

District I
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., Sante 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.
Sante Fe, NM 87505

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

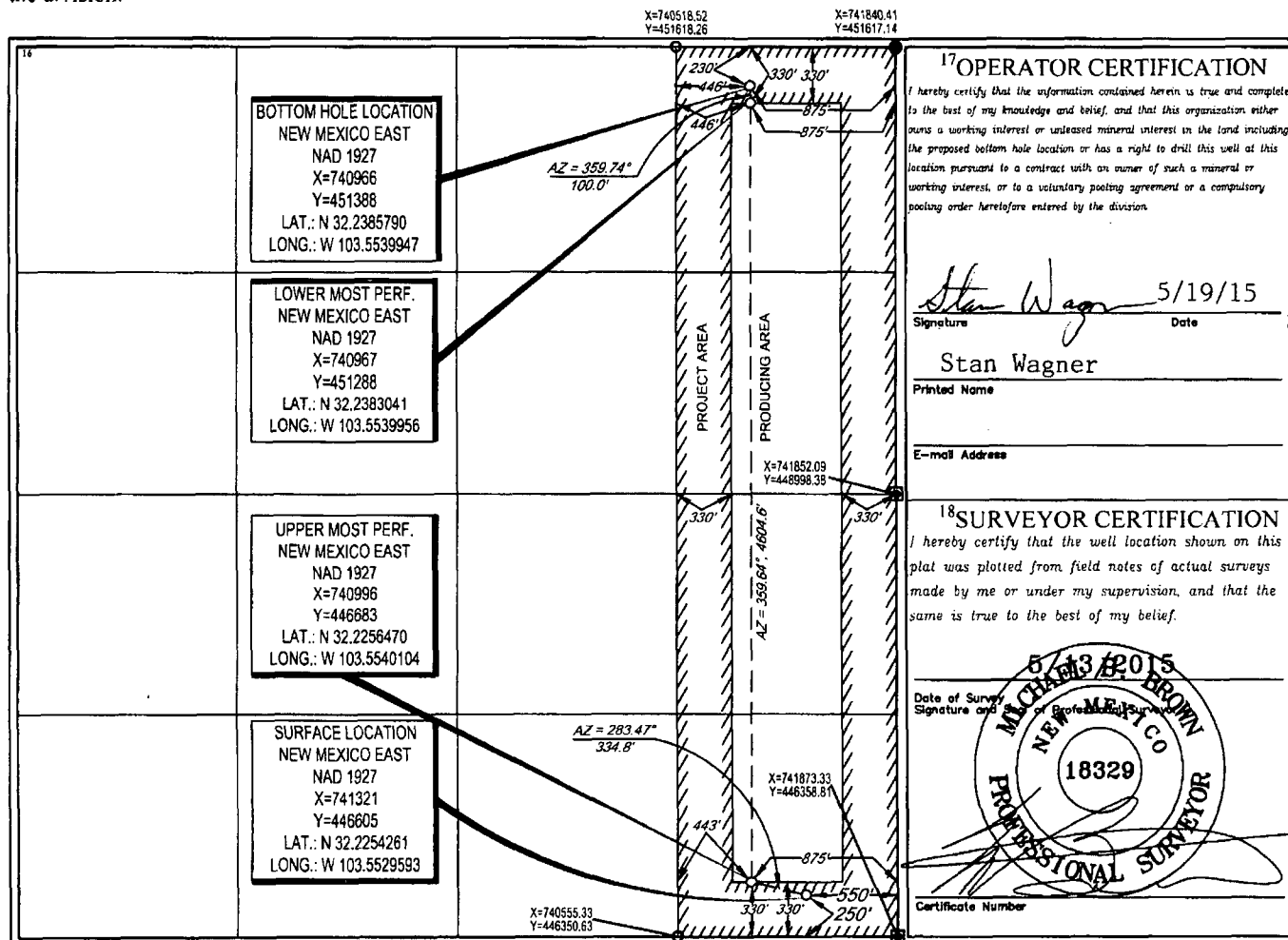
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 42578		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 OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3606'

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	24-S	33-E	-	250'	SOUTH	550'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	10	24-S	33-E	-	230'	NORTH	875'	EAST	LEA
¹² Dedicated Acres 160.00		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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.



