

30-025-48460

HOBBS OCD
FEB 13 2018
RECEIVED



Lea County, NM (NAD 83 NME)
Neptune 10 State Com #603H
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: #603H

KB = 25' @ 3634.0' 3609.0
Northing 446827.00 Easting 780623.00 Latitude 32° 13' 33.789 N Longitude 103° 33' 41.259 W

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.47°

Magnetic Field
Strength: 47872.6enT
Dip Angle: 60.00°
Date: 2/8/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.47°
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°

SECTION DETAILS

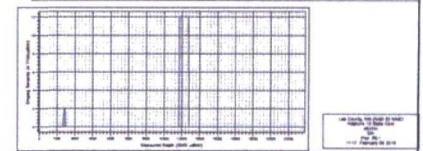
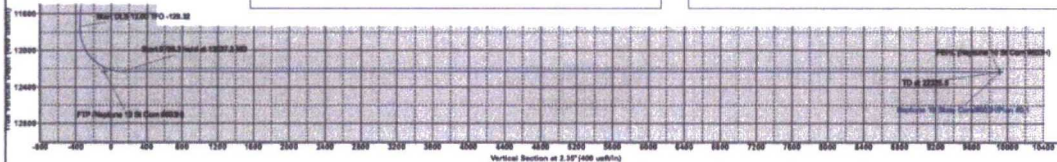
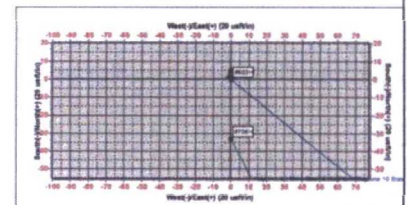
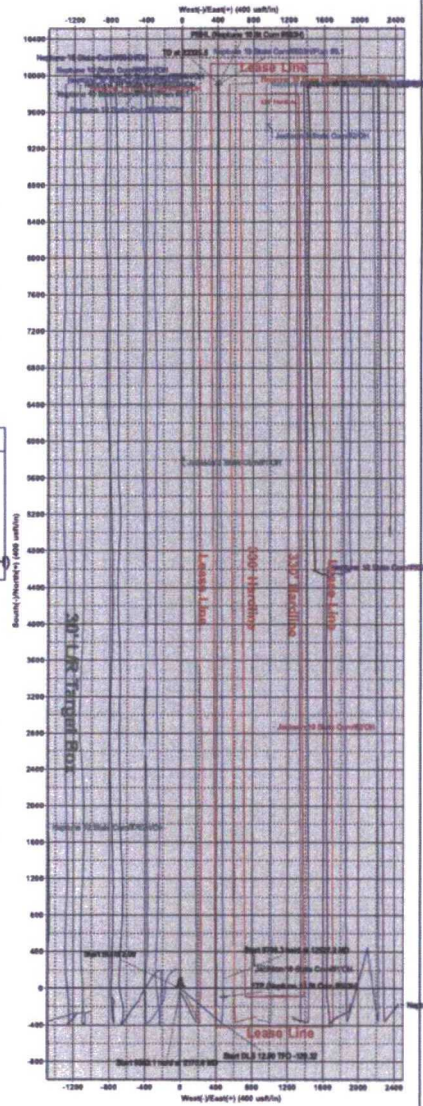
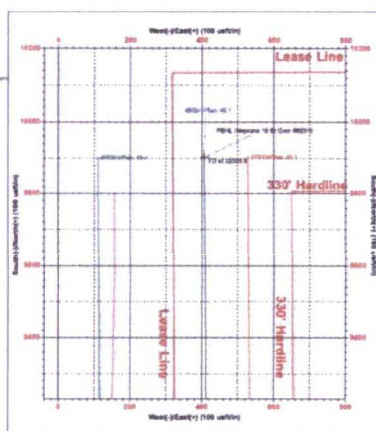
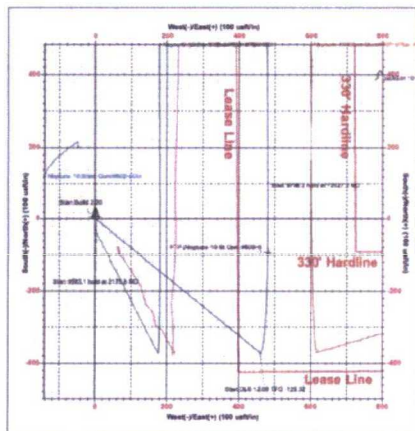
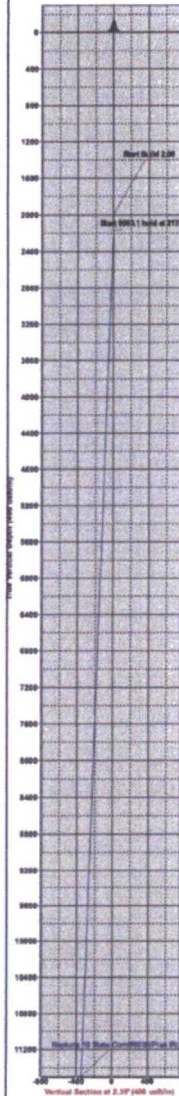
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2175.6	3.51	128.95	2175.4	-3.4	4.2	2.00	128.95	-3.2	
4	11758.6	3.51	128.95	11740.5	-372.3	460.6	0.00	0.00	-353.1	
5	12527.2	90.00	359.57	12236.0	105.0	480.5	12.00	-129.32	124.6	
6	22325.5	90.00	359.57	12236.0	9903.0	407.0	0.00	0.00	9911.4	PBHL (Neptune 10 St Com #603H)

