

HOBBS OCD
FEB 13 2018
RECEIVED



Lea County, NM (NAD 83 NME)

Neptune 10 State Com #710H

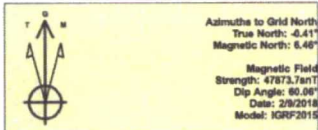
Plan #0.1

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: #710H

KB = 25' @ 3633.0uoft 3606.0
Northing 442728.00 Easting 782126.00 32° 13' 38.081 N 103° 33' 56.740 W



To convert a Magnetic Direction to a Grid Direction Add 6.46°
To convert a Magnetic Direction to a True Direction Add 6.88° East
To convert a True Direction to a Grid Direction Subtract 0.42°

SECTION DETAILS

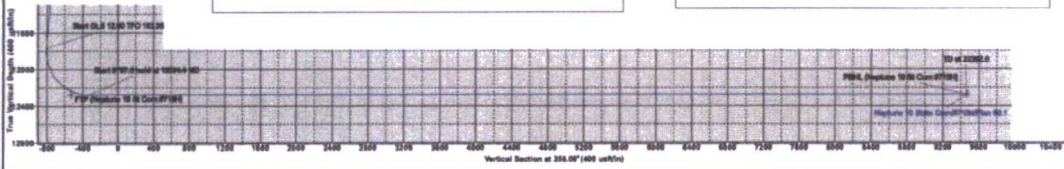
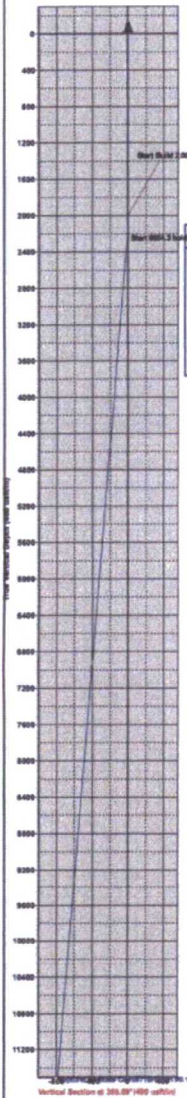
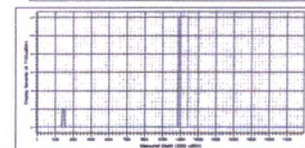
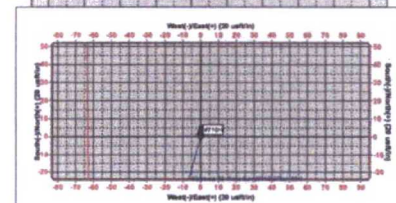
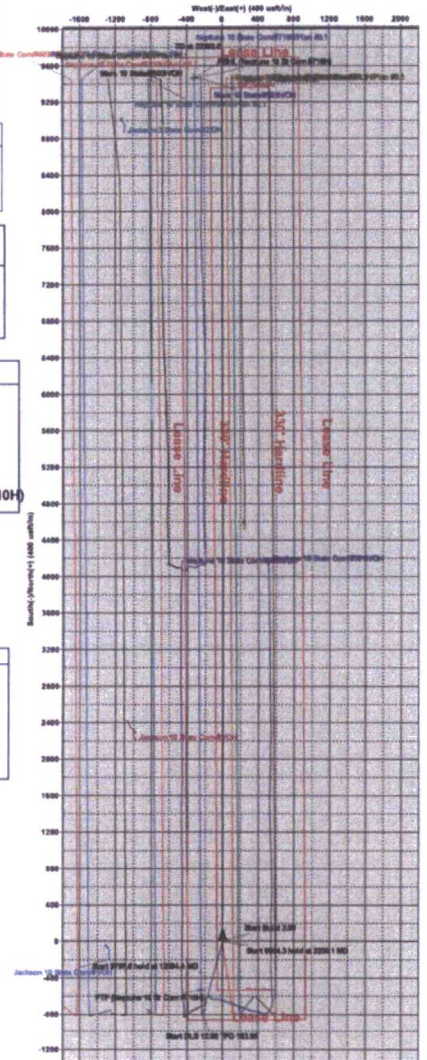
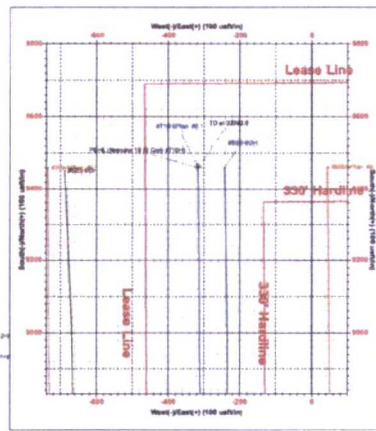
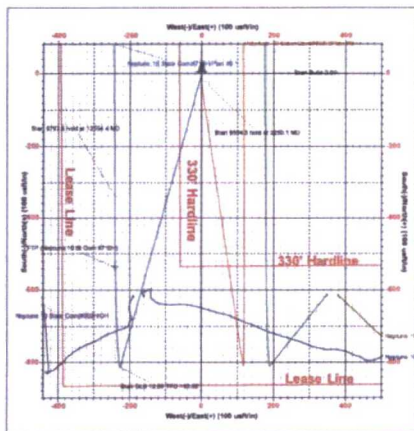
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2250.1	5.00	195.56	2249.8	-10.5	-2.9	2.00	195.56	-10.4	
4	11804.4	5.00	195.56	11767.7	-813.0	-226.4	0.00	0.00	-805.0	
5	12594.4	90.00	359.57	12285.0	-337.3	-242.5	12.00	163.95	-329.0	
6	22392.0	90.00	359.57	12285.0	9460.0	-316.0	0.00	0.00	9465.3	PBHL (Neptune 10 St Com #710H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PTP (Neptune 10 St Com #710H)	12285.0	-837.0	-241.0	442741.08	781885.00
PBHL (Neptune 10 St Com #710H)	12285.0	9460.0	-316.0	458738.00	781810.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#710H

