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1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43454	² Pool Code 96674	³ Pool Name Triple X; Bone Spring, West
⁴ Property Code 313956	⁵ Property Name NEPTUNE 10 STATE COM	⁶ Well Number 503H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3609'

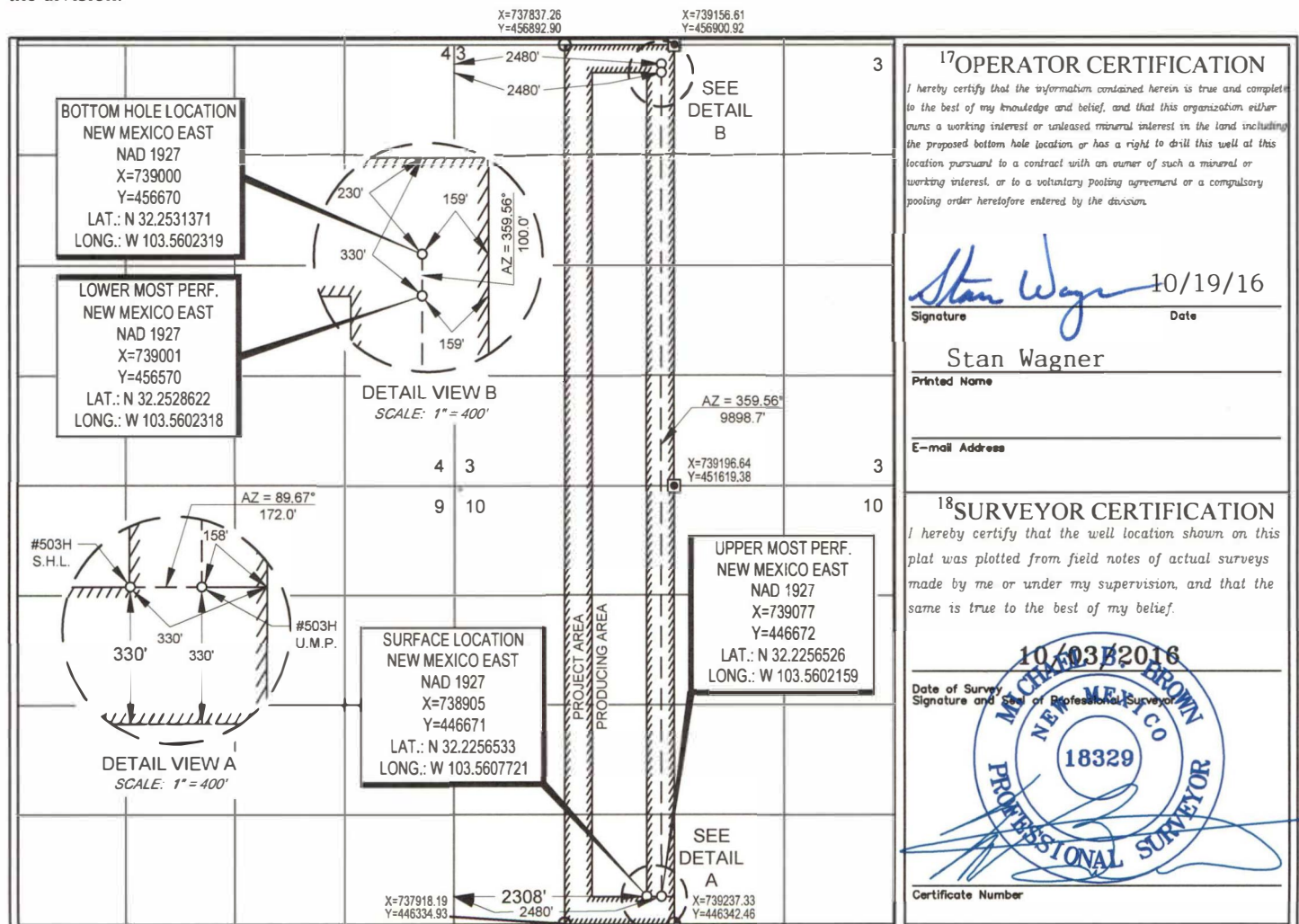
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	24-S	33-E	-	330'	SOUTH	2308'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	3	24-S	33-E	-	230'	NORTH	2480'	WEST	LEA

¹² Dedicated Acres 320.10	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Permit Information:

Well Name: Neptune 10 State No. 503H

Location:

SL: 330' FSL & 2308' FWL, Section 10, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 2480' FWL, Section 3, 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 – 1,280'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000'-5,200'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0' – 21,217	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
1,280'	600	13.5	1.75	Class C + 2% CaCl ₂ + 4% Gel + 0.25 pps Celloflake
	300	14.8	1.34	Class C + 2% CaCl ₂
5,200'	1200	12.7	1.90	35:65 Poz:Class C + 6% Gel + 3% CaCl ₂ + 0.5% CPT-45 + 0.45% CPT-20
	450	14.8	1.33	Class C + 0.20% CPT-19
21,217'	750	11.0	3.21	50:50 Poz:Class H + 0.4% CPT-503P + 3.0% CPT-45 + 5.0% Gypsum + 5.0% Salt + 0.15% Citric Acid + 0.15% CPT-20A + 1.0% CPT-19
	1400	14.4	1.20	50:50 Poz:Class H + 0.25% CPT-503P + 0.80% CPT-16A + 0.20% CPT-35 + 0.40% CPT-49 + 0.25% CPT-20A