CASING DETAILS

No casing data is available

WELLBONE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Neptune 10 St Com #603H)	12236.0	-95.0	482.0	446732.90	780505.00
PBHL (Neptune 10 St Com #603H)	12236.0	9903.0	407.0	456738.00	780430.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#603H

OH

Plan: Plan #0.1

Standard Planning Report

09 February, 2018



Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #603H
Wellbore: OH
Design: Plan #0.1

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

Well #603H
 KB = 25' @ 3634.0usft
 KB = 25' @ 3634.0usft
 Grid
 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 #603H

Well Position +N/-S 270.0 usft Northing: 446,827.00 usft Latitude: 32° 13' 33.769 N
 +E/-W 1,059.0 usft Easting: 780,023.00 usft Longitude: 103° 33' 41.259 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	2/8/2018	6.88	60.06	47,872.56828003

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	2.35

Plan Survey Tool Program Date 2/9/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,325.5 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	
2,175.6	3.51	128.95	2,175.4	-3.4	4.2	2.00	2.00	0.00	128.95	
11,758.6	3.51	128.95	11,740.5	-372.3	460.6	0.00	0.00	0.00	0.00	
12,527.2	90.00	359.57	12,236.0	105.0	480.5	12.00	11.25	-16.83	-129.32	
22,325.5	90.00	359.57	12,236.0	9,903.0	407.0	0.00	0.00	0.00	0.00	PBHL (Neptune 10 St

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Neptune 10 State Com
 Well: #603H
 Wellbore: OH
 Design: Plan #0.1