OH

Plan: Plan #0.1

Standard Planning Report

12 February, 2018

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Neptune 10 State Com
 Well: #710H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
 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 #710H

Well Position +N/-S 721.0 usft Northing: 447,278.00 usft Latitude: 32° 13' 38.081 N
 +E/-W 3,162.0 usft Easting: 782,126.00 usft Longitude: 103° 33' 16.740 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	2/9/2018	6.88	60.06	47,873.71777895

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	358.09

Plan Survey Tool Program Date 2/12/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,392.0 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	
2,250.1	5.00	195.56	2,249.8	-10.5	-2.9	2.00	2.00	0.00	195.56	
11,804.4	5.00	195.56	11,767.7	-813.0	-226.4	0.00	0.00	0.00	0.00	
12,594.4	90.00	359.57	12,285.0	-337.3	-242.5	12.00	10.76	20.76	163.95	
22,392.0	90.00	359.57	12,285.0	9,460.0	-316.0	0.00	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: #710H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
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 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)
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	195.56	2,100.0	-1.7	-0.5	-1.7	2.00	2.00	0.00
2,200.0	4.00	195.56	2,199.8	-6.7	-1.9	-6.7	2.00	2.00	0.00
2,250.1	5.00	195.56	2,249.8	-10.5	-2.9	-10.4	2.00	2.00	0.00
2,300.0	5.00	195.56	2,299.5	-14.7	-4.1	-14.6	0.00	0.00	0.00
2,400.0	5.00	195.56	2,399.1	-23.1	-6.4	-22.9	0.00	0.00	0.00
2,500.0	5.00	195.56	2,498.7	-31.5	-8.8	-31.2	0.00	0.00	0.00
2,600.0	5.00	195.56	2,598.3	-39.9	-11.1	-39.5	0.00	0.00	0.00
2,700.0	5.00	195.56	2,698.0	-48.3	-13.5	-47.8	0.00	0.00	0.00
2,800.0	5.00	195.56	2,797.6	-56.7	-15.8	-56.1	0.00	0.00	0.00
2,900.0	5.00	195.56	2,897.2	-65.1	-18.1	-64.5	0.00	0.00	0.00
3,000.0	5.00	195.56	2,996.8	-73.5	-20.5	-72.8	0.00	0.00	0.00
3,100.0	5.00	195.56	3,096.4	-81.9	-22.8	-81.1	0.00	0.00	0.00
3,200.0	5.00	195.56	3,196.1	-90.3	-25.1	-89.4	0.00	0.00	0.00
3,300.0	5.00	195.56	3,295.7	-98.7	-27.5	-97.7	0.00	0.00	0.00
3,400.0	5.00	195.56	3,395.3	-107.1	-29.8	-106.0	0.00	0.00	0.00
3,500.0	5.00	195.56	3,494.9	-115.5	-32.2	-114.4	0.00	0.00	0.00
3,600.0	5.00	195.56	3,594.5	-123.9	-34.5	-122.7	0.00	0.00	0.00
3,700.0	5.00	195.56	3,694.2	-132.3	-36.8	-131.0	0.00	0.00	0.00
3,800.0	5.00	195.56	3,793.8	-140.7	-39.2	-139.3	0.00	0.00	0.00
3,900.0	5.00	195.56	3,893.4	-149.1	-41.5	-147.6	0.00	0.00	0.00
4,000.0	5.00	195.56	3,993.0	-157.5	-43.9	-155.9	0.00	0.00	0.00
4,100.0	5.00	195.56	4,092.6	-165.9	-46.2	-164.3	0.00	0.00	0.00
4,200.0	5.00	195.56	4,192.3	-174.3	-48.5	-172.6	0.00	0.00	0.00
4,300.0	5.00	195.56	4,291.9	-182.7	-50.9	-180.9	0.00	0.00	0.00
4,400.0	5.00	195.56	4,391.5	-191.1	-53.2	-189.2	0.00	0.00	0.00
4,500.0	5.00	195.56	4,491.1	-199.5	-55.6	-197.5	0.00	0.00	0.00
4,600.0	5.00	195.56	4,590.7	-207.9	-57.9	-205.8	0.00	0.00	0.00
4,700.0	5.00	195.56	4,690.4	-216.3	-60.2	-214.2	0.00	0.00	0.00
4,800.0	5.00	195.56	4,790.0	-224.7	-62.6	-222.5	0.00	0.00	0.00
4,900.0	5.00	195.56	4,889.6	-233.1	-64.9	-230.8	0.00	0.00	0.00
5,000.0	5.00	195.56	4,989.2	-241.5	-67.3	-239.1	0.00	0.00	0.00
5,100.0	5.00	195.56	5,088.8	-249.9	-69.6	-247.4	0.00	0.00	0.00
5,200.0	5.00	195.56	5,188.4	-258.3	-71.9	-255.7	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: #710H
Wellbore: OH
Design: Plan #0.1

