

HOBBS OCD  
 SEP 04 2018  
 RECEIVED



Lea County, NM (NAD 83 NME)

Neptune 10 State Com #711H

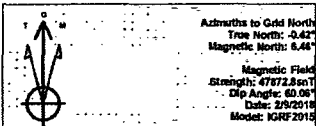
Plan #0.1

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: #711H

KB = 25' @ 3832.0usR 3897.0  
 Northing 446654.00 Easting 782475.00 Latitude 32° 13' 31.930 N Longitude 103° 33' 12.729 W



To convert a Magnetic Direction to a Grid Direction, Add 8.44°  
 To convert a Magnetic Direction to a True Direction, Add 8.87° East  
 To convert a True Direction to a Grid Direction, Subtract 0.42°

SECTION DETAILS

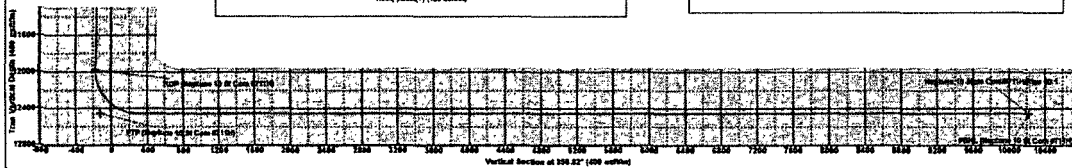
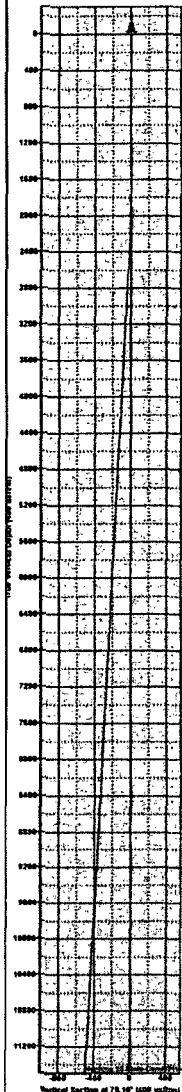
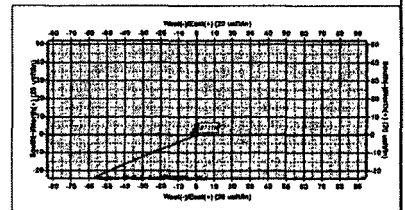
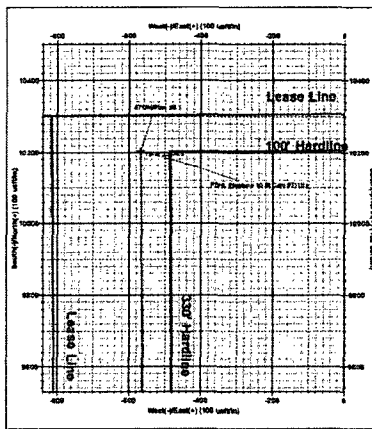
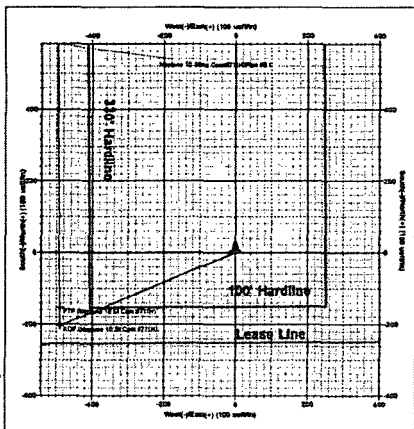
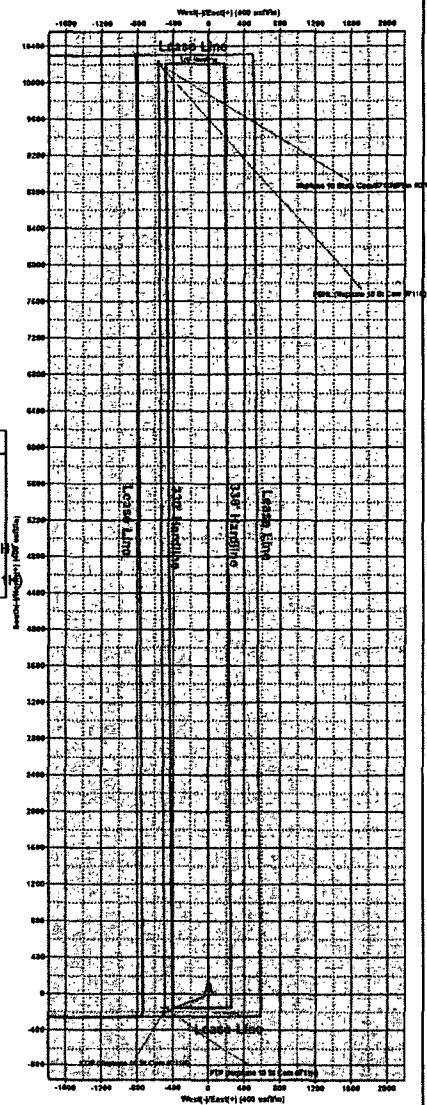
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Tface	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2154.5	3.09	247.50	2154.4	-1.6	-3.8	2.00	247.50	-1.4	
4	11839.2	3.09	247.50	11825.1	-201.4	-486.2	0.00	0.00	-174.1	
5	11993.7	0.00	0.00	11979.5	-203.0	-490.0	2.00	180.00	-175.5	KOP (Neptune 10 St Com #711H)
6	12743.7	90.00	359.58	12457.0	274.5	-493.5	12.00	359.58	301.4	
7	22674.6	90.00	359.58	12457.0	10205.0	-567.0	0.00	0.00	10220.7	PBHL (Neptune 10 St Com #711H)