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

Well #603H
 KB = 25' @ 3634.0usft
 KB = 25' @ 3634.0usft
 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)
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	2.00	128.95	2,100.0	-1.1	1.4	-1.0	2.00	2.00	0.00
2,175.6	3.51	128.95	2,175.4	-3.4	4.2	-3.2	2.00	2.00	0.00
2,200.0	3.51	128.95	2,199.8	-4.3	5.3	-4.1	0.00	0.00	0.00
2,300.0	3.51	128.95	2,299.7	-8.2	10.1	-7.7	0.00	0.00	0.00
2,400.0	3.51	128.95	2,399.5	-12.0	14.9	-11.4	0.00	0.00	0.00
2,500.0	3.51	128.95	2,499.3	-15.9	19.6	-15.1	0.00	0.00	0.00
2,600.0	3.51	128.95	2,599.1	-19.7	24.4	-18.7	0.00	0.00	0.00
2,700.0	3.51	128.95	2,698.9	-23.6	29.2	-22.4	0.00	0.00	0.00
2,800.0	3.51	128.95	2,798.7	-27.4	33.9	-26.0	0.00	0.00	0.00
2,900.0	3.51	128.95	2,898.5	-31.3	38.7	-29.7	0.00	0.00	0.00
3,000.0	3.51	128.95	2,998.3	-35.1	43.4	-33.3	0.00	0.00	0.00
3,100.0	3.51	128.95	3,098.2	-39.0	48.2	-37.0	0.00	0.00	0.00
3,200.0	3.51	128.95	3,198.0	-42.8	53.0	-40.6	0.00	0.00	0.00
3,300.0	3.51	128.95	3,297.8	-46.7	57.7	-44.3	0.00	0.00	0.00
3,400.0	3.51	128.95	3,397.6	-50.5	62.5	-47.9	0.00	0.00	0.00
3,500.0	3.51	128.95	3,497.4	-54.4	67.3	-51.6	0.00	0.00	0.00
3,600.0	3.51	128.95	3,597.2	-58.2	72.0	-55.2	0.00	0.00	0.00
3,700.0	3.51	128.95	3,697.0	-62.1	76.8	-58.9	0.00	0.00	0.00
3,800.0	3.51	128.95	3,796.8	-65.9	81.6	-62.5	0.00	0.00	0.00
3,900.0	3.51	128.95	3,896.7	-69.8	86.3	-66.2	0.00	0.00	0.00
4,000.0	3.51	128.95	3,996.5	-73.6	91.1	-69.8	0.00	0.00	0.00
4,100.0	3.51	128.95	4,096.3	-77.5	95.8	-73.5	0.00	0.00	0.00
4,200.0	3.51	128.95	4,196.1	-81.3	100.6	-77.1	0.00	0.00	0.00
4,300.0	3.51	128.95	4,295.9	-85.2	105.4	-80.8	0.00	0.00	0.00
4,400.0	3.51	128.95	4,395.7	-89.0	110.1	-84.4	0.00	0.00	0.00
4,500.0	3.51	128.95	4,495.5	-92.9	114.9	-88.1	0.00	0.00	0.00
4,600.0	3.51	128.95	4,595.3	-96.7	119.7	-91.7	0.00	0.00	0.00
4,700.0	3.51	128.95	4,695.2	-100.6	124.4	-95.4	0.00	0.00	0.00
4,800.0	3.51	128.95	4,795.0	-104.4	129.2	-99.0	0.00	0.00	0.00
4,900.0	3.51	128.95	4,894.8	-108.3	133.9	-102.7	0.00	0.00	0.00
5,000.0	3.51	128.95	4,994.6	-112.1	138.7	-106.3	0.00	0.00	0.00
5,100.0	3.51	128.95	5,094.4	-116.0	143.5	-110.0	0.00	0.00	0.00
5,200.0	3.51	128.95	5,194.2	-119.8	148.2	-113.6	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #603H
Wellbore: OH
Design: Plan #0.1