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

Well #710H
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	5.00	195.56	5,288.1	-266.7	-74.3	-264.1	0.00	0.00	0.00
5,400.0	5.00	195.56	5,387.7	-275.1	-76.6	-272.4	0.00	0.00	0.00
5,500.0	5.00	195.56	5,487.3	-283.5	-79.0	-280.7	0.00	0.00	0.00
5,600.0	5.00	195.56	5,586.9	-291.9	-81.3	-289.0	0.00	0.00	0.00
5,700.0	5.00	195.56	5,686.5	-300.3	-83.6	-297.3	0.00	0.00	0.00
5,800.0	5.00	195.56	5,786.2	-308.7	-86.0	-305.6	0.00	0.00	0.00
5,900.0	5.00	195.56	5,885.8	-317.1	-88.3	-314.0	0.00	0.00	0.00
6,000.0	5.00	195.56	5,985.4	-325.5	-90.6	-322.3	0.00	0.00	0.00
6,100.0	5.00	195.56	6,085.0	-333.9	-93.0	-330.6	0.00	0.00	0.00
6,200.0	5.00	195.56	6,184.6	-342.3	-95.3	-338.9	0.00	0.00	0.00
6,300.0	5.00	195.56	6,284.3	-350.7	-97.7	-347.2	0.00	0.00	0.00
6,400.0	5.00	195.56	6,383.9	-359.1	-100.0	-355.5	0.00	0.00	0.00
6,500.0	5.00	195.56	6,483.5	-367.5	-102.3	-363.9	0.00	0.00	0.00
6,600.0	5.00	195.56	6,583.1	-375.9	-104.7	-372.2	0.00	0.00	0.00
6,700.0	5.00	195.56	6,682.7	-384.3	-107.0	-380.5	0.00	0.00	0.00
6,800.0	5.00	195.56	6,782.4	-392.7	-109.4	-388.8	0.00	0.00	0.00
6,900.0	5.00	195.56	6,882.0	-401.1	-111.7	-397.1	0.00	0.00	0.00
7,000.0	5.00	195.56	6,981.6	-409.5	-114.0	-405.4	0.00	0.00	0.00
7,100.0	5.00	195.56	7,081.2	-417.9	-116.4	-413.7	0.00	0.00	0.00
7,200.0	5.00	195.56	7,180.8	-426.3	-118.7	-422.1	0.00	0.00	0.00
7,300.0	5.00	195.56	7,280.5	-434.7	-121.1	-430.4	0.00	0.00	0.00
7,400.0	5.00	195.56	7,380.1	-443.1	-123.4	-438.7	0.00	0.00	0.00
7,500.0	5.00	195.56	7,479.7	-451.5	-125.7	-447.0	0.00	0.00	0.00
7,600.0	5.00	195.56	7,579.3	-459.9	-128.1	-455.3	0.00	0.00	0.00
7,700.0	5.00	195.56	7,678.9	-468.3	-130.4	-463.6	0.00	0.00	0.00
7,800.0	5.00	195.56	7,778.5	-476.7	-132.8	-472.0	0.00	0.00	0.00
7,900.0	5.00	195.56	7,878.2	-485.1	-135.1	-480.3	0.00	0.00	0.00
8,000.0	5.00	195.56	7,977.8	-493.5	-137.4	-488.6	0.00	0.00	0.00
8,100.0	5.00	195.56	8,077.4	-501.9	-139.8	-496.9	0.00	0.00	0.00