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 #711H)	11979.5	-203.0	-490.0	446681.00	781955.00
PTP (Neptune 10 St Com #711H)	12457.0	-153.0	-450.0	446511.00	781925.00
PBHL (Neptune 10 St Com #711H)	12457.0	10205.0	-567.0	456283.00	781902.00





## **EOG Resources - Midland**

**Lea County, NM (NAD 83 NME)**

**Neptune 10 State Com**

**#711H**

**OH**

**Plan: Plan #0.1**

## **Standard Planning Report**

**30 August, 2018**



Planning Report

<b>Database:</b>	EDM 5000.14	<b>Local Co-ordinate Reference:</b>	Well #711H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	KB = 25' @ 3632.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB = 25' @ 3632.0usft
<b>Site:</b>	Neptune 10 State Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#711H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1		

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

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

<b>Well</b>	#711H					
<b>Well Position</b>	<b>+N/-S</b>	107.0 usft	<b>Northing:</b>	446,664.00 usft	<b>Latitude:</b>	32° 13' 31.980 N
	<b>+E/-W</b>	3,511.0 usft	<b>Easting:</b>	782,475.00 usft	<b>Longitude:</b>	103° 33' 12.729 W
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	3,607.0 usft	

<b>Wellbore</b>	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/9/2018	6.87	60.06	47,872.83612241

<b>Design</b>	Plan #0.1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	356.82

<b>Plan Survey Tool Program</b>	Date 8/30/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,674.6 Plan #0.1 (OH)	MWD	OWSG MWD - Standard

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	
2,154.5	3.09	247.50	2,154.4	-1.6	-3.8	2.00	2.00	0.00	247.50	
11,839.2	3.09	247.50	11,825.1	-201.4	-486.2	0.00	0.00	0.00	0.00	
11,993.7	0.00	0.00	11,979.5	-203.0	-490.0	2.00	-2.00	0.00	180.00	KOP (Neptune 10 St
12,743.7	90.00	359.58	12,457.0	274.5	-493.5	12.00	12.00	-0.06	359.58	
22,674.6	90.00	359.58	12,457.0	10,205.0	-567.0	0.00	0.00	0.00	0.00	PBHL (Neptune 10 St



