

HOBBS OCD
FEB 14 2018
RECEIVED



Lea County, NM (NAD 83 NME)

Neptune 10 State Com #712H

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: #712H

KB = 25' @ 3632.0uoft 3607.0
Northing 44664.00 Easting 782565.00 Latitude 32° 13' 31.978 N Longitude 103° 33' 12.300 W

SECTION DETAILS

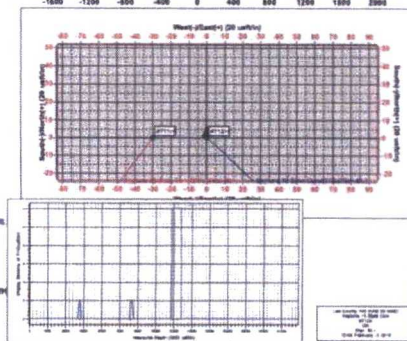
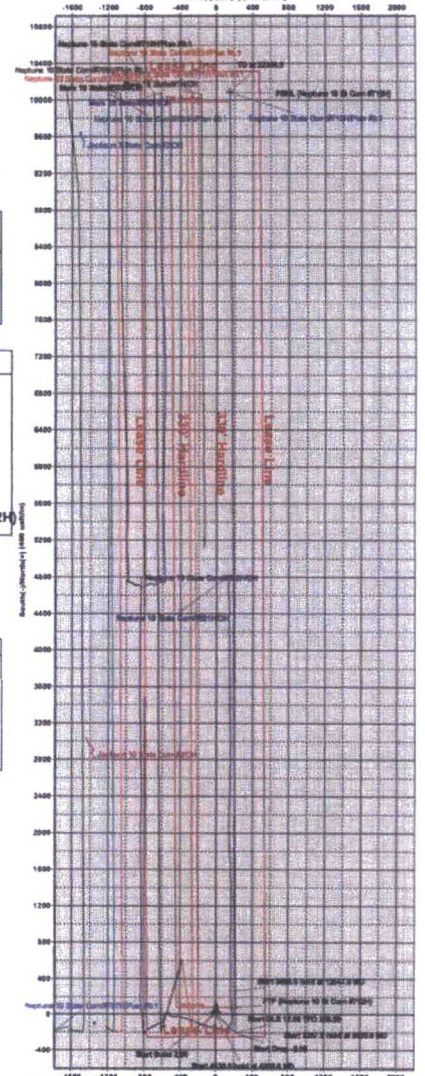
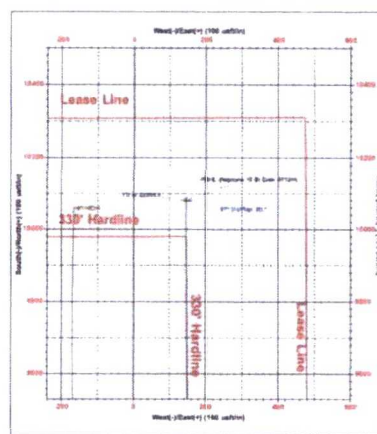
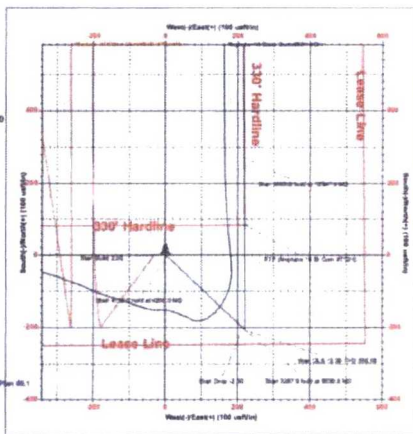
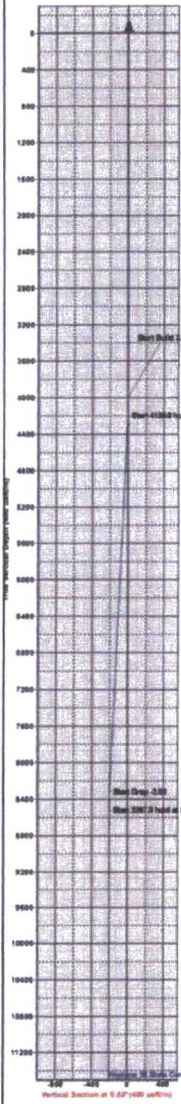
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4200.0	4.00	133.20	4199.8	-4.8	5.1	2.00	133.20	-4.7	
4	8330.0	4.00	133.20	8319.8	-202.0	215.1	0.00	0.00	-198.9	
5	8530.0	0.00	0.00	8519.6	-206.8	220.2	2.00	180.00	-203.6	
6	11797.9	0.00	0.00	11787.5	-206.8	220.2	0.00	0.00	-203.6	
7	12547.9	90.00	359.59	12265.0	270.7	216.7	12.00	359.59	273.8	
8	22356.5	90.00	359.59	12265.0	10079.0	146.0	0.00	0.00	10080.1	PBHL (Neptune 10 St Com #712H)