8,200.0	5.00	195.56	8,177.0	-510.3	-142.1	-505.2	0.00	0.00	0.00
8,300.0	5.00	195.56	8,276.6	-518.7	-144.4	-513.5	0.00	0.00	0.00
8,400.0	5.00	195.56	8,376.3	-527.1	-146.8	-521.9	0.00	0.00	0.00
8,500.0	5.00	195.56	8,475.9	-535.5	-149.1	-530.2	0.00	0.00	0.00
8,600.0	5.00	195.56	8,575.5	-543.9	-151.5	-538.5	0.00	0.00	0.00
8,700.0	5.00	195.56	8,675.1	-552.3	-153.8	-546.8	0.00	0.00	0.00
8,800.0	5.00	195.56	8,774.7	-560.7	-156.1	-555.1	0.00	0.00	0.00
8,900.0	5.00	195.56	8,874.4	-569.1	-158.5	-563.4	0.00	0.00	0.00
9,000.0	5.00	195.56	8,974.0	-577.5	-160.8	-571.8	0.00	0.00	0.00
9,100.0	5.00	195.56	9,073.6	-585.9	-163.2	-580.1	0.00	0.00	0.00
9,200.0	5.00	195.56	9,173.2	-594.3	-165.5	-588.4	0.00	0.00	0.00
9,300.0	5.00	195.56	9,272.8	-602.7	-167.8	-596.7	0.00	0.00	0.00
9,400.0	5.00	195.56	9,372.5	-611.1	-170.2	-605.0	0.00	0.00	0.00
9,500.0	5.00	195.56	9,472.1	-619.5	-172.5	-613.3	0.00	0.00	0.00
9,600.0	5.00	195.56	9,571.7	-627.9	-174.9	-621.7	0.00	0.00	0.00
9,700.0	5.00	195.56	9,671.3	-636.2	-177.2	-630.0	0.00	0.00	0.00
9,800.0	5.00	195.56	9,770.9	-644.6	-179.5	-638.3	0.00	0.00	0.00
9,900.0	5.00	195.56	9,870.5	-653.0	-181.9	-646.6	0.00	0.00	0.00
10,000.0	5.00	195.56	9,970.2	-661.4	-184.2	-654.9	0.00	0.00	0.00
10,100.0	5.00	195.56	10,069.8	-669.8	-186.6	-663.2	0.00	0.00	0.00
10,200.0	5.00	195.56	10,169.4	-678.2	-188.9	-671.6	0.00	0.00	0.00
10,300.0	5.00	195.56	10,269.0	-686.6	-191.2	-679.9	0.00	0.00	0.00
10,400.0	5.00	195.56	10,368.6	-695.0	-193.6	-688.2	0.00	0.00	0.00
10,500.0	5.00	195.56	10,468.3	-703.4	-195.9	-696.5	0.00	0.00	0.00
10,600.0	5.00	195.56	10,567.9	-711.8	-198.3	-704.8	0.00	0.00	0.00



Planning Report

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 Project: Lea County, NM (NAD 83 NME)
 Site: Neptune 10 State Corn
 Well: #710H
 Wellbore: OH
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Local Co-ordinate Reference:
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 North Reference:
 Survey Calculation Method:

Well #710H
 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)
10,700.0	5.00	195.56	10,667.5	-720.2	-200.6	-713.1	0.00	0.00	0.00
10,800.0	5.00	195.56	10,767.1	-728.6	-202.9	-721.5	0.00	0.00	0.00
10,900.0	5.00	195.56	10,866.7	-737.0	-205.3	-729.8	0.00	0.00	0.00
11,000.0	5.00	195.56	10,966.4	-745.4	-207.6	-738.1	0.00	0.00	0.00
11,100.0	5.00	195.56	11,066.0	-753.8	-209.9	-746.4	0.00	0.00	0.00
11,200.0	5.00	195.56	11,165.6	-762.2	-212.3	-754.7	0.00	0.00	0.00
11,300.0	5.00	195.56	11,265.2	-770.6	-214.6	-763.0	0.00	0.00	0.00
11,400.0	5.00	195.56	11,364.8	-779.0	-217.0	-771.4	0.00	0.00	0.00
11,500.0	5.00	195.56	11,464.5	-787.4	-219.3	-779.7	0.00	0.00	0.00
11,600.0	5.00	195.56	11,564.1	-795.8	-221.6	-788.0	0.00	0.00	0.00
11,700.0	5.00	195.56	11,663.7	-804.2	-224.0	-796.3	0.00	0.00	0.00
11,804.4	5.00	195.56	11,767.7	-813.0	-226.4	-805.0	0.00	0.00	0.00
11,825.0	2.71	210.19	11,788.2	-814.3	-226.9	-806.3	12.00	-11.11	70.91
11,850.0	1.53	295.37	11,813.2	-814.7	-227.5	-806.6	12.00	-4.70	340.72
11,875.0	3.92	338.96	11,838.2	-813.7	-228.1	-805.6	12.00	9.54	174.35
11,900.0	6.81	347.92	11,863.1	-811.5	-228.7	-803.4	12.00	11.56	35.83
11,925.0	9.77	351.52	11,887.8	-807.9	-229.4	-799.8	12.00	11.83	14.39
11,950.0	12.74	353.45	11,912.3	-803.1	-230.0	-795.0	12.00	11.91	7.73
11,975.0	15.73	354.66	11,936.6	-797.0	-230.6	-788.8	12.00	11.94	4.84
12,000.0	18.72	355.49	11,960.5	-789.6	-231.2	-781.4	12.00	11.96	3.32
12,025.0	21.71	356.10	11,983.9	-781.0	-231.9	-772.8	12.00	11.97	2.44
12,050.0	24.70	356.57	12,006.9	-771.2	-232.5	-763.0	12.00	11.98	1.87
12,075.0	27.70	356.94	12,029.3	-760.1	-233.1	-751.9	12.00	11.98	1.49
12,100.0	30.70	357.24	12,051.1	-748.0	-233.7	-739.7	12.00	11.99	1.22
12,125.0	33.69	357.50	12,072.3	-734.7	-234.4	-726.4	12.00	11.99	1.02
12,150.0	36.69	357.72	12,092.7	-720.3	-235.0	-712.0	12.00	11.99	0.87
12,175.0	39.69	357.90	12,112.4	-704.8	-235.5	-696.6	12.00	11.99	0.76
12,200.0	42.69	358.07	12,131.2	-688.4	-236.1	-680.1	12.00	11.99	0.67
12,225.0	45.68	358.22	12,149.1	-671.0	-236.7	-662.7	12.00	11.99	0.60
12,250.0	48.68	358.36	12,166.1	-652.6	-237.2	-644.3	12.00	11.99	0.54
12,275.0	51.68	358.48	12,182.1	-633.4	-237.8	-625.1	12.00	11.99	0.49
12,300.0	54.68	358.59	12,197.1	-613.4	-238.3	-605.1	12.00	11.99	0.45
12,325.0	57.68	358.70	12,211.0	-592.7	-238.8	-584.4	12.00	11.99	0.42
12,350.0	60.68	358.79	12,223.8	-571.2	-239.2	-562.9	12.00	12.00	0.39
12,375.0	63.68	358.89	12,235.5	-549.1	-239.7	-540.8	12.00	12.00	0.37
12,400.0	66.67	358.97	12,246.0	-526.4	-240.1	-518.1	12.00	12.00	0.35
12,425.0	69.67	359.06	12,255.3	-503.2	-240.5	-494.9	12.00	12.00	0.34
12,450.0	72.67	359.14	12,263.3	-479.6	-240.9	-471.2	12.00	12.00	0.32
12,475.0	75.67	359.22	12,270.1	-455.5	-241.2	-447.2	12.00	12.00	0.31
12,500.0	78.67	359.29	12,275.7	-431.1	-241.5	-422.8	12.00	12.00	0.30
12,525.0	81.67	359.37	12,280.0	-406.5	-241.8	-398.2	12.00	12.00	0.30
12,550.0	84.67	359.44	12,282.9	-381.7	-242.1	-373.4	12.00	12.00	0.29
12,575.0	87.67	359.51	12,284.6	-356.8	-242.3	-348.5	12.00	12.00	0.29
12,594.4	90.00	359.57	12,285.0	-337.3	-242.5	-329.0	12.00	12.00	0.29
12,600.0	90.00	359.57	12,285.0	-331.8	-242.5	-323.5	0.00	0.00	0.00
12,700.0	90.00	359.57	12,285.0	-231.8	-243.3	-223.5	0.00	0.00	0.00
12,800.0	90.00	359.57	12,285.0	-131.8	-244.0	-123.5	0.00	0.00	0.00
12,900.0	90.00	359.57	12,285.0	-31.8	-244.8	-23.6	0.00	0.00	0.00
13,000.0	90.00	359.57	12,285.0	68.2	-245.5	76.4	0.00	0.00	0.00
13,100.0	90.00	359.57	12,285.0	168.2	-246.3	176.4	0.00	0.00	0.00
13,200.0	90.00	359.57	12,285.0	268.2	-247.0	276.3	0.00	0.00	0.00
13,300.0	90.00	359.57	12,285.0	368.2	-247.8	376.3	0.00	0.00	0.00
13,400.0	90.00	359.57	12,285.0	468.2	-248.5	476.3	0.00	0.00	0.00
13,500.0	90.00	359.57	12,285.0	568.2	-249.3	576.2	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: #710H
 Wellbore: OH
 Design: Plan #0.1