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #711H
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:	#711H	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	2.00	247.50	2,100.0	-0.7	-1.6	-0.6	2.00	2.00	0.00	
2,154.5	3.09	247.50	2,154.4	-1.6	-3.8	-1.4	2.00	2.00	0.00	
2,200.0	3.09	247.50	2,199.9	-2.5	-6.1	-2.2	0.00	0.00	0.00	
2,300.0	3.09	247.50	2,299.7	-4.6	-11.1	-4.0	0.00	0.00	0.00	
2,400.0	3.09	247.50	2,399.6	-6.7	-16.1	-5.8	0.00	0.00	0.00	
2,500.0	3.09	247.50	2,499.4	-8.7	-21.1	-7.5	0.00	0.00	0.00	
2,600.0	3.09	247.50	2,599.3	-10.8	-26.0	-9.3	0.00	0.00	0.00	
2,700.0	3.09	247.50	2,699.1	-12.8	-31.0	-11.1	0.00	0.00	0.00	
2,800.0	3.09	247.50	2,799.0	-14.9	-36.0	-12.9	0.00	0.00	0.00	
2,900.0	3.09	247.50	2,898.8	-17.0	-41.0	-14.7	0.00	0.00	0.00	
3,000.0	3.09	247.50	2,998.7	-19.0	-46.0	-16.5	0.00	0.00	0.00	
3,100.0	3.09	247.50	3,098.6	-21.1	-50.9	-18.2	0.00	0.00	0.00	
3,200.0	3.09	247.50	3,198.4	-23.2	-55.9	-20.0	0.00	0.00	0.00	
3,300.0	3.09	247.50	3,298.3	-25.2	-60.9	-21.8	0.00	0.00	0.00	
3,400.0	3.09	247.50	3,398.1	-27.3	-65.9	-23.6	0.00	0.00	0.00	
3,500.0	3.09	247.50	3,498.0	-29.4	-70.9	-25.4	0.00	0.00	0.00	
3,600.0	3.09	247.50	3,597.8	-31.4	-75.8	-27.2	0.00	0.00	0.00	
3,700.0	3.09	247.50	3,697.7	-33.5	-80.8	-28.9	0.00	0.00	0.00	
3,800.0	3.09	247.50	3,797.5	-35.5	-85.8	-30.7	0.00	0.00	0.00	
3,900.0	3.09	247.50	3,897.4	-37.6	-90.8	-32.5	0.00	0.00	0.00	
4,000.0	3.09	247.50	3,997.2	-39.7	-95.8	-34.3	0.00	0.00	0.00	
4,100.0	3.09	247.50	4,097.1	-41.7	-100.7	-36.1	0.00	0.00	0.00	
4,200.0	3.09	247.50	4,197.0	-43.8	-105.7	-37.9	0.00	0.00	0.00	
4,300.0	3.09	247.50	4,296.8	-45.9	-110.7	-39.6	0.00	0.00	0.00	
4,400.0	3.09	247.50	4,396.7	-47.9	-115.7	-41.4	0.00	0.00	0.00	
4,500.0	3.09	247.50	4,496.5	-50.0	-120.7	-43.2	0.00	0.00	0.00	
4,600.0	3.09	247.50	4,596.4	-52.0	-125.6	-45.0	0.00	0.00	0.00	
4,700.0	3.09	247.50	4,696.2	-54.1	-130.6	-46.8	0.00	0.00	0.00	
4,800.0	3.09	247.50	4,796.1	-56.2	-135.6	-48.6	0.00	0.00	0.00	
4,900.0	3.09	247.50	4,895.9	-58.2	-140.6	-50.4	0.00	0.00	0.00	
5,000.0	3.09	247.50	4,995.8	-60.3	-145.6	-52.1	0.00	0.00	0.00	
5,100.0	3.09	247.50	5,095.6	-62.4	-150.5	-53.9	0.00	0.00	0.00	
5,200.0	3.09	247.50	5,195.5	-64.4	-155.5	-55.7	0.00	0.00	0.00	