MAY 21 2015

Permit Information:

Well Name: Neptune 10 State Com No. 503H

Location:

SL: 250' FSL & 550' FEL, Section 10, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 875' 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'-15,646'	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
15,646'	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-I (TOC @ 4600')
	300	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-I + 0.25 pps Celloflake
	1300	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' – 10,331'	Oil Base	8.7-9.4	58-68	N/c - 6
10,331' – 15,646' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

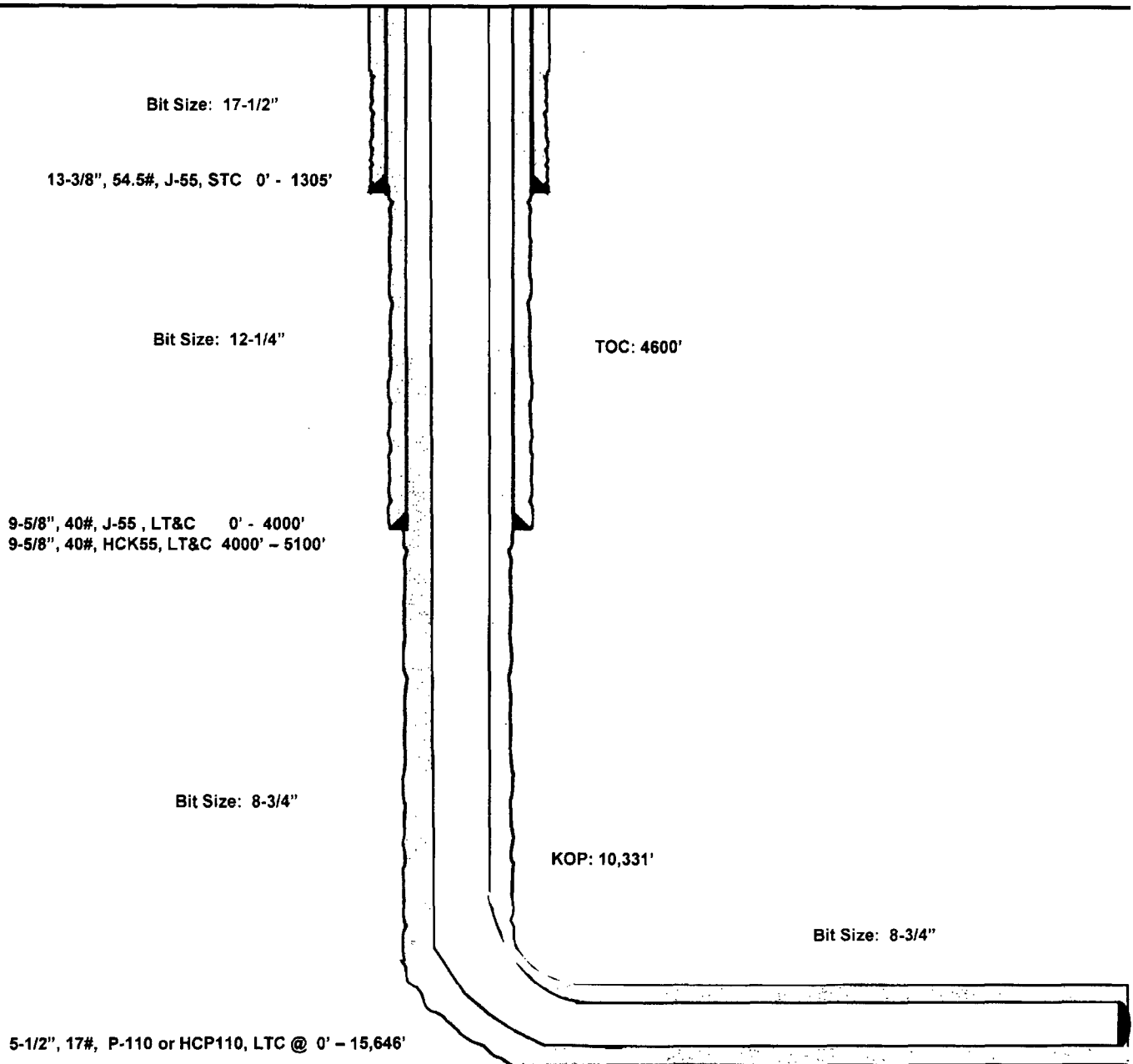
Neptune 10 State Com #503H
Lea County, New Mexico

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

Proposed Wellbore

API: 30-025-

KB: 3,331'
GL: 3,606'



Lateral: 15,646' MD, 10,900' TVD

BH Location: 230' FNL & 875' FEL
Section 10
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)
Neptune 10 State Com #503H
H&P 651
Plan #1

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

Geodetic System: US State Plane 1977 (East solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone: New Mexico East 2001
System Datum: Mean Sea Level