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,280'	Fresh - Gel	8.6-8.8	28-34	N/c
1,280' – 5,200'	Brine	8.8-10.0	28-34	N/c
5,200' – 21,217' Lateral	Brine	8.8-10.0	28-34	N/c

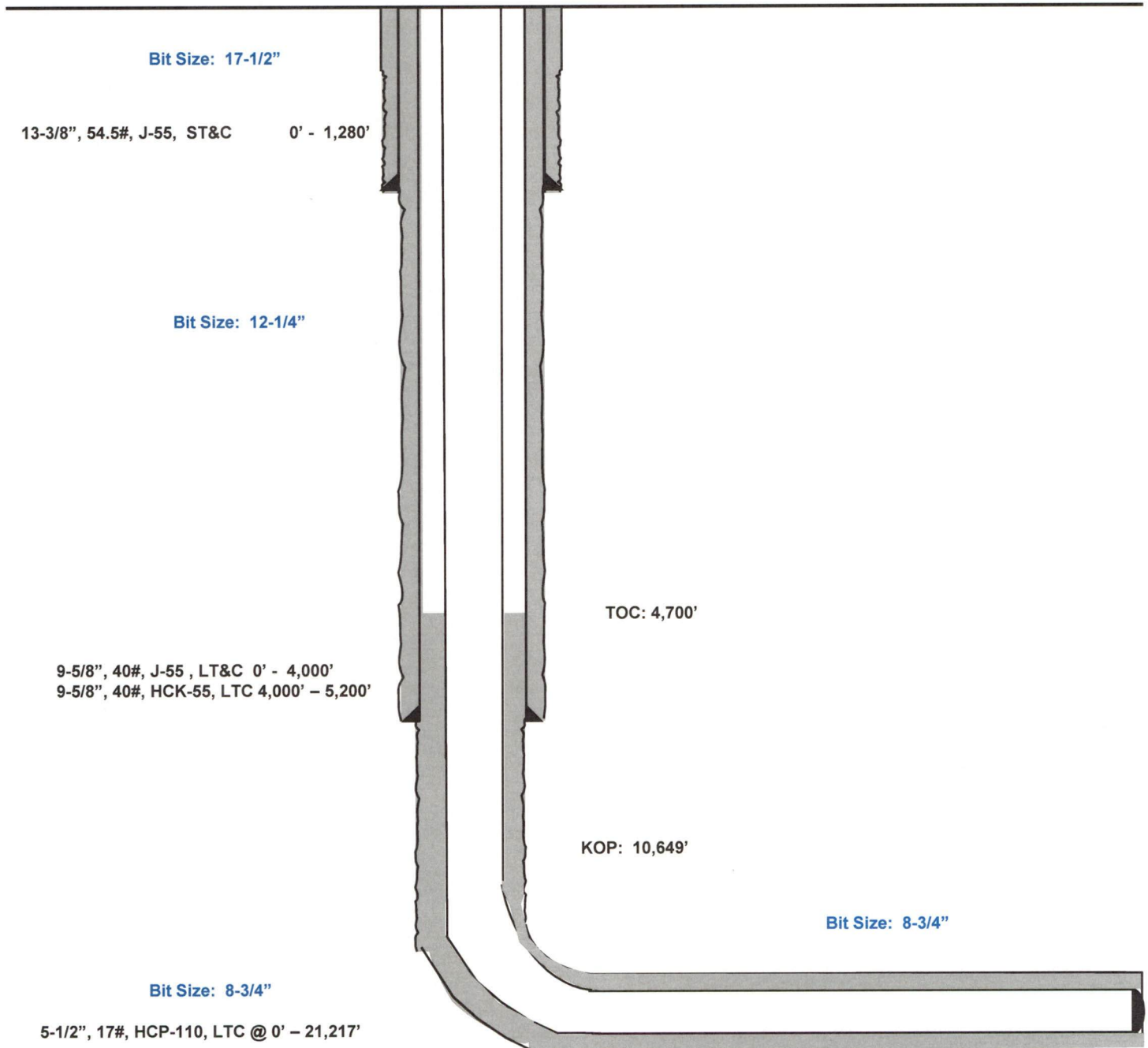
Neptune 10 State #503H

Lea County, New Mexico
Proposed Wellbore

330' FSL
2308' FWL
Section 10
T-24-S, R-33-E

API: 30-025-*****

KB: 3,634'
GL: 3,609'



Lateral: 21,217' MD, 11,140' TVD

BH Location: 230' FNL & 2480' FWL
Section 3
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)
Neptune 10 State Com #503H
H&P 651
Plan #0.1

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

WELL DETAILS: #503H

Ground Level: 3609.0
KB = 25 @ 3631.0usft (H&P 651)
Northing 446671.00 Easting 738905.00 Latitude 32° 13' 32.356 N Longitude 103° 33' 38.776 W

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.75°
Magnetic Field
Strength: 48144.0nT
Dip Angle: 60.09°
Date: 6/20/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.75°
To convert a Magnetic Direction to a True Direction, Add 7.16° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

