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	[2]Pool Code	[3]Pool Name
30-025-	96674	Triple X; Bone Spring, West

[4]Property Code	[5]Property Name	[6]Well Number
313956	NEPTUNE 10 STATE COM	504H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3610'

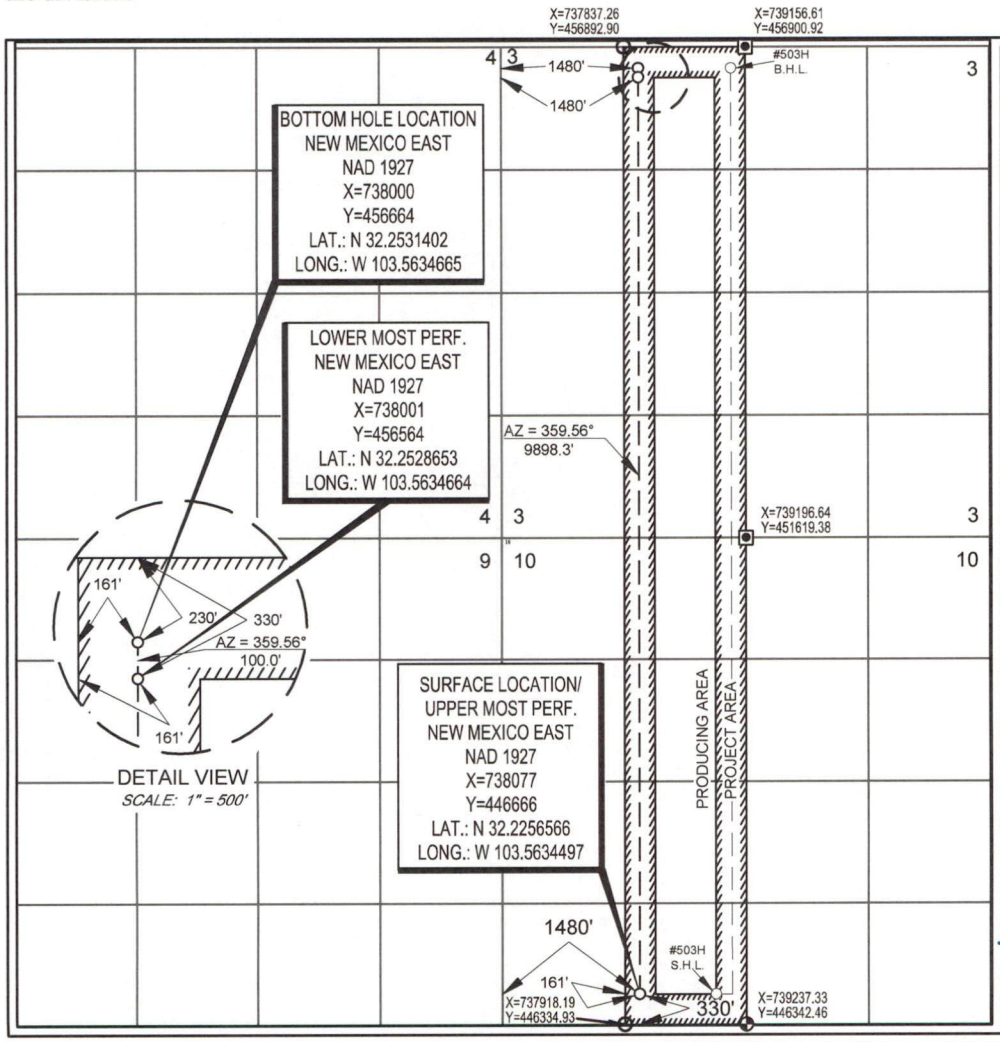
[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	24-S	33-E	-	330'	SOUTH	1480'	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	1480'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
320.10			

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.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 10/19/16
Signature Date

Stan Wagner
Printed Name

E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

10/03/2016
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

Y:\SURVEY\EOG_MIDLAND\NEPTUNE_10_STATE_COM\FINAL_PRODUCTS\LO_NEPTUNE10STATE_COM_504H.DWG 10/11/2016 2:59:32 PM tstewart

Permit Information:

Well Name: Neptune 10 State No. 504H

Location:

SL: 330' FSL & 1480' FWL, Section 10, T-24-S, R-33-E, Lea Co., N.M.
BHL: 230' FNL & 1480' 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' – 21,214	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% CaCl2 + 4% Gel + 0.25 pps Celloflake
	300	14.8	1.34	Class C + 2% CaCl2
5,200'	1200	12.7	1.90	35:65 Poz:Class C + 6% Gel + 3% CaCl2 + 0.5% CPT-45 + 0.45% CPT-20
	450	14.8	1.33	Class C + 0.20% CPT-19
21,214'	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' – 21,214' Lateral	Brine	8.8-10.0	28-34	N/c