CASINO 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 #712H)	12265.0	52.0	220.0	446746.00	782725.00
PBHL (Neptune 10 St Com #712H)	12265.0	10079.0	146.0	446743.00	782661.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#712H

OH

Plan: Plan #0.1

Standard Planning Report

12 February, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #712H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #712H
TVD Reference: KB = 25' @ 3632.0usft
MD Reference: KB = 25' @ 3632.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	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	#712H					
Well Position	+N/-S	107.0 usft	Northing:	446,664.00 usft	Latitude:	32° 13' 31.978 N
	+E/-W	3,541.0 usft	Easting:	782,505.00 usft	Longitude:	103° 33' 12.380 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,607.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/9/2018	6.87	60.06	47,872.84594350

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	0.83

Plan Survey Tool Program	Date 2/12/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,356.0 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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,200.0	4.00	133.20	4,199.8	-4.8	5.1	2.00	2.00	0.00	133.20	
8,330.0	4.00	133.20	8,319.8	-202.0	215.1	0.00	0.00	0.00	0.00	
8,530.0	0.00	0.00	8,519.6	-206.8	220.2	2.00	-2.00	0.00	180.00	
11,797.9	0.00	0.00	11,787.5	-206.8	220.2	0.00	0.00	0.00	0.00	
12,547.9	90.00	359.59	12,265.0	270.7	216.7	12.00	12.00	-0.06	359.59	
22,356.5	90.00	359.59	12,265.0	10,079.0	146.0	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: #712H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #712H
 TVD Reference: KB = 25' @ 3632.0usft
 MD Reference: KB = 25' @ 3632.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	2.00	133.20	4,100.0	-1.2	1.3	-1.2	2.00	2.00	0.00
4,200.0	4.00	133.20	4,199.8	-4.8	5.1	-4.7	2.00	2.00	0.00
4,300.0	4.00	133.20	4,299.6	-9.6	10.2	-9.4	0.00	0.00	0.00
4,400.0	4.00	133.20	4,399.4	-14.3	15.3	-14.1	0.00	0.00	0.00
4,500.0	4.00	133.20	4,499.1	-19.1	20.3	-18.8	0.00	0.00	0.00
4,600.0	4.00	133.20	4,598.9	-23.9	25.4	-23.5	0.00	0.00	0.00
4,700.0	4.00	133.20	4,698.6	-28.7	30.5	-28.2	0.00	0.00	0.00
4,800.0	4.00	133.20	4,798.4	-33.4	35.6	-32.9	0.00	0.00	0.00
4,900.0	4.00	133.20	4,898.1	-38.2	40.7	-37.6	0.00	0.00	0.00
5,000.0	4.00	133.20	4,997.9	-43.0	45.8	-42.3	0.00	0.00	0.00
5,100.0	4.00	133.20	5,097.6	-47.8	50.9	-47.0	0.00	0.00	0.00
5,200.0	4.00	133.20	5,197.4	-52.5	55.9	-51.7	0.00	0.00	0.00
5,300.0	4.00	133.20	5,297.2	-57.3	61.0	-56.4	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 Com
 Well: #712H
 Wellbore: OH
 Design: Plan #0.1

