

MAY 21 2015

Permit Information:

Well Name: Neptune 10 State Com No. 701H

Location:

SL: 250' FSL & 580' FEL, Section 10, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 1380' FEL, Section 10, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1305'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' – 5100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-17,721'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1305'	400	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,100'	800	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
17,721'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 4600')
	400	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1400	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1305'	Fresh - Gel	8.6-8.8	28-34	N/c
1305' – 5,100'	Oil Base	8.7-9.4	58-68	N/c - 6
5,100' – 12,407'	Oil Base	8.7-9.4	58-68	N/c - 6
12,407' – 17,721' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

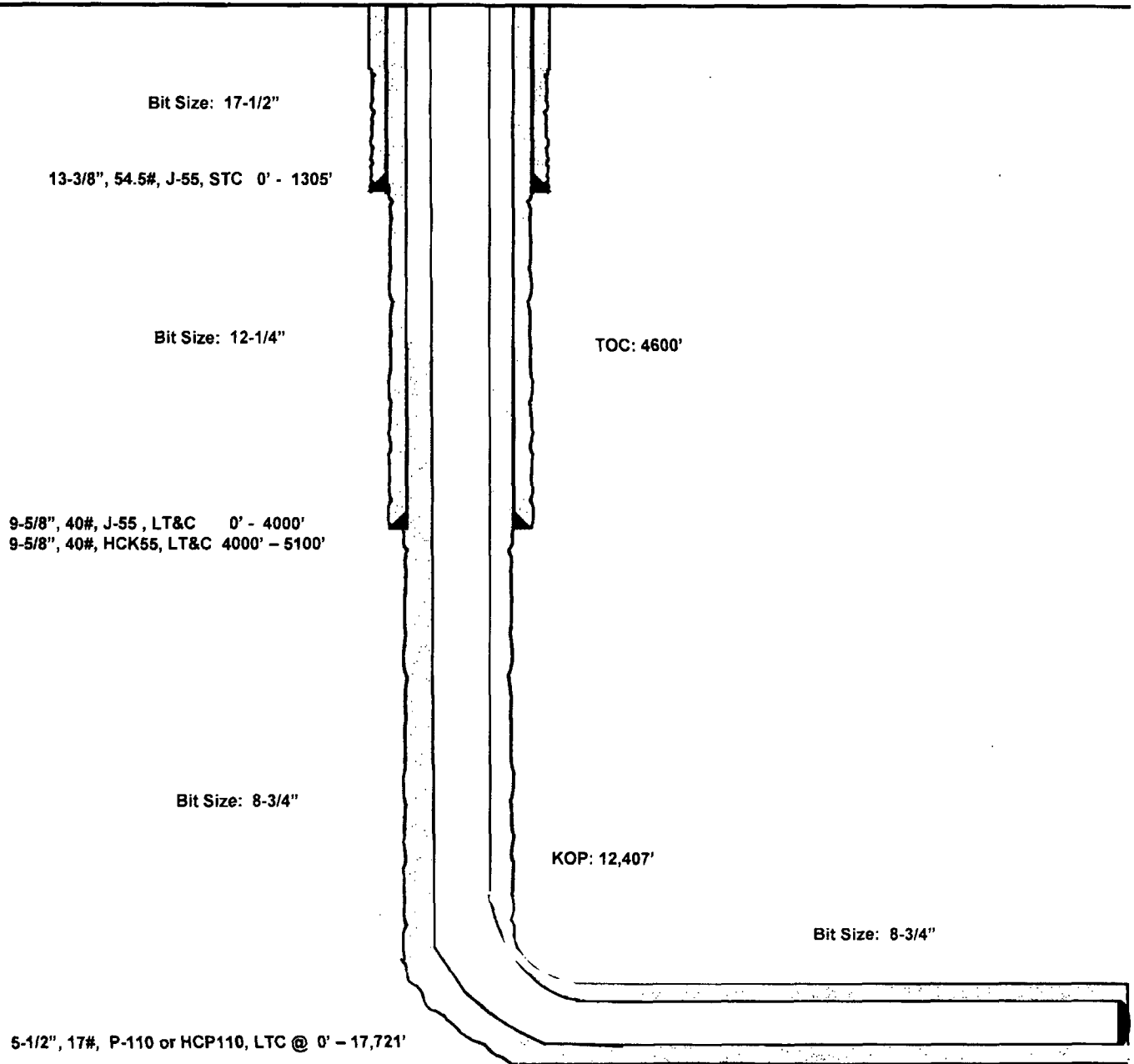
Neptune 10 State Com #701H
Lea County, New Mexico