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Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#711H	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)	
5,300.0	3.09	247.50	5,295.4	-66.5	-160.5	-57.5	0.00	0.00	0.00	
5,400.0	3.09	247.50	5,395.2	-68.6	-165.5	-59.3	0.00	0.00	0.00	
5,500.0	3.09	247.50	5,495.1	-70.6	-170.5	-61.1	0.00	0.00	0.00	
5,600.0	3.09	247.50	5,594.9	-72.7	-175.4	-62.8	0.00	0.00	0.00	
5,700.0	3.09	247.50	5,694.8	-74.7	-180.4	-64.6	0.00	0.00	0.00	
5,800.0	3.09	247.50	5,794.6	-76.8	-185.4	-66.4	0.00	0.00	0.00	
5,900.0	3.09	247.50	5,894.5	-78.9	-190.4	-68.2	0.00	0.00	0.00	
6,000.0	3.09	247.50	5,994.3	-80.9	-195.4	-70.0	0.00	0.00	0.00	
6,100.0	3.09	247.50	6,094.2	-83.0	-200.3	-71.8	0.00	0.00	0.00	
6,200.0	3.09	247.50	6,194.0	-85.1	-205.3	-73.5	0.00	0.00	0.00	
6,300.0	3.09	247.50	6,293.9	-87.1	-210.3	-75.3	0.00	0.00	0.00	
6,400.0	3.09	247.50	6,393.8	-89.2	-215.3	-77.1	0.00	0.00	0.00	
6,500.0	3.09	247.50	6,493.6	-91.2	-220.3	-78.9	0.00	0.00	0.00	
6,600.0	3.09	247.50	6,593.5	-93.3	-225.2	-80.7	0.00	0.00	0.00	
6,700.0	3.09	247.50	6,693.3	-95.4	-230.2	-82.5	0.00	0.00	0.00	
6,800.0	3.09	247.50	6,793.2	-97.4	-235.2	-84.2	0.00	0.00	0.00	
6,900.0	3.09	247.50	6,893.0	-99.5	-240.2	-86.0	0.00	0.00	0.00	
7,000.0	3.09	247.50	6,992.9	-101.6	-245.2	-87.8	0.00	0.00	0.00	
7,100.0	3.09	247.50	7,092.7	-103.6	-250.1	-89.6	0.00	0.00	0.00	
7,200.0	3.09	247.50	7,192.6	-105.7	-255.1	-91.4	0.00	0.00	0.00	
7,300.0	3.09	247.50	7,292.4	-107.8	-260.1	-93.2	0.00	0.00	0.00	
7,400.0	3.09	247.50	7,392.3	-109.8	-265.1	-94.9	0.00	0.00	0.00	
7,500.0	3.09	247.50	7,492.2	-111.9	-270.1	-96.7	0.00	0.00	0.00	
7,600.0	3.09	247.50	7,592.0	-113.9	-275.0	-98.5	0.00	0.00	0.00	
7,700.0	3.09	247.50	7,691.9	-116.0	-280.0	-100.3	0.00	0.00	0.00	
7,800.0	3.09	247.50	7,791.7	-118.1	-285.0	-102.1	0.00	0.00	0.00	
7,900.0	3.09	247.50	7,891.6	-120.1	-290.0	-103.9	0.00	0.00	0.00	
8,000.0	3.09	247.50	7,991.4	-122.2	-295.0	-105.6	0.00	0.00	0.00	
8,100.0	3.09	247.50	8,091.3	-124.3	-299.9	-107.4	0.00	0.00	0.00	
8,200.0	3.09	247.50	8,191.1	-126.3	-304.9	-109.2	0.00	0.00	0.00	
8,300.0	3.09	247.50	8,291.0	-128.4	-309.9	-111.0	0.00	0.00	0.00	
8,400.0	3.09	247.50	8,390.8	-130.4	-314.9	-112.8	0.00	0.00	0.00	
8,500.0	3.09	247.50	8,490.7	-132.5	-319.9	-114.6	0.00	0.00	0.00	
8,600.0	3.09	247.50	8,590.6	-134.6	-324.8	-116.3	0.00	0.00	0.00	
8,700.0	3.09	247.50	8,690.4	-136.6	-329.8	-118.1	0.00	0.00	0.00	
8,800.0	3.09	247.50	8,790.3	-138.7	-334.8	-119.9	0.00	0.00	0.00	
8,900.0	3.09	247.50	8,890.1	-140.8	-339.8	-121.7	0.00	0.00	0.00	
9,000.0	3.09	247.50	8,990.0	-142.8	-344.8	-123.5	0.00	0.00	0.00	
9,100.0	3.09	247.50	9,089.8	-144.9	-349.7	-125.3	0.00	0.00	0.00	
9,200.0	3.09	247.50	9,189.7	-147.0	-354.7	-127.0	0.00	0.00	0.00	
9,300.0	3.09	247.50	9,289.5	-149.0	-359.7	-128.8	0.00	0.00	0.00	
9,400.0	3.09	247.50	9,389.4	-151.1	-364.7	-130.6	0.00	0.00	0.00	
9,500.0	3.09	247.50	9,489.2	-153.1	-369.7	-132.4	0.00	0.00	0.00	
9,600.0	3.09	247.50	9,589.1	-155.2	-374.6	-134.2	0.00	0.00	0.00	
9,700.0	3.09	247.50	9,689.0	-157.3	-379.6	-136.0	0.00	0.00	0.00	
