

HOBBS OCD
SEP 04 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' @ 3632.0usft 3607.0
Northing 466564.00 Easting 782505.00 Latitude 32° 13' 31.978 N Longitude 103° 33' 12.380 W

SECTION DETAILS

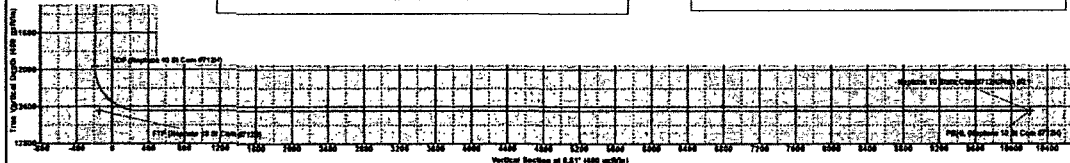
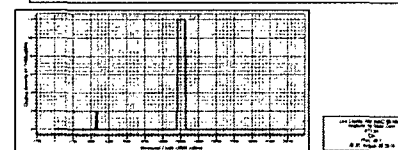
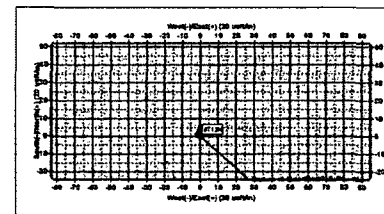
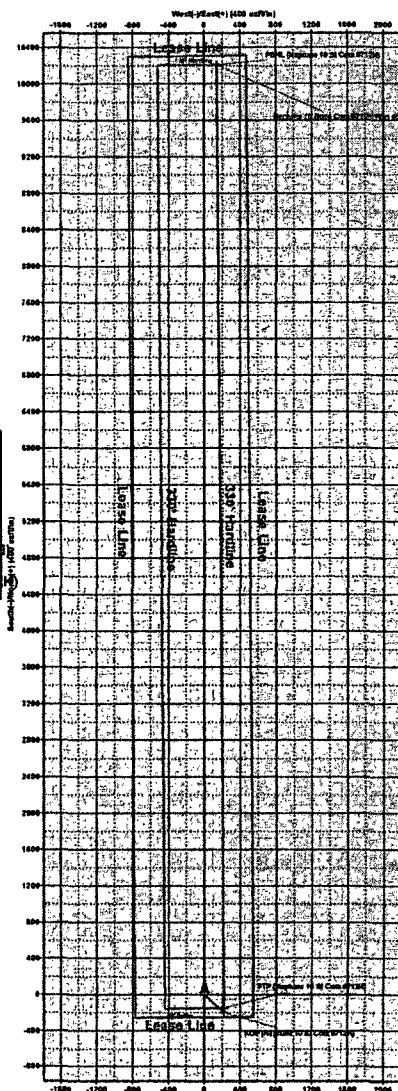
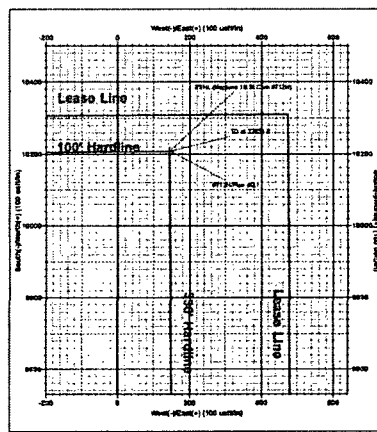
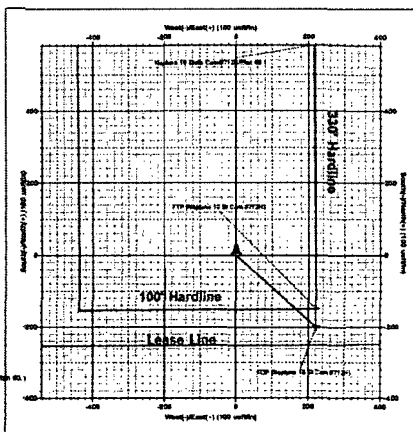
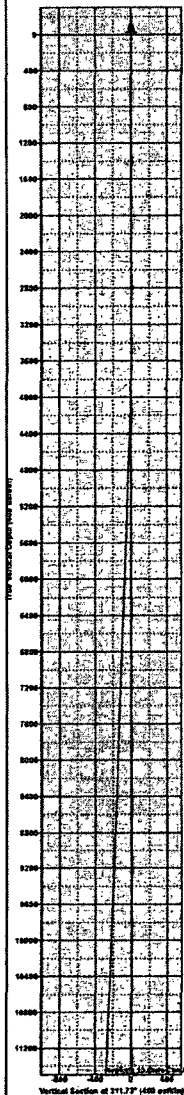
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4108.4	2.17	131.73	4108.4	-1.4	1.5	2.00	131.73	-1.3	
4	11863.7	2.17	131.73	11858.1	-196.6	220.5	0.00	0.00	-193.5	
5	11972.1	0.00	0.00	11966.5	-198.0	222.0	2.00	180.00	-194.8	KOP (Neptune 10 St Com #712H)
6	12722.1	90.00	359.58	12444.0	279.5	218.5	12.00	359.58	282.5	
7	22651.9	90.00	359.58	12444.0	10209.0	145.0	0.00	0.00	10210.0	PBHL (Neptune 10 St Com #712H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Neptune 10 St Com #712H)	11966.5	-198.0	222.0	466564.00	782727.00
FTP (Neptune 10 St Com #712H)	12444.0	-145.0	222.0	466519.00	782727.00
PBHL (Neptune 10 St Com #712H)	12444.0	10209.0	145.0	466979.00	782660.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#712H

OH

Plan: Plan #0.1

Standard Planning Report

30 August, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3632.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3632.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#712H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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

Well	#712H		
Well Position	+N/-S	107.0 usft	Northing:
	+E/-W	3,541.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,607.0 usft

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

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			0.81

Plan Survey Tool Program	Date 8/30/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	22,651.9 Plan #0.1 (OH)	MWD
			OWSG MWD - Standard

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
4,108.4	2.17	131.73	4,108.4	-1.4	1.5	2.00	2.00	0.00	131.73	
11,863.7	2.17	131.73	11,858.1	-196.6	220.5	0.00	0.00	0.00	0.00	
11,972.1	0.00	0.00	11,966.5	-198.0	222.0	2.00	-2.00	0.00	180.00	KOP (Neptune 10 St
12,722.1	90.00	359.58	12,444.0	279.5	218.5	12.00	12.00	-0.06	359.58	