250' FSL
580' FEL
Section 10
T-24-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3,332'
GL: 3,607'



Lateral: 17,721' MD, 12,950' TVD

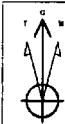
BH Location: 230' FNL & 1380' FEL
Section 10
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)
Neptune 10 State Com #701H
H&P 651
Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.73°
Magnetic Field
Strength: 48134.3nT
Dip Angle: 60.09°
Date: 7/27/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction: Add 6.73°
To convert a Magnetic Direction to a True Direction: Add 7.15° East
To convert a True Direction to a Grid Direction: Subtract 0.42°

WELL DETAILS #701H

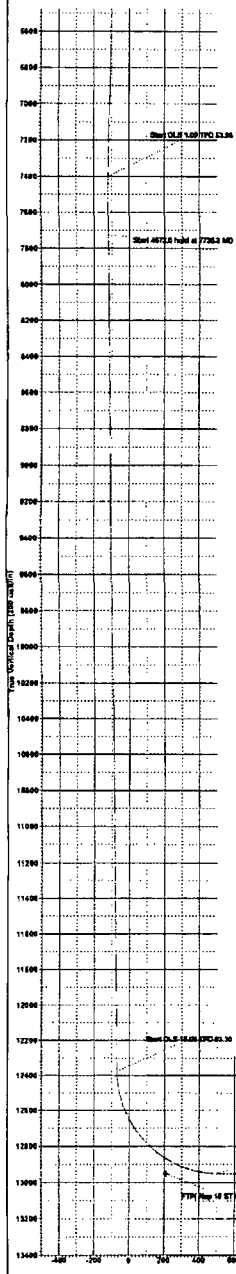
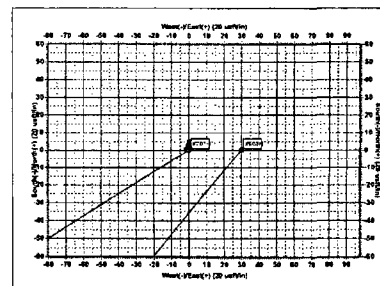
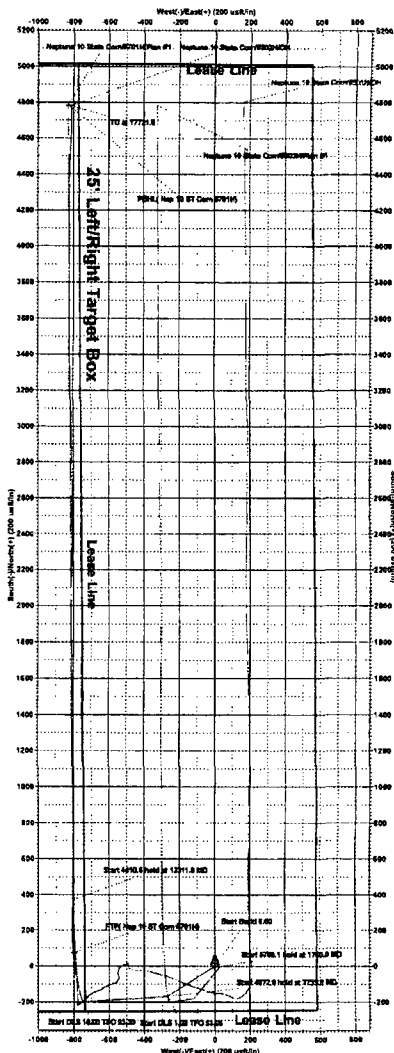
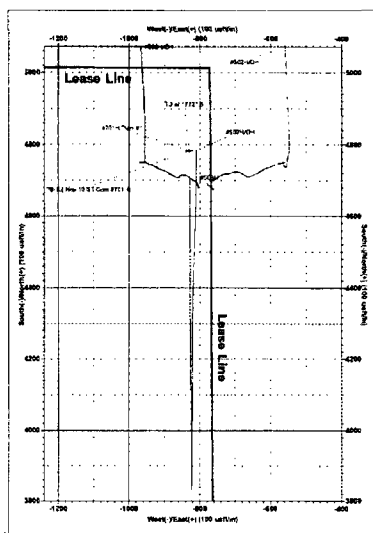
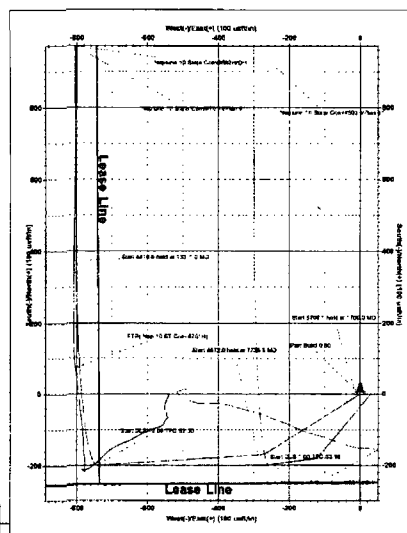
Ground Level: 3607.0
H# + 25 @ 3632 Depth (H&P 651)
Northing: 446605.00
Easting: 741291.00
Longitude: 103° 33' 11.00" W
Spot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1700.0	3.00	238.00	1699.8	-6.9	-11.1	0.60	238.00	-4.9	
4	7408.1	3.00	238.00	7400.0	-165.2	-264.4	0.00	0.00	-117.6	
5	7735.3	5.59	268.31	7726.8	-170.8	-287.7	1.00	53.98	-119.1	
6	12407.8	5.59	268.31	12374.5	-200.1	-742.2	0.00	0.00	-70.3	
7	13311.0	90.00	359.83	12950.0	372.5	-801.9	10.00	93.30	504.1	
8	17721.6	90.00	359.83	12950.0	4783.0	-830.0	0.00	0.00	4854.5	PBHL (Nap 10 ST Com #701H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FTP (Nap 10 ST Com #701H)	12950.0	75.0	-400.0	446605.00	746491.00	Point
PBHL (Nap 10 ST Com #701H)	12950.0	4783.0	-830.0	446605.00	746491.00	Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Neptune 10 State Com