9,800.0	3.09	247.50	9,788.8	-159.3	-384.6	-137.8	0.00	0.00	0.00	
9,900.0	3.09	247.50	9,888.7	-161.4	-389.6	-139.5	0.00	0.00	0.00	
10,000.0	3.09	247.50	9,988.5	-163.5	-394.6	-141.3	0.00	0.00	0.00	
10,100.0	3.09	247.50	10,088.4	-165.5	-399.5	-143.1	0.00	0.00	0.00	
10,200.0	3.09	247.50	10,188.2	-167.6	-404.5	-144.9	0.00	0.00	0.00	
10,300.0	3.09	247.50	10,288.1	-169.6	-409.5	-146.7	0.00	0.00	0.00	
10,400.0	3.09	247.50	10,387.9	-171.7	-414.5	-148.5	0.00	0.00	0.00	
10,500.0	3.09	247.50	10,487.8	-173.8	-419.5	-150.2	0.00	0.00	0.00	
10,600.0	3.09	247.50	10,587.6	-175.8	-424.4	-152.0	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #711H
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:	#711H	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)	
10,700.0	3.09	247.50	10,687.5	-177.9	-429.4	-153.8	0.00	0.00	0.00	
10,800.0	3.09	247.50	10,787.4	-180.0	-434.4	-155.6	0.00	0.00	0.00	
10,900.0	3.09	247.50	10,887.2	-182.0	-439.4	-157.4	0.00	0.00	0.00	
11,000.0	3.09	247.50	10,987.1	-184.1	-444.4	-159.2	0.00	0.00	0.00	
11,100.0	3.09	247.50	11,086.9	-186.2	-449.3	-160.9	0.00	0.00	0.00	
11,200.0	3.09	247.50	11,186.8	-188.2	-454.3	-162.7	0.00	0.00	0.00	
11,300.0	3.09	247.50	11,286.6	-190.3	-459.3	-164.5	0.00	0.00	0.00	
11,400.0	3.09	247.50	11,386.5	-192.3	-464.3	-166.3	0.00	0.00	0.00	
11,500.0	3.09	247.50	11,486.3	-194.4	-469.3	-168.1	0.00	0.00	0.00	
11,600.0	3.09	247.50	11,586.2	-196.5	-474.2	-169.9	0.00	0.00	0.00	
11,700.0	3.09	247.50	11,686.0	-198.5	-479.2	-171.6	0.00	0.00	0.00	
11,800.0	3.09	247.50	11,785.9	-200.6	-484.2	-173.4	0.00	0.00	0.00	
11,839.2	3.09	247.50	11,825.1	-201.4	-486.2	-174.1	0.00	0.00	0.00	
11,900.0	1.87	247.50	11,885.8	-202.4	-488.6	-175.0	2.00	-2.00	0.00	
11,993.7	0.00	0.00	11,979.5	-203.0	-490.0	-175.5	2.00	-2.00	0.00	
<b>KOP (Neptune 10 St Com #711H)</b>										
12,000.0	0.75	359.58	11,985.8	-203.0	-490.0	-175.5	12.00	12.00	0.00	
12,025.0	3.75	359.58	12,010.7	-202.0	-490.0	-174.5	12.00	12.00	0.00	
12,050.0	6.75	359.58	12,035.6	-199.7	-490.0	-172.2	12.00	12.00	0.00	
12,075.0	9.75	359.58	12,060.4	-196.1	-490.1	-168.6	12.00	12.00	0.00	
12,100.0	12.75	359.58	12,084.9	-191.2	-490.1	-163.7	12.00	12.00	0.00	
12,125.0	15.75	359.58	12,109.1	-185.1	-490.1	-157.6	12.00	12.00	0.00	
12,150.0	18.75	359.58	12,133.0	-177.7	-490.2	-150.2	12.00	12.00	0.00	
12,175.0	21.75	359.58	12,156.4	-169.0	-490.3	-141.5	12.00	12.00	0.00	
12,200.0	24.75	359.58	12,179.4	-159.1	-490.3	-131.7	12.00	12.00	0.00	
12,225.0	27.75	359.58	12,201.8	-148.1	-490.4	-120.6	12.00	12.00	0.00	
12,250.0	30.75	359.58	12,223.6	-135.9	-490.5	-108.4	12.00	12.00	0.00	
12,275.0	33.75	359.58	12,244.8	-122.5	-490.6	-95.1	12.00	12.00	0.00	
12,300.0	36.75	359.58	12,265.2	-108.1	-490.7	-80.7	12.00	12.00	0.00	
12,325.0	39.75	359.58	12,284.8	-92.6	-490.8	-65.2	12.00	12.00	0.00	
12,350.0	42.75	359.58	12,303.6	-76.1	-490.9	-48.8	12.00	12.00	0.00	
12,375.0	45.75	359.58	12,321.5	-58.7	-491.1	-31.4	12.00	12.00	0.00	
12,397.7	48.48	359.58	12,337.0	-42.1	-491.2	-14.7	12.00	12.00	0.00	
<b>FTP (Neptune 10 St Com #711H)</b>										