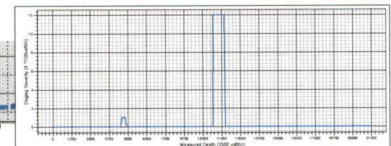
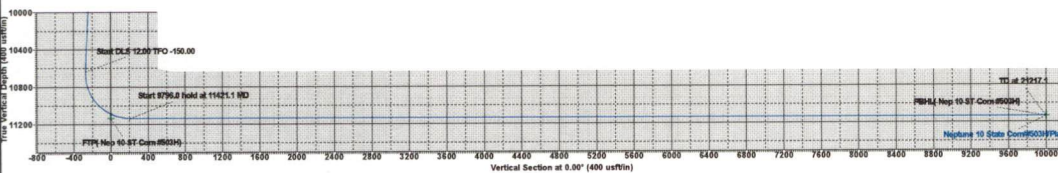
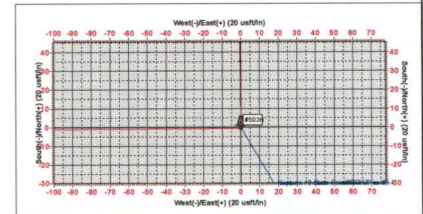
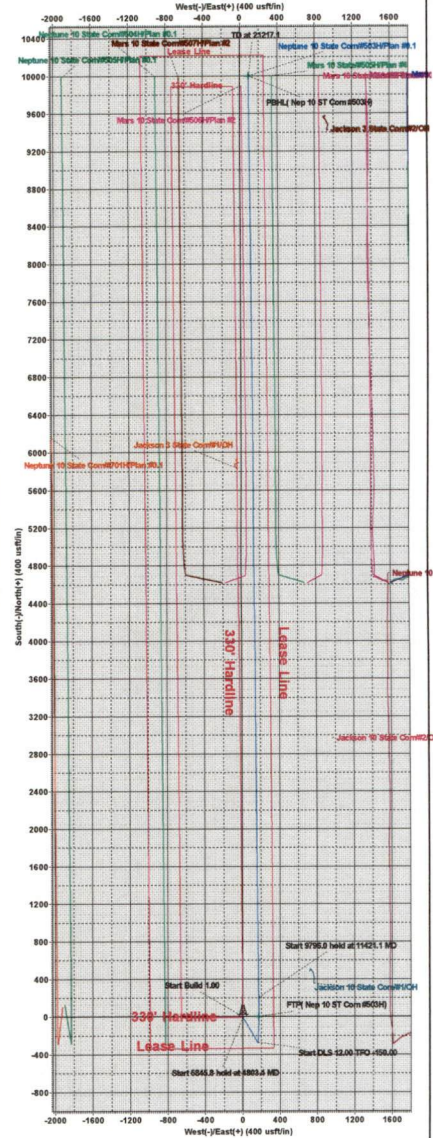
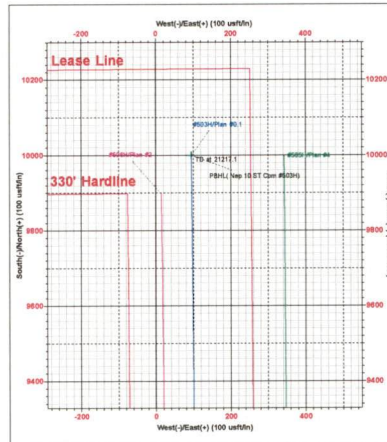
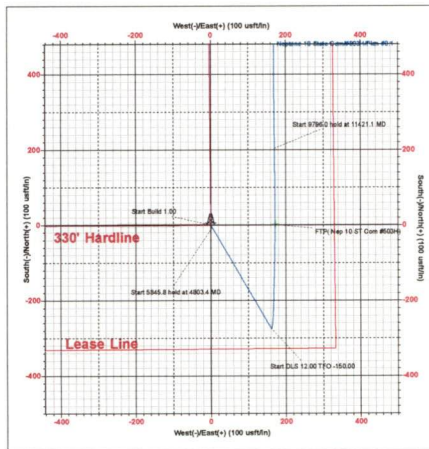
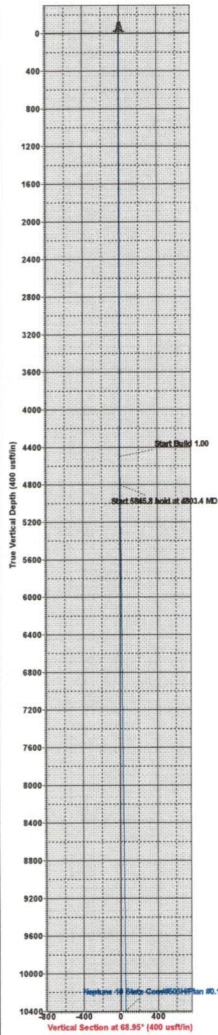
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4803.4	3.03	149.59	4803.2	-6.9	4.1	1.00	149.59	-6.9	
4	10649.2	3.03	149.59	10640.8	-273.8	160.7	0.00	0.00	-273.8	
5	11421.1	90.00	359.56	11140.0	203.3	170.2	12.00	-150.00	203.3	
6	21217.1	90.00	359.56	11140.0	9999.0	95.0	0.00	0.00	9999.0	PBHL (Nep 10 ST Com #503H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Nep 10 ST Com #503H)	11140.0	1.0	172.0	446672.00	738907.00
PBHL (Nep 10 ST Com #503H)	11140.0	9999.0	95.0	446670.00	739000.00



