



Lea County, NM (NAD 83 NME)

Neptune 10 State Com #604H

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: #604H

KB = 25 @ 3633.0usft 3698.0
Northing 446732.00 Easting 782033.00 Latitude 32° 13' 32.685 N Longitude 103° 33' 17.869 W

SECTION DETAILS

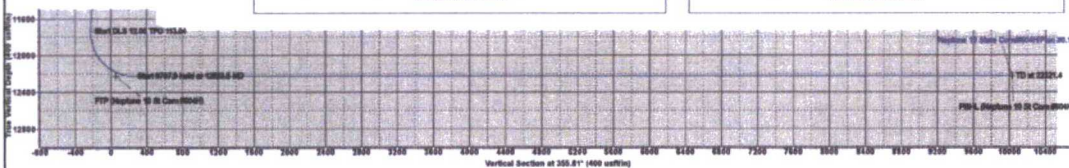
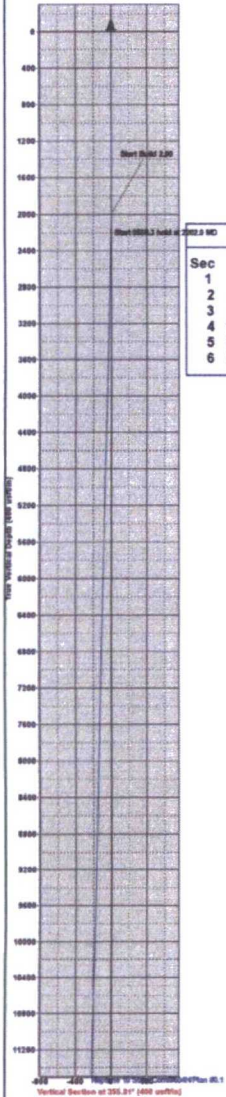
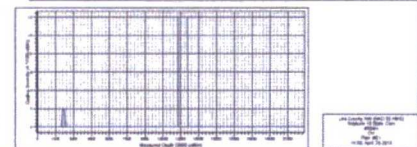
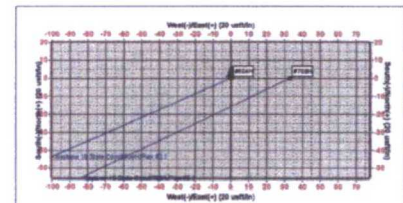
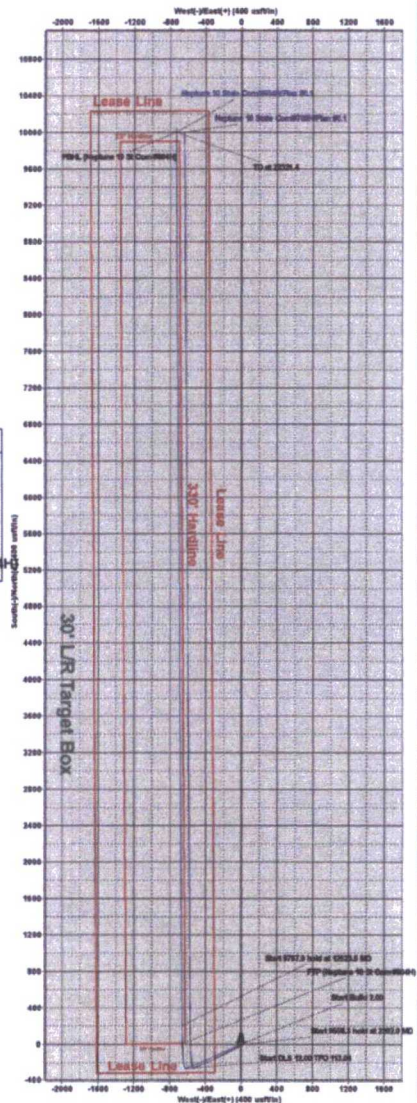
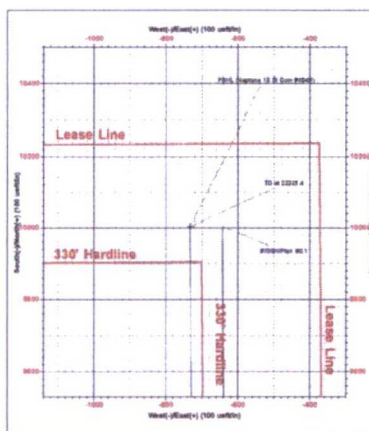
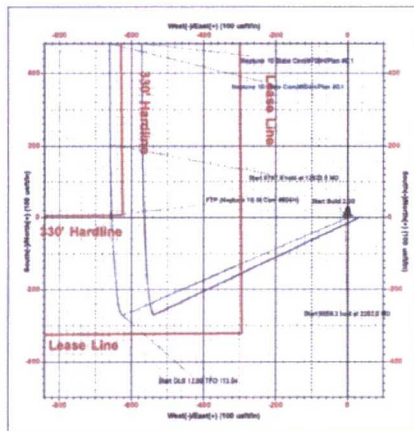
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2202.0	4.04	246.48	2201.9	-2.8	-6.5	2.00	246.48	-2.4	
4	11760.3	4.04	246.48	11736.4	-271.7	-624.1	0.00	0.00	-225.3	
5	12523.5	90.00	359.57	12226.0	205.4	-859.5	12.00	113.04	253.0	
6	22321.4	90.00	359.57	12226.0	10003.0	-733.0	0.00	0.00	10029.8	PBHL (Neptune 10 St Com #604H)