22,651.9	90.00	359.58	12,444.0	10,209.0	145.0	0.00	0.00	0.00	0.00	PBHL (Neptune 10 St



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3632.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3632.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#712H	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)
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
4,108.4	2.17	131.73	4,108.4	-1.4	1.5	-1.3	2.00	2.00	0.00
4,200.0	2.17	131.73	4,199.9	-3.7	4.1	-3.6	0.00	0.00	0.00
4,300.0	2.17	131.73	4,299.8	-6.2	6.9	-6.1	0.00	0.00	0.00
4,400.0	2.17	131.73	4,399.8	-8.7	9.8	-8.6	0.00	0.00	0.00
4,500.0	2.17	131.73	4,499.7	-11.2	12.6	-11.0	0.00	0.00	0.00
4,600.0	2.17	131.73	4,599.6	-13.7	15.4	-13.5	0.00	0.00	0.00
4,700.0	2.17	131.73	4,699.6	-16.3	18.2	-16.0	0.00	0.00	0.00
4,800.0	2.17	131.73	4,799.5	-18.8	21.1	-18.5	0.00	0.00	0.00
4,900.0	2.17	131.73	4,899.4	-21.3	23.9	-21.0	0.00	0.00	0.00
5,000.0	2.17	131.73	4,999.3	-23.8	26.7	-23.4	0.00	0.00	0.00
5,100.0	2.17	131.73	5,099.3	-26.3	29.5	-25.9	0.00	0.00	0.00
5,200.0	2.17	131.73	5,199.2	-28.9	32.3	-28.4	0.00	0.00	0.00
5,300.0	2.17	131.73	5,299.1	-31.4	35.2	-30.9	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3632.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3632.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#712H	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)	
5,400.0	2.17	131.73	5,399.0	-33.9	38.0	-33.3	0.00	0.00	0.00	
5,500.0	2.17	131.73	5,499.0	-36.4	40.8	-35.8	0.00	0.00	0.00	
5,600.0	2.17	131.73	5,598.9	-38.9	43.6	-38.3	0.00	0.00	0.00	
5,700.0	2.17	131.73	5,698.8	-41.4	46.5	-40.8	0.00	0.00	0.00	
5,800.0	2.17	131.73	5,798.8	-44.0	49.3	-43.3	0.00	0.00	0.00	
5,900.0	2.17	131.73	5,898.7	-46.5	52.1	-45.7	0.00	0.00	0.00	
6,000.0	2.17	131.73	5,998.6	-49.0	54.9	-48.2	0.00	0.00	0.00	
6,100.0	2.17	131.73	6,098.5	-51.5	57.8	-50.7	0.00	0.00	0.00	
6,200.0	2.17	131.73	6,198.5	-54.0	60.6	-53.2	0.00	0.00	0.00	
6,300.0	2.17	131.73	6,298.4	-56.5	63.4	-55.6	0.00	0.00	0.00	
6,400.0	2.17	131.73	6,398.3	-59.1	66.2	-58.1	0.00	0.00	0.00	
6,500.0	2.17	131.73	6,498.3	-61.6	69.0	-60.6	0.00	0.00	0.00	
6,600.0	2.17	131.73	6,598.2	-64.1	71.9	-63.1	0.00	0.00	0.00	
6,700.0	2.17	131.73	6,698.1	-66.6	74.7	-65.6	0.00	0.00	0.00	
6,800.0	2.17	131.73	6,798.0	-69.1	77.5	-68.0	0.00	0.00	0.00	
