,200.0	90.00	359.57	12,275.0	2,922.6	-191.3	2,926.4	0.00	0.00	0.00
15,300.0	90.00	359.57	12,275.0	3,022.6	-192.1	3,026.4	0.00	0.00	0.00
15,400.0	90.00	359.57	12,275.0	3,122.6	-192.8	3,126.4	0.00	0.00	0.00
15,500.0	90.00	359.57	12,275.0	3,222.6	-193.6	3,226.4	0.00	0.00	0.00
15,600.0	90.00	359.57	12,275.0	3,322.6	-194.3	3,326.4	0.00	0.00	0.00
15,700.0	90.00	359.57	12,275.0	3,422.6	-195.1	3,426.4	0.00	0.00	0.00
15,800.0	90.00	359.57	12,275.0	3,522.6	-195.8	3,526.3	0.00	0.00	0.00
15,900.0	90.00	359.57	12,275.0	3,622.6	-196.6	3,626.3	0.00	0.00	0.00
16,000.0	90.00	359.57	12,275.0	3,722.6	-197.3	3,726.3	0.00	0.00	0.00
16,100.0	90.00	359.57	12,275.0	3,822.6	-198.1	3,826.3	0.00	0.00	0.00
16,200.0	90.00	359.57	12,275.0	3,922.6	-198.8	3,926.3	0.00	0.00	0.00
16,300.0	90.00	359.57	12,275.0	4,022.6	-199.6	4,026.3	0.00	0.00	0.00
16,400.0	90.00	359.57	12,275.0	4,122.6	-200.3	4,126.3	0.00	0.00	0.00
16,500.0	90.00	359.57	12,275.0	4,222.6	-201.1	4,226.2	0.00	0.00	0.00
16,600.0	90.00	359.57	12,275.0	4,322.6	-201.8	4,326.2	0.00	0.00	0.00
16,700.0	90.00	359.57	12,275.0	4,422.6	-202.6	4,426.2	0.00	0.00	0.00
16,800.0	90.00	359.57	12,275.0	4,522.6	-203.3	4,526.2	0.00	0.00	0.00
16,900.0	90.00	359.57	12,275.0	4,622.6	-204.1	4,626.2	0.00	0.00	0.00
17,000.0	90.00	359.57	12,275.0	4,722.6	-204.8	4,726.2	0.00	0.00	0.00
17,100.0	90.00	359.57	12,275.0	4,822.6	-205.6	4,826.2	0.00	0.00	0.00
17,200.0	90.00	359.57	12,275.0	4,922.6	-206.3	4,926.1	0.00	0.00	0.00
17,300.0	90.00	359.57	12,275.0	5,022.6	-207.1	5,026.1	0.00	0.00	0.00
17,400.0	90.00	359.57	12,275.0	5,122.6	-207.8	5,126.1	0.00	0.00	0.00
17,500.0	90.00	359.57	12,275.0	5,222.6	-208.6	5,226.1	0.00	0.00	0.00
17,600.0	90.00	359.57	12,275.0	5,322.6	-209.3	5,326.1	0.00	0.00	0.00
17,700.0	90.00	359.57	12,275.0	5,422.6	-210.1	5,426.1	0.00	0.00	0.00
17,800.0	90.00	359.57	12,275.0	5,522.6	-210.8	5,526.1	0.00	0.00	0.00
17,900.0	90.00	359.57	12,275.0	5,622.6	-211.6	5,626.1	0.00	0.00	0.00
18,000.0	90.00	359.57	12,275.0	5,722.6	-212.3	5,726.0	0.00	0.00	0.00
18,100.0	90.00	359.57	12,275.0	5,822.6	-213.1	5,826.0	0.00	0.00	0.00
18,200.0	90.00	359.57	12,275.0	5,922.6	-213.8	5,926.0	0.00	0.00	0.00
18,300.0	90.00	359.57	12,275.0	6,022.6	-214.6	6,026.0	0.00	0.00	0.00
18,400.0	90.00	359.57	12,275.0	6,122.6	-215.3	6,126.0	0.00	0.00	0.00
18,500.0	90.00	359.57	12,275.0	6,222.6	-216.1	6,226.0	0.00	0.00	0.00
18,600.0	90.00	359.57	12,275.0	6,322.5	-216.8	6,326.0	0.00	0.00	0.00
18,700.0	90.00	359.57	12,275.0	6,422.5	-217.6	6,425.9	0.00	0.00	0.00
18,800.0	90.00	359.57	12,275.0	6,522.5	-218.3	6,525.9	0.00	0.00	0.00
18,900.0	90.00	359.57	12,275.0	6,622.5	-219.1	6,625.9	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #711H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25' @ 3632.0usft
MD Reference: KB = 25' @ 3632.0usft
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)