Admiralty to Grid North
True North: -0.42°
Magnetic North: 6.74°
Magnetic Field
Strength: 48144.7nT
Dip Angle: 60.09°
Date: 8/20/2019
Model: IGRF2019

To convert a Magnetic Direction to a Grid Direction Add 6.74°
To convert a Magnetic Direction to a True Direction Add 7.16° East
To convert a True Direction to a Grid Direction Subtract 6.42°

WELL DETAILS #503H

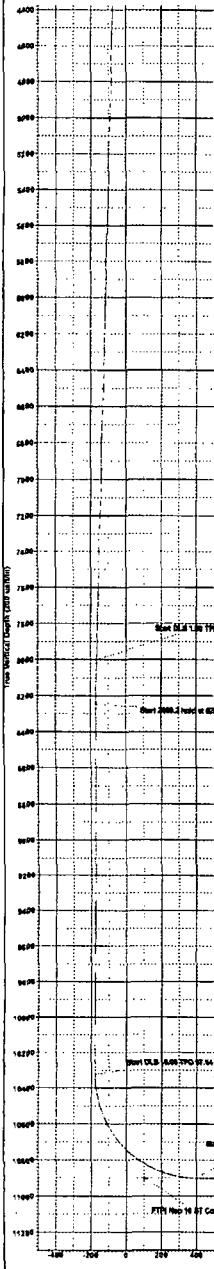
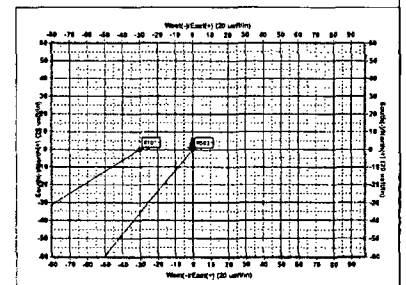
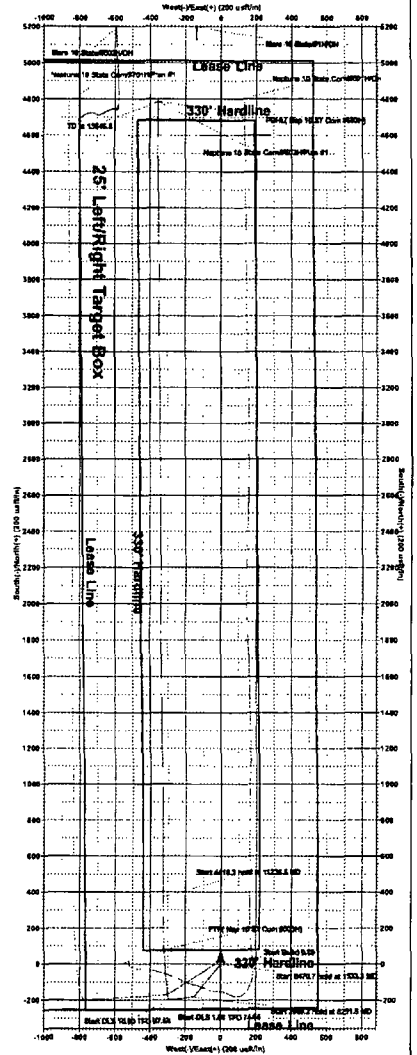
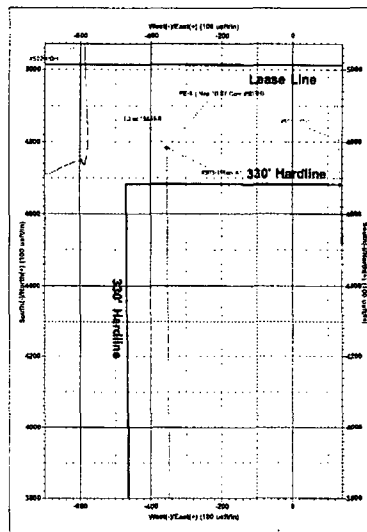
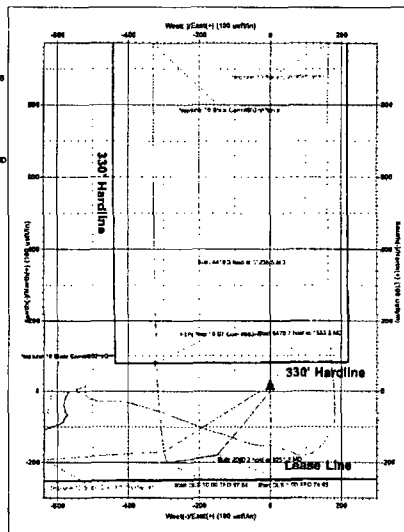
Ground Level: 3506.0
KB = 25.6' 3631' Over (H&P 651)
+N/S +E/W Northing Easting Longitude Slot
0.0 0.0 446665.00 741321.00 32° 13' 21.530 W 103° 33' 10' 657 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dieg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1533.3	2.00	220.00	1533.3	-4.5	-3.7	0.60	220.00	-4.2	
4	8004.0	2.00	220.00	8000.0	-177.4	-148.9	0.00	0.00	-165.9	
5	8251.5	3.57	261.98	8247.3	-181.8	-159.3	1.00	74.65	-159.5	
6	10331.7	3.57	261.98	10323.4	-199.9	-287.6	0.00	0.00	-178.1	
7	11235.5	90.00	359.63	10900.0	372.8	-326.9	10.00	97.64	396.0	
8	15646.8	90.00	359.63	10900.0	4783.0	-355.0	0.00	0.00	4796.2	PBHL (Nap 10 ST Com #503H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name TVD +N/S +E/W Northing Easting Shape
PTPL (Nap 10 ST Com #503H) 10900.0 78.0 -325.0 446833.00 740396.00 Point
PBHL (Nap 10 ST Com #503H) 10900.0 4783.0 -355.0 451328.00 740966.00 Point