6,900.0	2.17	131.73	6,898.0	-71.7	80.3	-70.5	0.00	0.00	0.00	
7,000.0	2.17	131.73	6,997.9	-74.2	83.2	-73.0	0.00	0.00	0.00	
7,100.0	2.17	131.73	7,097.8	-76.7	86.0	-75.5	0.00	0.00	0.00	
7,200.0	2.17	131.73	7,197.8	-79.2	88.8	-77.9	0.00	0.00	0.00	
7,300.0	2.17	131.73	7,297.7	-81.7	91.6	-80.4	0.00	0.00	0.00	
7,400.0	2.17	131.73	7,397.6	-84.2	94.5	-82.9	0.00	0.00	0.00	
7,500.0	2.17	131.73	7,497.5	-86.8	97.3	-85.4	0.00	0.00	0.00	
7,600.0	2.17	131.73	7,597.5	-89.3	100.1	-87.8	0.00	0.00	0.00	
7,700.0	2.17	131.73	7,697.4	-91.8	102.9	-90.3	0.00	0.00	0.00	
7,800.0	2.17	131.73	7,797.3	-94.3	105.7	-92.8	0.00	0.00	0.00	
7,900.0	2.17	131.73	7,897.3	-96.8	108.6	-95.3	0.00	0.00	0.00	
8,000.0	2.17	131.73	7,997.2	-99.4	111.4	-97.8	0.00	0.00	0.00	
8,100.0	2.17	131.73	8,097.1	-101.9	114.2	-100.2	0.00	0.00	0.00	
8,200.0	2.17	131.73	8,197.0	-104.4	117.0	-102.7	0.00	0.00	0.00	
8,300.0	2.17	131.73	8,297.0	-106.9	119.9	-105.2	0.00	0.00	0.00	
8,400.0	2.17	131.73	8,396.9	-109.4	122.7	-107.7	0.00	0.00	0.00	
8,500.0	2.17	131.73	8,496.8	-111.9	125.5	-110.1	0.00	0.00	0.00	
8,600.0	2.17	131.73	8,596.8	-114.5	128.3	-112.6	0.00	0.00	0.00	
8,700.0	2.17	131.73	8,696.7	-117.0	131.2	-115.1	0.00	0.00	0.00	
8,800.0	2.17	131.73	8,796.6	-119.5	134.0	-117.6	0.00	0.00	0.00	
8,900.0	2.17	131.73	8,896.5	-122.0	136.8	-120.1	0.00	0.00	0.00	
9,000.0	2.17	131.73	8,996.5	-124.5	139.6	-122.5	0.00	0.00	0.00	
9,100.0	2.17	131.73	9,096.4	-127.0	142.4	-125.0	0.00	0.00	0.00	
9,200.0	2.17	131.73	9,196.3	-129.6	145.3	-127.5	0.00	0.00	0.00	
9,300.0	2.17	131.73	9,296.3	-132.1	148.1	-130.0	0.00	0.00	0.00	
9,400.0	2.17	131.73	9,396.2	-134.6	150.9	-132.4	0.00	0.00	0.00	
9,500.0	2.17	131.73	9,496.1	-137.1	153.7	-134.9	0.00	0.00	0.00	
9,600.0	2.17	131.73	9,596.0	-139.6	156.6	-137.4	0.00	0.00	0.00	
9,700.0	2.17	131.73	9,696.0	-142.2	159.4	-139.9	0.00	0.00	0.00	
9,800.0	2.17	131.73	9,795.9	-144.7	162.2	-142.4	0.00	0.00	0.00	
9,900.0	2.17	131.73	9,895.8	-147.2	165.0	-144.8	0.00	0.00	0.00	
10,000.0	2.17	131.73	9,995.8	-149.7	167.9	-147.3	0.00	0.00	0.00	
10,100.0	2.17	131.73	10,095.7	-152.2	170.7	-149.8	0.00	0.00	0.00	
10,200.0	2.17	131.73	10,195.6	-154.7	173.5	-152.3	0.00	0.00	0.00	
10,300.0	2.17	131.73	10,295.5	-157.3	176.3	-154.7	0.00	0.00	0.00	
10,400.0	2.17	131.73	10,395.5	-159.8	179.1	-157.2	0.00	0.00	0.00	