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

Well #710H
 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	12,285.0	668.2	-250.0	676.2	0.00	0.00	0.00
13,700.0	90.00	359.57	12,285.0	768.2	-250.8	776.2	0.00	0.00	0.00
13,800.0	90.00	359.57	12,285.0	868.2	-251.5	876.1	0.00	0.00	0.00
13,900.0	90.00	359.57	12,285.0	968.2	-252.3	976.1	0.00	0.00	0.00
14,000.0	90.00	359.57	12,285.0	1,068.2	-253.0	1,076.1	0.00	0.00	0.00
14,100.0	90.00	359.57	12,285.0	1,168.2	-253.8	1,176.0	0.00	0.00	0.00
14,200.0	90.00	359.57	12,285.0	1,268.2	-254.5	1,276.0	0.00	0.00	0.00
14,300.0	90.00	359.57	12,285.0	1,368.2	-255.3	1,376.0	0.00	0.00	0.00
14,400.0	90.00	359.57	12,285.0	1,468.2	-256.0	1,475.9	0.00	0.00	0.00
14,500.0	90.00	359.57	12,285.0	1,568.2	-256.8	1,575.9	0.00	0.00	0.00
14,600.0	90.00	359.57	12,285.0	1,668.2	-257.5	1,675.9	0.00	0.00	0.00
14,700.0	90.00	359.57	12,285.0	1,768.2	-258.3	1,775.8	0.00	0.00	0.00
14,800.0	90.00	359.57	12,285.0	1,868.2	-259.0	1,875.8	0.00	0.00	0.00
14,900.0	90.00	359.57	12,285.0	1,968.2	-259.8	1,975.8	0.00	0.00	0.00
15,000.0	90.00	359.57	12,285.0	2,068.2	-260.5	2,075.7	0.00	0.00	0.00
15,100.0	90.00	359.57	12,285.0	2,168.2	-261.3	2,175.7	0.00	0.00	0.00
15,200.0	90.00	359.57	12,285.0	2,268.2	-262.0	2,275.7	0.00	0.00	0.00
15,300.0	90.00	359.57	12,285.0	2,368.2	-262.8	2,375.6	0.00	0.00	0.00
15,400.0	90.00	359.57	12,285.0	2,468.2	-263.5	2,475.6	0.00	0.00	0.00
15,500.0	90.00	359.57	12,285.0	2,568.2	-264.3	2,575.5	0.00	0.00	0.00
15,600.0	90.00	359.57	12,285.0	2,668.2	-265.0	2,675.5	0.00	0.00	0.00
15,700.0	90.00	359.57	12,285.0	2,768.2	-265.8	2,775.5	0.00	0.00	0.00
15,800.0	90.00	359.57	12,285.0	2,868.2	-266.5	2,875.4	0.00	0.00	0.00
15,900.0	90.00	359.57	12,285.0	2,968.1	-267.3	2,975.4	0.00	0.00	0.00
16,000.0	90.00	359.57	12,285.0	3,068.1	-268.0	3,075.4	0.00	0.00	0.00
16,100.0	90.00	359.57	12,285.0	3,168.1	-268.8	3,175.3	0.00	0.00	0.00
16,200.0	90.00	359.57	12,285.0	3,268.1	-269.5	3,275.3	0.00	0.00	0.00
16,300.0	90.00	359.57	12,285.0	3,368.1	-270.3	3,375.3	0.00	0.00	0.00
16,400.0	90.00	359.57	12,285.0	3,468.1	-271.0	3,475.2	0.00	0.00	0.00
16,500.0	90.00	359.57	12,285.0	3,568.1	-271.8	3,575.2	0.00	0.00	0.00
16,600.0	90.00	359.57	12,285.0	3,668.1	-272.5	3,675.2	0.00	0.00	0.00
16,700.0	90.00	359.57	12,285.0	3,768.1	-273.3	3,775.1	0.00	0.00	0.00