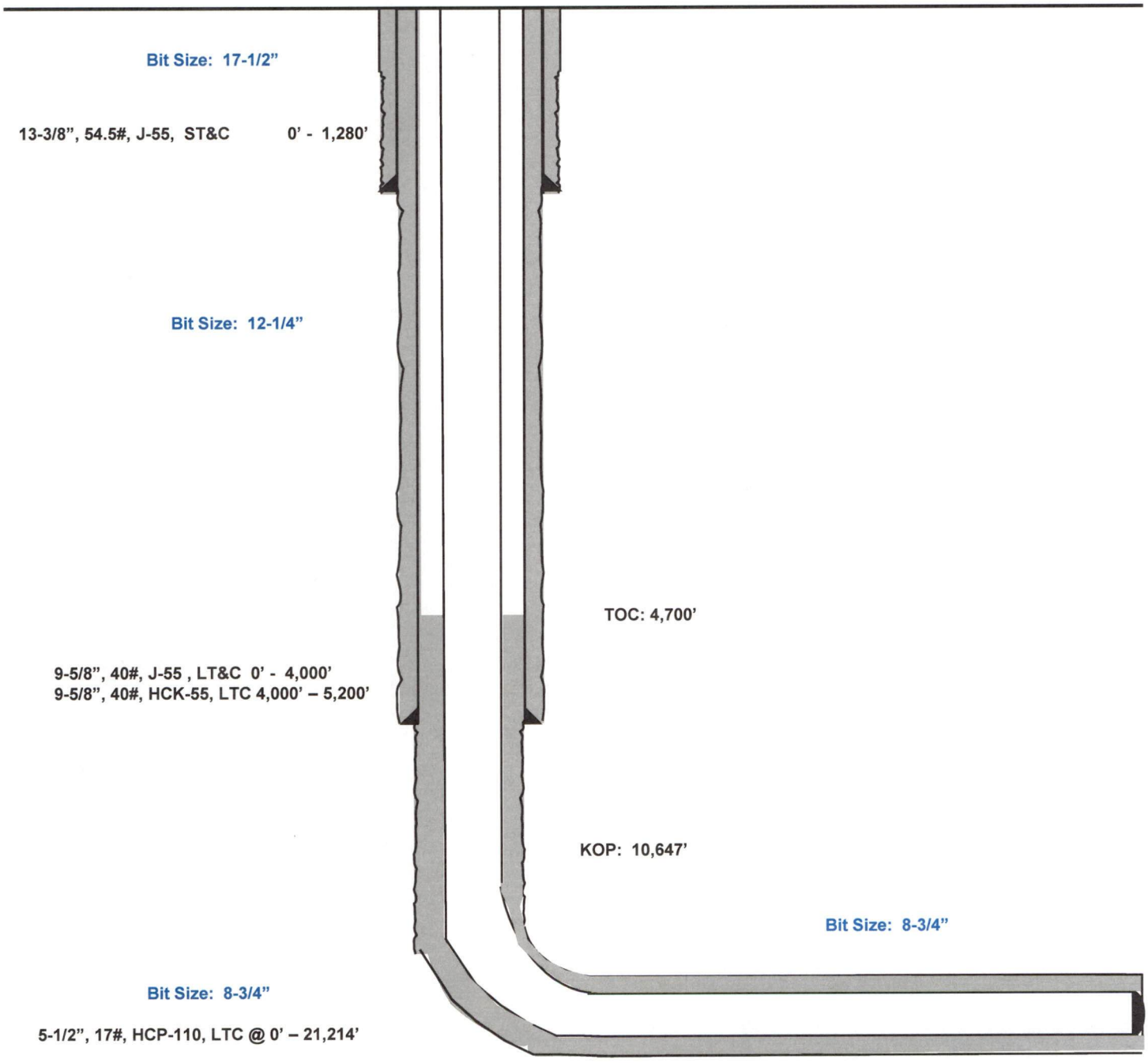
Neptune 10 State #504H

Lea County, New Mexico
Proposed Wellbore

330' FSL
1480' FWL
Section 10
T-24-S, R-33-E

API: 30-025-*****

KB: 3,635'
GL: 3,610'



Lateral: 21,214' MD, 11,140' TVD

BH Location: 230' FNL & 1480' FWL
Section 3
T-24-S, R-33-E

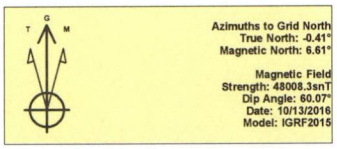
eog resources

Lea County, NM (NAD 27 NME)

Neptune 10 State Com #504H

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



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.61°

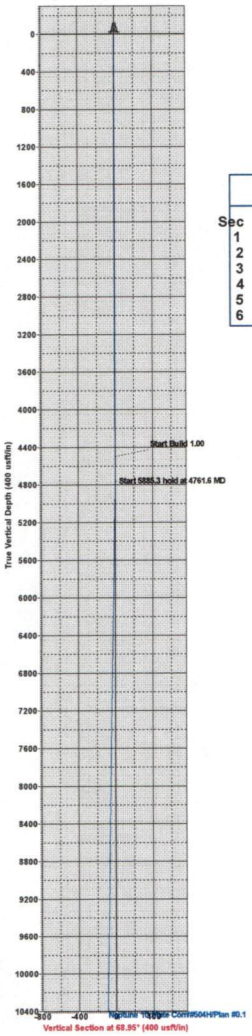
Magnetic Field
Strength: 48008.3snT
Dip Angle: 60.07°
Date: 10/13/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.61°
To convert a Magnetic Direction to a True Direction, Add 7.02° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #504H			
Ground Level: 3610.0			
KB = 25' @ 3635.0usft			
Northing	Easting	Latitude	Longitude
446666.00	738077.00	32° 13' 32.365 N	103° 33' 48.414 W