10,500.0	2.17	131.73	10,495.4	-162.3	182.0	-159.7	0.00	0.00	0.00	
10,600.0	2.17	131.73	10,595.3	-164.8	184.8	-162.2	0.00	0.00	0.00	
10,700.0	2.17	131.73	10,695.3	-167.3	187.6	-164.7	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3632.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3632.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#712H	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)	
10,800.0	2.17	131.73	10,795.2	-169.9	190.4	-167.1	0.00	0.00	0.00	
10,900.0	2.17	131.73	10,895.1	-172.4	193.3	-169.6	0.00	0.00	0.00	
11,000.0	2.17	131.73	10,995.0	-174.9	196.1	-172.1	0.00	0.00	0.00	
11,100.0	2.17	131.73	11,095.0	-177.4	198.9	-174.6	0.00	0.00	0.00	
11,200.0	2.17	131.73	11,194.9	-179.9	201.7	-177.0	0.00	0.00	0.00	
11,300.0	2.17	131.73	11,294.8	-182.4	204.6	-179.5	0.00	0.00	0.00	
11,400.0	2.17	131.73	11,394.8	-185.0	207.4	-182.0	0.00	0.00	0.00	
11,500.0	2.17	131.73	11,494.7	-187.5	210.2	-184.5	0.00	0.00	0.00	
11,600.0	2.17	131.73	11,594.6	-190.0	213.0	-187.0	0.00	0.00	0.00	
11,700.0	2.17	131.73	11,694.5	-192.5	215.8	-189.4	0.00	0.00	0.00	
11,800.0	2.17	131.73	11,794.5	-195.0	218.7	-191.9	0.00	0.00	0.00	
11,863.7	2.17	131.73	11,858.1	-196.6	220.5	-193.5	0.00	0.00	0.00	
11,900.0	1.44	131.73	11,894.4	-197.4	221.3	-194.2	2.00	-2.00	0.00	
11,972.1	0.00	0.00	11,966.5	-198.0	222.0	-194.8	2.00	-2.00	0.00	
KOP (Neptune 10 St Com #712H)										
11,975.0	0.35	359.58	11,969.4	-198.0	222.0	-194.8	12.00	12.00	0.00	
12,000.0	3.35	359.58	11,994.4	-197.2	222.0	-194.0	12.00	12.00	0.00	
12,025.0	6.35	359.58	12,019.3	-195.1	222.0	-191.9	12.00	12.00	0.00	
12,050.0	9.35	359.58	12,044.1	-191.7	222.0	-188.5	12.00	12.00	0.00	
12,075.0	12.35	359.58	12,068.6	-187.0	221.9	-183.8	12.00	12.00	0.00	
12,100.0	15.35	359.58	12,092.9	-181.0	221.9	-177.8	12.00	12.00	0.00	
12,125.0	18.35	359.58	12,116.8	-173.7	221.8	-170.6	12.00	12.00	0.00	
12,150.0	21.35	359.58	12,140.3	-165.2	221.8	-162.1	12.00	12.00	0.00	
12,175.0	24.35	359.58	12,163.3	-155.5	221.7	-152.4	12.00	12.00	0.00	
12,200.0	27.35	359.58	12,185.8	-144.6	221.6	-141.5	12.00	12.00	0.00	
12,225.0	30.35	359.58	12,207.7	-132.6	221.5	-129.4	12.00	12.00	0.00	
12,250.0	33.35	359.58	12,229.0	-119.4	221.4	-116.2	12.00	12.00	0.00	
12,275.0	36.35	359.58	12,249.5	-105.1	221.3	-102.0	12.00	12.00	0.00	
12,300.0	39.35	359.58	12,269.2	-89.8	221.2	-86.6	12.00	12.00	0.00	
