

HOBBS OCD
FEB 13 2018
RECEIVED



Lea County, NM (NAD 83 NME)

Neptune 10 State Com #605H

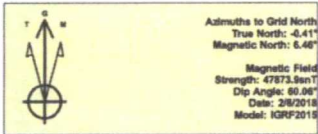
Plan #0.1

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: #605H

KB = 25' @ 3633.0uoft 3608.0
Northing 447245.00 Easting 782126.00 Latitude 32° 13' 37.759 N Longitude 103° 33' 16.743 W



To convert a Magnetic Direction to a Grid Direction, Add 6.46°
To convert a Magnetic Direction to a True Direction, Add 6.86° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

SECTION DETAILS

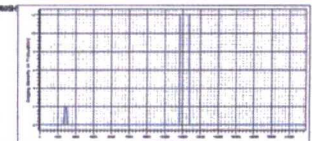
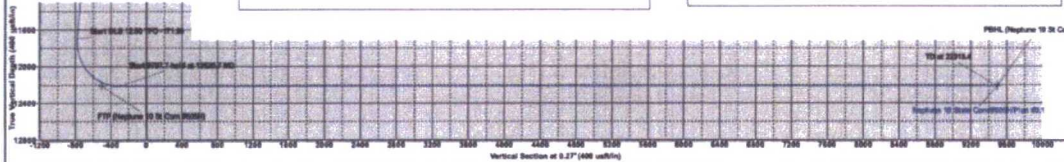
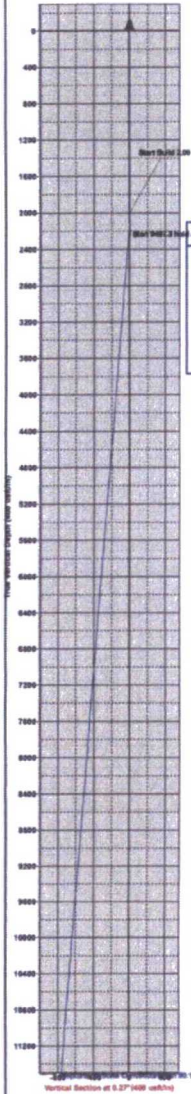
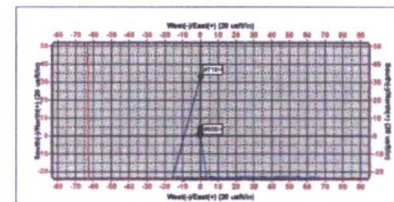
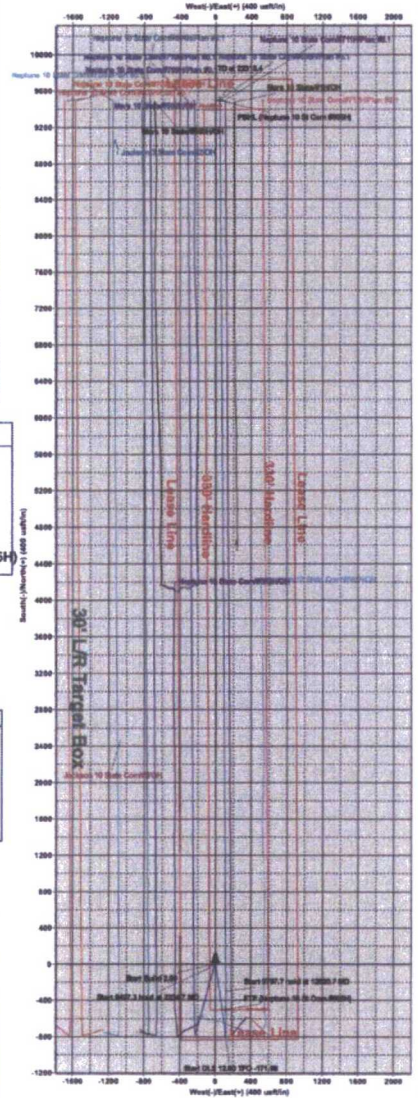
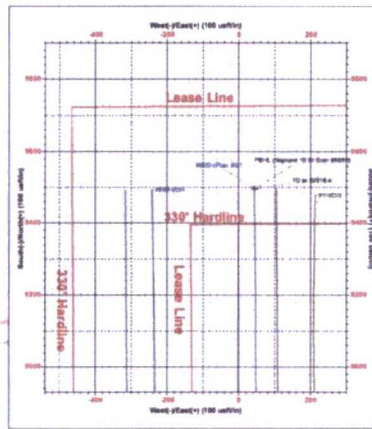
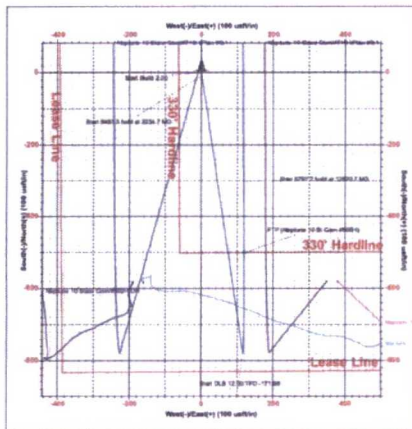
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2234.7	4.69	171.58	2234.4	-9.5	1.4	2.00	171.58	-9.5	
4	11732.0	4.69	171.58	11699.9	-778.3	115.2	0.00	0.00	-777.8	
5	12520.7	90.00	359.57	12216.0	-302.4	117.5	12.00	-171.98	-301.9	
6	22318.4	90.00	359.57	12216.0	9495.0	44.0	0.00	0.00	9495.1	PBHL (Neptune 10 St Com #605H)