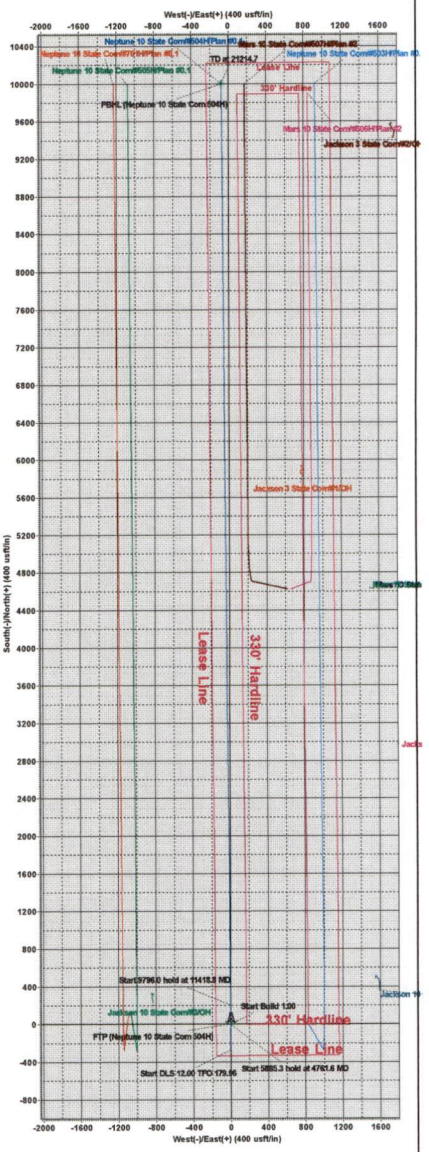
SECTION DETAILS

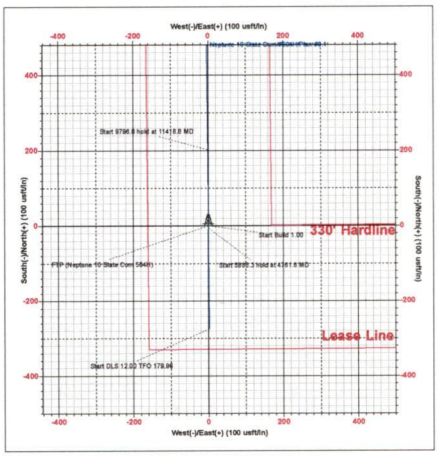
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4761.6	2.62	179.60	4761.6	-6.0	0.0	1.00	179.60	-6.0	
4	10647.0	2.62	179.60	10640.7	-274.6	1.9	0.00	0.00	-274.6	
5	11418.8	90.00	359.56	11140.0	202.3	-1.8	12.00	179.96	202.3	
6	21214.7	90.00	359.56	11140.0	9998.0	-77.0	0.00	0.00	9998.3	PBHL (Neptune 10 State Com 504H)

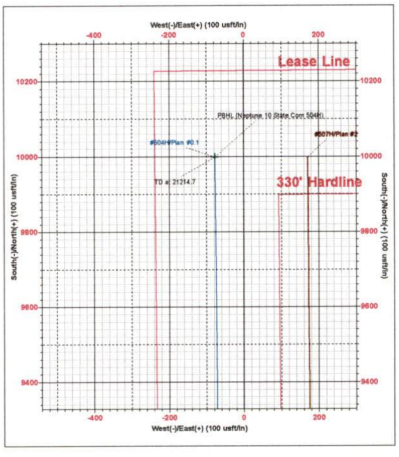


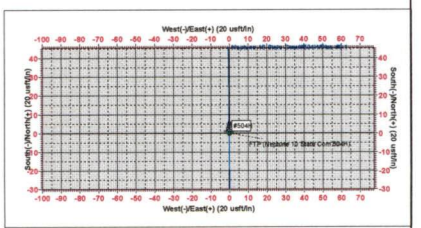
CASING DETAILS
No casing data is available

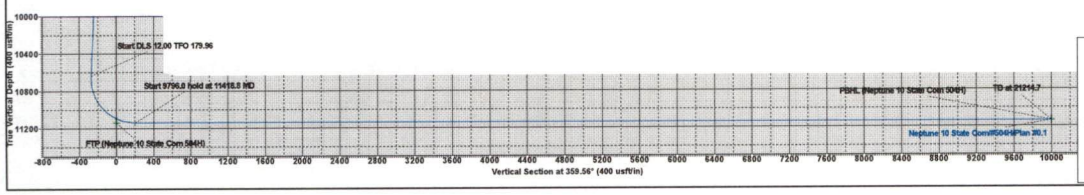
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Neptune 10 State Com 504H)	11140.0	0.0	0.0	446666.00	738077.00
PBHL (Neptune 10 State Com 504H)	11140.0	9998.0	-77.0	456664.00	738000.00