Vertical Section at 333.78° (200 uft/m)

1" = 100' 1" = 100'



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Neptune 10 State Com

#503H

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: #503H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #503H
TVD Reference: KB = 25 @ 3631.0usft (H&P 651)
MD Reference: KB = 25 @ 3631.0usft (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		

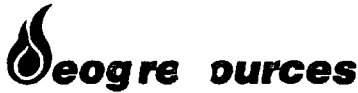
Site	Neptune 10 State Com			
Site Position:		Northing:	446,603.00 usft	Latitude: 32° 13' 31.549 N
From:	Map	Easting:	740,781.00 usft	Longitude: 103° 33' 16.943 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.42 °

Well	#503H			
Well Position	+N/-S	2.0 usft	Northing:	446,605.00 usft
	+E/-W	540.0 usft	Easting:	741,321.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,606.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/20/2015	7.16	60.09	48,145

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	355.76

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	
1,533.3	2.00	220.00	1,533.3	-4.5	-3.7	0.60	0.60	0.00	220.00	
8,004.0	2.00	220.00	8,000.0	-177.4	-148.9	0.00	0.00	0.00	0.00	
8,251.5	3.57	261.98	8,247.3	-181.8	-159.3	1.00	0.63	16.96	74.65	
10,331.7	3.57	261.98	10,323.4	-199.9	-287.6	0.00	0.00	0.00	0.00	
11,236.5	90.00	359.63	10,900.0	372.8	-326.9	10.00	9.55	10.79	97.64	
15,646.8	90.00	359.63	10,900.0	4,783.0	-355.0	0.00	0.00	0.00	0.00	PBHL(Nep 10 ST Co