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

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	4.00	133.20	5,396.9	-62.1	66.1	-61.1	0.00	0.00	0.00
5,500.0	4.00	133.20	5,496.7	-66.9	71.2	-65.8	0.00	0.00	0.00
5,600.0	4.00	133.20	5,596.4	-71.6	76.3	-70.5	0.00	0.00	0.00
5,700.0	4.00	133.20	5,696.2	-76.4	81.4	-75.2	0.00	0.00	0.00
5,800.0	4.00	133.20	5,795.9	-81.2	86.4	-79.9	0.00	0.00	0.00
5,900.0	4.00	133.20	5,895.7	-86.0	91.5	-84.6	0.00	0.00	0.00
6,000.0	4.00	133.20	5,995.5	-90.7	96.6	-89.3	0.00	0.00	0.00
6,100.0	4.00	133.20	6,095.2	-95.5	101.7	-94.0	0.00	0.00	0.00
6,200.0	4.00	133.20	6,195.0	-100.3	106.8	-98.7	0.00	0.00	0.00
6,300.0	4.00	133.20	6,294.7	-105.1	111.9	-103.4	0.00	0.00	0.00
6,400.0	4.00	133.20	6,394.5	-109.8	117.0	-108.1	0.00	0.00	0.00
6,500.0	4.00	133.20	6,494.2	-114.6	122.0	-112.8	0.00	0.00	0.00
6,600.0	4.00	133.20	6,594.0	-119.4	127.1	-117.5	0.00	0.00	0.00
6,700.0	4.00	133.20	6,693.7	-124.2	132.2	-122.2	0.00	0.00	0.00
6,800.0	4.00	133.20	6,793.5	-128.9	137.3	-126.9	0.00	0.00	0.00
6,900.0	4.00	133.20	6,893.3	-133.7	142.4	-131.6	0.00	0.00	0.00
7,000.0	4.00	133.20	6,993.0	-138.5	147.5	-136.3	0.00	0.00	0.00
7,100.0	4.00	133.20	7,092.8	-143.3	152.6	-141.0	0.00	0.00	0.00
7,200.0	4.00	133.20	7,192.5	-148.0	157.6	-145.7	0.00	0.00	0.00
7,300.0	4.00	133.20	7,292.3	-152.8	162.7	-150.4	0.00	0.00	0.00
7,400.0	4.00	133.20	7,392.0	-157.6	167.8	-155.1	0.00	0.00	0.00
7,500.0	4.00	133.20	7,491.8	-162.4	172.9	-159.8	0.00	0.00	0.00
7,600.0	4.00	133.20	7,591.6	-167.1	178.0	-164.5	0.00	0.00	0.00
7,700.0	4.00	133.20	7,691.3	-171.9	183.1	-169.2	0.00	0.00	0.00
7,800.0	4.00	133.20	7,791.1	-176.7	188.1	-173.9	0.00	0.00	0.00
7,900.0	4.00	133.20	7,890.8	-181.5	193.2	-178.6	0.00	0.00	0.00
8,000.0	4.00	133.20	7,990.6	-186.2	198.3	-183.3	0.00	0.00	0.00
8,100.0	4.00	133.20	8,090.3	-191.0	203.4	-188.0	0.00	0.00	0.00
8,200.0	4.00	133.20	8,190.1	-195.8	208.5	-192.7	0.00	0.00	0.00
8,300.0	4.00	133.20	8,289.9	-200.6	213.6	-197.4	0.00	0.00	0.00
8,330.0	4.00	133.20	8,319.8	-202.0	215.1	-198.9	0.00	0.00	0.00
8,400.0	2.60	133.20	8,389.7	-204.7	218.0	-201.6	2.00	-2.00	0.00
8,500.0	0.60	133.20	8,489.6	-206.7	220.1	-203.5	2.00	-2.00	0.00
8,530.0	0.00	0.00	8,519.6	-206.8	220.2	-203.6	2.00	-2.00	0.00
8,600.0	0.00	0.00	8,589.6	-206.8	220.2	-203.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,689.6	-206.8	220.2	-203.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,789.6	-206.8	220.2	-203.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,889.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,989.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,089.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,189.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,289.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,389.