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 #605H)	12216.0	-962.0	119.0	446743.00	782245.00
PBHL (Neptune 10 St Com #605H)	12216.0	9495.0	44.0	438746.00	782170.00



FTP (Neptune 10 St Com #605H)
PBHL (Neptune 10 St Com #605H)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#605H

OH

Plan: Plan #0.1

Standard Planning Report

09 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: #605H
Wellbore: OH
Design: Plan #0.1

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

Well #605H
KB = 25' @ 3633.0usft
KB = 25' @ 3633.0usft
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: #605H

Well Position: +N/-S 688.0 usft Northing: 447,245.00 usft Latitude: 32° 13' 37.755 N
+E/-W 3,162.0 usft Easting: 782,126.00 usft Longitude: 103° 33' 16.743 W
Position Uncertainty: 0.0 usft Wellhead Elevation: Ground Level: 3,608.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/8/2018	6.88	60.06	47,873.94745754

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	0.27

Plan Survey Tool Program Date: 2/9/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,318.4 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	
2,234.7	4.69	171.58	2,234.4	-9.5	1.4	2.00	2.00	0.00	171.58	
11,732.0	4.69	171.58	11,699.9	-778.3	115.2	0.00	0.00	0.00	0.00	
12,520.7	90.00	359.57	12,216.0	-302.4	117.5	12.00	10.82	-21.81	-171.98	
22,318.4	90.00	359.57	12,216.0	9,495.0	44.0	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: #605H
Wellbore: OH
Design: Plan #0.1