12,400.0	48.75	359.58	12,338.5	-40.3	-491.2	-13.0	12.00	12.00	0.00	
12,425.0	51.75	359.58	12,354.5	-21.1	-491.3	6.2	12.00	12.00	0.00	
12,450.0	54.75	359.58	12,369.4	-1.1	-491.5	26.2	12.00	12.00	0.00	
12,475.0	57.75	359.58	12,383.3	19.7	-491.6	46.9	12.00	12.00	0.00	
12,500.0	60.75	359.58	12,396.1	41.2	-491.8	68.4	12.00	12.00	0.00	
12,525.0	63.75	359.58	12,407.7	63.3	-492.0	90.5	12.00	12.00	0.00	
12,550.0	66.75	359.58	12,418.2	86.0	-492.1	113.2	12.00	12.00	0.00	
12,575.0	69.75	359.58	12,427.5	109.2	-492.3	136.4	12.00	12.00	0.00	
12,600.0	72.75	359.58	12,435.5	132.9	-492.5	160.0	12.00	12.00	0.00	
12,625.0	75.75	359.58	12,442.3	156.9	-492.7	184.0	12.00	12.00	0.00	
12,650.0	78.75	359.58	12,447.8	181.3	-492.8	208.4	12.00	12.00	0.00	
12,675.0	81.75	359.58	12,452.0	206.0	-493.0	233.0	12.00	12.00	0.00	
12,700.0	84.75	359.58	12,455.0	230.8	-493.2	257.8	12.00	12.00	0.00	
12,725.0	87.75	359.58	12,456.6	255.7	-493.4	282.7	12.00	12.00	0.00	
12,743.7	90.00	359.58	12,457.0	274.5	-493.5	301.4	12.00	12.00	0.00	
12,800.0	90.00	359.58	12,457.0	330.7	-493.9	357.6	0.00	0.00	0.00	
12,900.0	90.00	359.58	12,457.0	430.7	-494.7	457.5	0.00	0.00	0.00	
13,000.0	90.00	359.58	12,457.0	530.7	-495.4	557.4	0.00	0.00	0.00	
13,100.0	90.00	359.58	12,457.0	630.7	-496.2	657.3	0.00	0.00	0.00	
13,200.0	90.00	359.58	12,457.0	730.7	-496.9	757.1	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #711H
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:	#711H	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)
13,300.0	90.00	359.58	12,457.0	830.7	-497.6	857.0	0.00	0.00	0.00
13,400.0	90.00	359.58	12,457.0	930.7	-498.4	956.9	0.00	0.00	0.00
13,500.0	90.00	359.58	12,457.0	1,030.7	-499.1	1,056.8	0.00	0.00	0.00
13,600.0	90.00	359.58	12,457.0	1,130.7	-499.9	1,156.7	0.00	0.00	0.00
13,700.0	90.00	359.58	12,457.0	1,230.7	-500.6	1,256.6	0.00	0.00	0.00
13,800.0	90.00	359.58	12,457.0	1,330.7	-501.3	1,356.5	0.00	0.00	0.00
13,900.0	90.00	359.58	12,457.0	1,430.7	-502.1	1,456.3	0.00	0.00	0.00
14,000.0	90.00	359.58	12,457.0	1,530.7	-502.8	1,556.2	0.00	0.00	0.00
14,100.0	90.00	359.58	12,457.0	1,630.7	-503.6	1,656.1	0.00	0.00	0.00
14,200.0	90.00	359.58	12,457.0	1,730.7	-504.3	1,756.0	0.00	0.00	0.00
14,300.0	90.00	359.58	12,457.0	1,830.7	-505.0	1,855.9	0.00	0.00	0.00
14,400.0	90.00	359.58	12,457.0	1,930.7	-505.8	1,955.8	0.00	0.00	0.00
14,500.0	90.00	359.58	12,457.0	2,030.7	-506.5	2,055.6	0.00	0.00	0.00
14,600.0	90.00	359.58	12,457.0	2,130.7	-507.3	2,155.5	0.00	0.00	0.00
14,700.0	90.00	359.58	12,457.0	2,230.7	-508.0	2,255.4	0.00	0.00	0.00
14,800.0	90.00	359.58	12,457.0	2,330.7	-508.7	2,355.3	0.00	0.00	0.00
14,900.0	90.00	359.58	12,457.0	2,430.7	-509.5	2,455.2	0.00	0.00	0.00
15,000.0	90.00	359.58	12,457.0	2,530.7	-510.2	2,555.1	0.00	0.00	0.00
15,100.0	90.00	359.58	12,457.0	2,630.7	-511.0	2,655.0	0.00	0.00	0.00
15,200.0	90.00	359.58	12,457.0	2,730.7	-511.7	2,754.8	0.00	0.00	0.00
15,300.0	90.00	359.58	12,457.0	2,830.7	-512.4	2,854.7	0.00	0.00	0.00
15,400.0	90.00	359.58	12,457.0	2,930.6	-513.2	2,954.6	0.00	0.00	0.00