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,489.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,589.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,689.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,789.6	-206.8	220.2	-203.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,889.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,989.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,089.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,189.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,289.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,389.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,489.6	-206.8	220.2	-203.6	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: #712H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #712H
KB = 25' @ 3632.0usft
KB = 25' @ 3632.0usft
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	0.00	0.00	10,589.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,689.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,789.6	-206.8	220.2	-203.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,889.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,989.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,100.0	0.00	0.00	11,089.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,189.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,289.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,389.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,489.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,589.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,689.6	-206.8	220.2	-203.6	0.00	0.00	0.00
11,797.9	0.00	0.00	11,787.5	-206.8	220.2	-203.6	0.00	0.00	0.00
11,800.0	0.25	359.59	11,789.6	-206.8	220.2	-203.6	12.00	12.00	0.00
11,825.0	3.25	359.59	11,814.6	-206.0	220.2	-202.8	12.00	12.00	0.00
11,850.0	6.25	359.59	11,839.5	-203.9	220.2	-200.7	12.00	12.00	0.00
11,875.0	9.25	359.59	11,864.3	-200.6	220.1	-197.3	12.00	12.00	0.00
11,900.0	12.25	359.59	11,888.8	-195.9	220.1	-192.7	12.00	12.00	0.00
11,925.0	15.25	359.59	11,913.1	-189.9	220.1	-186.7	12.00	12.00	0.00
11,950.0	18.25	359.59	11,937.1	-182.7	220.0	-179.5	12.00	12.00	0.00
11,975.0	21.25	359.59	11,960.6	-174.3	220.0	-171.1	12.00	12.00	0.00
12,000.0	24.25	359.59	11,983.6	-164.6	219.9	-161.4	12.00	12.00	0.00
12,025.0	27.25	359.59	12,006.1	-153.8	219.8	-150.6	12.00	12.00	0.00
12,050.0	30.25	359.59	12,028.1	-141.7	219.7	-138.5	12.00	12.00	0.00
12,075.0	33.25	359.59	12,049.3	-128.6	219.6	-125.4	12.00	12.00	0.00
12,100.0	36.25	359.59	12,069.9	-114.3	219.5	-111.1	12.00	12.00	0.00
12,125.0	39.25	359.59	12,089.6	-99.0	219.4	-95.8	12.00	12.00	0.00
12,150.0	42.25	359.59	12,108.6	-82.7	219.3	-79.5	12.00	12.00	0.00
12,175.0	45.25	359.59	12,126.6	-65.4	219.2	-62.2	12.00	12.00	0.00
12,200.0	48.25	359.59	12,143.7	-47.2	219.0	-44.0	12.00	12.00	0.00