Lea County, NM (NAD 27 NME)
Neptune 10 State Com #503H
H&P 651
Plan #0.1



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Neptune 10 State Com

#503H

OH

Plan: Plan #0.1

Standard Planning Report

14 October, 2016



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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

Well	#503H		
Well Position	+N/-S	68.0 usft	Northing: 446,671.00 usft
	+E/-W	-1,876.0 usft	Easting: 738,905.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 13' 32.356 N
		Longitude:	103° 33' 38.776 W
		Ground Level:	3,609.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	6/20/2015	7.16
			Dip Angle (°)
			60.09
			Field Strength (nT)
			48,144

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)
	0.0	0.0	0.0
		Direction (°)	0.00

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,803.4	3.03	149.59	4,803.2	-6.9	4.1	1.00	1.00	0.00	149.59	
10,649.2	3.03	149.59	10,640.8	-273.8	160.7	0.00	0.00	0.00	0.00	
11,421.1	90.00	359.56	11,140.0	203.3	170.2	12.00	11.27	-19.44	-150.00	
21,217.1	90.00	359.56	11,140.0	9,999.0	95.0	0.00	0.00	0.00	0.00	PBHL(Nep 10 ST Co



EOG Resources, Inc.

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#503H	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
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	149.59	4,600.0	-0.8	0.4	-0.8	1.00	1.00	0.00
4,700.0	2.00	149.59	4,700.0	-3.0	1.8	-3.0	1.00	1.00	0.00
4,803.4	3.03	149.59	4,803.2	-6.9	4.1	-6.9	1.00	1.00	0.00
4,900.0	3.03	149.59	4,899.7	-11.3	6.7	-11.3	0.00	0.00	0.00
5,000.0	3.03	149.59	4,999.6	-15.9	9.3	-15.9	0.00	0.00	0.00
5,100.0	3.03	149.59	5,099.4	-20.5	12.0	-20.5	0.00	0.00	0.00
5,200.0	3.03	149.59	5,199.3	-25.0	14.7	-25.0	0.00	0.00	0.00
5,300.0	3.03	149.59	5,299.2	-29.6	17.4	-29.6	0.00	0.00	0.00