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

Well #605H
KB = 25' @ 3633.0usft
KB = 25' @ 3633.0usft
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	171.58	2,100.0	-1.7	0.3	-1.7	2.00	2.00	0.00
2,200.0	4.00	171.58	2,199.8	-6.9	1.0	-6.9	2.00	2.00	0.00
2,234.7	4.69	171.58	2,234.4	-9.5	1.4	-9.5	2.00	2.00	0.00
2,300.0	4.69	171.58	2,299.5	-14.8	2.2	-14.8	0.00	0.00	0.00
2,400.0	4.69	171.58	2,399.2	-22.9	3.4	-22.9	0.00	0.00	0.00
2,500.0	4.69	171.58	2,498.8	-31.0	4.6	-31.0	0.00	0.00	0.00
2,600.0	4.69	171.58	2,598.5	-39.1	5.8	-39.1	0.00	0.00	0.00
2,700.0	4.69	171.58	2,698.2	-47.2	7.0	-47.1	0.00	0.00	0.00
2,800.0	4.69	171.58	2,797.8	-55.3	8.2	-55.2	0.00	0.00	0.00
2,900.0	4.69	171.58	2,897.5	-63.4	9.4	-63.3	0.00	0.00	0.00
3,000.0	4.69	171.58	2,997.2	-71.5	10.6	-71.4	0.00	0.00	0.00
3,100.0	4.69	171.58	3,096.8	-79.6	11.8	-79.5	0.00	0.00	0.00
3,200.0	4.69	171.58	3,196.5	-87.6	13.0	-87.6	0.00	0.00	0.00
3,300.0	4.69	171.58	3,296.2	-95.7	14.2	-95.7	0.00	0.00	0.00
3,400.0	4.69	171.58	3,395.8	-103.8	15.4	-103.8	0.00	0.00	0.00
3,500.0	4.69	171.58	3,495.5	-111.9	16.6	-111.9	0.00	0.00	0.00
3,600.0	4.69	171.58	3,595.2	-120.0	17.8	-119.9	0.00	0.00	0.00
3,700.0	4.69	171.58	3,694.8	-128.1	19.0	-128.0	0.00	0.00	0.00
3,800.0	4.69	171.58	3,794.5	-136.2	20.2	-136.1	0.00	0.00	0.00
3,900.0	4.69	171.58	3,894.2	-144.3	21.4	-144.2	0.00	0.00	0.00
4,000.0	4.69	171.58	3,993.8	-152.4	22.6	-152.3	0.00	0.00	0.00
4,100.0	4.69	171.58	4,093.5	-160.5	23.8	-160.4	0.00	0.00	0.00
4,200.0	4.69	171.58	4,193.1	-168.6	25.0	-168.5	0.00	0.00	0.00
4,300.0	4.69	171.58	4,292.8	-176.7	26.2	-176.6	0.00	0.00	0.00
4,400.0	4.69	171.58	4,392.5	-184.8	27.4	-184.7	0.00	0.00	0.00
4,500.0	4.69	171.58	4,492.1	-192.9	28.6	-192.8	0.00	0.00	0.00
4,600.0	4.69	171.58	4,591.8	-201.0	29.7	-200.8	0.00	0.00	0.00
4,700.0	4.69	171.58	4,691.5	-209.1	30.9	-208.9	0.00	0.00	0.00
4,800.0	4.69	171.58	4,791.1	-217.2	32.1	-217.0	0.00	0.00	0.00
4,900.0	4.69	171.58	4,890.8	-225.3	33.3	-225.1	0.00	0.00	0.00
5,000.0	4.69	171.58	4,990.5	-233.4	34.5	-233.2	0.00	0.00	0.00
5,100.0	4.69	171.58	5,090.1	-241.5	35.7	-241.3	0.00	0.00	0.00
5,200.0	4.69	171.58	5,189.8	-249.6	36.9	-249.4	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: #605H
Wellbore: OH
Design: Plan #0.1