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MD Reference: KB = 25 @ 3631.0usft (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)
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	220.00	1,300.0	-0.4	-0.3	-0.4	0.60	0.60	0.00
1,400.0	1.20	220.00	1,400.0	-1.6	-1.3	-1.5	0.60	0.60	0.00
1,500.0	1.80	220.00	1,500.0	-3.6	-3.0	-3.4	0.60	0.60	0.00
1,533.3	2.00	220.00	1,533.3	-4.5	-3.7	-4.2	0.60	0.60	0.00
1,600.0	2.00	220.00	1,599.9	-6.2	-5.2	-5.8	0.00	0.00	0.00
1,700.0	2.00	220.00	1,699.8	-8.9	-7.5	-8.3	0.00	0.00	0.00
1,800.0	2.00	220.00	1,799.8	-11.6	-9.7	-10.8	0.00	0.00	0.00
1,900.0	2.00	220.00	1,899.7	-14.3	-12.0	-13.3	0.00	0.00	0.00
2,000.0	2.00	220.00	1,999.6	-16.9	-14.2	-15.8	0.00	0.00	0.00
2,100.0	2.00	220.00	2,099.6	-19.6	-16.5	-18.3	0.00	0.00	0.00
2,200.0	2.00	220.00	2,199.5	-22.3	-18.7	-20.8	0.00	0.00	0.00
2,300.0	2.00	220.00	2,299.5	-25.0	-20.9	-23.3	0.00	0.00	0.00
2,400.0	2.00	220.00	2,399.4	-27.6	-23.2	-25.8	0.00	0.00	0.00
2,500.0	2.00	220.00	2,499.3	-30.3	-25.4	-28.3	0.00	0.00	0.00
2,600.0	2.00	220.00	2,599.3	-33.0	-27.7	-30.8	0.00	0.00	0.00
2,700.0	2.00	220.00	2,699.2	-35.6	-29.9	-33.3	0.00	0.00	0.00
2,800.0	2.00	220.00	2,799.2	-38.3	-32.2	-35.8	0.00	0.00	0.00
2,900.0	2.00	220.00	2,899.1	-41.0	-34.4	-38.3	0.00	0.00	0.00
3,000.0	2.00	220.00	2,999.0	-43.7	-36.6	-40.8	0.00	0.00	0.00
3,100.0	2.00	220.00	3,099.0	-46.3	-38.9	-43.3	0.00	0.00	0.00
3,200.0	2.00	220.00	3,198.9	-49.0	-41.1	-45.8	0.00	0.00	0.00
3,300.0	2.00	220.00	3,298.9	-51.7	-43.4	-48.3	0.00	0.00	0.00
3,400.0	2.00	220.00	3,398.8	-54.4	-45.6	-50.8	0.00	0.00	0.00
3,500.0	2.00	220.00	3,498.7	-57.0	-47.9	-53.3	0.00	0.00	0.00
3,600.0	2.00	220.00	3,598.7	-59.7	-50.1	-55.8	0.00	0.00	0.00
3,700.0	2.00	220.00	3,698.6	-62.4	-52.3	-58.3	0.00	0.00	0.00
3,800.0	2.00	220.00	3,798.6	-65.1	-54.6	-60.8	0.00	0.00	0.00
3,900.0	2.00	220.00	3,898.5	-67.7	-56.8	-63.3	0.00	0.00	0.00
4,000.0	2.00	220.00	3,998.4	-70.4	-59.1	-65.8	0.00	0.00	0.00
4,100.0	2.00	220.00	4,098.4	-73.1	-61.3	-68.3	0.00	0.00	0.00
4,200.0	2.00	220.00	4,198.3	-75.7	-63.6	-70.8	0.00	0.00	0.00
4,300.0	2.00	220.00	4,298.2	-78.4	-65.8	-73.3	0.00	0.00	0.00
4,400.0	2.00	220.00	4,398.2	-81.1	-68.0	-75.8	0.00	0.00	0.00
4,500.0	2.00	220.00	4,498.1	-83.8	-70.3	-78.3	0.00	0.00	0.00
4,600.0	2.00	220.00	4,598.1	-86.4	-72.5	-80.8	0.00	0.00	0.00
4,700.0	2.00	220.00	4,698.0	-89.1	-74.8	-83.3	0.00	0.00	0.00
4,800.0	2.00	220.00	4,797.9	-91.8	-77.0	-85.8	0.00	0.00	0.00
4,900.0	2.00	220.00	4,897.9	-94.5	-79.3	-88.3	0.00	0.00	0.00
5,000.0	2.00	220.00	4,997.8	-97.1	-81.5	-90.8	0.00	0.00	0.00
5,100.0	2.00	220.00	5,097.8	-99.8	-83.8	-93.3	0.00	0.00	0.00
5,200.0	2.00	220.00	5,197.7	-102.5	-86.0	-95.8	0.00	0.00	0.00



EOG Resources, Inc.