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Well:	#503H	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	3.03	149.59	5,399.0	-34.2	20.0	-34.2	0.00	0.00	0.00	
5,500.0	3.03	149.59	5,498.9	-38.7	22.7	-38.7	0.00	0.00	0.00	
5,600.0	3.03	149.59	5,598.7	-43.3	25.4	-43.3	0.00	0.00	0.00	
5,700.0	3.03	149.59	5,698.6	-47.9	28.1	-47.9	0.00	0.00	0.00	
5,800.0	3.03	149.59	5,798.5	-52.4	30.8	-52.4	0.00	0.00	0.00	
5,900.0	3.03	149.59	5,898.3	-57.0	33.4	-57.0	0.00	0.00	0.00	
6,000.0	3.03	149.59	5,998.2	-61.5	36.1	-61.5	0.00	0.00	0.00	
6,100.0	3.03	149.59	6,098.0	-66.1	38.8	-66.1	0.00	0.00	0.00	
6,200.0	3.03	149.59	6,197.9	-70.7	41.5	-70.7	0.00	0.00	0.00	
6,300.0	3.03	149.59	6,297.8	-75.2	44.2	-75.2	0.00	0.00	0.00	
6,400.0	3.03	149.59	6,397.6	-79.8	46.8	-79.8	0.00	0.00	0.00	
6,500.0	3.03	149.59	6,497.5	-84.4	49.5	-84.4	0.00	0.00	0.00	
6,600.0	3.03	149.59	6,597.3	-88.9	52.2	-88.9	0.00	0.00	0.00	
6,700.0	3.03	149.59	6,697.2	-93.5	54.9	-93.5	0.00	0.00	0.00	
6,800.0	3.03	149.59	6,797.1	-98.1	57.6	-98.1	0.00	0.00	0.00	
6,900.0	3.03	149.59	6,896.9	-102.6	60.2	-102.6	0.00	0.00	0.00	
7,000.0	3.03	149.59	6,996.8	-107.2	62.9	-107.2	0.00	0.00	0.00	
7,100.0	3.03	149.59	7,096.6	-111.8	65.6	-111.8	0.00	0.00	0.00	
7,200.0	3.03	149.59	7,196.5	-116.3	68.3	-116.3	0.00	0.00	0.00	
7,300.0	3.03	149.59	7,296.4	-120.9	70.9	-120.9	0.00	0.00	0.00	
7,400.0	3.03	149.59	7,396.2	-125.5	73.6	-125.4	0.00	0.00	0.00	
7,500.0	3.03	149.59	7,496.1	-130.0	76.3	-130.0	0.00	0.00	0.00	
7,600.0	3.03	149.59	7,595.9	-134.6	79.0	-134.6	0.00	0.00	0.00	
7,700.0	3.03	149.59	7,695.8	-139.1	81.7	-139.1	0.00	0.00	0.00	
7,800.0	3.03	149.59	7,795.7	-143.7	84.3	-143.7	0.00	0.00	0.00	
7,900.0	3.03	149.59	7,895.5	-148.3	87.0	-148.3	0.00	0.00	0.00	
8,000.0	3.03	149.59	7,995.4	-152.8	89.7	-152.8	0.00	0.00	0.00	
8,100.0	3.03	149.59	8,095.2	-157.4	92.4	-157.4	0.00	0.00	0.00	
8,200.0	3.03	149.59	8,195.1	-162.0	95.1	-162.0	0.00	0.00	0.00	
8,300.0	3.03	149.59	8,295.0	-166.5	97.7	-166.5	0.00	0.00	0.00	
8,400.0	3.03	149.59	8,394.8	-171.1	100.4	-171.1	0.00	0.00	0.00	
8,500.0	3.03	149.59	8,494.7	-175.7	103.1	-175.7	0.00	0.00	0.00	
8,600.0	3.03	149.59	8,594.5	-180.2	105.8	-180.2	0.00	0.00	0.00	
8,700.0	3.03	149.59	8,694.4	-184.8	108.5	-184.8	0.00	0.00	0.00	
8,800.0	3.03	149.59	8,794.3	-189.4	111.1	-189.4	0.00	0.00	0.00	
8,900.0	3.03	149.59	8,894.1	-193.9	113.8	-193.9	0.00	0.00	0.00	
9,000.0	3.03	149.59	8,994.0	-198.5	116.5	-198.5	0.00	0.00	0.00	
9,100.0	3.03	149.59	9,093.8	-203.0	119.2	-203.0	0.00	0.00	0.00	
9,200.0	3.03	149.59	9,193.7	-207.6	121.9	-207.6	0.00	0.00	0.00	
9,300.0	3.03	149.59	9,293.6	-212.2	124.5	-212.2	0.00	0.00	0.00	
9,400.0	3.03	149.59	9,393.4	-216.7	127.2	-216.7	0.00	0.00	0.00	
9,500.0	3.03	149.59	9,493.3	-221.3	129.9	-221.3	0.00	0.00	0.00	
9,600.0	3.03	149.59	9,593.1	-225.9	132.6	-225.9	0.00	0.00	0.00	
9,700.0	3.03	149.59	9,693.0	-230.4	135.2	-230.4	0.00	0.00	0.00	
9,800.0	3.03	149.59	9,792.9	-235.0	137.9	-235.0	0.00	0.00	0.00	
9,900.0	3.03	149.59	9,892.7	-239.6	140.6	-239.6	0.00	0.00	0.00	
10,000.0	3.03	149.59	9,992.6	-244.1	143.3	-244.1	0.00	0.00	0.00	
10,100.0	3.03	149.59	10,092.4	-248.7	146.0	-248.7	0.00	0.00	0.00	
10,200.0	3.03	149.59	10,192.3	-253.3	148.6	-253.3	0.00	0.00	0.00	
10,300.0	3.03	149.59	10,292.2	-257.8	151.3	-257.8	0.00	0.00	0.00	
10,400.0	3.03	149.59	10,392.0	-262.4	154.0	-262.4	0.00	0.00	0.00	
10,500.0	3.03	149.59	10,491.9	-267.0	156.7	-267.0	0.00	0.00	0.00	
10,600.0	3.03	149.59	10,591.7	-271.5	159.4	-271.5	0.00	0.00	0.00	
10,649.2	3.03	149.59	10,640.8	-273.8	160.7	-273.8	0.00	0.00	0.00	