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

Well #603H
 KB = 25' @ 3634.0usft
 KB = 25' @ 3634.0usft
 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)
5,300.0	3.51	128.95	5,294.0	-123.7	153.0	-117.3	0.00	0.00	0.00
5,400.0	3.51	128.95	5,393.8	-127.5	157.8	-120.9	0.00	0.00	0.00
5,500.0	3.51	128.95	5,493.7	-131.4	162.5	-124.6	0.00	0.00	0.00
5,600.0	3.51	128.95	5,593.5	-135.2	167.3	-128.2	0.00	0.00	0.00
5,700.0	3.51	128.95	5,693.3	-139.1	172.0	-131.9	0.00	0.00	0.00
5,800.0	3.51	128.95	5,793.1	-142.9	176.8	-135.5	0.00	0.00	0.00
5,900.0	3.51	128.95	5,892.9	-146.8	181.6	-139.2	0.00	0.00	0.00
6,000.0	3.51	128.95	5,992.7	-150.6	186.3	-142.8	0.00	0.00	0.00
6,100.0	3.51	128.95	6,092.5	-154.5	191.1	-146.5	0.00	0.00	0.00
6,200.0	3.51	128.95	6,192.3	-158.3	195.9	-150.1	0.00	0.00	0.00
6,300.0	3.51	128.95	6,292.1	-162.2	200.6	-153.8	0.00	0.00	0.00
6,400.0	3.51	128.95	6,392.0	-166.0	205.4	-157.4	0.00	0.00	0.00
6,500.0	3.51	128.95	6,491.8	-169.9	210.2	-161.1	0.00	0.00	0.00
6,600.0	3.51	128.95	6,591.6	-173.7	214.9	-164.7	0.00	0.00	0.00
6,700.0	3.51	128.95	6,691.4	-177.6	219.7	-168.4	0.00	0.00	0.00
6,800.0	3.51	128.95	6,791.2	-181.4	224.4	-172.0	0.00	0.00	0.00
6,900.0	3.51	128.95	6,891.0	-185.3	229.2	-175.7	0.00	0.00	0.00
7,000.0	3.51	128.95	6,990.8	-189.1	234.0	-179.3	0.00	0.00	0.00
7,100.0	3.51	128.95	7,090.6	-193.0	238.7	-183.0	0.00	0.00	0.00
7,200.0	3.51	128.95	7,190.5	-196.8	243.5	-186.6	0.00	0.00	0.00
7,300.0	3.51	128.95	7,290.3	-200.7	248.3	-190.3	0.00	0.00	0.00
7,400.0	3.51	128.95	7,390.1	-204.5	253.0	-193.9	0.00	0.00	0.00
7,500.0	3.51	128.95	7,489.9	-208.4	257.8	-197.6	0.00	0.00	0.00
7,600.0	3.51	128.95	7,589.7	-212.2	262.5	-201.2	0.00	0.00	0.00
7,700.0	3.51	128.95	7,689.5	-216.0	267.3	-204.9	0.00	0.00	0.00
7,800.0	3.51	128.95	7,789.3	-219.9	272.1	-208.5	0.00	0.00	0.00
7,900.0	3.51	128.95	7,889.1	-223.7	276.8	-212.2	0.00	0.00	0.00
8,000.0	3.51	128.95	7,988.9	-227.6	281.6	-215.8	0.00	0.00	0.00
8,100.0	3.51	128.95	8,088.8	-231.4	286.4	-219.5	0.00	0.00	0.00
8,200.0	3.51	128.95	8,188.6	-235.3	291.1	-223.1	0.00	0.00	0.00
8,300.0	3.51	128.95	8,288.4	-239.1	295.9	-226.8	0.00	0.00	0.00
8,400.0	3.51	128.95	8,388.2	-243.0	300.6	-230.4	0.00	0.00	0.00
8,500.0	3.51	128.95	8,488.0	-246.8	305.4	-234.1	0.00	0.00	0.00
8,600.0	3.51	128.95	8,587.8	-250.7	310.2	-237.7	0.00	0.00	0.00
8,700.0	3.51	128.95	8,687.6	-254.5	314.9	-241.4	0.00	0.00	0.00
8,800.0	3.51	128.95	8,787.5	-258.4	319.7	-245.0	0.00	0.00	0.00
8,900.0	3.51	128.95	8,887.3	-262.2	324.5	-248.7	0.00	0.00	0.00
9,000.0	3.51	128.95	8,987.1	-266.1	329.2	-252.4	0.00	0.00	0.00
9,100.0	3.51	128.95	9,086.9	-269.9	334.0	-256.0	0.00	0.00	0.00
9,200.0	3.51	128.95	9,186.7	-273.8	338.8	-259.7	0.00	0.00	0.00
9,300.0	3.51	128.95	9,286.5	-277.6	343.5	-263.3	0.00	0.00	0.00
9,400.0	3.51	128.95	9,386.3	-281.5	348.3	-267.0	0.00	0.00	0.00
9,500.0	3.51	128.95	9,486.1	-285.3	353.0	-270.6	0.00	0.00	0.00
9,600.0	3.51	128.95	9,586.0	-289.2	357.8	-274.3	0.00	0.00	0.00
9,700.0	3.51	128.95	9,685.8	-293.0	362.6	-277.9	0.00	0.00	0.00
9,800.0	3.51	128.95	9,785.6	-296.9	367.3	-281.6	0.00	0.00	0.00
9,900.0	3.51	128.95	9,885.4	-300.7	372.1	-285.2	0.00	0.00	0.00
10,000.0	3.51	128.95	9,985.2	-304.6	376.9	-288.9	0.00	0.00	0.00
10,100.0	3.51	128.95	10,085.0	-308.4	381.6	-292.5	0.00	0.00	0.00
10,200.0	3.51	128.95	10,184.8	-312.3	386.4	-296.2	0.00	0.00	0.00
10,300.0	3.51	128.95	10,284.6	-316.1	391.1	-299.8	0.00	0.00	0.00
10,400.0	3.51	128.95	10,384.5	-320.0	395.9	-303.5	0.00	0.00	0.00
10,500.0	3.51	128.95	10,484.3	-323.8	400.7	-307.1	0.00	0.00	0.00
10,600.0	3.51	128.95	10,584.1	-327.7	405.4	-310.8	0.00	0.00	0.00