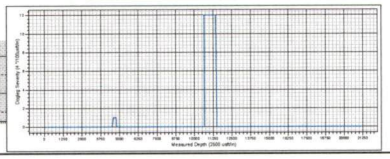












EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Neptune 10 State Com
#504H

OH

Plan: Plan #0.1

Standard Planning Report

14 October, 2016

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #504H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3635.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3635.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#504H	**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	**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	#504H					
Well Position	**+N/-S**	63.0 usft	**Northing:**	446,666.00 usft	**Latitude:**	32° 13' 32.365 N
	+E/-W	-2,704.0 usft	**Easting:**	738,077.00 usft	**Longitude:**	103° 33' 48.414 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,610.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	10/13/2016	7.02	60.07	48,008

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)**	**Direction (°)**
	0.0	0.0	0.0	359.56

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	
4,761.6	2.62	179.60	4,761.6	-6.0	0.0	1.00	1.00	0.00	179.60	
10,647.0	2.62	179.60	10,640.7	-274.6	1.9	0.00	0.00	0.00	0.00	
11,418.8	90.00	359.56	11,140.0	202.3	-1.8	12.00	11.32	23.32	179.96	
21,214.7	90.00	359.56	11,140.0	9,998.0	-77.0	0.00	0.00	0.00	0.00	PBHL (Neptune 10 St