15,500.0	90.00	359.58	12,457.0	3,030.6	-513.9	3,054.5	0.00	0.00	0.00
15,600.0	90.00	359.58	12,457.0	3,130.6	-514.7	3,154.4	0.00	0.00	0.00
15,700.0	90.00	359.58	12,457.0	3,230.6	-515.4	3,254.3	0.00	0.00	0.00
15,800.0	90.00	359.58	12,457.0	3,330.6	-516.1	3,354.1	0.00	0.00	0.00
15,900.0	90.00	359.58	12,457.0	3,430.6	-516.9	3,454.0	0.00	0.00	0.00
16,000.0	90.00	359.58	12,457.0	3,530.6	-517.6	3,553.9	0.00	0.00	0.00
16,100.0	90.00	359.58	12,457.0	3,630.6	-518.4	3,653.8	0.00	0.00	0.00
16,200.0	90.00	359.58	12,457.0	3,730.6	-519.1	3,753.7	0.00	0.00	0.00
16,300.0	90.00	359.58	12,457.0	3,830.6	-519.8	3,853.6	0.00	0.00	0.00
16,400.0	90.00	359.58	12,457.0	3,930.6	-520.6	3,953.4	0.00	0.00	0.00
16,500.0	90.00	359.58	12,457.0	4,030.6	-521.3	4,053.3	0.00	0.00	0.00
16,600.0	90.00	359.58	12,457.0	4,130.6	-522.1	4,153.2	0.00	0.00	0.00
16,700.0	90.00	359.58	12,457.0	4,230.6	-522.8	4,253.1	0.00	0.00	0.00
16,800.0	90.00	359.58	12,457.0	4,330.6	-523.5	4,353.0	0.00	0.00	0.00
16,900.0	90.00	359.58	12,457.0	4,430.6	-524.3	4,452.9	0.00	0.00	0.00
17,000.0	90.00	359.58	12,457.0	4,530.6	-525.0	4,552.8	0.00	0.00	0.00
17,100.0	90.00	359.58	12,457.0	4,630.6	-525.8	4,652.6	0.00	0.00	0.00
17,200.0	90.00	359.58	12,457.0	4,730.6	-526.5	4,752.5	0.00	0.00	0.00
17,300.0	90.00	359.58	12,457.0	4,830.6	-527.2	4,852.4	0.00	0.00	0.00
17,400.0	90.00	359.58	12,457.0	4,930.6	-528.0	4,952.3	0.00	0.00	0.00
17,500.0	90.00	359.58	12,457.0	5,030.6	-528.7	5,052.2	0.00	0.00	0.00
17,600.0	90.00	359.58	12,457.0	5,130.6	-529.5	5,152.1	0.00	0.00	0.00
17,700.0	90.00	359.58	12,457.0	5,230.6	-530.2	5,251.9	0.00	0.00	0.00
17,800.0	90.00	359.58	12,457.0	5,330.6	-530.9	5,351.8	0.00	0.00	0.00
17,900.0	90.00	359.58	12,457.0	5,430.6	-531.7	5,451.7	0.00	0.00	0.00
18,000.0	90.00	359.58	12,457.0	5,530.6	-532.4	5,551.6	0.00	0.00	0.00
18,100.0	90.00	359.58	12,457.0	5,630.6	-533.2	5,651.5	0.00	0.00	0.00
18,200.0	90.00	359.58	12,457.0	5,730.6	-533.9	5,751.4	0.00	0.00	0.00
18,300.0	90.00	359.58	12,457.0	5,830.6	-534.6	5,851.2	0.00	0.00	0.00
18,400.0	90.00	359.58	12,457.0	5,930.6	-535.4	5,951.1	0.00	0.00	0.00
18,500.0	90.00	359.58	12,457.0	6,030.6	-536.1	6,051.0	0.00	0.00	0.00
18,600.0	90.00	359.58	12,457.0	6,130.6	-536.9	6,150.9	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #711H
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:	#711H	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)	
18,700.0	90.00	359.58	12,457.0	6,230.6	-537.6	6,250.8	0.00	0.00	0.00	
18,800.0	90.00	359.58	12,457.0	6,330.6	-538.3	6,350.7	0.00	0.00	0.00	
18,900.0	90.00	359.58	12,457.0	6,430.6	-539.1	6,450.6	0.00	0.00	0.00	
19,000.0	90.00	359.58	12,457.0	6,530.5	-539.8	6,550.4	0.00	0.00	0.00	
19,100.0	90.00	359.58	12,457.0	6,630.5	-540.6	6,650.3	0.00	0.00	0.00	
19,200.0	90.00	359.58	12,457.0	6,730.5	-541.3	6,750.2	0.00	0.00	0.00	
19,300.0	90.00	359.58	12,457.0	6,830.5	-542.0	6,850.1	0.00	0.00	0.00	
19,400.0	90.00	359.58	12,457.0	6,930.5	-542.8	6,950.0	0.00	0.00	0.00	
19,500.0	90.00	359.58	12,457.0	7,030.5	-543.5	7,049.9	0.00	0.00	0.00	
19,600.0	90.00	359.58	12,457.0	7,130.5	-544.3	7,149.7	0.00	0.00	0.00	