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Well #603H
KB = 25' @ 3634.0usft
KB = 25' @ 3634.0usft
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	3.51	128.95	10,683.9	-331.5	410.2	-314.4	0.00	0.00	0.00
10,800.0	3.51	128.95	10,783.7	-335.4	415.0	-318.1	0.00	0.00	0.00
10,900.0	3.51	128.95	10,883.5	-339.2	419.7	-321.7	0.00	0.00	0.00
11,000.0	3.51	128.95	10,983.3	-343.1	424.5	-325.4	0.00	0.00	0.00
11,100.0	3.51	128.95	11,083.1	-346.9	429.2	-329.0	0.00	0.00	0.00
11,200.0	3.51	128.95	11,183.0	-350.8	434.0	-332.7	0.00	0.00	0.00
11,300.0	3.51	128.95	11,282.8	-354.6	438.8	-336.3	0.00	0.00	0.00
11,400.0	3.51	128.95	11,382.6	-358.5	443.5	-340.0	0.00	0.00	0.00
11,500.0	3.51	128.95	11,482.4	-362.3	448.3	-343.6	0.00	0.00	0.00
11,600.0	3.51	128.95	11,582.2	-366.2	453.1	-347.3	0.00	0.00	0.00
11,700.0	3.51	128.95	11,682.0	-370.0	457.8	-350.9	0.00	0.00	0.00
11,758.6	3.51	128.95	11,740.5	-372.3	460.6	-353.1	0.00	0.00	0.00
11,775.0	2.73	95.11	11,756.9	-372.6	461.4	-353.4	12.00	-4.79	-206.81
11,800.0	3.85	44.31	11,781.8	-372.1	462.6	-352.8	12.00	4.51	-203.19
11,825.0	6.34	24.82	11,806.7	-370.2	463.7	-350.9	12.00	9.96	-77.98
11,850.0	9.15	16.70	11,831.5	-367.1	464.9	-347.7	12.00	11.20	-32.46
11,875.0	12.04	12.42	11,856.1	-362.6	466.0	-343.2	12.00	11.59	-17.15
11,900.0	14.98	9.78	11,880.4	-356.9	467.1	-337.4	12.00	11.75	-10.54
11,925.0	17.94	8.00	11,904.4	-349.9	468.2	-330.4	12.00	11.83	-7.14
11,950.0	20.91	6.70	11,927.9	-341.7	469.3	-322.1	12.00	11.88	-5.17
11,975.0	23.88	5.72	11,951.1	-332.2	470.3	-312.6	12.00	11.91	-3.93
12,000.0	26.86	4.94	11,973.6	-321.5	471.3	-301.9	12.00	11.93	-3.11
12,025.0	29.85	4.31	11,995.6	-309.7	472.2	-290.0	12.00	11.94	-2.53
12,050.0	32.84	3.78	12,017.0	-296.7	473.2	-277.0	12.00	11.95	-2.11
12,075.0	35.83	3.34	12,037.6	-282.6	474.0	-262.9	12.00	11.96	-1.79
12,100.0	38.82	2.95	12,057.5	-267.5	474.9	-247.8	12.00	11.96	-1.55
12,125.0	41.81	2.61	12,076.6	-251.4	475.6	-231.6	12.00	11.97	-1.36
12,150.0	44.80	2.31	12,094.8	-234.2	476.4	-214.5	12.00	11.97	-1.21
12,175.0	47.80	2.04	12,112.0	-216.2	477.1	-196.4	12.00	11.97	-1.09
12,200.0	50.79	1.79	12,128.3	-197.2	477.7	-177.5	12.00	11.98	-0.99
12,225.0	53.78	1.56	12,143.6	-177.5	478.3	-157.7	12.00	11.98	-0.91
12,250.0	56.78	1.35	12,157.9	-156.9	478.8	-137.1	12.00	11.98	-0.84
12,275.0	59.77	1.15	12,171.0	-135.7	479.3	-115.9	12.00	11.98	-0.79
12,300.0	62.77	0.97	12,183.0	-113.8	479.7	-94.0	12.00	11.98	-0.74
12,325.0	65.77	0.79	12,193.9	-91.2	480.0	-71.5	12.00	11.98	-0.70
12,350.0	68.76	0.63	12,203.5	-68.2	480.3	-48.4	12.00	11.98	-0.67
12,375.0	71.76	0.47	12,212.0	-44.7	480.5	-24.9	12.00	11.98	-0.64
12,400.0	74.75	0.31	12,219.2	-20.7	480.7	-1.0	12.00	11.99	-0.62
12,425.0	77.75	0.16	12,225.1	3.6	480.8	23.3	12.00	11.99	-0.60
12,450.0	80.75	0.01	12,229.8	28.1	480.8	47.8	12.00	11.99	-0.59
12,475.0	83.74	359.87	12,233.2	52.9	480.8	72.6	12.00	11.99	-0.58
12,500.0	86.74	359.72	12,235.2	77.8	480.7	97.5	12.00	11.99	-0.57
12,527.2	90.00	359.57	12,236.0	105.0	480.5	124.6	12.00	11.99	-0.57
12,600.0	90.00	359.57	12,236.0	177.8	480.0	197.3	0.00	0.00	0.00
12,700.0	90.00	359.57	12,236.0	277.8	479.2	297.2	0.00	0.00	0.00
12,800.0	90.00	359.57	12,236.0	377.8	478.5	397.1	0.00	0.00	0.00
12,900.0	90.00	359.57	12,236.0	477.8	477.7	497.0	0.00	0.00	0.00
13,000.0	90.00	359.57	12,236.0	577.8	477.0	596.9	0.00	0.00	0.00
13,100.0	90.00	359.57	12,236.0	677.8	476.2	696.8	0.00	0.00	0.00
13,200.0	90.00	359.57	12,236.0	777.8	475.5	796.6	0.00	0.00	0.00
13,300.0	90.00	359.57	12,236.0	877.8	474.7	896.5	0.00	0.00	0.00
13,400.0	90.00	359.57	12,236.0	977.8	474.0	996.4	0.00	0.00	0.00
13,500.0	90.00	359.57	12,236.0	1,077.8	473.2	1,096.3	0.00	0.00	0.00
13,600.0	90.00	359.57	12,236.0	1,177.8	472.5	1,196.2	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #603H
Wellbore: OH
Design: Plan #0.1