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #504H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3635.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3635.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#504H	**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	179.60	4,600.0	-0.9	0.0	-0.9	1.00	1.00	0.00
4,700.0	2.00	179.60	4,700.0	-3.5	0.0	-3.5	1.00	1.00	0.00
4,761.6	2.62	179.60	4,761.6	-6.0	0.0	-6.0	1.00	1.00	0.00
4,800.0	2.62	179.60	4,799.9	-7.7	0.1	-7.7	0.00	0.00	0.00
4,900.0	2.62	179.60	4,899.8	-12.3	0.1	-12.3	0.00	0.00	0.00
5,000.0	2.62	179.60	4,999.7	-16.9	0.1	-16.9	0.00	0.00	0.00
5,100.0	2.62	179.60	5,099.6	-21.4	0.1	-21.4	0.00	0.00	0.00
5,200.0	2.62	179.60	5,199.5	-26.0	0.2	-26.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #504H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3635.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3635.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#504H	**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	2.62	179.60	5,299.3	-30.5	0.2	-30.5	0.00	0.00	0.00
5,400.0	2.62	179.60	5,399.2	-35.1	0.2	-35.1	0.00	0.00	0.00
5,500.0	2.62	179.60	5,499.1	-39.7	0.3	-39.7	0.00	0.00	0.00
5,600.0	2.62	179.60	5,599.0	-44.2	0.3	-44.2	0.00	0.00	0.00
5,700.0	2.62	179.60	5,698.9	-48.8	0.3	-48.8	0.00	0.00	0.00
5,800.0	2.62	179.60	5,798.8	-53.4	0.4	-53.4	0.00	0.00	0.00
5,900.0	2.62	179.60	5,898.7	-57.9	0.4	-57.9	0.00	0.00	0.00
6,000.0	2.62	179.60	5,998.6	-62.5	0.4	-62.5	0.00	0.00	0.00
6,100.0	2.62	179.60	6,098.5	-67.1	0.5	-67.1	0.00	0.00	0.00
6,200.0	2.62	179.60	6,198.4	-71.6	0.5	-71.6	0.00	0.00	0.00
6,300.0	2.62	179.60	6,298.3	-76.2	0.5	-76.2	0.00	0.00	0.00
6,400.0	2.62	179.60	6,398.2	-80.8	0.6	-80.8	0.00	0.00	0.00
6,500.0	2.62	179.60	6,498.1	-85.3	0.6	-85.3	0.00	0.00	0.00
6,600.0	2.62	179.60	6,598.0	-89.9	0.6	-89.9	0.00	0.00	0.00
6,700.0	2.62	179.60	6,697.9	-94.5	0.7	-94.5	0.00	0.00	0.00
6,800.0	2.62	179.60	6,797.8	-99.0	0.7	-99.0	0.00	0.00	0.00
6,900.0	2.62	179.60	6,897.7	-103.6	0.7	-103.6	0.00	0.00	0.00
7,000.0	2.62	179.60	6,997.6	-108.2	0.8	-108.2	0.00	0.00	0.00
7,100.0	2.62	179.60	7,097.5	-112.7	0.8	-112.7	0.00	0.00	0.00
7,200.0	2.62	179.60	7,197.4	-117.3	0.8	-117.3	0.00	0.00	0.00
7,300.0	2.62	179.60	7,297.3	-121.8	0.8	-121.8	0.00	0.00	0.00
7,400.0	2.62	179.60	7,397.2	-126.4	0.9	-126.4	0.00	0.00	0.00
7,500.0	2.62	179.60	7,497.1	-131.0	0.9	-131.0	0.00	0.00	0.00
7,600.0	2.62	179.60	7,597.0	-135.5	0.9	-135.5	0.00	0.00	0.00
7,700.0	2.62	179.60	7,696.8	-140.1	1.0	-140.1	0.00	0.00	0.00
7,800.0	2.62	179.60	7,796.7	-144.7	1.0	-144.7	0.00	0.00	0.00
7,900.0	2.62	179.60	7,896.6	-149.2	1.0	-149.2	0.00	0.00	0.00
8,000.0	2.62	179.60	7,996.5	-153.8	1.1	-153.8	0.00	0.00	0.00
8,100.0	2.62	179.60	8,096.4	-158.4	1.1	-158.4	0.00	0.00	0.00
8,200.0	2.62	179.60	8,196.3	-162.9	1.1	-162.9	0.00	0.00	0.00
8,300.0	2.62	179.60	8,296.2	-167.5	1.2	-167.5	0.00	0.00	0.00
8,400.0	2.62	179.60	8,396.1	-172.1	1.2	-172.1	0.00	0.00	0.00
8,500.0	2.62	179.60	8,496.0	-176.6	1.2	-176.6	0.00	0.00	0.00
8,600.0	2.62	179.60	8,595.9	-181.2	1.3	-181.2	0.00	0.00	0.00
8,700.0	2.62	179.60	8,695.8	-185.8	1.3	-185.8	0.00	0.00	0.00
8,800.0	2.62	179.60	8,795.7	-190.3	1.3	-190.3	0.00	0.00	0.00
8,900.0	2.62	179.60	8,895.6	-194.9	1.4	-194.9	0.00	0.00	0.00
9,000.0	2.62	179.60	8,995.5	-199.4	1.4	-199.5	0.00	0.00	0.00
9,100.0	2.62	179.60	9,095.4	-204.0	1.4	-204.0	0.00	0.00	0.00
9,200.0	2.62	179.60	9,195.3	-208.6	1.4	-208.6	0.00	0.00	0.00
9,300.0	2.62	179.60	9,295.2	-213.1	1.5	-213.1	0.00	0.00	0.00
9,400.0	2.62	179.60	9,395.1	-217.7	1.5	-217.7	0.00	0.00	0.00
9,500.0	2.62	179.60	9,495.0	-222.3	1.5	-222.3	0.00	0.00	0.00
9,600.0	2.62	179.60	9,594.9	-226.8	1.6	-226.8	0.00	0.00	0.00
9,700.0	2.62	179.60	9,694.8	-231.4	1.6	-231.4	0.00	0.00	0.00