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 #604H)	12226.0	6.0	-858.0	446738.00	781375.00
PBHL (Neptune 10 St Com #604H)	12226.0	10003.0	-733.0	446738.00	781300.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#604H

OH

Plan: Plan #0.1

Standard Planning Report

25 April, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #604H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #604H
TVD Reference: KB = 25 @ 3633.0usft
MD Reference: KB = 25 @ 3633.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 83 NME)
Map System: US State Plane 1983 **System Datum:** Mean Sea Level
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

Site Neptune 10 State Com
Site Position: Northing: 446,557.00 usft Latitude: 32° 13' 31.172 N
From: Map Easting: 778,964.00 usft Longitude: 103° 33' 53.609 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.41 °

Well #604H
Well Position +N/-S 175.0 usft Northing: 446,732.00 usft Latitude: 32° 13' 32.685 N
+E/-W 3,069.0 usft Easting: 782,033.00 usft Longitude: 103° 33' 17.869 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 47,873.07145482

Design Plan #0.1
Audit Notes:
Version: Phase: PLAN Tie On Depth: 0.0
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 (usft) (usft) (usft) (°)
 0.0 0.0 0.0 355.81

Plan Survey Tool Program Date 4/25/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,320.4 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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,202.0	4.04	246.48	2,201.9	-2.8	-6.5	2.00	2.00	0.00	246.48	
11,760.3	4.04	246.48	11,736.4	-271.7	-624.1	0.00	0.00	0.00	0.00	
12,523.5	90.00	359.57	12,226.0	205.4	-659.5	12.00	11.26	14.82	113.04	
22,321.4	90.00	359.57	12,226.0	10,003.0	-733.0	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: #604H
 Wellbore: OH
 Design: Plan #0.1