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#503H	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)	
10,675.0	1.59	72.21	10,666.6	-274.2	161.4	-274.2	12.00	-5.59	-299.37	
10,700.0	3.79	23.12	10,691.6	-273.4	162.0	-273.4	12.00	8.80	-196.38	
10,725.0	6.65	12.69	10,716.5	-271.2	162.7	-271.2	12.00	11.43	-41.71	
10,750.0	9.59	8.57	10,741.3	-267.7	163.3	-267.7	12.00	11.78	-16.47	
10,775.0	12.56	6.38	10,765.8	-263.0	163.9	-263.0	12.00	11.88	-8.76	
10,800.0	15.55	5.02	10,790.0	-256.9	164.5	-256.9	12.00	11.93	-5.45	
10,825.0	18.53	4.09	10,813.9	-249.6	165.1	-249.6	12.00	11.95	-3.73	
10,850.0	21.52	3.41	10,837.4	-241.1	165.6	-241.1	12.00	11.96	-2.72	
10,875.0	24.52	2.89	10,860.4	-231.3	166.2	-231.3	12.00	11.97	-2.09	
10,900.0	27.51	2.47	10,882.9	-220.4	166.7	-220.4	12.00	11.98	-1.66	
10,925.0	30.51	2.14	10,904.8	-208.3	167.2	-208.3	12.00	11.98	-1.35	
10,950.0	33.50	1.85	10,926.0	-195.0	167.6	-195.0	12.00	11.98	-1.13	
10,975.0	36.50	1.61	10,946.4	-180.7	168.1	-180.7	12.00	11.99	-0.97	
11,000.0	39.50	1.40	10,966.1	-165.3	168.5	-165.3	12.00	11.99	-0.84	
11,025.0	42.50	1.22	10,985.0	-148.9	168.8	-148.9	12.00	11.99	-0.74	
11,050.0	45.49	1.05	11,003.0	-131.5	169.2	-131.5	12.00	11.99	-0.66	
11,075.0	48.49	0.90	11,020.0	-113.3	169.5	-113.3	12.00	11.99	-0.59	
11,100.0	51.49	0.77	11,036.1	-94.1	169.8	-94.1	12.00	11.99	-0.54	
11,125.0	54.49	0.64	11,051.2	-74.2	170.0	-74.2	12.00	11.99	-0.50	
11,150.0	57.49	0.53	11,065.1	-53.4	170.2	-53.4	12.00	11.99	-0.46	
11,175.0	60.49	0.42	11,078.0	-32.0	170.4	-32.0	12.00	11.99	-0.43	
11,200.0	63.48	0.32	11,089.8	-10.0	170.5	-10.0	12.00	11.99	-0.41	
11,225.0	66.48	0.22	11,100.3	12.7	170.6	12.7	12.00	11.99	-0.39	
11,229.0	66.97	0.20	11,101.9	16.4	170.7	16.4	12.00	12.00	-0.38	
FTP(Nep 10 ST Com #503H)										
11,250.0	69.48	0.13	11,109.7	35.9	170.7	35.9	12.00	12.00	-0.37	
11,275.0	72.48	0.04	11,117.8	59.5	170.7	59.5	12.00	12.00	-0.36	
11,300.0	75.48	359.95	11,124.7	83.5	170.7	83.5	12.00	12.00	-0.34	
11,325.0	78.48	359.87	11,130.4	107.9	170.7	107.9	12.00	12.00	-0.33	
11,350.0	81.48	359.79	11,134.7	132.5	170.6	132.5	12.00	12.00	-0.33	
11,375.0	84.48	359.71	11,137.8	157.3	170.5	157.3	12.00	12.00	-0.32	
11,400.0	87.47	359.63	11,139.5	182.2	170.4	182.2	12.00	12.00	-0.32	
11,421.1	90.00	359.56	11,140.0	203.3	170.2	203.3	12.00	12.00	-0.32	
11,500.0	90.00	359.56	11,140.0	282.2	169.6	282.2	0.00	0.00	0.00	
11,600.0	90.00	359.56	11,140.0	382.2	168.9	382.2	0.00	0.00	0.00	
11,700.0	90.00	359.56	11,140.0	482.2	168.1	482.2	0.00	0.00	0.00	
11,800.0	90.00	359.56	11,140.0	582.2	167.3	582.2	0.00	0.00	0.00	
11,900.0	90.00	359.56	11,140.0	682.2	166.5	682.2	0.00	0.00	0.00	
12,000.0	90.00	359.56	11,140.0	782.2	165.8	782.2	0.00	0.00	0.00	
12,100.0	90.00	359.56	11,140.0	882.2	165.0	882.2	0.00	0.00	0.00	
12,200.0	90.00	359.56	11,140.0	982.2	164.2	982.2	0.00	0.00	0.00	
12,300.0	90.00	359.56	11,140.0	1,082.2	163.5	1,082.2	0.00	0.00	0.00	
12,400.0	90.00	359.56	11,140.0	1,182.2	162.7	1,182.2	0.00	0.00	0.00	
12,500.0	90.00	359.56	11,140.0	1,282.2	161.9	1,282.2	0.00	0.00	0.00	
12,600.0	90.00	359.56	11,140.0	1,382.2	161.2	1,382.2	0.00	0.00	0.00	
12,700.0	90.00	359.56	11,140.0	1,482.2	160.4	1,482.2	0.00	0.00	0.00	
12,800.0	90.00	359.56	11,140.0	1,582.2	159.6	1,582.2	0.00	0.00	0.00	
12,900.0	90.00	359.56	11,140.0	1,682.2	158.9	1,682.2	0.00	0.00	0.00	
13,000.0	90.00	359.56	11,140.0	1,782.2	158.1	1,782.2	0.00	0.00	0.00	
13,100.0	90.00	359.56	11,140.0	1,882.2	157.3	1,882.2	0.00	0.00	0.00	
13,200.0	90.00	359.56	11,140.0	1,982.2	156.6	1,982.2	0.00	0.00	0.00	
13,300.0	90.00	359.56	11,140.0	2,082.2	155.8	2,082.2	0.00	0.00	0.00	
13,400.0	90.00	359.56	11,140.0	2,182.2	155.0	2,182.2	0.00	0.00	0.00	