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

Well #603H
KB = 25' @ 3634.0usft
KB = 25' @ 3634.0usft
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)
13,700.0	90.00	359.57	12,236.0	1,277.7	471.7	1,296.0	0.00	0.00	0.00
13,800.0	90.00	359.57	12,236.0	1,377.7	471.0	1,395.9	0.00	0.00	0.00
13,900.0	90.00	359.57	12,236.0	1,477.7	470.2	1,495.8	0.00	0.00	0.00
14,000.0	90.00	359.57	12,236.0	1,577.7	469.5	1,595.7	0.00	0.00	0.00
14,100.0	90.00	359.57	12,236.0	1,677.7	468.7	1,695.6	0.00	0.00	0.00
14,200.0	90.00	359.57	12,236.0	1,777.7	468.0	1,795.5	0.00	0.00	0.00
14,300.0	90.00	359.57	12,236.0	1,877.7	467.2	1,895.3	0.00	0.00	0.00
14,400.0	90.00	359.57	12,236.0	1,977.7	466.5	1,995.2	0.00	0.00	0.00
14,500.0	90.00	359.57	12,236.0	2,077.7	465.7	2,095.1	0.00	0.00	0.00
14,600.0	90.00	359.57	12,236.0	2,177.7	465.0	2,195.0	0.00	0.00	0.00
14,700.0	90.00	359.57	12,236.0	2,277.7	464.2	2,294.9	0.00	0.00	0.00
14,800.0	90.00	359.57	12,236.0	2,377.7	463.5	2,394.7	0.00	0.00	0.00
14,900.0	90.00	359.57	12,236.0	2,477.7	462.7	2,494.6	0.00	0.00	0.00
15,000.0	90.00	359.57	12,236.0	2,577.7	462.0	2,594.5	0.00	0.00	0.00
15,100.0	90.00	359.57	12,236.0	2,677.7	461.2	2,694.4	0.00	0.00	0.00
15,200.0	90.00	359.57	12,236.0	2,777.7	460.5	2,794.3	0.00	0.00	0.00
15,300.0	90.00	359.57	12,236.0	2,877.7	459.7	2,894.2	0.00	0.00	0.00
15,400.0	90.00	359.57	12,236.0	2,977.7	459.0	2,994.0	0.00	0.00	0.00
15,500.0	90.00	359.57	12,236.0	3,077.7	458.2	3,093.9	0.00	0.00	0.00
15,600.0	90.00	359.57	12,236.0	3,177.7	457.5	3,193.8	0.00	0.00	0.00
15,700.0	90.00	359.57	12,236.0	3,277.7	456.7	3,293.7	0.00	0.00	0.00
15,800.0	90.00	359.57	12,236.0	3,377.7	456.0	3,393.6	0.00	0.00	0.00
15,900.0	90.00	359.57	12,236.0	3,477.7	455.2	3,493.4	0.00	0.00	0.00
16,000.0	90.00	359.57	12,236.0	3,577.7	454.5	3,593.3	0.00	0.00	0.00
16,100.0	90.00	359.57	12,236.0	3,677.7	453.7	3,693.2	0.00	0.00	0.00
16,200.0	90.00	359.57	12,236.0	3,777.7	453.0	3,793.1	0.00	0.00	0.00