12,225.0	51.25	359.59	12,159.9	-28.1	218.9	-25.0	12.00	12.00	0.00
12,250.0	54.25	359.59	12,175.0	-8.2	218.8	-5.1	12.00	12.00	0.00
12,275.0	57.25	359.59	12,189.1	12.4	218.6	15.6	12.00	12.00	0.00
12,300.0	60.25	359.59	12,202.0	33.8	218.5	37.0	12.00	12.00	0.00
12,325.0	63.25	359.59	12,213.9	55.8	218.3	59.0	12.00	12.00	0.00
12,350.0	66.25	359.59	12,224.5	78.4	218.1	81.6	12.00	12.00	0.00
12,375.0	69.25	359.59	12,234.0	101.6	218.0	104.7	12.00	12.00	0.00
12,400.0	72.25	359.59	12,242.2	125.2	217.8	128.3	12.00	12.00	0.00
12,425.0	75.25	359.59	12,249.2	149.2	217.6	152.3	12.00	12.00	0.00
12,450.0	78.25	359.59	12,255.0	173.5	217.4	176.6	12.00	12.00	0.00
12,475.0	81.25	359.59	12,259.4	198.1	217.3	201.2	12.00	12.00	0.00
12,500.0	84.25	359.59	12,262.6	222.9	217.1	226.0	12.00	12.00	0.00
12,525.0	87.25	359.59	12,264.4	247.8	216.9	250.9	12.00	12.00	0.00
12,547.9	90.00	359.59	12,265.0	270.7	216.7	273.8	12.00	12.00	0.00
12,600.0	90.00	359.59	12,265.0	322.8	216.4	325.9	0.00	0.00	0.00
12,700.0	90.00	359.59	12,265.0	422.8	215.6	425.9	0.00	0.00	0.00
12,800.0	90.00	359.59	12,265.0	522.8	214.9	525.9	0.00	0.00	0.00
12,900.0	90.00	359.59	12,265.0	622.8	214.2	625.8	0.00	0.00	0.00
13,000.0	90.00	359.59	12,265.0	722.8	213.5	725.8	0.00	0.00	0.00
13,100.0	90.00	359.59	12,265.0	822.8	212.8	825.8	0.00	0.00	0.00
13,200.0	90.00	359.59	12,265.0	922.8	212.0	925.8	0.00	0.00	0.00
13,300.0	90.00	359.59	12,265.0	1,022.8	211.3	1,025.7	0.00	0.00	0.00
13,400.0	90.00	359.59	12,265.0	1,122.8	210.6	1,125.7	0.00	0.00	0.00
13,500.0	90.00	359.59	12,265.0	1,222.8	209.9	1,225.7	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: #712H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #712H
 TVD Reference: KB = 25' @ 3632.0usft
 MD Reference: KB = 25' @ 3632.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,600.0	90.00	359.59	12,265.0	1,322.8	209.2	1,325.7	0.00	0.00	0.00
13,700.0	90.00	359.59	12,265.0	1,422.8	208.4	1,425.6	0.00	0.00	0.00
13,800.0	90.00	359.59	12,265.0	1,522.8	207.7	1,525.6	0.00	0.00	0.00
13,900.0	90.00	359.59	12,265.0	1,622.8	207.0	1,625.6	0.00	0.00	0.00
14,000.0	90.00	359.59	12,265.0	1,722.8	206.3	1,725.6	0.00	0.00	0.00
14,100.0	90.00	359.59	12,265.0	1,822.8	205.5	1,825.5	0.00	0.00	0.00
14,200.0	90.00	359.59	12,265.0	1,922.8	204.8	1,925.5	0.00	0.00	0.00
14,300.0	90.00	359.59	12,265.0	2,022.8	204.1	2,025.5	0.00	0.00	0.00
14,400.0	90.00	359.59	12,265.0	2,122.8	203.4	2,125.5	0.00	0.00	0.00
14,500.0	90.00	359.59	12,265.0	2,222.7	202.7	2,225.5	0.00	0.00	0.00
14,600.0	90.00	359.59	12,265.0	2,322.7	201.9	2,325.4	0.00	0.00	0.00
14,700.0	90.00	359.59	12,265.0	2,422.7	201.2	2,425.4	0.00	0.00	0.00
14,800.0	90.00	359.59	12,265.0	2,522.7	200.5	2,525.4	0.00	0.00	0.00
14,900.0	90.00	359.59	12,265.0	2,622.7	199.8	2,625.4	0.00	0.00	0.00