12,325.0	42.35	359.58	12,288.1	-73.4	221.1	-70.3	12.00	12.00	0.00	
12,350.0	45.35	359.58	12,306.2	-56.1	221.0	-53.0	12.00	12.00	0.00	
12,375.0	48.35	359.58	12,323.3	-37.9	220.8	-34.7	12.00	12.00	0.00	
FTP (Neptune 10 St Com #712H)										
12,400.0	51.35	359.58	12,339.4	-18.8	220.7	-15.6	12.00	12.00	0.00	
12,425.0	54.35	359.58	12,354.5	1.2	220.5	4.3	12.00	12.00	0.00	
12,450.0	57.35	359.58	12,368.5	21.8	220.4	25.0	12.00	12.00	0.00	
12,475.0	60.35	359.58	12,381.4	43.2	220.2	46.4	12.00	12.00	0.00	
12,500.0	63.35	359.58	12,393.2	65.3	220.1	68.4	12.00	12.00	0.00	
12,525.0	66.35	359.58	12,403.9	87.9	219.9	91.0	12.00	12.00	0.00	
12,550.0	69.35	359.58	12,413.3	111.1	219.7	114.2	12.00	12.00	0.00	
12,575.0	72.35	359.58	12,421.5	134.7	219.5	137.8	12.00	12.00	0.00	
12,600.0	75.35	359.58	12,428.4	158.7	219.4	161.8	12.00	12.00	0.00	
12,625.0	78.35	359.58	12,434.1	183.0	219.2	186.1	12.00	12.00	0.00	
12,650.0	81.35	359.58	12,438.5	207.6	219.0	210.7	12.00	12.00	0.00	
12,675.0	84.35	359.58	12,441.6	232.4	218.8	235.5	12.00	12.00	0.00	
12,700.0	87.35	359.58	12,443.5	257.4	218.6	260.4	12.00	12.00	0.00	
12,722.1	90.00	359.58	12,444.0	279.5	218.5	282.5	12.00	12.00	0.00	
12,800.0	90.00	359.58	12,444.0	357.3	217.9	360.4	0.00	0.00	0.00	
12,900.0	90.00	359.58	12,444.0	457.3	217.2	460.4	0.00	0.00	0.00	
13,000.0	90.00	359.58	12,444.0	557.3	216.4	560.4	0.00	0.00	0.00	
13,100.0	90.00	359.58	12,444.0	657.3	215.7	660.3	0.00	0.00	0.00	
13,200.0	90.00	359.58	12,444.0	757.3	214.9	760.3	0.00	0.00	0.00	
13,300.0	90.00	359.58	12,444.0	857.3	214.2	860.3	0.00	0.00	0.00	
13,400.0	90.00	359.58	12,444.0	957.3	213.5	960.3	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3632.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3632.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#712H	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	359.58	12,444.0	1,057.3	212.7	1,060.2	0.00	0.00	0.00
13,600.0	90.00	359.58	12,444.0	1,157.3	212.0	1,160.2	0.00	0.00	0.00
13,700.0	90.00	359.58	12,444.0	1,257.3	211.2	1,260.2	0.00	0.00	0.00
13,800.0	90.00	359.58	12,444.0	1,357.3	210.5	1,360.2	0.00	0.00	0.00
13,900.0	90.00	359.58	12,444.0	1,457.3	209.8	1,460.1	0.00	0.00	0.00
14,000.0	90.00	359.58	12,444.0	1,557.3	209.0	1,560.1	0.00	0.00	0.00