16,300.0	90.00	359.57	12,236.0	3,877.7	452.2	3,893.0	0.00	0.00	0.00
16,400.0	90.00	359.57	12,236.0	3,977.7	451.5	3,992.9	0.00	0.00	0.00
16,500.0	90.00	359.57	12,236.0	4,077.7	450.7	4,092.7	0.00	0.00	0.00
16,600.0	90.00	359.57	12,236.0	4,177.7	450.0	4,192.6	0.00	0.00	0.00
16,700.0	90.00	359.57	12,236.0	4,277.7	449.2	4,292.5	0.00	0.00	0.00
16,800.0	90.00	359.57	12,236.0	4,377.7	448.5	4,392.4	0.00	0.00	0.00
16,900.0	90.00	359.57	12,236.0	4,477.7	447.7	4,492.3	0.00	0.00	0.00
17,000.0	90.00	359.57	12,236.0	4,577.7	447.0	4,592.1	0.00	0.00	0.00
17,100.0	90.00	359.57	12,236.0	4,677.7	446.2	4,692.0	0.00	0.00	0.00
17,200.0	90.00	359.57	12,236.0	4,777.7	445.5	4,791.9	0.00	0.00	0.00
17,300.0	90.00	359.57	12,236.0	4,877.6	444.7	4,891.8	0.00	0.00	0.00
17,400.0	90.00	359.57	12,236.0	4,977.6	444.0	4,991.7	0.00	0.00	0.00
17,500.0	90.00	359.57	12,236.0	5,077.6	443.2	5,091.6	0.00	0.00	0.00
17,600.0	90.00	359.57	12,236.0	5,177.6	442.5	5,191.4	0.00	0.00	0.00
17,700.0	90.00	359.57	12,236.0	5,277.6	441.7	5,291.3	0.00	0.00	0.00
17,800.0	90.00	359.57	12,236.0	5,377.6	441.0	5,391.2	0.00	0.00	0.00
17,900.0	90.00	359.57	12,236.0	5,477.6	440.2	5,491.1	0.00	0.00	0.00
18,000.0	90.00	359.57	12,236.0	5,577.6	439.5	5,591.0	0.00	0.00	0.00
18,100.0	90.00	359.57	12,236.0	5,677.6	438.7	5,690.9	0.00	0.00	0.00
18,200.0	90.00	359.57	12,236.0	5,777.6	438.0	5,790.7	0.00	0.00	0.00
18,300.0	90.00	359.57	12,236.0	5,877.6	437.2	5,890.6	0.00	0.00	0.00
18,400.0	90.00	359.57	12,236.0	5,977.6	436.5	5,990.5	0.00	0.00	0.00
18,500.0	90.00	359.57	12,236.0	6,077.6	435.7	6,090.4	0.00	0.00	0.00
18,600.0	90.00	359.57	12,236.0	6,177.6	435.0	6,190.3	0.00	0.00	0.00
18,700.0	90.00	359.57	12,236.0	6,277.6	434.2	6,290.1	0.00	0.00	0.00
18,800.0	90.00	359.57	12,236.0	6,377.6	433.5	6,390.0	0.00	0.00	0.00
18,900.0	90.00	359.57	12,236.0	6,477.6	432.7	6,489.9	0.00	0.00	0.00
19,000.0	90.00	359.57	12,236.0	6,577.6	432.0	6,589.8	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Cor
Well: #603H
Wellbore: OH
Design: Plan #0.1