19,700.0	90.00	359.58	12,457.0	7,230.5	-545.0	7,249.6	0.00	0.00	0.00	
19,800.0	90.00	359.58	12,457.0	7,330.5	-545.7	7,349.5	0.00	0.00	0.00	
19,900.0	90.00	359.58	12,457.0	7,430.5	-546.5	7,449.4	0.00	0.00	0.00	
20,000.0	90.00	359.58	12,457.0	7,530.5	-547.2	7,549.3	0.00	0.00	0.00	
20,100.0	90.00	359.58	12,457.0	7,630.5	-548.0	7,649.2	0.00	0.00	0.00	
20,200.0	90.00	359.58	12,457.0	7,730.5	-548.7	7,749.1	0.00	0.00	0.00	
20,300.0	90.00	359.58	12,457.0	7,830.5	-549.4	7,848.9	0.00	0.00	0.00	
20,400.0	90.00	359.58	12,457.0	7,930.5	-550.2	7,948.8	0.00	0.00	0.00	
20,500.0	90.00	359.58	12,457.0	8,030.5	-550.9	8,048.7	0.00	0.00	0.00	
20,600.0	90.00	359.58	12,457.0	8,130.5	-551.7	8,148.6	0.00	0.00	0.00	
20,700.0	90.00	359.58	12,457.0	8,230.5	-552.4	8,248.5	0.00	0.00	0.00	
20,800.0	90.00	359.58	12,457.0	8,330.5	-553.1	8,348.4	0.00	0.00	0.00	
20,900.0	90.00	359.58	12,457.0	8,430.5	-553.9	8,448.2	0.00	0.00	0.00	
21,000.0	90.00	359.58	12,457.0	8,530.5	-554.6	8,548.1	0.00	0.00	0.00	
21,100.0	90.00	359.58	12,457.0	8,630.5	-555.4	8,648.0	0.00	0.00	0.00	
21,200.0	90.00	359.58	12,457.0	8,730.5	-556.1	8,747.9	0.00	0.00	0.00	
21,300.0	90.00	359.58	12,457.0	8,830.5	-556.8	8,847.8	0.00	0.00	0.00	
21,400.0	90.00	359.58	12,457.0	8,930.5	-557.6	8,947.7	0.00	0.00	0.00	
21,500.0	90.00	359.58	12,457.0	9,030.5	-558.3	9,047.5	0.00	0.00	0.00	
21,600.0	90.00	359.58	12,457.0	9,130.5	-559.1	9,147.4	0.00	0.00	0.00	
21,700.0	90.00	359.58	12,457.0	9,230.5	-559.8	9,247.3	0.00	0.00	0.00	
21,800.0	90.00	359.58	12,457.0	9,330.5	-560.5	9,347.2	0.00	0.00	0.00	
21,900.0	90.00	359.58	12,457.0	9,430.5	-561.3	9,447.1	0.00	0.00	0.00	
22,000.0	90.00	359.58	12,457.0	9,530.5	-562.0	9,547.0	0.00	0.00	0.00	
22,100.0	90.00	359.58	12,457.0	9,630.5	-562.7	9,646.9	0.00	0.00	0.00	
22,200.0	90.00	359.58	12,457.0	9,730.5	-563.5	9,746.7	0.00	0.00	0.00	
22,300.0	90.00	359.58	12,457.0	9,830.5	-564.2	9,846.6	0.00	0.00	0.00	
22,400.0	90.00	359.58	12,457.0	9,930.5	-565.0	9,946.5	0.00	0.00	0.00	
22,500.0	90.00	359.58	12,457.0	10,030.5	-565.7	10,046.4	0.00	0.00	0.00	
22,600.0	90.00	359.58	12,457.0	10,130.5	-566.4	10,146.3	0.00	0.00	0.00	
22,674.6	90.00	359.58	12,457.0	10,205.0	-567.0	10,220.7	0.00	0.00	0.00	

PBHL (Neptune 10 St Com #711H)





Planning Report

<b>Database:</b>	EDM 5000.14	<b>Local Co-ordinate Reference:</b>	Well #711H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	KB = 25' @ 3632.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB = 25' @ 3632.0usft
<b>Site:</b>	Neptune 10 State Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#711H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	11,979.5	-203.0	-490.0	446,461.00	781,985.00	32° 13' 30.007 N	103° 33' 18.451 W
PBHL (Neptune 10 St Cor - plan hits target center - Point	0.00	0.00	12,457.0	10,205.0	-567.0	456,869.00	781,908.00	32° 15' 13.001 N	103° 33' 18.469 W
FTP (Neptune 10 St Cor - plan misses target center by 163.4usft at 12397.7usft MD (12337.0 TVD, -42.1 N, -491.2 E) - Point	0.00	0.00	12,457.0	-153.0	-490.0	446,511.00	781,985.00	32° 13' 30.502 N	103° 33' 18.446 W