14,100.0	90.00	359.58	12,444.0	1,657.3	208.3	1,660.1	0.00	0.00	0.00
14,200.0	90.00	359.58	12,444.0	1,757.3	207.5	1,760.1	0.00	0.00	0.00
14,300.0	90.00	359.58	12,444.0	1,857.3	206.8	1,860.1	0.00	0.00	0.00
14,400.0	90.00	359.58	12,444.0	1,957.3	206.1	1,960.0	0.00	0.00	0.00
14,500.0	90.00	359.58	12,444.0	2,057.3	205.3	2,060.0	0.00	0.00	0.00
14,600.0	90.00	359.58	12,444.0	2,157.3	204.6	2,160.0	0.00	0.00	0.00
14,700.0	90.00	359.58	12,444.0	2,257.3	203.8	2,260.0	0.00	0.00	0.00
14,800.0	90.00	359.58	12,444.0	2,357.3	203.1	2,359.9	0.00	0.00	0.00
14,900.0	90.00	359.58	12,444.0	2,457.3	202.4	2,459.9	0.00	0.00	0.00
15,000.0	90.00	359.58	12,444.0	2,557.3	201.6	2,559.9	0.00	0.00	0.00
15,100.0	90.00	359.58	12,444.0	2,657.3	200.9	2,659.9	0.00	0.00	0.00
15,200.0	90.00	359.58	12,444.0	2,757.3	200.1	2,759.8	0.00	0.00	0.00
15,300.0	90.00	359.58	12,444.0	2,857.3	199.4	2,859.8	0.00	0.00	0.00
15,400.0	90.00	359.58	12,444.0	2,957.3	198.7	2,959.8	0.00	0.00	0.00
15,500.0	90.00	359.58	12,444.0	3,057.3	197.9	3,059.8	0.00	0.00	0.00
15,600.0	90.00	359.58	12,444.0	3,157.3	197.2	3,159.8	0.00	0.00	0.00
15,700.0	90.00	359.58	12,444.0	3,257.3	196.4	3,259.7	0.00	0.00	0.00
15,800.0	90.00	359.58	12,444.0	3,357.3	195.7	3,359.7	0.00	0.00	0.00
15,900.0	90.00	359.58	12,444.0	3,457.3	195.0	3,459.7	0.00	0.00	0.00
16,000.0	90.00	359.58	12,444.0	3,557.3	194.2	3,559.7	0.00	0.00	0.00
16,100.0	90.00	359.58	12,444.0	3,657.3	193.5	3,659.6	0.00	0.00	0.00
16,200.0	90.00	359.58	12,444.0	3,757.3	192.7	3,759.6	0.00	0.00	0.00
16,300.0	90.00	359.58	12,444.0	3,857.3	192.0	3,859.6	0.00	0.00	0.00
16,400.0	90.00	359.58	12,444.0	3,957.2	191.3	3,959.6	0.00	0.00	0.00
16,500.0	90.00	359.58	12,444.0	4,057.2	190.5	4,059.5	0.00	0.00	0.00
16,600.0	90.00	359.58	12,444.0	4,157.2	189.8	4,159.5	0.00	0.00	0.00
16,700.0	90.00	359.58	12,444.0	4,257.2	189.0	4,259.5	0.00	0.00	0.00
16,800.0	90.00	359.58	12,444.0	4,357.2	188.3	4,359.5	0.00	0.00	0.00
16,900.0	90.00	359.58	12,444.0	4,457.2	187.6	4,459.4	0.00	0.00	0.00
17,000.0	90.00	359.58	12,444.0	4,557.2	186.8	4,559.4	0.00	0.00	0.00
17,100.0	90.00	359.58	12,444.0	4,657.2	186.1	4,659.4	0.00	0.00	0.00
17,200.0	90.00	359.58	12,444.0	4,757.2	185.3	4,759.4	0.00	0.00	0.00
17,300.0	90.00	359.58	12,444.0	4,857.2	184.6	4,859.4	0.00	0.00	0.00
17,400.0	90.00	359.58	12,444.0	4,957.2	183.9	4,959.3	0.00	0.00	0.00