9,800.0	2.62	179.60	9,794.7	-236.0	1.6	-236.0	0.00	0.00	0.00
9,900.0	2.62	179.60	9,894.6	-240.5	1.7	-240.5	0.00	0.00	0.00
10,000.0	2.62	179.60	9,994.4	-245.1	1.7	-245.1	0.00	0.00	0.00
10,100.0	2.62	179.60	10,094.3	-249.7	1.7	-249.7	0.00	0.00	0.00
10,200.0	2.62	179.60	10,194.2	-254.2	1.8	-254.2	0.00	0.00	0.00
10,300.0	2.62	179.60	10,294.1	-258.8	1.8	-258.8	0.00	0.00	0.00
10,400.0	2.62	179.60	10,394.0	-263.4	1.8	-263.4	0.00	0.00	0.00
10,500.0	2.62	179.60	10,493.9	-267.9	1.9	-267.9	0.00	0.00	0.00
10,600.0	2.62	179.60	10,593.8	-272.5	1.9	-272.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #504H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3635.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3635.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#504H	**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)
10,647.0	2.62	179.60	10,640.7	-274.6	1.9	-274.6	0.00	0.00	0.00
10,650.0	2.25	179.61	10,643.8	-274.8	1.9	-274.8	12.00	-12.00	0.23
10,675.0	0.75	359.41	10,668.8	-275.1	1.9	-275.1	12.00	-6.02	719.21
10,700.0	3.75	359.53	10,693.7	-274.1	1.9	-274.1	12.00	12.00	0.47
10,725.0	6.75	359.54	10,718.6	-271.8	1.9	-271.8	12.00	12.00	0.05
10,750.0	9.75	359.55	10,743.4	-268.2	1.9	-268.2	12.00	12.00	0.02
10,775.0	12.75	359.55	10,767.9	-263.4	1.8	-263.4	12.00	12.00	0.01
10,800.0	15.75	359.55	10,792.1	-257.2	1.8	-257.2	12.00	12.00	0.01
10,825.0	18.75	359.55	10,816.0	-249.8	1.7	-249.8	12.00	12.00	0.00
10,850.0	21.75	359.56	10,839.4	-241.1	1.6	-241.1	12.00	12.00	0.00
10,875.0	24.75	359.56	10,862.4	-231.3	1.6	-231.3	12.00	12.00	0.00
10,900.0	27.75	359.56	10,884.8	-220.2	1.5	-220.2	12.00	12.00	0.00
10,925.0	30.75	359.56	10,906.6	-208.0	1.4	-208.0	12.00	12.00	0.00
10,950.0	33.75	359.56	10,927.8	-194.7	1.3	-194.7	12.00	12.00	0.00
10,975.0	36.75	359.56	10,948.2	-180.2	1.2	-180.3	12.00	12.00	0.00
11,000.0	39.75	359.56	10,967.8	-164.8	1.1	-164.8	12.00	12.00	0.00
11,025.0	42.75	359.56	10,986.6	-148.3	0.9	-148.3	12.00	12.00	0.00
11,050.0	45.75	359.56	11,004.5	-130.9	0.8	-130.9	12.00	12.00	0.00
11,075.0	48.75	359.56	11,021.5	-112.5	0.6	-112.5	12.00	12.00	0.00
11,100.0	51.75	359.56	11,037.5	-93.3	0.5	-93.3	12.00	12.00	0.00
11,125.0	54.75	359.56	11,052.4	-73.3	0.3	-73.3	12.00	12.00	0.00
11,150.0	57.75	359.56	11,066.3	-52.5	0.2	-52.5	12.00	12.00	0.00
11,175.0	60.75	359.56	11,079.1	-31.0	0.0	-31.0	12.00	12.00	0.00
11,200.0	63.75	359.56	11,090.8	-8.9	-0.1	-8.9	12.00	12.00	0.00
11,225.0	66.75	359.56	11,101.2	13.8	-0.3	13.8	12.00	12.00	0.00
11,226.5	66.93	359.56	11,101.8	15.2	-0.3	15.2	12.00	12.00	0.00
FTP (Neptune 10 State Com 504H)									
11,250.0	69.75	359.56	11,110.5	37.1	-0.5	37.1	12.00	12.00	0.00
11,275.0	72.75	359.56	11,118.5	60.7	-0.7	60.7	12.00	12.00	0.00
11,300.0	75.75	359.56	11,125.3	84.8	-0.9	84.8	12.00	12.00	0.00
11,325.0	78.75	359.56	11,130.8	109.2	-1.1	109.2	12.00	12.00	0.00
11,350.0	81.75	359.56	11,135.1	133.8	-1.2	133.8	12.00	12.00	0.00
11,375.0	84.75	359.56	11,138.0	158.6	-1.4	158.6	12.00	12.00	0.00
11,400.0	87.75	359.56	11,139.6	183.6	-1.6	183.6	12.00	12.00	0.00
11,418.8	90.00	359.56	11,140.0	202.3	-1.8	202.3	12.00	12.00	0.00
11,500.0	90.00	359.56	11,140.0	283.6	-2.4	283.6	0.00	0.00	0.00
11,600.0	90.00	359.56	11,140.0	383.5	-3.2	383.6	0.00	0.00	0.00
11,700.0	90.00	359.56	11,140.0	483.5	-3.9	483.6	0.00	0.00	0.00
11,800.0	90.00	359.56	11,140.0	583.5	-4.7	583.6	0.00	0.00	0.00
11,900.0	90.00	359.56	11,140.0	683.5	-5.5	683.6	0.00	0.00	0.00
12,000.0	90.00	359.56	11,140.0	783.5	-6.2	783.6	0.00	0.00	0.00
12,100.0	90.00	359.56	11,140.0	883.5	-7.0	883.6	0.00	0.00	0.00
12,200.0	90.00	359.56	11,140.0	983.5	-7.8	983.6	0.00	0.00	0.00
12,300.0	90.00	359.56	11,140.0	1,083.5	-8.5	1,083.6	0.00	0.00	0.00
12,400.0	90.00	359.56	11,140.0	1,183.5	-9.3	1,183.6	0.00	0.00	0.00