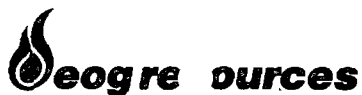
#701H

OH

Plan: Plan #1

Standard Planning Report

19 May, 2015



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Neptune 10 State Com
Well: #701H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3632.0usft (H&P 651)
MD Reference: KB = 25 @ 3632.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Neptune 10 State Com			
Site Position:		Northing:	446,603.00 usft	Latitude: 32° 13' 31.549 N
From:	Map	Easting:	740,781.00 usft	Longitude: 103° 33' 16.943 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.42 "

Well	#701H			
Well Position	+N/-S	2.0 usft	Northing:	446,605.00 usft
	+E/-W	510.0 usft	Easting:	741,291.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,607.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	7/27/2015	(°)	(°)	(nT)
			7.15	60.09	48,134

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	350.16

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	3.00	238.00	1,699.8	-6.9	-11.1	0.60	0.60	0.00	238.00	
7,408.1	3.00	238.00	7,400.0	-165.2	-264.4	0.00	0.00	0.00	0.00	
7,735.8	5.59	266.31	7,726.8	-170.8	-287.7	1.00	0.79	8.64	53.98	
12,407.8	5.59	266.31	12,376.5	-200.1	-742.2	0.00	0.00	0.00	0.00	
13,311.0	90.00	359.63	12,950.0	372.5	-801.9	10.00	9.34	10.33	93.30	
17,721.6	90.00	359.63	12,950.0	4,783.0	-830.0	0.00	0.00	0.00	0.00	PBHL(Nep 10 ST Co



EOG Resources, Inc.