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

Well #604H
 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	246.48	2,100.0	-0.7	-1.6	-0.6	2.00	2.00	0.00
2,202.0	4.04	246.48	2,201.9	-2.8	-6.5	-2.4	2.00	2.00	0.00
2,300.0	4.04	246.48	2,299.6	-5.6	-12.9	-4.6	0.00	0.00	0.00
2,400.0	4.04	246.48	2,399.3	-8.4	-19.3	-7.0	0.00	0.00	0.00
2,500.0	4.04	246.48	2,499.1	-11.2	-25.8	-9.3	0.00	0.00	0.00
2,600.0	4.04	246.48	2,598.8	-14.0	-32.2	-11.6	0.00	0.00	0.00
2,700.0	4.04	246.48	2,698.6	-16.8	-38.7	-14.0	0.00	0.00	0.00
2,800.0	4.04	246.48	2,798.3	-19.7	-45.2	-16.3	0.00	0.00	0.00
2,900.0	4.04	246.48	2,898.1	-22.5	-51.6	-18.6	0.00	0.00	0.00
3,000.0	4.04	246.48	2,997.8	-25.3	-58.1	-21.0	0.00	0.00	0.00
3,100.0	4.04	246.48	3,097.6	-28.1	-64.5	-23.3	0.00	0.00	0.00
3,200.0	4.04	246.48	3,197.4	-30.9	-71.0	-25.6	0.00	0.00	0.00
3,300.0	4.04	246.48	3,297.1	-33.7	-77.5	-28.0	0.00	0.00	0.00
3,400.0	4.04	246.48	3,396.9	-36.5	-83.9	-30.3	0.00	0.00	0.00
3,500.0	4.04	246.48	3,496.6	-39.3	-90.4	-32.6	0.00	0.00	0.00
3,600.0	4.04	246.48	3,596.4	-42.2	-96.8	-35.0	0.00	0.00	0.00
3,700.0	4.04	246.48	3,696.1	-45.0	-103.3	-37.3	0.00	0.00	0.00
3,800.0	4.04	246.48	3,795.9	-47.8	-109.8	-39.6	0.00	0.00	0.00
3,900.0	4.04	246.48	3,895.6	-50.6	-116.2	-42.0	0.00	0.00	0.00
4,000.0	4.04	246.48	3,995.4	-53.4	-122.7	-44.3	0.00	0.00	0.00
4,100.0	4.04	246.48	4,095.1	-56.2	-129.2	-46.6	0.00	0.00	0.00
4,200.0	4.04	246.48	4,194.9	-59.0	-135.6	-49.0	0.00	0.00	0.00
4,300.0	4.04	246.48	4,294.6	-61.8	-142.1	-51.3	0.00	0.00	0.00
4,400.0	4.04	246.48	4,394.4	-64.7	-148.5	-53.6	0.00	0.00	0.00
4,500.0	4.04	246.48	4,494.1	-67.5	-155.0	-56.0	0.00	0.00	0.00
4,600.0	4.04	246.48	4,593.9	-70.3	-161.5	-58.3	0.00	0.00	0.00
4,700.0	4.04	246.48	4,693.6	-73.1	-167.9	-60.6	0.00	0.00	0.00
4,800.0	4.04	246.48	4,793.4	-75.9	-174.4	-63.0	0.00	0.00	0.00
4,900.0	4.04	246.48	4,893.1	-78.7	-180.8	-65.3	0.00	0.00	0.00
5,000.0	4.04	246.48	4,992.9	-81.5	-187.3	-67.6	0.00	0.00	0.00
5,100.0	4.04	246.48	5,092.6	-84.3	-193.8	-70.0	0.00	0.00	0.00
5,200.0	4.04	246.48	5,192.4	-87.2	-200.2	-72.3	0.00	0.00	0.00
5,300.0	4.04	246.48	5,292.1	-90.0	-206.7	-74.6	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 Corn
Well: #604H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #604H
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)
5,400.0	4.04	246.48	5,391.9	-92.8	-213.1	-77.0	0.00	0.00	0.00
5,500.0	4.04	246.48	5,491.6	-95.6	-219.6	-79.3	0.00	0.00	0.00
5,600.0	4.04	246.48	5,591.4	-98.4	-226.1	-81.6	0.00	0.00	0.00
5,700.0	4.04	246.48	5,691.1	-101.2	-232.5	-84.0	0.00	0.00	0.00
5,800.0	4.04	246.48	5,790.9	-104.0	-239.0	-86.3	0.00	0.00	0.00
5,900.0	4.04	246.48	5,890.6	-106.8	-245.4	-88.6	0.00	0.00	0.00
6,000.0	4.04	246.48	5,990.4	-109.7	-251.9	-91.0	0.00	0.00	0.00
6,100.0	4.04	246.48	6,090.1	-112.5	-258.4	-93.3	0.00	0.00	0.00