12,500.0	90.00	359.56	11,140.0	1,283.5	-10.1	1,283.6	0.00	0.00	0.00
12,600.0	90.00	359.56	11,140.0	1,383.5	-10.8	1,383.6	0.00	0.00	0.00
12,700.0	90.00	359.56	11,140.0	1,483.5	-11.6	1,483.6	0.00	0.00	0.00
12,800.0	90.00	359.56	11,140.0	1,583.5	-12.4	1,583.6	0.00	0.00	0.00
12,900.0	90.00	359.56	11,140.0	1,683.5	-13.1	1,683.6	0.00	0.00	0.00
13,000.0	90.00	359.56	11,140.0	1,783.5	-13.9	1,783.6	0.00	0.00	0.00
13,100.0	90.00	359.56	11,140.0	1,883.5	-14.7	1,883.6	0.00	0.00	0.00
13,200.0	90.00	359.56	11,140.0	1,983.5	-15.5	1,983.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #504H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3635.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3635.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#504H	**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	359.56	11,140.0	2,083.5	-16.2	2,083.6	0.00	0.00	0.00
13,400.0	90.00	359.56	11,140.0	2,183.5	-17.0	2,183.6	0.00	0.00	0.00
13,500.0	90.00	359.56	11,140.0	2,283.5	-17.8	2,283.6	0.00	0.00	0.00
13,600.0	90.00	359.56	11,140.0	2,383.5	-18.5	2,383.6	0.00	0.00	0.00
13,700.0	90.00	359.56	11,140.0	2,483.5	-19.3	2,483.6	0.00	0.00	0.00
13,800.0	90.00	359.56	11,140.0	2,583.5	-20.1	2,583.6	0.00	0.00	0.00
13,900.0	90.00	359.56	11,140.0	2,683.5	-20.8	2,683.6	0.00	0.00	0.00
14,000.0	90.00	359.56	11,140.0	2,783.5	-21.6	2,783.6	0.00	0.00	0.00
14,100.0	90.00	359.56	11,140.0	2,883.5	-22.4	2,883.6	0.00	0.00	0.00
14,200.0	90.00	359.56	11,140.0	2,983.5	-23.1	2,983.6	0.00	0.00	0.00
14,300.0	90.00	359.56	11,140.0	3,083.5	-23.9	3,083.6	0.00	0.00	0.00
14,400.0	90.00	359.56	11,140.0	3,183.5	-24.7	3,183.6	0.00	0.00	0.00
14,500.0	90.00	359.56	11,140.0	3,283.5	-25.4	3,283.6	0.00	0.00	0.00
14,600.0	90.00	359.56	11,140.0	3,383.5	-26.2	3,383.6	0.00	0.00	0.00
14,700.0	90.00	359.56	11,140.0	3,483.5	-27.0	3,483.6	0.00	0.00	0.00
14,800.0	90.00	359.56	11,140.0	3,583.5	-27.7	3,583.6	0.00	0.00	0.00
14,900.0	90.00	359.56	11,140.0	3,683.5	-28.5	3,683.6	0.00	0.00	0.00
15,000.0	90.00	359.56	11,140.0	3,783.4	-29.3	3,783.6	0.00	0.00	0.00
15,100.0	90.00	359.56	11,140.0	3,883.4	-30.0	3,883.6	0.00	0.00	0.00
15,200.0	90.00	359.56	11,140.0	3,983.4	-30.8	3,983.6	0.00	0.00	0.00
15,300.0	90.00	359.56	11,140.0	4,083.4	-31.6	4,083.6	0.00	0.00	0.00
15,400.0	90.00	359.56	11,140.0	4,183.4	-32.3	4,183.6	0.00	0.00	0.00
15,500.0	90.00	359.56	11,140.0	4,283.4	-33.1	4,283.6	0.00	0.00	0.00
15,600.0	90.00	359.56	11,140.0	4,383.4	-33.9	4,383.6	0.00	0.00	0.00
15,700.0	90.00	359.56	11,140.0	4,483.4	-34.7	4,483.6	0.00	0.00	0.00
15,800.0	90.00	359.56	11,140.0	4,583.4	-35.4	4,583.6	0.00	0.00	0.00
15,900.0	90.00	359.56	11,140.0	4,683.4	-36.2	4,683.6	0.00	0.00	0.00
16,000.0	90.00	359.56	11,140.0	4,783.4	-37.0	4,783.6	0.00	0.00	0.00
16,100.0	90.00	359.56	11,140.0	4,883.4	-37.7	4,883.6	0.00	0.00	0.00
16,200.0	90.00	359.56	11,140.0	4,983.4	-38.5	4,983.6	0.00	0.00	0.00
16,300.0	90.00	359.56	11,140.0	5,083.4	-39.3	5,083.6	0.00	0.00	0.00
16,400.0	90.00	359.56	11,140.0	5,183.4	-40.0	5,183.6	0.00	0.00	0.00
16,500.0	90.00	359.56	11,140.0	5,283.4	-40.8	5,283.6	0.00	0.00	0.00
16,600.0	90.00	359.56	11,140.0	5,383.4	-41.6	5,383.6	0.00	0.00	0.00
16,700.0	90.00	359.56	11,140.0	5,483.4	-42.3	5,483.6	0.00	0.00	0.00
16,800.0	90.00	359.56	11,140.0	5,583.4	-43.1	5,583.6	0.00	0.00	0.00
16,900.0	90.00	359.56	11,140.0	5,683.4	-43.9	5,683.6	0.00	0.00	0.00
17,000.0	90.00	359.56	11,140.0	5,783.4	-44.6	5,783.6	0.00	0.00	0.00
17,100.0	90.00	359.56	11,140.0	5,883.4	-45.4	5,883.6	0.00	0.00	0.00
17,200.0	90.00	359.56	11,140.0	5,983.4	-46.2	5,983.6	0.00	0.00	0.00
17,300.0	90.00	359.56	11,140.0	6,083.4	-46.9	6,083.6	0.00	0.00	0.00
17,400.0	90.00	359.56	11,140.0	6,183.4	-47.7	6,183.6	0.00	0.00	0.00
17,500.0	90.00	359.56	11,140.0	6,283.4	-48.5	6,283.6	0.00	0.00	0.00