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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	0.60	238.00	1,300.0	-0.3	-0.4	-0.2	0.60	0.60	0.00
1,400.0	1.20	238.00	1,400.0	-1.1	-1.8	-0.8	0.60	0.60	0.00
1,500.0	1.80	238.00	1,500.0	-2.5	-4.0	-1.8	0.60	0.60	0.00
1,600.0	2.40	238.00	1,599.9	-4.4	-7.1	-3.2	0.60	0.60	0.00
1,700.0	3.00	238.00	1,699.8	-6.9	-11.1	-4.9	0.60	0.60	0.00
1,800.0	3.00	238.00	1,799.6	-9.7	-15.5	-6.9	0.00	0.00	0.00
1,900.0	3.00	238.00	1,899.5	-12.5	-20.0	-8.9	0.00	0.00	0.00
2,000.0	3.00	238.00	1,999.4	-15.3	-24.4	-10.9	0.00	0.00	0.00
2,100.0	3.00	238.00	2,099.2	-18.0	-28.9	-12.8	0.00	0.00	0.00
2,200.0	3.00	238.00	2,199.1	-20.8	-33.3	-14.8	0.00	0.00	0.00
2,300.0	3.00	238.00	2,298.9	-23.6	-37.7	-16.8	0.00	0.00	0.00
2,400.0	3.00	238.00	2,398.8	-26.3	-42.2	-18.8	0.00	0.00	0.00
2,500.0	3.00	238.00	2,498.7	-29.1	-46.6	-20.7	0.00	0.00	0.00
2,600.0	3.00	238.00	2,598.5	-31.9	-51.0	-22.7	0.00	0.00	0.00
2,700.0	3.00	238.00	2,698.4	-34.7	-55.5	-24.7	0.00	0.00	0.00
2,800.0	3.00	238.00	2,798.3	-37.4	-59.9	-26.6	0.00	0.00	0.00
2,900.0	3.00	238.00	2,898.1	-40.2	-64.4	-28.6	0.00	0.00	0.00
3,000.0	3.00	238.00	2,998.0	-43.0	-68.8	-30.6	0.00	0.00	0.00
3,100.0	3.00	238.00	3,097.9	-45.8	-73.2	-32.6	0.00	0.00	0.00
3,200.0	3.00	238.00	3,197.7	-48.5	-77.7	-34.5	0.00	0.00	0.00
3,300.0	3.00	238.00	3,297.6	-51.3	-82.1	-36.5	0.00	0.00	0.00
3,400.0	3.00	238.00	3,397.4	-54.1	-86.6	-38.5	0.00	0.00	0.00
3,500.0	3.00	238.00	3,497.3	-56.9	-91.0	-40.5	0.00	0.00	0.00
3,600.0	3.00	238.00	3,597.2	-59.6	-95.4	-42.4	0.00	0.00	0.00
3,700.0	3.00	238.00	3,697.0	-62.4	-99.9	-44.4	0.00	0.00	0.00
3,800.0	3.00	238.00	3,796.9	-65.2	-104.3	-46.4	0.00	0.00	0.00
3,900.0	3.00	238.00	3,896.8	-67.9	-108.7	-48.4	0.00	0.00	0.00
4,000.0	3.00	238.00	3,996.6	-70.7	-113.2	-50.3	0.00	0.00	0.00
4,100.0	3.00	238.00	4,096.5	-73.5	-117.6	-52.3	0.00	0.00	0.00
4,200.0	3.00	238.00	4,196.3	-76.3	-122.1	-54.3	0.00	0.00	0.00
4,300.0	3.00	238.00	4,296.2	-79.0	-126.5	-56.3	0.00	0.00	0.00
4,400.0	3.00	238.00	4,396.1	-81.8	-130.9	-58.2	0.00	0.00	0.00
4,500.0	3.00	238.00	4,495.9	-84.6	-135.4	-60.2	0.00	0.00	0.00
4,600.0	3.00	238.00	4,595.8	-87.4	-139.8	-62.2	0.00	0.00	0.00
4,700.0	3.00	238.00	4,695.7	-90.1	-144.2	-64.1	0.00	0.00	0.00
4,800.0	3.00	238.00	4,795.5	-92.9	-148.7	-66.1	0.00	0.00	0.00
4,900.0	3.00	238.00	4,895.4	-95.7	-153.1	-68.1	0.00	0.00	0.00
5,000.0	3.00	238.00	4,995.2	-98.5	-157.6	-70.1	0.00	0.00	0.00
5,100.0	3.00	238.00	5,095.1	-101.2	-162.0	-72.0	0.00	0.00	0.00
5,200.0	3.00	238.00	5,195.0	-104.0	-166.4	-74.0	0.00	0.00	0.00
5,300.0	3.00	238.00	5,294.8	-106.8	-170.9	-76.0	0.00	0.00	0.00