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MD Reference: KB = 25 @ 3631.0usft (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)
5,300.0	2.00	220.00	5,297.6	-105.2	-88.2	-98.3	0.00	0.00	0.00
5,400.0	2.00	220.00	5,397.6	-107.8	-90.5	-100.8	0.00	0.00	0.00
5,500.0	2.00	220.00	5,497.5	-110.5	-92.7	-103.3	0.00	0.00	0.00
5,600.0	2.00	220.00	5,597.5	-113.2	-95.0	-105.8	0.00	0.00	0.00
5,700.0	2.00	220.00	5,697.4	-115.9	-97.2	-108.3	0.00	0.00	0.00
5,800.0	2.00	220.00	5,797.3	-118.5	-99.5	-110.8	0.00	0.00	0.00
5,900.0	2.00	220.00	5,897.3	-121.2	-101.7	-113.3	0.00	0.00	0.00
6,000.0	2.00	220.00	5,997.2	-123.9	-103.9	-115.8	0.00	0.00	0.00
6,100.0	2.00	220.00	6,097.2	-126.5	-106.2	-118.3	0.00	0.00	0.00
6,200.0	2.00	220.00	6,197.1	-129.2	-108.4	-120.8	0.00	0.00	0.00
6,300.0	2.00	220.00	6,297.0	-131.9	-110.7	-123.3	0.00	0.00	0.00
6,400.0	2.00	220.00	6,397.0	-134.6	-112.9	-125.8	0.00	0.00	0.00
6,500.0	2.00	220.00	6,496.9	-137.2	-115.2	-128.3	0.00	0.00	0.00
6,600.0	2.00	220.00	6,596.8	-139.9	-117.4	-130.8	0.00	0.00	0.00
6,700.0	2.00	220.00	6,696.8	-142.6	-119.6	-133.3	0.00	0.00	0.00
6,800.0	2.00	220.00	6,796.7	-145.3	-121.9	-135.8	0.00	0.00	0.00
6,900.0	2.00	220.00	6,896.7	-147.9	-124.1	-138.3	0.00	0.00	0.00
7,000.0	2.00	220.00	6,996.6	-150.6	-126.4	-140.8	0.00	0.00	0.00
7,100.0	2.00	220.00	7,096.5	-153.3	-128.6	-143.3	0.00	0.00	0.00
7,200.0	2.00	220.00	7,196.5	-156.0	-130.9	-145.8	0.00	0.00	0.00
7,300.0	2.00	220.00	7,296.4	-158.6	-133.1	-148.3	0.00	0.00	0.00
7,400.0	2.00	220.00	7,396.4	-161.3	-135.3	-150.8	0.00	0.00	0.00
7,500.0	2.00	220.00	7,496.3	-164.0	-137.6	-153.3	0.00	0.00	0.00
7,600.0	2.00	220.00	7,596.2	-166.6	-139.8	-155.8	0.00	0.00	0.00
7,700.0	2.00	220.00	7,696.2	-169.3	-142.1	-158.3	0.00	0.00	0.00
7,800.0	2.00	220.00	7,796.1	-172.0	-144.3	-160.8	0.00	0.00	0.00
7,900.0	2.00	220.00	7,896.1	-174.7	-146.6	-163.3	0.00	0.00	0.00
8,004.0	2.00	220.00	8,000.0	-177.4	-148.9	-165.9	0.00	0.00	0.00
8,100.0	2.44	242.33	8,095.9	-179.7	-151.8	-168.0	1.00	0.45	23.27
8,200.0	3.15	256.90	8,195.8	-181.3	-156.3	-169.2	1.00	0.71	14.57
8,251.5	3.57	261.98	8,247.3	-181.8	-159.3	-169.5	1.00	0.82	9.85
8,300.0	3.57	261.98	8,295.6	-182.3	-162.3	-169.7	0.00	0.00	0.00
8,400.0	3.57	261.98	8,395.4	-183.1	-168.5	-170.2	0.00	0.00	0.00
8,500.0	3.57	261.98	8,495.2	-184.0	-174.6	-170.6	0.00	0.00	0.00
8,600.0	3.57	261.98	8,595.0	-184.9	-180.8	-171.0	0.00	0.00	0.00
8,700.0	3.57	261.98	8,694.8	-185.7	-187.0	-171.4	0.00	0.00	0.00
8,800.0	3.57	261.98	8,794.6	-186.6	-193.1	-171.8	0.00	0.00	0.00
8,900.0	3.57	261.98	8,894.5	-187.5	-199.3	-172.2	0.00	0.00	0.00
9,000.0	3.57	261.98	8,994.3	-188.3	-205.5	-172.6	0.00	0.00	0.00
9,100.0	3.57	261.98	9,094.1	-189.2	-211.6	-173.0	0.00	0.00	0.00
9,200.0	3.57	261.98	9,193.9	-190.1	-217.8	-173.4	0.00	0.00	0.00
9,300.0	3.57	261.98	9,293.7	-190.9	-224.0	-173.8	0.00	0.00	0.00
9,400.0	3.57	261.98	9,393.5	-191.8	-230.1	-174.3	0.00	0.00	0.00
9,500.0	3.57	261.98	9,493.3	-192.7	-236.3	-174.7	0.00	0.00	0.00
9,600.0	3.57	261.98	9,593.1	-193.6	-242.5	-175.1	0.00	0.00	0.00
9,700.0	3.57	261.98	9,692.9	-194.4	-248.6	-175.5	0.00	0.00	0.00
9,800.0	3.57	261.98	9,792.7	-195.3	-254.8	-175.9	0.00	0.00	0.00
9,900.0	3.57	261.98	9,892.5	-196.2	-261.0	-176.3	0.00	0.00	0.00
10,000.0	3.57	261.98	9,992.3	-197.0	-267.1	-176.7	0.00	0.00	0.00
10,100.0	3.57	261.98	10,092.1	-197.9	-273.3	-177.1	0.00	0.00	0.00
10,200.0	3.57	261.98	10,191.9	-198.8	-279.5	-177.5	0.00	0.00	0.00
10,300.0	3.57	261.98	10,291.7	-199.6	-285.6	-177.9	0.00	0.00	0.00
10,331.7	3.57	261.98	10,323.4	-199.9	-287.6	-178.1	0.00	0.00	0.00
10,350.0	3.79	290.58	10,341.6	-199.8	-288.7	-177.9	10.00	1.19	156.41