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

Well #605H
KB = 25' @ 3633.0usft
KB = 25' @ 3633.0usft
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	4.69	171.58	5,289.5	-257.7	38.1	-257.5	0.00	0.00	0.00
5,400.0	4.69	171.58	5,389.1	-265.7	39.3	-265.6	0.00	0.00	0.00
5,500.0	4.69	171.58	5,488.8	-273.8	40.5	-273.7	0.00	0.00	0.00
5,600.0	4.69	171.58	5,588.4	-281.9	41.7	-281.7	0.00	0.00	0.00
5,700.0	4.69	171.58	5,688.1	-290.0	42.9	-289.8	0.00	0.00	0.00
5,800.0	4.69	171.58	5,787.8	-298.1	44.1	-297.9	0.00	0.00	0.00
5,900.0	4.69	171.58	5,887.4	-306.2	45.3	-306.0	0.00	0.00	0.00
6,000.0	4.69	171.58	5,987.1	-314.3	46.5	-314.1	0.00	0.00	0.00
6,100.0	4.69	171.58	6,086.8	-322.4	47.7	-322.2	0.00	0.00	0.00
6,200.0	4.69	171.58	6,186.4	-330.5	48.9	-330.3	0.00	0.00	0.00
6,300.0	4.69	171.58	6,286.1	-338.6	50.1	-338.4	0.00	0.00	0.00
6,400.0	4.69	171.58	6,385.8	-346.7	51.3	-346.5	0.00	0.00	0.00
6,500.0	4.69	171.58	6,485.4	-354.8	52.5	-354.6	0.00	0.00	0.00
6,600.0	4.69	171.58	6,585.1	-362.9	53.7	-362.6	0.00	0.00	0.00
6,700.0	4.69	171.58	6,684.8	-371.0	54.9	-370.7	0.00	0.00	0.00
6,800.0	4.69	171.58	6,784.4	-379.1	56.1	-378.8	0.00	0.00	0.00
6,900.0	4.69	171.58	6,884.1	-387.2	57.3	-386.9	0.00	0.00	0.00
7,000.0	4.69	171.58	6,983.8	-395.3	58.5	-395.0	0.00	0.00	0.00
7,100.0	4.69	171.58	7,083.4	-403.4	59.7	-403.1	0.00	0.00	0.00
7,200.0	4.69	171.58	7,183.1	-411.5	60.9	-411.2	0.00	0.00	0.00
7,300.0	4.69	171.58	7,282.7	-419.6	62.1	-419.3	0.00	0.00	0.00
7,400.0	4.69	171.58	7,382.4	-427.7	63.3	-427.4	0.00	0.00	0.00
7,500.0	4.69	171.58	7,482.1	-435.8	64.5	-435.4	0.00	0.00	0.00
7,600.0	4.69	171.58	7,581.7	-443.8	65.7	-443.5	0.00	0.00	0.00
7,700.0	4.69	171.58	7,681.4	-451.9	66.9	-451.6	0.00	0.00	0.00
7,800.0	4.69	171.58	7,781.1	-460.0	68.1	-459.7	0.00	0.00	0.00
7,900.0	4.69	171.58	7,880.7	-468.1	69.3	-467.8	0.00	0.00	0.00
8,000.0	4.69	171.58	7,980.4	-476.2	70.5	-475.9	0.00	0.00	0.00
8,100.0	4.69	171.58	8,080.1	-484.3	71.7	-484.0	0.00	0.00	0.00
8,200.0	4.69	171.58	8,179.7	-492.4	72.9	-492.1	0.00	0.00	0.00
8,300.0	4.69	171.58	8,279.4	-500.5	74.1	-500.2	0.00	0.00	0.00
8,400.0	4.69	171.58	8,379.1	-508.6	75.3	-508.3	0.00	0.00	0.00
8,500.0	4.69	171.58	8,478.7	-516.7	76.5	-516.3	0.00	0.00	0.00
8,600.0	4.69	171.58	8,578.4	-524.8	77.7	-524.4	0.00	0.00	0.00
8,700.0	4.69	171.58	8,678.1	-532.9	78.9	-532.5	0.00	0.00	0.00
8,800.0	4.69	171.58	8,777.7	-541.0	80.1	-540.6	0.00	0.00	0.00
8,900.0	4.69	171.58	8,877.4	-549.1	81.3	-548.7	0.00	0.00	0.00
9,000.0	4.69	171.58	8,977.0	-557.2	82.5	-556.8	0.00	0.00	0.00
9,100.0	4.69	171.58	9,076.7	-565.3	83.7	-564.9	0.00	0.00	0.00
9,200.0	4.69	171.58	9,176.4	-573.4	84.9	-573.0	0.00	0.00	0.00
9,300.0	4.69	171.58	9,276.0	-581.5	86.1	-581.1	0.00	0.00	0.00
9,400.0	4.69	171.58	9,375.7	-589.6	87.3	-589.2	0.00	0.00	0.00
9,500.0	4.69	171.58	9,475.4	-597.7	88.5	-597.2	0.00	0.00	0.00
9,600.0	4.69	171.58	9,575.0	-605.8	89.7	-605.3	0.00	0.00	0.00
9,700.0	4.69	171.58	9,674.7	-613.9	90.9	-613.4	0.00	0.00	0.00
9,800.0	4.69	171.58	9,774.4	-621.9	92.1	-621.5	0.00	0.00	0.00
9,900.0	4.69	171.58	9,874.0	-630.0	93.3	-629.6	0.00	0.00	0.00
10,000.0	4.69	171.58	9,973.7	-638.1	94.5	-637.7	0.00	0.00	0.00
10,100.0	4.69	171.58	10,073.4	-646.2	95.7	-645.8	0.00	0.00	0.00
10,200.0	4.69	171.58	10,173.0	-654.3	96.9	-653.9	0.00	0.00	0.00
10,300.0	4.69	171.58	10,272.7	-662.4	98.1	-662.0	0.00	0.00	0.00
10,400.0	4.69	171.58	10,372.3	-670.5	99.3	-670.1	0.00	0.00	0.00
10,500.0	4.69	171.58	10,472.0	-678.6	100.4	-678.1	0.00	0.00	0.00
10,600.0	4.69	171.58	10,571.7	-686.7	101.6	-686.2	0.00	0.00	0.00