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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	3.00	238.00	5,394.7	-109.6	-175.3	-78.0	0.00	0.00	0.00
5,500.0	3.00	238.00	5,494.6	-112.3	-179.8	-79.9	0.00	0.00	0.00
5,600.0	3.00	238.00	5,594.4	-115.1	-184.2	-81.9	0.00	0.00	0.00
5,700.0	3.00	238.00	5,694.3	-117.9	-188.6	-83.9	0.00	0.00	0.00
5,800.0	3.00	238.00	5,794.2	-120.6	-193.1	-85.9	0.00	0.00	0.00
5,900.0	3.00	238.00	5,894.0	-123.4	-197.5	-87.8	0.00	0.00	0.00
6,000.0	3.00	238.00	5,993.9	-126.2	-201.9	-89.8	0.00	0.00	0.00
6,100.0	3.00	238.00	6,093.7	-129.0	-206.4	-91.8	0.00	0.00	0.00
6,200.0	3.00	238.00	6,193.6	-131.7	-210.8	-93.8	0.00	0.00	0.00
6,300.0	3.00	238.00	6,293.5	-134.5	-215.3	-95.7	0.00	0.00	0.00
6,400.0	3.00	238.00	6,393.3	-137.3	-219.7	-97.7	0.00	0.00	0.00
6,500.0	3.00	238.00	6,493.2	-140.1	-224.1	-99.7	0.00	0.00	0.00
6,600.0	3.00	238.00	6,593.1	-142.8	-228.6	-101.6	0.00	0.00	0.00
6,700.0	3.00	238.00	6,692.9	-145.6	-233.0	-103.6	0.00	0.00	0.00
6,800.0	3.00	238.00	6,792.8	-148.4	-237.5	-105.6	0.00	0.00	0.00
6,900.0	3.00	238.00	6,892.6	-151.2	-241.9	-107.6	0.00	0.00	0.00
7,000.0	3.00	238.00	6,992.5	-153.9	-246.3	-109.5	0.00	0.00	0.00
7,100.0	3.00	238.00	7,092.4	-156.7	-250.8	-111.5	0.00	0.00	0.00
7,200.0	3.00	238.00	7,192.2	-159.5	-255.2	-113.5	0.00	0.00	0.00
7,300.0	3.00	238.00	7,292.1	-162.2	-259.6	-115.5	0.00	0.00	0.00
7,408.1	3.00	238.00	7,400.0	-165.2	-264.4	-117.6	0.00	0.00	0.00
7,500.0	3.62	249.87	7,491.8	-167.5	-269.2	-119.0	1.00	0.67	12.91
7,600.0	4.41	258.63	7,591.6	-169.4	-275.9	-119.7	1.00	0.79	8.76
7,700.0	5.27	264.62	7,691.2	-170.5	-284.3	-119.4	1.00	0.86	6.00
7,735.8	5.59	266.31	7,726.8	-170.8	-287.7	-119.1	1.00	0.89	4.72
7,800.0	5.59	266.31	7,790.7	-171.2	-293.9	-118.4	0.00	0.00	0.00
7,900.0	5.59	266.31	7,890.3	-171.8	-303.6	-117.4	0.00	0.00	0.00
8,000.0	5.59	266.31	7,989.8	-172.5	-313.4	-116.4	0.00	0.00	0.00
8,100.0	5.59	266.31	8,089.3	-173.1	-323.1	-115.3	0.00	0.00	0.00
8,200.0	5.59	266.31	8,188.8	-173.7	-332.8	-114.3	0.00	0.00	0.00
8,300.0	5.59	266.31	8,288.3	-174.3	-342.6	-113.2	0.00	0.00	0.00
8,400.0	5.59	266.31	8,387.9	-175.0	-352.3	-112.2	0.00	0.00	0.00
8,500.0	5.59	266.31	8,487.4	-175.6	-362.0	-111.1	0.00	0.00	0.00
8,600.0	5.59	266.31	8,586.9	-176.2	-371.7	-110.1	0.00	0.00	0.00
8,700.0	5.59	266.31	8,686.4	-176.9	-381.5	-109.0	0.00	0.00	0.00
8,800.0	5.59	266.31	8,786.0	-177.5	-391.2	-108.0	0.00	0.00	0.00
8,900.0	5.59	266.31	8,885.5	-178.1	-400.9	-106.9	0.00	0.00	0.00
9,000.0	5.59	266.31	8,985.0	-178.7	-410.6	-105.9	0.00	0.00	0.00
9,100.0	5.59	266.31	9,084.5	-179.4	-420.4	-104.8	0.00	0.00	0.00
9,200.0	5.59	266.31	9,184.1	-180.0	-430.1	-103.8	0.00	0.00	0.00
9,300.0	5.59	266.31	9,283.6	-180.6	-439.8	-102.8	0.00	0.00	0.00
9,400.0	5.59	266.31	9,383.1	-181.2	-449.6	-101.7	0.00	0.00	0.00
9,500.0	5.59	266.31	9,482.6	-181.9	-459.3	-100.7	0.00	0.00	0.00
9,600.0	5.59	266.31	9,582.2	-182.5	-469.0	-99.6	0.00	0.00	0.00
9,700.0	5.59	266.31	9,681.7	-183.1	-478.7	-98.6	0.00	0.00	0.00
9,800.0	5.59	266.31	9,781.2	-183.7	-488.5	-97.5	0.00	0.00	0.00
9,900.0	5.59	266.31	9,880.7	-184.4	-498.2	-96.5	0.00	0.00	0.00
10,000.0	5.59	266.31	9,980.2	-185.0	-507.9	-95.4	0.00	0.00	0.00
10,100.0	5.59	266.31	10,079.8	-185.6	-517.7	-94.4	0.00	0.00	0.00
10,200.0	5.59	266.31	10,179.3	-186.3	-527.4	-93.3	0.00	0.00	0.00
10,300.0	5.59	266.31	10,278.8	-186.9	-537.1	-92.3	0.00	0.00	0.00
10,400.0	5.59	266.31	10,378.3	-187.5	-546.8	-91.3	0.00	0.00	0.00
10,500.0	5.59	266.31	10,477.9	-188.1	-556.6	-90.2	0.00	0.00	0.00
10,600.0	5.59	266.31	10,577.4	-188.8	-566.3	-89.2	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Company: EOG Resources - Midland
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Site: Neptune 10 State Com