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: #503H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #503H
TVD Reference: KB = 25 @ 3631.0usft (H&P 651)
MD Reference: KB = 25 @ 3631.0usft (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)
10,400.0	7.27	330.63	10,391.4	-166.4	-291.8	-174.3	10.00	6.96	80.11
10,450.0	11.88	342.55	10,440.7	-188.8	-294.9	-166.4	10.00	9.23	23.83
10,500.0	16.72	347.76	10,489.1	-176.8	-298.0	-154.3	10.00	9.67	10.42
10,550.0	21.63	350.66	10,536.4	-160.7	-301.0	-138.0	10.00	9.82	5.81
10,600.0	26.57	352.53	10,582.0	-140.5	-303.9	-117.6	10.00	9.88	3.74
10,650.0	31.53	353.85	10,625.7	-116.4	-306.8	-93.4	10.00	9.92	2.64
10,700.0	36.50	354.84	10,667.1	-88.6	-309.5	-65.4	10.00	9.94	1.98
10,750.0	41.48	355.62	10,706.0	-57.2	-312.1	-34.0	10.00	9.95	1.56
10,800.0	46.46	356.27	10,741.9	-22.6	-314.6	0.7	10.00	9.96	1.28
10,850.0	51.44	356.81	10,774.8	15.0	-316.9	38.4	10.00	9.97	1.09
10,900.0	56.43	357.28	10,804.2	55.4	-318.9	78.8	10.00	9.97	0.95
10,950.0	61.41	357.70	10,830.0	98.1	-320.8	121.6	10.00	9.97	0.84
10,962.9	62.70	357.81	10,836.0	109.5	-321.2	133.0	10.00	9.98	0.79
FTP(Nep 10 ST Com #503H)									
11,000.0	66.40	358.09	10,852.0	143.0	-322.4	166.5	10.00	9.98	0.76
11,050.0	71.39	358.44	10,870.0	189.6	-323.9	213.1	10.00	9.98	0.71
11,100.0	76.38	358.78	10,883.9	237.6	-325.0	261.0	10.00	9.98	0.67
11,150.0	81.37	359.10	10,893.5	286.7	-325.9	310.0	10.00	9.98	0.64
11,200.0	86.36	359.41	10,898.8	336.3	-326.6	359.6	10.00	9.98	0.62
11,236.5	90.00	359.63	10,900.0	372.8	-326.9	396.0	10.00	9.98	0.62
11,300.0	90.00	359.63	10,900.0	436.3	-327.3	459.3	0.00	0.00	0.00
11,400.0	90.00	359.63	10,900.0	536.3	-327.9	559.1	0.00	0.00	0.00
11,500.0	90.00	359.63	10,900.0	636.3	-328.6	658.9	0.00	0.00	0.00
11,600.0	90.00	359.63	10,900.0	736.3	-329.2	758.7	0.00	0.00	0.00
11,700.0	90.00	359.63	10,900.0	836.3	-329.8	858.4	0.00	0.00	0.00
11,800.0	90.00	359.63	10,900.0	936.3	-330.5	958.2	0.00	0.00	0.00
11,900.0	90.00	359.63	10,900.0	1,036.3	-331.1	1,058.0	0.00	0.00	0.00
12,000.0	90.00	359.63	10,900.0	1,136.3	-331.7	1,157.7	0.00	0.00	0.00
12,100.0	90.00	359.63	10,900.0	1,236.3	-332.4	1,257.5	0.00	0.00	0.00
12,200.0	90.00	359.63	10,900.0	1,336.3	-333.0	1,357.3	0.00	0.00	0.00
12,300.0	90.00	359.63	10,900.0	1,436.3	-333.7	1,457.1	0.00	0.00	0.00
12,400.0	90.00	359.63	10,900.0	1,536.3	-334.3	1,556.8	0.00	0.00	0.00
12,500.0	90.00	359.63	10,900.0	1,636.3	-334.9	1,656.6	0.00	0.00	0.00
12,600.0	90.00	359.63	10,900.0	1,736.3	-335.6	1,756.4	0.00	0.00	0.00
12,700.0	90.00	359.63	10,900.0	1,836.3	-336.2	1,856.1	0.00	0.00	0.00
12,800.0	90.00	359.63	10,900.0	1,936.3	-336.8	1,955.9	0.00	0.00	0.00
12,900.0	90.00	359.63	10,900.0	2,036.3	-337.5	2,055.7	0.00	0.00	0.00
13,000.0	90.00	359.63	10,900.0	2,136.3	-338.1	2,155.5	0.00	0.00	0.00
13,100.0	90.00	359.63	10,900.0	2,236.3	-338.8	2,255.2	0.00	0.00	0.00