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#503H	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	359.56	11,140.0	2,282.2	154.3	2,282.2	0.00	0.00	0.00
13,600.0	90.00	359.56	11,140.0	2,382.2	153.5	2,382.2	0.00	0.00	0.00
13,700.0	90.00	359.56	11,140.0	2,482.2	152.7	2,482.2	0.00	0.00	0.00
13,800.0	90.00	359.56	11,140.0	2,582.2	152.0	2,582.2	0.00	0.00	0.00
13,900.0	90.00	359.56	11,140.0	2,682.2	151.2	2,682.2	0.00	0.00	0.00
14,000.0	90.00	359.56	11,140.0	2,782.2	150.4	2,782.2	0.00	0.00	0.00
14,100.0	90.00	359.56	11,140.0	2,882.2	149.7	2,882.2	0.00	0.00	0.00
14,200.0	90.00	359.56	11,140.0	2,982.2	148.9	2,982.2	0.00	0.00	0.00
14,300.0	90.00	359.56	11,140.0	3,082.2	148.1	3,082.2	0.00	0.00	0.00
14,400.0	90.00	359.56	11,140.0	3,182.1	147.4	3,182.2	0.00	0.00	0.00
14,500.0	90.00	359.56	11,140.0	3,282.1	146.6	3,282.1	0.00	0.00	0.00
14,600.0	90.00	359.56	11,140.0	3,382.1	145.8	3,382.1	0.00	0.00	0.00
14,700.0	90.00	359.56	11,140.0	3,482.1	145.0	3,482.1	0.00	0.00	0.00
14,800.0	90.00	359.56	11,140.0	3,582.1	144.3	3,582.1	0.00	0.00	0.00
14,900.0	90.00	359.56	11,140.0	3,682.1	143.5	3,682.1	0.00	0.00	0.00
15,000.0	90.00	359.56	11,140.0	3,782.1	142.7	3,782.1	0.00	0.00	0.00
15,100.0	90.00	359.56	11,140.0	3,882.1	142.0	3,882.1	0.00	0.00	0.00
15,200.0	90.00	359.56	11,140.0	3,982.1	141.2	3,982.1	0.00	0.00	0.00
15,300.0	90.00	359.56	11,140.0	4,082.1	140.4	4,082.1	0.00	0.00	0.00
15,400.0	90.00	359.56	11,140.0	4,182.1	139.7	4,182.1	0.00	0.00	0.00
15,500.0	90.00	359.56	11,140.0	4,282.1	138.9	4,282.1	0.00	0.00	0.00
15,600.0	90.00	359.56	11,140.0	4,382.1	138.1	4,382.1	0.00	0.00	0.00
15,700.0	90.00	359.56	11,140.0	4,482.1	137.4	4,482.1	0.00	0.00	0.00
15,800.0	90.00	359.56	11,140.0	4,582.1	136.6	4,582.1	0.00	0.00	0.00
15,900.0	90.00	359.56	11,140.0	4,682.1	135.8	4,682.1	0.00	0.00	0.00
16,000.0	90.00	359.56	11,140.0	4,782.1	135.1	4,782.1	0.00	0.00	0.00
16,100.0	90.00	359.56	11,140.0	4,882.1	134.3	4,882.1	0.00	0.00	0.00
16,200.0	90.00	359.56	11,140.0	4,982.1	133.5	4,982.1	0.00	0.00	0.00
16,300.0	90.00	359.56	11,140.0	5,082.1	132.8	5,082.1	0.00	0.00	0.00
16,400.0	90.00	359.56	11,140.0	5,182.1	132.0	5,182.1	0.00	0.00	0.00
16,500.0	90.00	359.56	11,140.0	5,282.1	131.2	5,282.1	0.00	0.00	0.00
16,600.0	90.00	359.56	11,140.0	5,382.1	130.5	5,382.1	0.00	0.00	0.00
16,700.0	90.00	359.56	11,140.0	5,482.1	129.7	5,482.1	0.00	0.00	0.00
16,800.0	90.00	359.56	11,140.0	5,582.1	128.9	5,582.1	0.00	0.00	0.00
16,900.0	90.00	359.56	11,140.0	5,682.1	128.2	5,682.1	0.00	0.00	0.00
17,000.0	90.00	359.56	11,140.0	5,782.1	127.4	5,782.1	0.00	0.00	0.00
17,100.0	90.00	359.56	11,140.0	5,882.1	126.6	5,882.1	0.00	0.00	0.00
17,200.0	90.00	359.56	11,140.0	5,982.1	125.8	5,982.1	0.00	0.00	0.00
17,300.0	90.00	359.56	11,140.0	6,082.1	125.1	6,082.1	0.00	0.00	0.00
17,400.0	90.00	359.56	11,140.0	6,182.1	124.3	6,182.1	0.00	0.00	0.00
17,500.0	90.00	359.56	11,140.0	6,282.1	123.5	6,282.1	0.00	0.00	0.00
17,600.0	90.00	359.56	11,140.0	6,382.1	122.8	6,382.1	0.00	0.00	0.00
17,700.0	90.00	359.56	11,140.0	6,482.1	122.0	6,482.1	0.00	0.00	0.00
17,800.0	90.00	359.56	11,140.0	6,582.0	121.2	6,582.0	0.00	0.00	0.00
17,900.0	90.00	359.56	11,140.0	6,682.0	120.5	6,682.0	0.00	0.00	0.00
18,000.0	90.00	359.56	11,140.0	6,782.0	119.7	6,782.0	0.00	0.00	0.00
18,100.0	90.00	359.56	11,140.0	6,882.0	118.9	6,882.0	0.00	0.00	0.00
18,200.0	90.00	359.56	11,140.0	6,982.0	118.2	6,982.0	0.00	0.00	0.00
18,300.0	90.00	359.56	11,140.0	7,082.0	117.4	7,082.0	0.00	0.00	0.00
18,400.0	90.00	359.56	11,140.0	7,182.0	116.6	7,182.0	0.00	0.00	0.00
18,500.0	90.00	359.56	11,140.0	7,282.0	115.9	7,282.0	0.00	0.00	0.00
18,600.0	90.00	359.56	11,140.0	7,382.0	115.1	7,382.0	0.00	0.00	0.00
18,700.0	90.00	359.56	11,140.0	7,482.0	114.3	7,482.0	0.00	0.00	0.00
18,800.0	90.00	359.56	11,140.0	7,582.0	113.6	7,582.0	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3631.0usft (H&P 651)
Site:	Neptune 10 State Com	North Reference:	Grid
Well:	#503H	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	359.56	11,140.0	7,682.0	112.8	7,682.0	0.00	0.00	0.00
19,000.0	90.00	359.56	11,140.0	7,782.0	112.0	7,782.0	0.00	0.00	0.00
19,100.0	90.00	359.56	11,140.0	7,882.0	111.3	7,882.0	0.00	0.00	0.00
19,200.0	90.00	359.56	11,140.0	7,982.0	110.5	7,982.0	0.00	0.00	0.00
19,300.0	90.00	359.56	11,140.0	8,082.0	109.7	8,082.0	0.00	0.00	0.00
19,400.0	90.00	359.56	11,140.0	8,182.0	109.0	8,182.0	0.00	0.00	0.00
19,500.0	90.00	359.56	11,140.0	8,282.0	108.2	8,282.0	0.00	0.00	0.00
19,600.0	90.00	359.56	11,140.0	8,382.0	107.4	8,382.0	0.00	0.00	0.00
19,700.0	90.00	359.56	11,140.0	8,482.0	106.7	8,482.0	0.00	0.00	0.00
19,800.0	90.00	359.56	11,140.0	8,582.0	105.9	8,582.0	0.00	0.00	0.00
19,900.0	90.00	359.56	11,140.0	8,682.0	105.1	8,682.0	0.00	0.00	0.00
20,000.0	90.00	359.56	11,140.0	8,782.0	104.3	8,782.0	0.00	0.00	0.00
20,100.0	90.00	359.56	11,140.0	8,882.0	103.6	8,882.0	0.00	0.00	0.00
20,200.0	90.00	359.56	11,140.0	8,982.0	102.8	8,982.0	0.00	0.00	0.00
20,300.0	90.00	359.56	11,140.0	9,082.0	102.0	9,082.0	0.00	0.00	0.00
20,400.0	90.00	359.56	11,140.0	9,182.0	101.3	9,182.0	0.00	0.00	0.00
20,500.0	90.00	359.56	11,140.0	9,282.0	100.5	9,282.0	0.00	0.00	0.00
20,600.0	90.00	359.56	11,140.0	9,382.0	99.7	9,382.0	0.00	0.00	0.00
20,700.0	90.00	359.56	11,140.0	9,482.0	99.0	9,482.0	0.00	0.00	0.00
20,800.0	90.00	359.56	11,140.0	9,582.0	98.2	9,582.0	0.00	0.00	0.00
20,900.0	90.00	359.56	11,140.0	9,682.0	97.4	9,682.0	0.00	0.00	0.00
21,000.0	90.00	359.56	11,140.0	9,782.0	96.7	9,782.0	0.00	0.00	0.00
21,100.0	90.00	359.56	11,140.0	9,882.0	95.9	9,882.0	0.00	0.00	0.00
21,200.0	90.00	359.56	11,140.0	9,981.9	95.1	9,981.9	0.00	0.00	0.00
21,217.1	90.00	359.56	11,140.0	9,999.0	95.0	9,999.0	0.00	0.00	0.00
PBHL(Nep 10 ST Com #503H)									