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Local Co-ordinate Reference: Well #605H
TVD Reference: KB = 25' @ 3633.0usft
MD Reference: KB = 25' @ 3633.0usft
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)
10,700.0	4.69	171.58	10,671.3	-694.8	102.8	-694.3	0.00	0.00	0.00
10,800.0	4.69	171.58	10,771.0	-702.9	104.0	-702.4	0.00	0.00	0.00
10,900.0	4.69	171.58	10,870.7	-711.0	105.2	-710.5	0.00	0.00	0.00
11,000.0	4.69	171.58	10,970.3	-719.1	106.4	-718.6	0.00	0.00	0.00
11,100.0	4.69	171.58	11,070.0	-727.2	107.6	-726.7	0.00	0.00	0.00
11,200.0	4.69	171.58	11,169.7	-735.3	108.8	-734.8	0.00	0.00	0.00
11,300.0	4.69	171.58	11,269.3	-743.4	110.0	-742.9	0.00	0.00	0.00
11,400.0	4.69	171.58	11,369.0	-751.5	111.2	-750.9	0.00	0.00	0.00
11,500.0	4.69	171.58	11,468.7	-759.6	112.4	-759.0	0.00	0.00	0.00
11,600.0	4.69	171.58	11,568.3	-767.7	113.6	-767.1	0.00	0.00	0.00
11,700.0	4.69	171.58	11,668.0	-775.8	114.8	-775.2	0.00	0.00	0.00
11,732.0	4.69	171.58	11,699.9	-778.3	115.2	-777.8	0.00	0.00	0.00
11,750.0	2.57	164.85	11,717.8	-779.5	115.4	-778.9	12.00	-11.78	-37.37
11,775.0	0.83	51.48	11,742.8	-779.9	115.7	-779.4	12.00	-6.96	-453.47
11,800.0	3.57	10.10	11,767.8	-779.0	116.0	-778.5	12.00	10.97	-165.52
11,825.0	6.55	5.28	11,792.7	-776.8	116.3	-776.3	12.00	11.89	-19.29
11,850.0	9.53	3.47	11,817.5	-773.3	116.5	-772.8	12.00	11.96	-7.25
11,875.0	12.53	2.51	11,842.0	-768.6	116.8	-768.0	12.00	11.98	-3.81
11,900.0	15.53	1.92	11,866.3	-762.5	117.0	-762.0	12.00	11.99	-2.36
11,925.0	18.52	1.52	11,890.2	-755.2	117.2	-754.6	12.00	11.99	-1.61
11,950.0	21.52	1.23	11,913.6	-746.6	117.4	-746.1	12.00	11.99	-1.17
11,975.0	24.52	1.00	11,936.6	-736.9	117.6	-736.3	12.00	11.99	-0.90
12,000.0	27.52	0.83	11,959.1	-725.9	117.8	-725.3	12.00	12.00	-0.71
12,025.0	30.52	0.68	11,981.0	-713.8	117.9	-713.2	12.00	12.00	-0.58
12,050.0	33.52	0.56	12,002.2	-700.5	118.1	-700.0	12.00	12.00	-0.49
12,075.0	36.52	0.45	12,022.6	-686.2	118.2	-685.6	12.00	12.00	-0.42
12,100.0	39.52	0.36	12,042.3	-670.8	118.3	-670.2	12.00	12.00	-0.36
12,125.0	42.52	0.28	12,061.2	-654.4	118.4	-653.8	12.00	12.00	-0.32
12,150.0	45.52	0.21	12,079.2	-637.0	118.5	-636.5	12.00	12.00	-0.28
12,175.0	48.52	0.15	12,096.2	-618.7	118.5	-618.2	12.00	12.00	-0.26
12,200.0	51.52	0.09	12,112.3	-599.6	118.6	-599.0	12.00	12.00	-0.23
12,225.0	54.52	0.04	12,127.3	-579.6	118.6	-579.0	12.00	12.00	-0.21
12,250.0	57.51	359.99	12,141.3	-558.9	118.6	-558.3	12.00	12.00	-0.20
12,275.0	60.51	359.94	12,154.2	-537.4	118.6	-536.9	12.00	12.00	-0.19
12,300.0	63.51	359.90	12,165.9	-515.4	118.6	-514.8	12.00	12.00	-0.18
12,325.0	66.51	359.85	12,176.4	-492.7	118.5	-492.2	12.00	12.00	-0.17
12,350.0	69.51	359.81	12,185.8	-469.5	118.4	-469.0	12.00	12.00	-0.16
12,375.0	72.51	359.78	12,193.9	-445.9	118.4	-445.3	12.00	12.00	-0.15
12,400.0	75.51	359.74	12,200.8	-421.9	118.3	-421.3	12.00	12.00	-0.15
12,425.0	78.51	359.70	12,206.4	-397.5	118.1	-397.0	12.00	12.00	-0.14
12,450.0	81.51	359.67	12,210.8	-372.9	118.0	-372.3	12.00	12.00	-0.14
12,475.0	84.51	359.63	12,213.8	-348.1	117.8	-347.5	12.00	12.00	-0.14
12,500.0	87.51	359.60	12,215.5	-323.1	117.7	-322.6	12.00	12.00	-0.14
12,520.7	90.00	359.57	12,216.0	-302.4	117.5	-301.9	12.00	12.00	-0.14
12,600.0	90.00	359.57	12,216.0	-223.2	116.9	-222.6	0.00	0.00	0.00
12,700.0	90.00	359.57	12,216.0	-123.2	116.2	-122.6	0.00	0.00	0.00
12,800.0	90.00	359.57	12,216.0	-23.2	115.4	-22.6	0.00	0.00	0.00
12,900.0	90.00	359.57	12,216.0	76.8	114.7	77.4	0.00	0.00	0.00
13,000.0	90.00	359.57	12,216.0	176.8	113.9	177.4	0.00	0.00	0.00
13,100.0	90.00	359.57	12,216.0	276.8	113.2	277.4	0.00	0.00	0.00
13,200.0	90.00	359.57	12,216.0	376.8	112.4	377.3	0.00	0.00	0.00
13,300.0	90.00	359.57	12,216.0	476.8	111.7	477.3	0.00	0.00	0.00
13,400.0	90.00	359.57	12,216.0	576.8	110.9	577.3	0.00	0.00	0.00
13,500.0	90.00	359.57	12,216.0	676.8	110.2	677.3	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: #605H
Wellbore: OH
Design: Plan #0.1