6,200.0	4.04	246.48	6,189.9	-115.3	-264.8	-95.6	0.00	0.00	0.00
6,300.0	4.04	246.48	6,289.6	-118.1	-271.3	-97.9	0.00	0.00	0.00
6,400.0	4.04	246.48	6,389.4	-120.9	-277.8	-100.3	0.00	0.00	0.00
6,500.0	4.04	246.48	6,489.1	-123.7	-284.2	-102.6	0.00	0.00	0.00
6,600.0	4.04	246.48	6,588.9	-126.5	-290.7	-104.9	0.00	0.00	0.00
6,700.0	4.04	246.48	6,688.7	-129.3	-297.1	-107.3	0.00	0.00	0.00
6,800.0	4.04	246.48	6,788.4	-132.2	-303.6	-109.6	0.00	0.00	0.00
6,900.0	4.04	246.48	6,888.2	-135.0	-310.1	-111.9	0.00	0.00	0.00
7,000.0	4.04	246.48	6,987.9	-137.8	-316.5	-114.3	0.00	0.00	0.00
7,100.0	4.04	246.48	7,087.7	-140.6	-323.0	-116.6	0.00	0.00	0.00
7,200.0	4.04	246.48	7,187.4	-143.4	-329.4	-118.9	0.00	0.00	0.00
7,300.0	4.04	246.48	7,287.2	-146.2	-335.9	-121.3	0.00	0.00	0.00
7,400.0	4.04	246.48	7,386.9	-149.0	-342.4	-123.6	0.00	0.00	0.00
7,500.0	4.04	246.48	7,486.7	-151.8	-348.8	-125.9	0.00	0.00	0.00
7,600.0	4.04	246.48	7,586.4	-154.7	-355.3	-128.3	0.00	0.00	0.00
7,700.0	4.04	246.48	7,686.2	-157.5	-361.7	-130.6	0.00	0.00	0.00
7,800.0	4.04	246.48	7,785.9	-160.3	-368.2	-132.9	0.00	0.00	0.00
7,900.0	4.04	246.48	7,885.7	-163.1	-374.7	-135.3	0.00	0.00	0.00
8,000.0	4.04	246.48	7,985.4	-165.9	-381.1	-137.6	0.00	0.00	0.00
8,100.0	4.04	246.48	8,085.2	-168.7	-387.6	-139.9	0.00	0.00	0.00
8,200.0	4.04	246.48	8,184.9	-171.5	-394.0	-142.3	0.00	0.00	0.00
8,300.0	4.04	246.48	8,284.7	-174.3	-400.5	-144.6	0.00	0.00	0.00
8,400.0	4.04	246.48	8,384.4	-177.2	-407.0	-146.9	0.00	0.00	0.00
8,500.0	4.04	246.48	8,484.2	-180.0	-413.4	-149.3	0.00	0.00	0.00
8,600.0	4.04	246.48	8,583.9	-182.8	-419.9	-151.6	0.00	0.00	0.00
8,700.0	4.04	246.48	8,683.7	-185.6	-426.4	-153.9	0.00	0.00	0.00
8,800.0	4.04	246.48	8,783.4	-188.4	-432.8	-156.3	0.00	0.00	0.00
8,900.0	4.04	246.48	8,883.2	-191.2	-439.3	-158.6	0.00	0.00	0.00
9,000.0	4.04	246.48	8,982.9	-194.0	-445.7	-160.9	0.00	0.00	0.00
9,100.0	4.04	246.48	9,082.7	-196.8	-452.2	-163.3	0.00	0.00	0.00
9,200.0	4.04	246.48	9,182.4	-199.6	-458.7	-165.6	0.00	0.00	0.00
9,300.0	4.04	246.48	9,282.2	-202.5	-465.1	-167.9	0.00	0.00	0.00
9,400.0	4.04	246.48	9,381.9	-205.3	-471.6	-170.3	0.00	0.00	0.00
9,500.0	4.04	246.48	9,481.7	-208.1	-478.0	-172.6	0.00	0.00	0.00
9,600.0	4.04	246.48	9,581.4	-210.9	-484.5	-174.9	0.00	0.00	0.00
9,700.0	4.04	246.48	9,681.2	-213.7	-491.0	-177.3	0.00	0.00	0.00
9,800.0	4.04	246.48	9,780.9	-216.5	-497.4	-179.6	0.00	0.00	0.00
9,900.0	4.04	246.48	9,880.7	-219.3	-503.9	-181.9	0.00	0.00	0.00
10,000.0	4.04	246.48	9,980.4	-222.1	-510.3	-184.3	0.00	0.00	0.00
10,100.0	4.04	246.48	10,080.2	-225.0	-516.8	-186.6	0.00	0.00	0.00
10,200.0	4.04	246.48	10,180.0	-227.8	-523.3	-188.9	0.00	0.00	0.00
10,300.0	4.04	246.48	10,279.7	-230.6	-529.7	-191.3	0.00	0.00	0.00
10,400.0	4.04	246.48	10,379.5	-233.4	-536.2	-193.6	0.00	0.00	0.00