15,000.0	90.00	359.59	12,265.0	2,722.7	199.1	2,725.3	0.00	0.00	0.00
15,100.0	90.00	359.59	12,265.0	2,822.7	198.3	2,825.3	0.00	0.00	0.00
15,200.0	90.00	359.59	12,265.0	2,922.7	197.6	2,925.3	0.00	0.00	0.00
15,300.0	90.00	359.59	12,265.0	3,022.7	196.9	3,025.3	0.00	0.00	0.00
15,400.0	90.00	359.59	12,265.0	3,122.7	196.2	3,125.2	0.00	0.00	0.00
15,500.0	90.00	359.59	12,265.0	3,222.7	195.5	3,225.2	0.00	0.00	0.00
15,600.0	90.00	359.59	12,265.0	3,322.7	194.7	3,325.2	0.00	0.00	0.00
15,700.0	90.00	359.59	12,265.0	3,422.7	194.0	3,425.2	0.00	0.00	0.00
15,800.0	90.00	359.59	12,265.0	3,522.7	193.3	3,525.1	0.00	0.00	0.00
15,900.0	90.00	359.59	12,265.0	3,622.7	192.6	3,625.1	0.00	0.00	0.00
16,000.0	90.00	359.59	12,265.0	3,722.7	191.8	3,725.1	0.00	0.00	0.00
16,100.0	90.00	359.59	12,265.0	3,822.7	191.1	3,825.1	0.00	0.00	0.00
16,200.0	90.00	359.59	12,265.0	3,922.7	190.4	3,925.1	0.00	0.00	0.00
16,300.0	90.00	359.59	12,265.0	4,022.7	189.7	4,025.0	0.00	0.00	0.00
16,400.0	90.00	359.59	12,265.0	4,122.7	189.0	4,125.0	0.00	0.00	0.00
16,500.0	90.00	359.59	12,265.0	4,222.7	188.2	4,225.0	0.00	0.00	0.00
16,600.0	90.00	359.59	12,265.0	4,322.7	187.5	4,325.0	0.00	0.00	0.00
16,700.0	90.00	359.59	12,265.0	4,422.7	186.8	4,424.9	0.00	0.00	0.00
16,800.0	90.00	359.59	12,265.0	4,522.7	186.1	4,524.9	0.00	0.00	0.00
16,900.0	90.00	359.59	12,265.0	4,622.7	185.4	4,624.9	0.00	0.00	0.00
17,000.0	90.00	359.59	12,265.0	4,722.7	184.6	4,724.9	0.00	0.00	0.00
17,100.0	90.00	359.59	12,265.0	4,822.7	183.9	4,824.8	0.00	0.00	0.00
17,200.0	90.00	359.59	12,265.0	4,922.7	183.2	4,924.8	0.00	0.00	0.00
17,300.0	90.00	359.59	12,265.0	5,022.7	182.5	5,024.8	0.00	0.00	0.00
17,400.0	90.00	359.59	12,265.0	5,122.7	181.7	5,124.8	0.00	0.00	0.00
17,500.0	90.00	359.59	12,265.0	5,222.7	181.0	5,224.7	0.00	0.00	0.00
17,600.0	90.00	359.59	12,265.0	5,322.7	180.3	5,324.7	0.00	0.00	0.00
17,700.0	90.00	359.59	12,265.0	5,422.7	179.6	5,424.7	0.00	0.00	0.00
17,800.0	90.00	359.59	12,265.0	5,522.7	178.9	5,524.7	0.00	0.00	0.00
17,900.0	90.00	359.59	12,265.0	5,622.7	178.1	5,624.6	0.00	0.00	0.00
18,000.0	90.00	359.59	12,265.0	5,722.7	177.4	5,724.6	0.00	0.00	0.00
18,100.0	90.00	359.59	12,265.0	5,822.7	176.7	5,824.6	0.00	0.00	0.00
18,200.0	90.00	359.59	12,265.0	5,922.7	176.0	5,924.6	0.00	0.00	0.00
18,300.0	90.00	359.59	12,265.0	6,022.6	175.3	6,024.6	0.00	0.00	0.00
18,400.0	90.00	359.59	12,265.0	6,122.6	174.5	6,124.5	0.00	0.00	0.00
18,500.0	90.00	359.59	12,265.0	6,222.6	173.8	6,224.5	0.00	0.00	0.00
18,600.0	90.00	359.59	12,265.0	6,322.6	173.1	6,324.5	0.00	0.00	0.00
18,700.0	90.00	359.59	12,265.0	6,422.6	172.4	6,424.5	0.00	0.00	0.00
18,800.0	90.00	359.59	12,265.0	6,522.6	171.7	6,524.4	0.00	0.00	0.00
18,900.0	90.00	359.59	12,265.0	6,622.6	170.9	6,624.4	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: #712H
Wellbore: OH
Design: Plan #0.1