17,600.0	90.00	359.56	11,140.0	6,383.4	-49.2	6,383.6	0.00	0.00	0.00
17,700.0	90.00	359.56	11,140.0	6,483.4	-50.0	6,483.6	0.00	0.00	0.00
17,800.0	90.00	359.56	11,140.0	6,583.4	-50.8	6,583.6	0.00	0.00	0.00
17,900.0	90.00	359.56	11,140.0	6,683.4	-51.5	6,683.6	0.00	0.00	0.00
18,000.0	90.00	359.56	11,140.0	6,783.4	-52.3	6,783.6	0.00	0.00	0.00
18,100.0	90.00	359.56	11,140.0	6,883.4	-53.1	6,883.6	0.00	0.00	0.00
18,200.0	90.00	359.56	11,140.0	6,983.4	-53.8	6,983.6	0.00	0.00	0.00
18,300.0	90.00	359.56	11,140.0	7,083.4	-54.6	7,083.6	0.00	0.00	0.00
18,400.0	90.00	359.56	11,140.0	7,183.3	-55.4	7,183.6	0.00	0.00	0.00
18,500.0	90.00	359.56	11,140.0	7,283.3	-56.2	7,283.6	0.00	0.00	0.00
18,600.0	90.00	359.56	11,140.0	7,383.3	-56.9	7,383.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #504H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3635.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25' @ 3635.0usft
Site:	Neptune 10 State Com	**North Reference:**	Grid
Well:	#504H	**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	359.56	11,140.0	7,483.3	-57.7	7,483.6	0.00	0.00	0.00
18,800.0	90.00	359.56	11,140.0	7,583.3	-58.5	7,583.6	0.00	0.00	0.00
18,900.0	90.00	359.56	11,140.0	7,683.3	-59.2	7,683.6	0.00	0.00	0.00
19,000.0	90.00	359.56	11,140.0	7,783.3	-60.0	7,783.6	0.00	0.00	0.00
19,100.0	90.00	359.56	11,140.0	7,883.3	-60.8	7,883.6	0.00	0.00	0.00
19,200.0	90.00	359.56	11,140.0	7,983.3	-61.5	7,983.6	0.00	0.00	0.00
19,300.0	90.00	359.56	11,140.0	8,083.3	-62.3	8,083.6	0.00	0.00	0.00
19,400.0	90.00	359.56	11,140.0	8,183.3	-63.1	8,183.6	0.00	0.00	0.00
19,500.0	90.00	359.56	11,140.0	8,283.3	-63.8	8,283.6	0.00	0.00	0.00
19,600.0	90.00	359.56	11,140.0	8,383.3	-64.6	8,383.6	0.00	0.00	0.00
19,700.0	90.00	359.56	11,140.0	8,483.3	-65.4	8,483.6	0.00	0.00	0.00
19,800.0	90.00	359.56	11,140.0	8,583.3	-66.1	8,583.6	0.00	0.00	0.00
19,900.0	90.00	359.56	11,140.0	8,683.3	-66.9	8,683.6	0.00	0.00	0.00
20,000.0	90.00	359.56	11,140.0	8,783.3	-67.7	8,783.6	0.00	0.00	0.00
20,100.0	90.00	359.56	11,140.0	8,883.3	-68.4	8,883.6	0.00	0.00	0.00
20,200.0	90.00	359.56	11,140.0	8,983.3	-69.2	8,983.6	0.00	0.00	0.00
20,300.0	90.00	359.56	11,140.0	9,083.3	-70.0	9,083.6	0.00	0.00	0.00
20,400.0	90.00	359.56	11,140.0	9,183.3	-70.7	9,183.6	0.00	0.00	0.00
20,500.0	90.00	359.56	11,140.0	9,283.3	-71.5	9,283.6	0.00	0.00	0.00
20,600.0	90.00	359.56	11,140.0	9,383.3	-72.3	9,383.6	0.00	0.00	0.00
20,700.0	90.00	359.56	11,140.0	9,483.3	-73.0	9,483.6	0.00	0.00	0.00
20,800.0	90.00	359.56	11,140.0	9,583.3	-73.8	9,583.6	0.00	0.00	0.00
20,900.0	90.00	359.56	11,140.0	9,683.3	-74.6	9,683.6	0.00	0.00	0.00
21,000.0	90.00	359.56	11,140.0	9,783.3	-75.4	9,783.6	0.00	0.00	0.00
21,100.0	90.00	359.56	11,140.0	9,883.3	-76.1	9,883.6	0.00	0.00	0.00
21,200.0	90.00	359.56	11,140.0	9,983.3	-76.9	9,983.6	0.00	0.00	0.00
21,214.7	90.00	359.56	11,140.0	9,998.0	-77.0	9,998.3	0.00	0.00	0.00
PBHL (Neptune 10 State Com 504H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Neptune 10 State (	0.00	0.00	11,140.0	0.0	0.0	446,666.00	738,077.00	32° 13' 32.365 N	103° 33' 48.414 W
- plan misses target center by 41.1usft at 11226.5usft MD (11101.8 TVD, 15.2 N, -0.3 E)									
- Point									
PBHL (Neptune 10 State	0.00	0.00	11,140.0	9,998.0	-77.0	456,664.00	738,000.00	32° 15' 11.306 N	103° 33' 48.476 W
- plan hits target center									
- Point									

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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/Escape 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.

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- 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 #504H

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:	
David Dominque	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