10,500.0	4.04	246.48	10,479.2	-236.2	-542.6	-195.9	0.00	0.00	0.00
10,600.0	4.04	246.48	10,579.0	-239.0	-549.1	-198.3	0.00	0.00	0.00
10,700.0	4.04	246.48	10,678.7	-241.8	-555.6	-200.6	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: #604H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #604H
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)
10,800.0	4.04	246.48	10,778.5	-244.6	-562.0	-202.9	0.00	0.00	0.00
10,900.0	4.04	246.48	10,878.2	-247.5	-568.5	-205.3	0.00	0.00	0.00
11,000.0	4.04	246.48	10,978.0	-250.3	-575.0	-207.6	0.00	0.00	0.00
11,100.0	4.04	246.48	11,077.7	-253.1	-581.4	-209.9	0.00	0.00	0.00
11,200.0	4.04	246.48	11,177.5	-255.9	-587.9	-212.2	0.00	0.00	0.00
11,300.0	4.04	246.48	11,277.2	-258.7	-594.3	-214.6	0.00	0.00	0.00
11,400.0	4.04	246.48	11,377.0	-261.5	-600.8	-216.9	0.00	0.00	0.00
11,500.0	4.04	246.48	11,476.7	-264.3	-607.3	-219.2	0.00	0.00	0.00
11,600.0	4.04	246.48	11,576.5	-267.1	-613.7	-221.6	0.00	0.00	0.00
11,700.0	4.04	246.48	11,676.2	-270.0	-620.2	-223.9	0.00	0.00	0.00
11,760.3	4.04	246.48	11,736.4	-271.7	-624.1	-225.3	0.00	0.00	0.00
11,775.0	3.72	272.35	11,751.0	-271.8	-625.0	-225.4	12.00	-2.17	175.99
11,800.0	4.89	310.17	11,776.0	-271.1	-626.6	-224.6	12.00	4.68	151.25
11,825.0	7.21	328.66	11,800.8	-269.1	-628.3	-222.5	12.00	9.27	73.97
11,850.0	9.90	337.71	11,825.6	-265.8	-629.9	-219.0	12.00	10.76	36.20
11,875.0	12.73	342.85	11,850.1	-261.1	-631.5	-214.3	12.00	11.31	20.56
11,900.0	15.62	346.13	11,874.3	-255.2	-633.2	-208.3	12.00	11.57	13.12
11,925.0	18.54	348.40	11,898.2	-248.1	-634.8	-201.0	12.00	11.70	9.09
11,950.0	21.49	350.07	11,921.7	-239.7	-636.4	-192.5	12.00	11.78	6.68
11,975.0	24.45	351.35	11,944.7	-230.0	-637.9	-182.8	12.00	11.83	5.13
12,000.0	27.41	352.37	11,967.2	-219.2	-639.5	-171.9	12.00	11.87	4.08
12,025.0	30.39	353.21	11,989.1	-207.2	-641.0	-159.8	12.00	11.89	3.34
12,050.0	33.36	353.91	12,010.3	-194.1	-642.5	-146.7	12.00	11.91	2.80
12,075.0	36.35	354.50	12,030.8	-179.9	-643.9	-132.4	12.00	11.92	2.39
12,100.0	39.33	355.02	12,050.6	-164.6	-645.3	-117.0	12.00	11.93	2.07
12,125.0	42.31	355.48	12,069.5	-148.4	-646.6	-100.7	12.00	11.94	1.82
12,150.0	45.30	355.88	12,087.5	-131.1	-647.9	-83.4	12.00	11.95	1.63
12,175.0	48.29	356.25	12,104.6	-112.9	-649.2	-65.2	12.00	11.95	1.47
12,200.0	51.28	356.58	12,120.8	-93.9	-650.4	-46.1	12.00	11.96	1.34
12,225.0	54.27	356.89	12,135.9	-74.0	-651.5	-26.2	12.00	11.96	1.23
12,250.0	57.26	357.18	12,149.9	-53.4	-652.6	-5.5	12.00	11.96	1.14
12,275.0	60.25	357.44	12,162.9	-32.0	-653.6	15.8	12.00	11.97	1.07
12,300.0	63.24	357.69	12,174.7	-10.0	-654.5	37.8	12.00	11.97	1.00
12,325.0	66.23	357.93	12,185.4	12.6	-655.4	60.4	12.00	11.97	0.95
12,334.4	67.36	358.02	12,189.1	21.2	-655.7	69.1	12.00	11.97	0.92
FTP (Neptune 10 St Com #604H)									