Well: #701H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3632.0usft (H&P 651)
MD Reference: KB = 25 @ 3632.0usft (H&P 651)
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)
10,700.0	5.59	266.31	10,676.9	-189.4	-576.0	-88.1	0.00	0.00	0.00
10,800.0	5.59	266.31	10,776.4	-190.0	-585.8	-87.1	0.00	0.00	0.00
10,900.0	5.59	266.31	10,876.0	-190.6	-595.5	-86.0	0.00	0.00	0.00
11,000.0	5.59	266.31	10,975.5	-191.3	-605.2	-85.0	0.00	0.00	0.00
11,100.0	5.59	266.31	11,075.0	-191.9	-614.9	-83.9	0.00	0.00	0.00
11,200.0	5.59	266.31	11,174.5	-192.5	-624.7	-82.9	0.00	0.00	0.00
11,300.0	5.59	266.31	11,274.1	-193.1	-634.4	-81.8	0.00	0.00	0.00
11,400.0	5.59	266.31	11,373.6	-193.8	-644.1	-80.8	0.00	0.00	0.00
11,500.0	5.59	266.31	11,473.1	-194.4	-653.9	-79.7	0.00	0.00	0.00
11,600.0	5.59	266.31	11,572.6	-195.0	-663.6	-78.7	0.00	0.00	0.00
11,700.0	5.59	266.31	11,672.2	-195.7	-673.3	-77.7	0.00	0.00	0.00
11,800.0	5.59	266.31	11,771.7	-196.3	-683.0	-76.6	0.00	0.00	0.00
11,900.0	5.59	266.31	11,871.2	-196.9	-692.8	-75.6	0.00	0.00	0.00
12,000.0	5.59	266.31	11,970.7	-197.5	-702.5	-74.5	0.00	0.00	0.00
12,100.0	5.59	266.31	12,070.2	-198.2	-712.2	-73.5	0.00	0.00	0.00
12,200.0	5.59	266.31	12,169.8	-198.8	-722.0	-72.4	0.00	0.00	0.00
12,300.0	5.59	266.31	12,269.3	-199.4	-731.7	-71.4	0.00	0.00	0.00
12,407.8	5.59	266.31	12,376.5	-200.1	-742.2	-70.3	0.00	0.00	0.00
12,450.0	6.81	304.65	12,418.5	-198.8	-746.3	-68.3	10.00	2.87	90.75
12,500.0	10.50	327.78	12,468.0	-193.3	-751.2	-62.0	10.00	7.37	46.26
12,550.0	14.96	338.17	12,516.8	-183.4	-756.0	-51.5	10.00	8.93	20.78
12,600.0	19.68	343.77	12,564.5	-169.3	-760.7	-36.8	10.00	9.44	11.20
12,650.0	24.51	347.25	12,610.8	-151.1	-765.4	-18.0	10.00	9.66	6.96
12,700.0	29.39	349.64	12,655.4	-128.9	-769.9	4.6	10.00	9.76	4.78
12,750.0	34.30	351.39	12,697.8	-102.9	-774.2	31.0	10.00	9.83	3.52
12,800.0	39.24	352.76	12,737.9	-73.3	-778.3	60.9	10.00	9.87	2.73
12,850.0	44.18	353.86	12,775.2	-40.2	-782.2	94.1	10.00	9.89	2.21
12,900.0	49.14	354.78	12,809.5	-4.1	-785.8	130.3	10.00	9.91	1.84
12,950.0	54.10	355.58	12,840.5	35.0	-789.0	169.4	10.00	9.92	1.59
13,000.0	59.06	356.28	12,868.0	76.6	-792.0	210.9	10.00	9.93	1.40
13,038.1	62.85	356.76	12,886.5	109.8	-794.0	244.0	10.00	9.94	1.27
FTP(Nep 10 ST Com #701H)									
13,050.0	64.03	356.91	12,891.9	120.5	-794.6	254.6	10.00	9.94	1.22
13,100.0	69.01	357.48	12,911.8	166.3	-796.8	300.0	10.00	9.94	1.16
13,150.0	73.98	358.03	12,927.6	213.6	-798.7	347.0	10.00	9.95	1.08
13,200.0	78.95	358.54	12,939.3	262.2	-800.1	395.1	10.00	9.95	1.03
13,250.0	83.93	359.04	12,948.8	311.6	-801.2	444.0	10.00	9.95	1.00
13,300.0	88.91	359.53	12,949.9	361.5	-801.8	493.3	10.00	9.95	0.98
13,311.0	90.00	359.63	12,950.0	372.5	-801.9	504.1	10.00	9.95	0.97
13,400.0	90.00	359.63	12,950.0	461.5	-802.5	591.9	0.00	0.00	0.00
13,500.0	90.00	359.63	12,950.0	561.5	-803.1	690.5	0.00	0.00	0.00
13,600.0	90.00	359.63	12,950.0	661.5	-803.7	789.2	0.00	0.00	0.00
13,700.0	90.00	359.63	12,950.0	761.5	-804.4	887.8	0.00	0.00	0.00
13,800.0	90.00	359.63	12,950.0	861.5	-805.0	986.4	0.00	0.00	0.00
13,900.0	90.00	359.63	12,950.0	961.5	-805.6	1,085.1	0.00	0.00	0.00
14,000.0	90.00	359.63	12,950.0	1,061.5	-806.3	1,183.7	0.00	0.00	0.00
14,100.0	90.00	359.63	12,950.0	1,161.5	-806.9	1,282.3	0.00	0.00	0.00
14,200.0	90.00	359.63	12,950.0	1,261.5	-807.6	1,381.0	0.00	0.00	0.00
14,300.0	90.00	359.63	12,950.0	1,361.5	-808.2	1,479.6	0.00	0.00	0.00
14,400.0	90.00	359.63	12,950.0	1,461.5	-808.8	1,578.2	0.00	0.00	0.00
14,500.0	90.00	359.63	12,950.0	1,561.5	-809.5	1,676.9	0.00	0.00	0.00
14,600.0	90.00	359.63	12,950.0	1,661.5	-810.1	1,775.5	0.00	0.00	0.00
14,700.0	90.00	359.63	12,950.0	1,761.5	-810.7	1,874.1	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
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Wellbore: OH
Design: Plan #1