13,200.0	90.00	359.63	10,900.0	2,336.3	-339.4	2,355.0	0.00	0.00	0.00
13,300.0	90.00	359.63	10,900.0	2,436.3	-340.0	2,454.8	0.00	0.00	0.00
13,400.0	90.00	359.63	10,900.0	2,536.3	-340.7	2,554.5	0.00	0.00	0.00
13,500.0	90.00	359.63	10,900.0	2,636.3	-341.3	2,654.3	0.00	0.00	0.00
13,600.0	90.00	359.63	10,900.0	2,736.3	-341.9	2,754.1	0.00	0.00	0.00
13,700.0	90.00	359.63	10,900.0	2,836.3	-342.6	2,853.8	0.00	0.00	0.00
13,800.0	90.00	359.63	10,900.0	2,936.3	-343.2	2,953.6	0.00	0.00	0.00
13,900.0	90.00	359.63	10,900.0	3,036.3	-343.9	3,053.4	0.00	0.00	0.00
14,000.0	90.00	359.63	10,900.0	3,136.3	-344.5	3,153.2	0.00	0.00	0.00
14,100.0	90.00	359.63	10,900.0	3,236.3	-345.1	3,252.9	0.00	0.00	0.00
14,200.0	90.00	359.63	10,900.0	3,336.3	-345.8	3,352.7	0.00	0.00	0.00
14,300.0	90.00	359.63	10,900.0	3,436.3	-346.4	3,452.5	0.00	0.00	0.00
14,400.0	90.00	359.63	10,900.0	3,536.3	-347.1	3,552.2	0.00	0.00	0.00
14,500.0	90.00	359.63	10,900.0	3,636.3	-347.7	3,652.0	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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MD Reference: KB = 25 @ 3631.0usft (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)
14,600.0	90.00	359.63	10,900.0	3,736.3	-348.3	3,751.8	0.00	0.00	0.00
14,700.0	90.00	359.63	10,900.0	3,836.3	-349.0	3,851.6	0.00	0.00	0.00
14,800.0	90.00	359.63	10,900.0	3,936.3	-349.6	3,951.3	0.00	0.00	0.00
14,900.0	90.00	359.63	10,900.0	4,036.2	-350.2	4,051.1	0.00	0.00	0.00
15,000.0	90.00	359.63	10,900.0	4,136.2	-350.9	4,150.9	0.00	0.00	0.00
15,100.0	90.00	359.63	10,900.0	4,236.2	-351.5	4,250.6	0.00	0.00	0.00
15,200.0	90.00	359.63	10,900.0	4,336.2	-352.2	4,350.4	0.00	0.00	0.00
15,300.0	90.00	359.63	10,900.0	4,436.2	-352.8	4,450.2	0.00	0.00	0.00
15,400.0	90.00	359.63	10,900.0	4,536.2	-353.4	4,550.0	0.00	0.00	0.00
15,500.0	90.00	359.63	10,900.0	4,636.2	-354.1	4,649.7	0.00	0.00	0.00
15,600.0	90.00	359.63	10,900.0	4,736.2	-354.7	4,749.5	0.00	0.00	0.00
15,646.8	90.00	359.63	10,900.0	4,783.0	-355.0	4,796.2	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
- hit/miss target									
- Shape									
FTP(Nep 10 ST Com #1	0.00	0.01	10,900.0	78.0	-325.0	446,683.00	740,996.00	32° 13' 32.325 N	103° 33' 14.434 W
- plan misses target center by 71.4usft at 10962.9usft MD (10836.0 TVD, 109.5 N, -321.2 E)									
- Point									
PBHL(Nep 10 ST Com :	0.00	0.00	10,900.0	4,783.0	-355.0	451,388.00	740,966.00	32° 14' 18.886 N	103° 33' 14.386 W
- plan hits target center									
- Point									

EOG RESOURCES, INC.
NEPTUNE 10 STATE COM #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 th 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 #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 COM #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

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