12,350.0	69.23	358.16	12,194.9	35.7	-656.2	83.6	12.00	11.97	0.90
12,375.0	72.22	358.38	12,203.1	59.3	-656.9	107.1	12.00	11.97	0.87
12,400.0	75.21	358.59	12,210.2	83.3	-657.5	131.1	12.00	11.97	0.84
12,425.0	78.21	358.79	12,215.9	107.6	-658.1	155.4	12.00	11.97	0.82
12,450.0	81.20	358.99	12,220.4	132.2	-658.6	180.0	12.00	11.97	0.80
12,475.0	84.19	359.19	12,223.5	157.0	-658.9	204.7	12.00	11.97	0.79
12,500.0	87.19	359.39	12,225.4	181.9	-659.3	229.6	12.00	11.97	0.78
12,523.5	90.00	359.57	12,226.0	205.4	-659.5	253.0	12.00	11.97	0.78
12,600.0	90.00	359.57	12,226.0	281.9	-660.0	329.4	0.00	0.00	0.00
12,700.0	90.00	359.57	12,226.0	381.9	-660.8	429.1	0.00	0.00	0.00
12,800.0	90.00	359.57	12,226.0	481.9	-661.5	528.9	0.00	0.00	0.00
12,900.0	90.00	359.57	12,226.0	581.9	-662.3	628.7	0.00	0.00	0.00
13,000.0	90.00	359.57	12,226.0	681.9	-663.0	728.5	0.00	0.00	0.00
13,100.0	90.00	359.57	12,226.0	781.9	-663.8	828.3	0.00	0.00	0.00
13,200.0	90.00	359.57	12,226.0	881.9	-664.5	928.1	0.00	0.00	0.00
13,300.0	90.00	359.57	12,226.0	981.9	-665.3	1,027.9	0.00	0.00	0.00
13,400.0	90.00	359.57	12,226.0	1,081.9	-666.0	1,127.6	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #604H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3633.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3633.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#604H	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)
13,500.0	90.00	359.57	12,226.0	1,181.9	-666.8	1,227.4	0.00	0.00	0.00
13,600.0	90.00	359.57	12,226.0	1,281.9	-667.5	1,327.2	0.00	0.00	0.00
13,700.0	90.00	359.57	12,226.0	1,381.8	-668.3	1,427.0	0.00	0.00	0.00
13,800.0	90.00	359.57	12,226.0	1,481.8	-669.0	1,526.8	0.00	0.00	0.00
13,900.0	90.00	359.57	12,226.0	1,581.8	-669.8	1,626.6	0.00	0.00	0.00
14,000.0	90.00	359.57	12,226.0	1,681.8	-670.5	1,726.3	0.00	0.00	0.00
14,100.0	90.00	359.57	12,226.0	1,781.8	-671.3	1,826.1	0.00	0.00	0.00
14,200.0	90.00	359.57	12,226.0	1,881.8	-672.1	1,925.9	0.00	0.00	0.00
14,300.0	90.00	359.57	12,226.0	1,981.8	-672.8	2,025.7	0.00	0.00	0.00
14,400.0	90.00	359.57	12,226.0	2,081.8	-673.6	2,125.5	0.00	0.00	0.00
14,500.0	90.00	359.57	12,226.0	2,181.8	-674.3	2,225.3	0.00	0.00	0.00
14,600.0	90.00	359.57	12,226.0	2,281.8	-675.1	2,325.1	0.00	0.00	0.00
14,700.0	90.00	359.57	12,226.0	2,381.8	-675.8	2,424.8	0.00	0.00	0.00
14,800.0	90.00	359.57	12,226.0	2,481.8	-676.6	2,524.6	0.00	0.00	0.00
14,900.0	90.00	359.57	12,226.0	2,581.8	-677.3	2,624.4	0.00	0.00	0.00
15,000.0	90.00	359.57	12,226.0	2,681.8	-678.1	2,724.2	0.00	0.00	0.00
15,100.0	90.00	359.57	12,226.0	2,781.8	-678.8	2,824.0	0.00	0.00	0.00
15,200.0	90.00	359.57	12,226.0	2,881.8	-679.6	2,923.8	0.00	0.00	0.00
15,300.0	90.00	359.57	12,226.0	2,981.8	-680.3	3,023.5	0.00	0.00	0.00
15,400.0	90.00	359.57	12,226.0	3,081.8	-681.1	3,123.3	0.00	0.00	0.00