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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)
14,800.0	90.00	359.63	12,950.0	1,861.5	-811.4	1,972.8	0.00	0.00	0.00
14,900.0	90.00	359.63	12,950.0	1,961.5	-812.0	2,071.4	0.00	0.00	0.00
15,000.0	90.00	359.63	12,950.0	2,061.5	-812.7	2,170.0	0.00	0.00	0.00
15,100.0	90.00	359.63	12,950.0	2,161.5	-813.3	2,268.7	0.00	0.00	0.00
15,200.0	90.00	359.63	12,950.0	2,261.5	-813.9	2,367.3	0.00	0.00	0.00
15,300.0	90.00	359.63	12,950.0	2,361.5	-814.6	2,466.0	0.00	0.00	0.00
15,400.0	90.00	359.63	12,950.0	2,461.4	-815.2	2,564.6	0.00	0.00	0.00
15,500.0	90.00	359.63	12,950.0	2,561.4	-815.8	2,663.2	0.00	0.00	0.00
15,600.0	90.00	359.63	12,950.0	2,661.4	-816.5	2,761.9	0.00	0.00	0.00
15,700.0	90.00	359.63	12,950.0	2,761.4	-817.1	2,860.5	0.00	0.00	0.00
15,800.0	90.00	359.63	12,950.0	2,861.4	-817.8	2,959.1	0.00	0.00	0.00
15,900.0	90.00	359.63	12,950.0	2,961.4	-818.4	3,057.8	0.00	0.00	0.00
16,000.0	90.00	359.63	12,950.0	3,061.4	-819.0	3,156.4	0.00	0.00	0.00
16,100.0	90.00	359.63	12,950.0	3,161.4	-819.7	3,255.0	0.00	0.00	0.00
16,200.0	90.00	359.63	12,950.0	3,261.4	-820.3	3,353.7	0.00	0.00	0.00
16,300.0	90.00	359.63	12,950.0	3,361.4	-820.9	3,452.3	0.00	0.00	0.00
16,400.0	90.00	359.63	12,950.0	3,461.4	-821.6	3,550.9	0.00	0.00	0.00
16,500.0	90.00	359.63	12,950.0	3,561.4	-822.2	3,649.6	0.00	0.00	0.00
16,600.0	90.00	359.63	12,950.0	3,661.4	-822.9	3,748.2	0.00	0.00	0.00
16,700.0	90.00	359.63	12,950.0	3,761.4	-823.5	3,846.8	0.00	0.00	0.00
16,800.0	90.00	359.63	12,950.0	3,861.4	-824.1	3,945.5	0.00	0.00	0.00
16,900.0	90.00	359.63	12,950.0	3,961.4	-824.8	4,044.1	0.00	0.00	0.00
17,000.0	90.00	359.63	12,950.0	4,061.4	-825.4	4,142.7	0.00	0.00	0.00
17,100.0	90.00	359.63	12,950.0	4,161.4	-826.0	4,241.4	0.00	0.00	0.00
17,200.0	90.00	359.63	12,950.0	4,261.4	-826.7	4,340.0	0.00	0.00	0.00
17,300.0	90.00	359.63	12,950.0	4,361.4	-827.3	4,438.6	0.00	0.00	0.00
17,400.0	90.00	359.63	12,950.0	4,461.4	-828.0	4,537.3	0.00	0.00	0.00
17,500.0	90.00	359.63	12,950.0	4,561.4	-828.6	4,635.9	0.00	0.00	0.00
17,600.0	90.00	359.63	12,950.0	4,661.4	-829.2	4,734.5	0.00	0.00	0.00
17,700.0	90.00	359.63	12,950.0	4,761.4	-829.9	4,833.2	0.00	0.00	0.00
17,721.6	90.00	359.63	12,950.0	4,783.0	-830.0	4,854.5	0.00	0.00	0.00