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

Well #605H
KB = 25' @ 3633.0usft
KB = 25' @ 3633.0usft
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)
13,600.0	90.00	359.57	12,216.0	776.8	109.4	777.3	0.00	0.00	0.00
13,700.0	90.00	359.57	12,216.0	876.8	108.7	877.3	0.00	0.00	0.00
13,800.0	90.00	359.57	12,216.0	976.8	107.9	977.3	0.00	0.00	0.00
13,900.0	90.00	359.57	12,216.0	1,076.8	107.2	1,077.3	0.00	0.00	0.00
14,000.0	90.00	359.57	12,216.0	1,176.8	106.4	1,177.3	0.00	0.00	0.00
14,100.0	90.00	359.57	12,216.0	1,276.8	105.7	1,277.3	0.00	0.00	0.00
14,200.0	90.00	359.57	12,216.0	1,376.8	104.9	1,377.3	0.00	0.00	0.00
14,300.0	90.00	359.57	12,216.0	1,476.8	104.2	1,477.3	0.00	0.00	0.00
14,400.0	90.00	359.57	12,216.0	1,576.8	103.4	1,577.3	0.00	0.00	0.00
14,500.0	90.00	359.57	12,216.0	1,676.8	102.7	1,677.2	0.00	0.00	0.00
14,600.0	90.00	359.57	12,216.0	1,776.8	101.9	1,777.2	0.00	0.00	0.00
14,700.0	90.00	359.57	12,216.0	1,876.8	101.2	1,877.2	0.00	0.00	0.00
14,800.0	90.00	359.57	12,216.0	1,976.8	100.4	1,977.2	0.00	0.00	0.00
14,900.0	90.00	359.57	12,216.0	2,076.8	99.7	2,077.2	0.00	0.00	0.00
15,000.0	90.00	359.57	12,216.0	2,176.8	98.9	2,177.2	0.00	0.00	0.00
15,100.0	90.00	359.57	12,216.0	2,276.8	98.2	2,277.2	0.00	0.00	0.00
15,200.0	90.00	359.57	12,216.0	2,376.8	97.4	2,377.2	0.00	0.00	0.00
15,300.0	90.00	359.57	12,216.0	2,476.8	96.7	2,477.2	0.00	0.00	0.00
15,400.0	90.00	359.57	12,216.0	2,576.8	95.9	2,577.2	0.00	0.00	0.00
15,500.0	90.00	359.57	12,216.0	2,676.8	95.2	2,677.2	0.00	0.00	0.00
15,600.0	90.00	359.57	12,216.0	2,776.8	94.4	2,777.2	0.00	0.00	0.00
15,700.0	90.00	359.57	12,216.0	2,876.8	93.7	2,877.2	0.00	0.00	0.00
15,800.0	90.00	359.57	12,216.0	2,976.8	92.9	2,977.2	0.00	0.00	0.00
15,900.0	90.00	359.57	12,216.0	3,076.8	92.2	3,077.1	0.00	0.00	0.00
16,000.0	90.00	359.57	12,216.0	3,176.7	91.4	3,177.1	0.00	0.00	0.00
16,100.0	90.00	359.57	12,216.0	3,276.7	90.7	3,277.1	0.00	0.00	0.00
16,200.0	90.00	359.57	12,216.0	3,376.7	89.9	3,377.1	0.00	0.00	0.00
16,300.0	90.00	359.57	12,216.0	3,476.7	89.2	3,477.1	0.00	0.00	0.00
16,400.0	90.00	359.57	12,216.0	3,576.7	88.4	3,577.1	0.00	0.00	0.00
16,500.0	90.00	359.57	12,216.0	3,676.7	87.7	3,677.1	0.00	0.00	0.00
16,600.0	90.00	359.57	12,216.0	3,776.7	86.9	3,777.1	0.00	0.00	0.00