15,500.0	90.00	359.57	12,226.0	3,181.8	-681.8	3,223.1	0.00	0.00	0.00
15,600.0	90.00	359.57	12,226.0	3,281.8	-682.6	3,322.9	0.00	0.00	0.00
15,700.0	90.00	359.57	12,226.0	3,381.8	-683.3	3,422.7	0.00	0.00	0.00
15,800.0	90.00	359.57	12,226.0	3,481.8	-684.1	3,522.5	0.00	0.00	0.00
15,900.0	90.00	359.57	12,226.0	3,581.8	-684.8	3,622.3	0.00	0.00	0.00
16,000.0	90.00	359.57	12,226.0	3,681.8	-685.6	3,722.0	0.00	0.00	0.00
16,100.0	90.00	359.57	12,226.0	3,781.8	-686.3	3,821.8	0.00	0.00	0.00
16,200.0	90.00	359.57	12,226.0	3,881.8	-687.1	3,921.6	0.00	0.00	0.00
16,300.0	90.00	359.57	12,226.0	3,981.8	-687.8	4,021.4	0.00	0.00	0.00
16,400.0	90.00	359.57	12,226.0	4,081.8	-688.6	4,121.2	0.00	0.00	0.00
16,500.0	90.00	359.57	12,226.0	4,181.8	-689.3	4,221.0	0.00	0.00	0.00
16,600.0	90.00	359.57	12,226.0	4,281.8	-690.1	4,320.7	0.00	0.00	0.00
16,700.0	90.00	359.57	12,226.0	4,381.8	-690.8	4,420.5	0.00	0.00	0.00
16,800.0	90.00	359.57	12,226.0	4,481.8	-691.6	4,520.3	0.00	0.00	0.00
16,900.0	90.00	359.57	12,226.0	4,581.8	-692.3	4,620.1	0.00	0.00	0.00
17,000.0	90.00	359.57	12,226.0	4,681.8	-693.1	4,719.9	0.00	0.00	0.00
17,100.0	90.00	359.57	12,226.0	4,781.8	-693.8	4,819.7	0.00	0.00	0.00
17,200.0	90.00	359.57	12,226.0	4,881.7	-694.6	4,919.5	0.00	0.00	0.00
17,300.0	90.00	359.57	12,226.0	4,981.7	-695.3	5,019.2	0.00	0.00	0.00
17,400.0	90.00	359.57	12,226.0	5,081.7	-696.1	5,119.0	0.00	0.00	0.00
17,500.0	90.00	359.57	12,226.0	5,181.7	-696.8	5,218.8	0.00	0.00	0.00
17,600.0	90.00	359.57	12,226.0	5,281.7	-697.6	5,318.6	0.00	0.00	0.00
17,700.0	90.00	359.57	12,226.0	5,381.7	-698.3	5,418.4	0.00	0.00	0.00
17,800.0	90.00	359.57	12,226.0	5,481.7	-699.1	5,518.2	0.00	0.00	0.00
17,900.0	90.00	359.57	12,226.0	5,581.7	-699.8	5,617.9	0.00	0.00	0.00
18,000.0	90.00	359.57	12,226.0	5,681.7	-700.6	5,717.7	0.00	0.00	0.00
18,100.0	90.00	359.57	12,226.0	5,781.7	-701.3	5,817.5	0.00	0.00	0.00
18,200.0	90.00	359.57	12,226.0	5,881.7	-702.1	5,917.3	0.00	0.00	0.00
18,300.0	90.00	359.57	12,226.0	5,981.7	-702.8	6,017.1	0.00	0.00	0.00
18,400.0	90.00	359.57	12,226.0	6,081.7	-703.6	6,116.9	0.00	0.00	0.00
18,500.0	90.00	359.57	12,226.0	6,181.7	-704.3	6,216.7	0.00	0.00	0.00
18,600.0	90.00	359.57	12,226.0	6,281.7	-705.1	6,316.4	0.00	0.00	0.00
18,700.0	90.00	359.57	12,226.0	6,381.7	-705.8	6,416.2	0.00	0.00	0.00
18,800.0	90.00	359.57	12,226.0	6,481.7	-706.6	6,516.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #604H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3633.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3633.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#604H	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)
18,900.0	90.00	359.57	12,226.0	6,581.7	-707.3	6,615.8	0.00	0.00	0.00
19,000.0	90.00	359.57	12,226.0	6,681.7	-708.1	6,715.6	0.00	0.00	0.00