17,500.0	90.00	359.58	12,444.0	5,057.2	183.1	5,059.3	0.00	0.00	0.00
17,600.0	90.00	359.58	12,444.0	5,157.2	182.4	5,159.3	0.00	0.00	0.00
17,700.0	90.00	359.58	12,444.0	5,257.2	181.6	5,259.3	0.00	0.00	0.00
17,800.0	90.00	359.58	12,444.0	5,357.2	180.9	5,359.2	0.00	0.00	0.00
17,900.0	90.00	359.58	12,444.0	5,457.2	180.2	5,459.2	0.00	0.00	0.00
18,000.0	90.00	359.58	12,444.0	5,557.2	179.4	5,559.2	0.00	0.00	0.00
18,100.0	90.00	359.58	12,444.0	5,657.2	178.7	5,659.2	0.00	0.00	0.00
18,200.0	90.00	359.58	12,444.0	5,757.2	177.9	5,759.1	0.00	0.00	0.00
18,300.0	90.00	359.58	12,444.0	5,857.2	177.2	5,859.1	0.00	0.00	0.00
18,400.0	90.00	359.58	12,444.0	5,957.2	176.5	5,959.1	0.00	0.00	0.00
18,500.0	90.00	359.58	12,444.0	6,057.2	175.7	6,059.1	0.00	0.00	0.00
18,600.0	90.00	359.58	12,444.0	6,157.2	175.0	6,159.1	0.00	0.00	0.00
18,700.0	90.00	359.58	12,444.0	6,257.2	174.2	6,259.0	0.00	0.00	0.00
18,800.0	90.00	359.58	12,444.0	6,357.2	173.5	6,359.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3632.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3632.0usft
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#712H	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	359.58	12,444.0	6,457.2	172.8	6,459.0	0.00	0.00	0.00
19,000.0	90.00	359.58	12,444.0	6,557.2	172.0	6,559.0	0.00	0.00	0.00
19,100.0	90.00	359.58	12,444.0	6,657.2	171.3	6,658.9	0.00	0.00	0.00
19,200.0	90.00	359.58	12,444.0	6,757.2	170.5	6,758.9	0.00	0.00	0.00
19,300.0	90.00	359.58	12,444.0	6,857.2	169.8	6,858.9	0.00	0.00	0.00
19,400.0	90.00	359.58	12,444.0	6,957.2	169.1	6,958.9	0.00	0.00	0.00
19,500.0	90.00	359.58	12,444.0	7,057.2	168.3	7,058.8	0.00	0.00	0.00
19,600.0	90.00	359.58	12,444.0	7,157.2	167.6	7,158.8	0.00	0.00	0.00
19,700.0	90.00	359.58	12,444.0	7,257.2	166.8	7,258.8	0.00	0.00	0.00
19,800.0	90.00	359.58	12,444.0	7,357.2	166.1	7,358.8	0.00	0.00	0.00
19,900.0	90.00	359.58	12,444.0	7,457.2	165.4	7,458.7	0.00	0.00	0.00
20,000.0	90.00	359.58	12,444.0	7,557.1	164.6	7,558.7	0.00	0.00	0.00
20,100.0	90.00	359.58	12,444.0	7,657.1	163.9	7,658.7	0.00	0.00	0.00
20,200.0	90.00	359.58	12,444.0	7,757.1	163.1	7,758.7	0.00	0.00	0.00
20,300.0	90.00	359.58	12,444.0	7,857.1	162.4	7,858.7	0.00	0.00	0.00
20,400.0	90.00	359.58	12,444.0	7,957.1	161.7	7,958.6	0.00	0.00	0.00
20,500.0	90.00	359.58	12,444.0	8,057.1	160.9	8,058.6	0.00	0.00	0.00