16,700.0	90.00	359.57	12,216.0	3,876.7	86.2	3,877.1	0.00	0.00	0.00
16,800.0	90.00	359.57	12,216.0	3,976.7	85.4	3,977.1	0.00	0.00	0.00
16,900.0	90.00	359.57	12,216.0	4,076.7	84.7	4,077.1	0.00	0.00	0.00
17,000.0	90.00	359.57	12,216.0	4,176.7	83.9	4,177.1	0.00	0.00	0.00
17,100.0	90.00	359.57	12,216.0	4,276.7	83.2	4,277.1	0.00	0.00	0.00
17,200.0	90.00	359.57	12,216.0	4,376.7	82.4	4,377.0	0.00	0.00	0.00
17,300.0	90.00	359.57	12,216.0	4,476.7	81.7	4,477.0	0.00	0.00	0.00
17,400.0	90.00	359.57	12,216.0	4,576.7	80.9	4,577.0	0.00	0.00	0.00
17,500.0	90.00	359.57	12,216.0	4,676.7	80.2	4,677.0	0.00	0.00	0.00
17,600.0	90.00	359.57	12,216.0	4,776.7	79.4	4,777.0	0.00	0.00	0.00
17,700.0	90.00	359.57	12,216.0	4,876.7	78.7	4,877.0	0.00	0.00	0.00
17,800.0	90.00	359.57	12,216.0	4,976.7	77.9	4,977.0	0.00	0.00	0.00
17,900.0	90.00	359.57	12,216.0	5,076.7	77.2	5,077.0	0.00	0.00	0.00
18,000.0	90.00	359.57	12,216.0	5,176.7	76.4	5,177.0	0.00	0.00	0.00
18,100.0	90.00	359.57	12,216.0	5,276.7	75.7	5,277.0	0.00	0.00	0.00
18,200.0	90.00	359.57	12,216.0	5,376.7	74.9	5,377.0	0.00	0.00	0.00
18,300.0	90.00	359.57	12,216.0	5,476.7	74.2	5,477.0	0.00	0.00	0.00
18,400.0	90.00	359.57	12,216.0	5,576.7	73.4	5,577.0	0.00	0.00	0.00
18,500.0	90.00	359.57	12,216.0	5,676.7	72.7	5,677.0	0.00	0.00	0.00
18,600.0	90.00	359.57	12,216.0	5,776.7	71.9	5,776.9	0.00	0.00	0.00
18,700.0	90.00	359.57	12,216.0	5,876.7	71.2	5,876.9	0.00	0.00	0.00
18,800.0	90.00	359.57	12,216.0	5,976.7	70.4	5,976.9	0.00	0.00	0.00
18,900.0	90.00	359.57	12,216.0	6,076.7	69.7	6,076.9	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: #605H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
TVD Reference: KB = 25' @ 3633.0usft
MD Reference: KB = 25' @ 3633.0usft
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	12,216.0	6,176.7	68.9	6,176.9	0.00	0.00	0.00
19,100.0	90.00	359.57	12,216.0	6,276.7	68.2	6,276.9	0.00	0.00	0.00
19,200.0	90.00	359.57	12,216.0	6,376.7	67.4	6,376.9	0.00	0.00	0.00
19,300.0	90.00	359.57	12,216.0	6,476.7	66.7	6,476.9	0.00	0.00	0.00
19,400.0	90.00	359.57	12,216.0	6,576.7	65.9	6,576.9	0.00	0.00	0.00
19,500.0	90.00	359.57	12,216.0	6,676.6	65.2	6,676.9	0.00	0.00	0.00
19,600.0	90.00	359.57	12,216.0	6,776.6	64.4	6,776.9	0.00	0.00	0.00