19,100.0	90.00	359.57	12,226.0	6,781.7	-708.8	6,815.4	0.00	0.00	0.00
19,200.0	90.00	359.57	12,226.0	6,881.7	-709.6	6,915.1	0.00	0.00	0.00
19,300.0	90.00	359.57	12,226.0	6,981.7	-710.3	7,014.9	0.00	0.00	0.00
19,400.0	90.00	359.57	12,226.0	7,081.7	-711.1	7,114.7	0.00	0.00	0.00
19,500.0	90.00	359.57	12,226.0	7,181.7	-711.8	7,214.5	0.00	0.00	0.00
19,600.0	90.00	359.57	12,226.0	7,281.7	-712.6	7,314.3	0.00	0.00	0.00
19,700.0	90.00	359.57	12,226.0	7,381.7	-713.3	7,414.1	0.00	0.00	0.00
19,800.0	90.00	359.57	12,226.0	7,481.7	-714.1	7,513.9	0.00	0.00	0.00
19,900.0	90.00	359.57	12,226.0	7,581.7	-714.8	7,613.6	0.00	0.00	0.00
20,000.0	90.00	359.57	12,226.0	7,681.7	-715.6	7,713.4	0.00	0.00	0.00
20,100.0	90.00	359.57	12,226.0	7,781.7	-716.3	7,813.2	0.00	0.00	0.00
20,200.0	90.00	359.57	12,226.0	7,881.7	-717.1	7,913.0	0.00	0.00	0.00
20,300.0	90.00	359.57	12,226.0	7,981.7	-717.8	8,012.8	0.00	0.00	0.00
20,400.0	90.00	359.57	12,226.0	8,081.7	-718.6	8,112.6	0.00	0.00	0.00
20,500.0	90.00	359.57	12,226.0	8,181.7	-719.3	8,212.3	0.00	0.00	0.00
20,600.0	90.00	359.57	12,226.0	8,281.7	-720.1	8,312.1	0.00	0.00	0.00
20,700.0	90.00	359.57	12,226.0	8,381.7	-720.8	8,411.9	0.00	0.00	0.00
20,800.0	90.00	359.57	12,226.0	8,481.6	-721.6	8,511.7	0.00	0.00	0.00
20,900.0	90.00	359.57	12,226.0	8,581.6	-722.3	8,611.5	0.00	0.00	0.00
21,000.0	90.00	359.57	12,226.0	8,681.6	-723.1	8,711.3	0.00	0.00	0.00
21,100.0	90.00	359.57	12,226.0	8,781.6	-723.8	8,811.1	0.00	0.00	0.00
21,200.0	90.00	359.57	12,226.0	8,881.6	-724.6	8,910.8	0.00	0.00	0.00
21,300.0	90.00	359.57	12,226.0	8,981.6	-725.3	9,010.6	0.00	0.00	0.00
21,400.0	90.00	359.57	12,226.0	9,081.6	-726.1	9,110.4	0.00	0.00	0.00
21,500.0	90.00	359.57	12,226.0	9,181.6	-726.8	9,210.2	0.00	0.00	0.00
21,600.0	90.00	359.57	12,226.0	9,281.6	-727.6	9,310.0	0.00	0.00	0.00
21,700.0	90.00	359.57	12,226.0	9,381.6	-728.3	9,409.8	0.00	0.00	0.00
21,800.0	90.00	359.57	12,226.0	9,481.6	-729.1	9,509.5	0.00	0.00	0.00
21,900.0	90.00	359.57	12,226.0	9,581.6	-729.8	9,609.3	0.00	0.00	0.00
22,000.0	90.00	359.57	12,226.0	9,681.6	-730.6	9,709.1	0.00	0.00	0.00
22,100.0	90.00	359.57	12,226.0	9,781.6	-731.3	9,808.9	0.00	0.00	0.00
22,200.0	90.00	359.57	12,226.0	9,881.6	-732.1	9,908.7	0.00	0.00	0.00
22,300.0	90.00	359.57	12,226.0	9,981.6	-732.8	10,008.5	0.00	0.00	0.00
22,321.4	90.00	359.57	12,226.0	10,003.0	-733.0	10,029.8	0.00	0.00	0.00

PBHL (Neptune 10 St Com #604H)

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 Cr - plan hits target center - Point	0.00	0.00	12,226.0	10,003.0	-733.0	456,735.00	781,300.00	32° 15' 11.718 N	103° 33' 25.560 W
FTP (Neptune 10 St Cor - plan misses target center by 40.0usft at 12334.4usft MD (12189.1 TVD, 21.2 N, -655.7 E) - Point	0.00	0.00	12,226.0	6.0	-658.0	446,738.00	781,375.00	32° 13' 32.792 N	103° 33' 25.528 W