20,600.0	90.00	359.58	12,444.0	8,157.1	160.2	8,158.6	0.00	0.00	0.00
20,700.0	90.00	359.58	12,444.0	8,257.1	159.4	8,258.6	0.00	0.00	0.00
20,800.0	90.00	359.58	12,444.0	8,357.1	158.7	8,358.5	0.00	0.00	0.00
20,900.0	90.00	359.58	12,444.0	8,457.1	158.0	8,458.5	0.00	0.00	0.00
21,000.0	90.00	359.58	12,444.0	8,557.1	157.2	8,558.5	0.00	0.00	0.00
21,100.0	90.00	359.58	12,444.0	8,657.1	156.5	8,658.5	0.00	0.00	0.00
21,200.0	90.00	359.58	12,444.0	8,757.1	155.7	8,758.4	0.00	0.00	0.00
21,300.0	90.00	359.58	12,444.0	8,857.1	155.0	8,858.4	0.00	0.00	0.00
21,400.0	90.00	359.58	12,444.0	8,957.1	154.3	8,958.4	0.00	0.00	0.00
21,500.0	90.00	359.58	12,444.0	9,057.1	153.5	9,058.4	0.00	0.00	0.00
21,600.0	90.00	359.58	12,444.0	9,157.1	152.8	9,158.4	0.00	0.00	0.00
21,700.0	90.00	359.58	12,444.0	9,257.1	152.0	9,258.3	0.00	0.00	0.00
21,800.0	90.00	359.58	12,444.0	9,357.1	151.3	9,358.3	0.00	0.00	0.00
21,900.0	90.00	359.58	12,444.0	9,457.1	150.6	9,458.3	0.00	0.00	0.00
22,000.0	90.00	359.58	12,444.0	9,557.1	149.8	9,558.3	0.00	0.00	0.00
22,100.0	90.00	359.58	12,444.0	9,657.1	149.1	9,658.2	0.00	0.00	0.00
22,200.0	90.00	359.58	12,444.0	9,757.1	148.3	9,758.2	0.00	0.00	0.00
22,300.0	90.00	359.58	12,444.0	9,857.1	147.6	9,858.2	0.00	0.00	0.00
22,400.0	90.00	359.58	12,444.0	9,957.1	146.9	9,958.2	0.00	0.00	0.00
22,500.0	90.00	359.58	12,444.0	10,057.1	146.1	10,058.1	0.00	0.00	0.00
22,600.0	90.00	359.58	12,444.0	10,157.1	145.4	10,158.1	0.00	0.00	0.00
22,651.9	90.00	359.58	12,444.0	10,209.0	145.0	10,210.0	0.00	0.00	0.00

PBHL (Neptune 10 St Com #712H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3632.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3632.0usft
Site:	Neptune 10 State Com.	North Reference:	Grid
Well:	#712H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
KOP (Neptune 10 St Cor - plan hits target center - Point	0.00	0.00	11,966.5	-198.0	222.0	446,466.00	782,727.00	32° 13' 30.003 N	103° 33' 9.813 W
FTP (Neptune 10 St Cor - plan misses target center by 163.4usft at 12375.0usft MD (12323.3 TVD, -37.9 N, 220.8 E) - Point	0.00	0.00	12,444.0	-148.0	222.0	446,516.00	782,727.00	32° 13' 30.498 N	103° 33' 9.808 W
PBHL (Neptune 10 St Cor - plan hits target center - Point	0.00	0.00	12,444.0	10,209.0	145.0	456,873.00	782,650.00	32° 15' 12.987 N	103° 33' 9.828 W