19,700.0	90.00	359.57	12,216.0	6,876.6	63.7	6,876.9	0.00	0.00	0.00
19,800.0	90.00	359.57	12,216.0	6,976.6	62.9	6,976.9	0.00	0.00	0.00
19,900.0	90.00	359.57	12,216.0	7,076.6	62.1	7,076.9	0.00	0.00	0.00
20,000.0	90.00	359.57	12,216.0	7,176.6	61.4	7,176.8	0.00	0.00	0.00
20,100.0	90.00	359.57	12,216.0	7,276.6	60.6	7,276.8	0.00	0.00	0.00
20,200.0	90.00	359.57	12,216.0	7,376.6	59.9	7,376.8	0.00	0.00	0.00
20,300.0	90.00	359.57	12,216.0	7,476.6	59.1	7,476.8	0.00	0.00	0.00
20,400.0	90.00	359.57	12,216.0	7,576.6	58.4	7,576.8	0.00	0.00	0.00
20,500.0	90.00	359.57	12,216.0	7,676.6	57.6	7,676.8	0.00	0.00	0.00
20,600.0	90.00	359.57	12,216.0	7,776.6	56.9	7,776.8	0.00	0.00	0.00
20,700.0	90.00	359.57	12,216.0	7,876.6	56.1	7,876.8	0.00	0.00	0.00
20,800.0	90.00	359.57	12,216.0	7,976.6	55.4	7,976.8	0.00	0.00	0.00
20,900.0	90.00	359.57	12,216.0	8,076.6	54.6	8,076.8	0.00	0.00	0.00
21,000.0	90.00	359.57	12,216.0	8,176.6	53.9	8,176.8	0.00	0.00	0.00
21,100.0	90.00	359.57	12,216.0	8,276.6	53.1	8,276.8	0.00	0.00	0.00
21,200.0	90.00	359.57	12,216.0	8,376.6	52.4	8,376.8	0.00	0.00	0.00
21,300.0	90.00	359.57	12,216.0	8,476.6	51.6	8,476.7	0.00	0.00	0.00
21,400.0	90.00	359.57	12,216.0	8,576.6	50.9	8,576.7	0.00	0.00	0.00
21,500.0	90.00	359.57	12,216.0	8,676.6	50.1	8,676.7	0.00	0.00	0.00
21,600.0	90.00	359.57	12,216.0	8,776.6	49.4	8,776.7	0.00	0.00	0.00
21,700.0	90.00	359.57	12,216.0	8,876.6	48.6	8,876.7	0.00	0.00	0.00
21,800.0	90.00	359.57	12,216.0	8,976.6	47.9	8,976.7	0.00	0.00	0.00
21,900.0	90.00	359.57	12,216.0	9,076.6	47.1	9,076.7	0.00	0.00	0.00
22,000.0	90.00	359.57	12,216.0	9,176.6	46.4	9,176.7	0.00	0.00	0.00
22,100.0	90.00	359.57	12,216.0	9,276.6	45.6	9,276.7	0.00	0.00	0.00
22,200.0	90.00	359.57	12,216.0	9,376.6	44.9	9,376.7	0.00	0.00	0.00
22,300.0	90.00	359.57	12,216.0	9,476.6	44.1	9,476.7	0.00	0.00	0.00
22,318.4	90.00	359.57	12,216.0	9,495.0	44.0	9,495.1	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	0.00	12,216.0	9,495.0	44.0	456,740.00	782,170.00	32° 15' 11.706 N	103° 33' 15.429 W
FTP (Neptune 10 St Cor - plan misses target center by 40.0usft at 12331.2usft MD (12178.9 TVD, -487.0 N, 118.5 E) - Point	0.00	0.00	12,216.0	-502.0	119.0	446,743.00	782,245.00	32° 13' 32.779 N	103° 33' 15.400 W