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 #503H)	0.00	0.01	11,140.0	1.0	172.0	446,672.00	739,077.00	32° 13' 32.354 N	103° 33' 36.773 W
- hit/miss target									
- plan misses target center by 41.1usft at 11229.0usft MD (11101.9 TVD, 16.4 N, 170.7 E)									
- Point									
PBHL(Nep 10 ST Com #503H)	0.00	0.00	11,140.0	9,999.0	95.0	456,670.00	739,000.00	32° 15' 11.294 N	103° 33' 36.832 W
- hit/miss target									
- plan hits target center									
- Point									

EOG RESOURCES, INC.
NEPTUNE 10 STATE #503H

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.

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NEPTUNE 10 STATE #503H

- **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 #503H**

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
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Company Drilling Consultants:

David Dominique	Cell (985) 518-5839
Mike Vann	Cell (817) 980-5507

Drilling Engineer

Kirby Castille	Office (432) 686-3657
	Cell (432) 559-4987

Drilling Manager

Heath Work	Office (432) 686-6716
	Cell (903) 780-1179

Drilling Superintendent

Jason Fitzgerald	Office (432) 848-9029
	Cell (318) 347-3916

H&P Drilling

H&P Drilling	Office (432) 563-5757
H&P 651 Drilling Rig	Rig (903) 509-7131

Tool Pusher:

Johnathan Craig	Cell (817) 760-6374
Brad Garrett	

Safety

Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251