16,800.0	90.00	359.57	12,285.0	3,868.1	-274.0	3,875.1	0.00	0.00	0.00
16,900.0	90.00	359.57	12,285.0	3,968.1	-274.8	3,975.1	0.00	0.00	0.00
17,000.0	90.00	359.57	12,285.0	4,068.1	-275.5	4,075.0	0.00	0.00	0.00
17,100.0	90.00	359.57	12,285.0	4,168.1	-276.3	4,175.0	0.00	0.00	0.00
17,200.0	90.00	359.57	12,285.0	4,268.1	-277.0	4,275.0	0.00	0.00	0.00
17,300.0	90.00	359.57	12,285.0	4,368.1	-277.8	4,374.9	0.00	0.00	0.00
17,400.0	90.00	359.57	12,285.0	4,468.1	-278.5	4,474.9	0.00	0.00	0.00
17,500.0	90.00	359.57	12,285.0	4,568.1	-279.3	4,574.9	0.00	0.00	0.00
17,600.0	90.00	359.57	12,285.0	4,668.1	-280.0	4,674.8	0.00	0.00	0.00
17,700.0	90.00	359.57	12,285.0	4,768.1	-280.8	4,774.8	0.00	0.00	0.00
17,800.0	90.00	359.57	12,285.0	4,868.1	-281.5	4,874.8	0.00	0.00	0.00
17,900.0	90.00	359.57	12,285.0	4,968.1	-282.3	4,974.7	0.00	0.00	0.00
18,000.0	90.00	359.57	12,285.0	5,068.1	-283.0	5,074.7	0.00	0.00	0.00
18,100.0	90.00	359.57	12,285.0	5,168.1	-283.8	5,174.7	0.00	0.00	0.00
18,200.0	90.00	359.57	12,285.0	5,268.1	-284.5	5,274.6	0.00	0.00	0.00
18,300.0	90.00	359.57	12,285.0	5,368.1	-285.3	5,374.6	0.00	0.00	0.00
18,400.0	90.00	359.57	12,285.0	5,468.1	-286.0	5,474.6	0.00	0.00	0.00
18,500.0	90.00	359.57	12,285.0	5,568.1	-286.8	5,574.5	0.00	0.00	0.00
18,600.0	90.00	359.57	12,285.0	5,668.1	-287.5	5,674.5	0.00	0.00	0.00
18,700.0	90.00	359.57	12,285.0	5,768.1	-288.3	5,774.5	0.00	0.00	0.00
18,800.0	90.00	359.57	12,285.0	5,868.1	-289.0	5,874.4	0.00	0.00	0.00
18,900.0	90.00	359.57	12,285.0	5,968.1	-289.8	5,974.4	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 Cor
Well: #710H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
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	12,285.0	6,068.1	-290.5	6,074.4	0.00	0.00	0.00
19,100.0	90.00	359.57	12,285.0	6,168.1	-291.3	6,174.3	0.00	0.00	0.00
19,200.0	90.00	359.57	12,285.0	6,268.1	-292.0	6,274.3	0.00	0.00	0.00
19,300.0	90.00	359.57	12,285.0	6,368.1	-292.8	6,374.3	0.00	0.00	0.00
19,400.0	90.00	359.57	12,285.0	6,468.0	-293.5	6,474.2	0.00	0.00	0.00
19,500.0	90.00	359.57	12,285.0	6,568.0	-294.3	6,574.2	0.00	0.00	0.00
19,600.0	90.00	359.57	12,285.0	6,668.0	-295.0	6,674.2	0.00	0.00	0.00
19,700.0	90.00	359.57	12,285.0	6,768.0	-295.8	6,774.1	0.00	0.00	0.00