PBHL(Nep 10 ST Com #701H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(Nep 10 ST Com #701H)	0.00	0.01	12,950.0	75.0	-800.0	448,680.00	740,491.00	32° 13' 32.332 N	103° 33' 20.313 W
- hit/miss target									
- Shape									
- plan misses target center by 72.6usft at 13038.1usft MD (12886.5 TVD, 109.8 N, -794.0 E)									
- Point									
PBHL(Nep 10 ST Com #701H)	0.00	0.01	12,950.0	4,783.0	-830.0	451,368.00	740,461.00	32° 14' 18.922 N	103° 33' 20.265 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

EOG RESOURCES, INC.
NEPTUNE 10 STATE COM #701H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator

- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

EOG RESOURCES, INC.
NEPTUNE 10 STATE COM #701H

- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

EOG RESOURCES, INC.
NEPTUNE 10 STATE COM #701H

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department (575) 396-3611

Rod Coffman

Fire Department:

Carlsbad (575) 885-3125

Artesia (575) 746-5050

Hospitals:

Carlsbad (575) 887-4121

Artesia (575) 748-3333

Hobbs (575) 392-1979

Dept. of Public Safety/Carlsbad (575) 748-9718

Highway Department (575) 885-3281

New Mexico Oil Conservation (575) 476-3440

U.S. Dept. of Labor (575) 887-1174

EOG Resources, Inc.

EOG / Midland Office (432) 686-3600

Company Drilling Consultants:

Jett Dueitt Cell (432) 230-4840

Blake Burney

Drilling Engineer

Robert Brosig Office (432) 686-3737

Cell (432) 770-0705

Drilling Manager

Heath Work Office (432) 686-6716

Cell (903) 780-1179

Drilling Superintendent

Jason Richey Office (432) 686-3665

Cell (817) 879-6521

H&P Drilling

H&P Drilling Office (432) 563-5757

H&P 415 Drilling Rig Rig (432) 230-4840

Tool Pusher:

Johnathan Craig Cell (817) 760-6374

Brad Garrett

Safety

Reggie Phillips (HSE Manager) Office (432) 686-3747

Cell (432) 250-7507