19,000.0	90.00	359.57	12,275.0	6,722.5	-219.8	6,725.9	0.00	0.00	0.00
19,100.0	90.00	359.57	12,275.0	6,822.5	-220.6	6,825.9	0.00	0.00	0.00
19,200.0	90.00	359.57	12,275.0	6,922.5	-221.3	6,925.9	0.00	0.00	0.00
19,300.0	90.00	359.57	12,275.0	7,022.5	-222.1	7,025.9	0.00	0.00	0.00
19,400.0	90.00	359.57	12,275.0	7,122.5	-222.8	7,125.8	0.00	0.00	0.00
19,500.0	90.00	359.57	12,275.0	7,222.5	-223.6	7,225.8	0.00	0.00	0.00
19,600.0	90.00	359.57	12,275.0	7,322.5	-224.3	7,325.8	0.00	0.00	0.00
19,700.0	90.00	359.57	12,275.0	7,422.5	-225.1	7,425.8	0.00	0.00	0.00
19,800.0	90.00	359.57	12,275.0	7,522.5	-225.8	7,525.8	0.00	0.00	0.00
19,900.0	90.00	359.57	12,275.0	7,622.5	-226.6	7,625.8	0.00	0.00	0.00
20,000.0	90.00	359.57	12,275.0	7,722.5	-227.3	7,725.8	0.00	0.00	0.00
20,100.0	90.00	359.57	12,275.0	7,822.5	-228.1	7,825.7	0.00	0.00	0.00
20,200.0	90.00	359.57	12,275.0	7,922.5	-228.8	7,925.7	0.00	0.00	0.00
20,300.0	90.00	359.57	12,275.0	8,022.5	-229.6	8,025.7	0.00	0.00	0.00
20,400.0	90.00	359.57	12,275.0	8,122.5	-230.3	8,125.7	0.00	0.00	0.00
20,500.0	90.00	359.57	12,275.0	8,222.5	-231.1	8,225.7	0.00	0.00	0.00
20,600.0	90.00	359.57	12,275.0	8,322.5	-231.8	8,325.7	0.00	0.00	0.00
20,700.0	90.00	359.57	12,275.0	8,422.5	-232.6	8,425.7	0.00	0.00	0.00
20,800.0	90.00	359.57	12,275.0	8,522.5	-233.3	8,525.6	0.00	0.00	0.00
20,900.0	90.00	359.57	12,275.0	8,622.5	-234.1	8,625.6	0.00	0.00	0.00
21,000.0	90.00	359.57	12,275.0	8,722.5	-234.8	8,725.6	0.00	0.00	0.00
21,100.0	90.00	359.57	12,275.0	8,822.5	-235.6	8,825.6	0.00	0.00	0.00
21,200.0	90.00	359.57	12,275.0	8,922.5	-236.3	8,925.6	0.00	0.00	0.00
21,300.0	90.00	359.57	12,275.0	9,022.5	-237.1	9,025.6	0.00	0.00	0.00
21,400.0	90.00	359.57	12,275.0	9,122.5	-237.8	9,125.6	0.00	0.00	0.00
21,500.0	90.00	359.57	12,275.0	9,222.5	-238.6	9,225.5	0.00	0.00	0.00
21,600.0	90.00	359.57	12,275.0	9,322.5	-239.3	9,325.5	0.00	0.00	0.00
21,700.0	90.00	359.57	12,275.0	9,422.5	-240.1	9,425.5	0.00	0.00	0.00
21,800.0	90.00	359.57	12,275.0	9,522.5	-240.8	9,525.5	0.00	0.00	0.00
21,900.0	90.00	359.57	12,275.0	9,622.5	-241.6	9,625.5	0.00	0.00	0.00
22,000.0	90.00	359.57	12,275.0	9,722.5	-242.3	9,725.5	0.00	0.00	0.00
22,100.0	90.00	359.57	12,275.0	9,822.5	-243.1	9,825.5	0.00	0.00	0.00
22,200.0	90.00	359.57	12,275.0	9,922.4	-243.8	9,925.4	0.00	0.00	0.00
22,300.0	90.00	359.57	12,275.0	10,022.4	-244.6	10,025.4	0.00	0.00	0.00
22,353.6	90.00	359.57	12,275.0	10,076.0	-245.0	10,079.0	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Neptune 10 St Ct	0.00	0.00	12,275.0	10,076.0	-245.0	456,740.00	782,230.00	32° 15' 11.701 N	103° 33' 14.730 W
- plan hits target center									
- Point									
FTP (Neptune 10 St Cor	0.00	0.00	12,275.0	79.0	-170.0	446,743.00	782,305.00	32° 13' 32.774 N	103° 33' 14.702 W
- plan misses target center by 40.2usft at 12367.2usft MD (12238.1 TVD, 94.9 N, -168.6 E)									
- Point									