19,800.0	90.00	359.57	12,285.0	6,868.0	-296.5	6,874.1	0.00	0.00	0.00
19,900.0	90.00	359.57	12,285.0	6,968.0	-297.3	6,974.1	0.00	0.00	0.00
20,000.0	90.00	359.57	12,285.0	7,068.0	-298.0	7,074.0	0.00	0.00	0.00
20,100.0	90.00	359.57	12,285.0	7,168.0	-298.8	7,174.0	0.00	0.00	0.00
20,200.0	90.00	359.57	12,285.0	7,268.0	-299.5	7,274.0	0.00	0.00	0.00
20,300.0	90.00	359.57	12,285.0	7,368.0	-300.3	7,373.9	0.00	0.00	0.00
20,400.0	90.00	359.57	12,285.0	7,468.0	-301.1	7,473.9	0.00	0.00	0.00
20,500.0	90.00	359.57	12,285.0	7,568.0	-301.8	7,573.9	0.00	0.00	0.00
20,600.0	90.00	359.57	12,285.0	7,668.0	-302.6	7,673.8	0.00	0.00	0.00
20,700.0	90.00	359.57	12,285.0	7,768.0	-303.3	7,773.8	0.00	0.00	0.00
20,800.0	90.00	359.57	12,285.0	7,868.0	-304.1	7,873.8	0.00	0.00	0.00
20,900.0	90.00	359.57	12,285.0	7,968.0	-304.8	7,973.7	0.00	0.00	0.00
21,000.0	90.00	359.57	12,285.0	8,068.0	-305.6	8,073.7	0.00	0.00	0.00
21,100.0	90.00	359.57	12,285.0	8,168.0	-306.3	8,173.7	0.00	0.00	0.00
21,200.0	90.00	359.57	12,285.0	8,268.0	-307.1	8,273.6	0.00	0.00	0.00
21,300.0	90.00	359.57	12,285.0	8,368.0	-307.8	8,373.6	0.00	0.00	0.00
21,400.0	90.00	359.57	12,285.0	8,468.0	-308.6	8,473.6	0.00	0.00	0.00
21,500.0	90.00	359.57	12,285.0	8,568.0	-309.3	8,573.5	0.00	0.00	0.00
21,600.0	90.00	359.57	12,285.0	8,668.0	-310.1	8,673.5	0.00	0.00	0.00
21,700.0	90.00	359.57	12,285.0	8,768.0	-310.8	8,773.5	0.00	0.00	0.00
21,800.0	90.00	359.57	12,285.0	8,868.0	-311.6	8,873.4	0.00	0.00	0.00
21,900.0	90.00	359.57	12,285.0	8,968.0	-312.3	8,973.4	0.00	0.00	0.00
22,000.0	90.00	359.57	12,285.0	9,068.0	-313.1	9,073.4	0.00	0.00	0.00
22,100.0	90.00	359.57	12,285.0	9,168.0	-313.8	9,173.3	0.00	0.00	0.00
22,200.0	90.00	359.57	12,285.0	9,268.0	-314.6	9,273.3	0.00	0.00	0.00
22,300.0	90.00	359.57	12,285.0	9,368.0	-315.3	9,373.3	0.00	0.00	0.00
22,392.0	90.00	359.57	12,285.0	9,460.0	-316.0	9,465.3	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
FTP (Neptune 10 St Cor - hit/miss target - Shape - Point	0.00	0.00	12,285.0	-537.0	-241.0	446,741.00	781,885.00	32° 13' 32.785 N	103° 33' 19.591 W
- plan misses target center by 40.1usft at 12404.7usft MD (12247.8 TVD, -522.1 N, -240.2 E)									
PBHL (Neptune 10 St Cor - plan hits target center - Point	0.00	0.00	12,285.0	9,460.0	-316.0	456,738.00	781,810.00	32° 15' 11.712 N	103° 33' 19.621 W