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

Well #603H
KB = 25' @ 3634.0usft
KB = 25' @ 3634.0usft
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)
19,100.0	90.00	359.57	12,236.0	6,677.6	431.2	6,689.7	0.00	0.00	0.00
19,200.0	90.00	359.57	12,236.0	6,777.6	430.5	6,789.6	0.00	0.00	0.00
19,300.0	90.00	359.57	12,236.0	6,877.6	429.7	6,889.4	0.00	0.00	0.00
19,400.0	90.00	359.57	12,236.0	6,977.6	429.0	6,989.3	0.00	0.00	0.00
19,500.0	90.00	359.57	12,236.0	7,077.6	428.2	7,089.2	0.00	0.00	0.00
19,600.0	90.00	359.57	12,236.0	7,177.6	427.5	7,189.1	0.00	0.00	0.00
19,700.0	90.00	359.57	12,236.0	7,277.6	426.7	7,289.0	0.00	0.00	0.00
19,800.0	90.00	359.57	12,236.0	7,377.6	426.0	7,388.8	0.00	0.00	0.00
19,900.0	90.00	359.57	12,236.0	7,477.6	425.2	7,488.7	0.00	0.00	0.00
20,000.0	90.00	359.57	12,236.0	7,577.6	424.5	7,588.6	0.00	0.00	0.00
20,100.0	90.00	359.57	12,236.0	7,677.6	423.7	7,688.5	0.00	0.00	0.00
20,200.0	90.00	359.57	12,236.0	7,777.6	423.0	7,788.4	0.00	0.00	0.00
20,300.0	90.00	359.57	12,236.0	7,877.6	422.2	7,888.3	0.00	0.00	0.00
20,400.0	90.00	359.57	12,236.0	7,977.6	421.5	7,988.1	0.00	0.00	0.00
20,500.0	90.00	359.57	12,236.0	8,077.6	420.7	8,088.0	0.00	0.00	0.00
20,600.0	90.00	359.57	12,236.0	8,177.6	419.9	8,187.9	0.00	0.00	0.00
20,700.0	90.00	359.57	12,236.0	8,277.6	419.2	8,287.8	0.00	0.00	0.00
20,800.0	90.00	359.57	12,236.0	8,377.5	418.4	8,387.7	0.00	0.00	0.00
20,900.0	90.00	359.57	12,236.0	8,477.5	417.7	8,487.5	0.00	0.00	0.00
21,000.0	90.00	359.57	12,236.0	8,577.5	416.9	8,587.4	0.00	0.00	0.00
21,100.0	90.00	359.57	12,236.0	8,677.5	416.2	8,687.3	0.00	0.00	0.00
21,200.0	90.00	359.57	12,236.0	8,777.5	415.4	8,787.2	0.00	0.00	0.00
21,300.0	90.00	359.57	12,236.0	8,877.5	414.7	8,887.1	0.00	0.00	0.00
21,400.0	90.00	359.57	12,236.0	8,977.5	413.9	8,987.0	0.00	0.00	0.00
21,500.0	90.00	359.57	12,236.0	9,077.5	413.2	9,086.8	0.00	0.00	0.00
21,600.0	90.00	359.57	12,236.0	9,177.5	412.4	9,186.7	0.00	0.00	0.00
21,700.0	90.00	359.57	12,236.0	9,277.5	411.7	9,286.6	0.00	0.00	0.00
21,800.0	90.00	359.57	12,236.0	9,377.5	410.9	9,386.5	0.00	0.00	0.00
21,900.0	90.00	359.57	12,236.0	9,477.5	410.2	9,486.4	0.00	0.00	0.00
22,000.0	90.00	359.57	12,236.0	9,577.5	409.4	9,586.2	0.00	0.00	0.00
22,100.0	90.00	359.57	12,236.0	9,677.5	408.7	9,686.1	0.00	0.00	0.00
22,200.0	90.00	359.57	12,236.0	9,777.5	407.9	9,786.0	0.00	0.00	0.00
22,300.0	90.00	359.57	12,236.0	9,877.5	407.2	9,885.9	0.00	0.00	0.00
22,325.5	90.00	359.57	12,236.0	9,903.0	407.0	9,911.4	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
PBHL (Neptune 10 St Cor) - plan hits target center - Point	0.00	0.01	12,236.0	9,903.0	407.0	456,730.00	780,430.00	32° 15' 11.731 N	103° 33' 35.691 W
FTP (Neptune 10 St Cor) - plan misses target center by 40.2usft at 12337.8usft MD (12199.0 TVD, -79.5 N, 480.2 E) - Point	0.00	0.00	12,236.0	-95.0	482.0	446,732.00	780,505.00	32° 13' 32.794 N	103° 33' 35.656 W