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

Well #712H
KB = 25' @ 3632.0usft
KB = 25' @ 3632.0usft
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,000.0	90.00	359.59	12,265.0	6,722.6	170.2	6,724.4	0.00	0.00	0.00
19,100.0	90.00	359.59	12,265.0	6,822.6	169.5	6,824.4	0.00	0.00	0.00
19,200.0	90.00	359.59	12,265.0	6,922.6	168.8	6,924.3	0.00	0.00	0.00
19,300.0	90.00	359.59	12,265.0	7,022.6	168.0	7,024.3	0.00	0.00	0.00
19,400.0	90.00	359.59	12,265.0	7,122.6	167.3	7,124.3	0.00	0.00	0.00
19,500.0	90.00	359.59	12,265.0	7,222.6	166.6	7,224.3	0.00	0.00	0.00
19,600.0	90.00	359.59	12,265.0	7,322.6	165.9	7,324.2	0.00	0.00	0.00
19,700.0	90.00	359.59	12,265.0	7,422.6	165.2	7,424.2	0.00	0.00	0.00
19,800.0	90.00	359.59	12,265.0	7,522.6	164.4	7,524.2	0.00	0.00	0.00
19,900.0	90.00	359.59	12,265.0	7,622.6	163.7	7,624.2	0.00	0.00	0.00
20,000.0	90.00	359.59	12,265.0	7,722.6	163.0	7,724.2	0.00	0.00	0.00
20,100.0	90.00	359.59	12,265.0	7,822.6	162.3	7,824.1	0.00	0.00	0.00
20,200.0	90.00	359.59	12,265.0	7,922.6	161.6	7,924.1	0.00	0.00	0.00
20,300.0	90.00	359.59	12,265.0	8,022.6	160.8	8,024.1	0.00	0.00	0.00
20,400.0	90.00	359.59	12,265.0	8,122.6	160.1	8,124.1	0.00	0.00	0.00
20,500.0	90.00	359.59	12,265.0	8,222.6	159.4	8,224.0	0.00	0.00	0.00
20,600.0	90.00	359.59	12,265.0	8,322.6	158.7	8,324.0	0.00	0.00	0.00
20,700.0	90.00	359.59	12,265.0	8,422.6	157.9	8,424.0	0.00	0.00	0.00
20,800.0	90.00	359.59	12,265.0	8,522.6	157.2	8,524.0	0.00	0.00	0.00
20,900.0	90.00	359.59	12,265.0	8,622.6	156.5	8,623.9	0.00	0.00	0.00
21,000.0	90.00	359.59	12,265.0	8,722.6	155.8	8,723.9	0.00	0.00	0.00
21,100.0	90.00	359.59	12,265.0	8,822.6	155.1	8,823.9	0.00	0.00	0.00
21,200.0	90.00	359.59	12,265.0	8,922.6	154.3	8,923.9	0.00	0.00	0.00
21,300.0	90.00	359.59	12,265.0	9,022.6	153.6	9,023.8	0.00	0.00	0.00
21,400.0	90.00	359.59	12,265.0	9,122.6	152.9	9,123.8	0.00	0.00	0.00
21,500.0	90.00	359.59	12,265.0	9,222.6	152.2	9,223.8	0.00	0.00	0.00
21,600.0	90.00	359.59	12,265.0	9,322.6	151.5	9,323.8	0.00	0.00	0.00
21,700.0	90.00	359.59	12,265.0	9,422.6	150.7	9,423.8	0.00	0.00	0.00
21,800.0	90.00	359.59	12,265.0	9,522.6	150.0	9,523.7	0.00	0.00	0.00
21,900.0	90.00	359.59	12,265.0	9,622.6	149.3	9,623.7	0.00	0.00	0.00
22,000.0	90.00	359.59	12,265.0	9,722.6	148.6	9,723.7	0.00	0.00	0.00
22,100.0	90.00	359.59	12,265.0	9,822.6	147.8	9,823.7	0.00	0.00	0.00
22,200.0	90.00	359.59	12,265.0	9,922.5	147.1	9,923.6	0.00	0.00	0.00
22,300.0	90.00	359.59	12,265.0	10,022.5	146.4	10,023.6	0.00	0.00	0.00
22,356.5	90.00	359.59	12,265.0	10,079.0	146.0	10,080.1	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	12,265.0	82.0	220.0	446,746.00	782,725.00	32° 13' 32.774 N	103° 33' 9.812 W
- plan misses target center by 36.0usft at 12368.6usft MD (12231.7 TVD, 95.6 N, 218.0 E)									
PBHL (Neptune 10 St Cr - plan hits target center - Point	0.00	0.00	12,265.0	10,079.0	146.0	456,743.00	782,651.00	32° 15' 11.701 N	103° 33' 9.828 W