

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., 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 30-025-44467	² Pool Code 59900	³ Pool Name TRIPLE X; BONE SPRING
⁴ Property Code 313956	⁵ Property Name NEPTUNE 10 STATE COM	⁶ Well Number 401H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3613'

¹⁰Surface Location

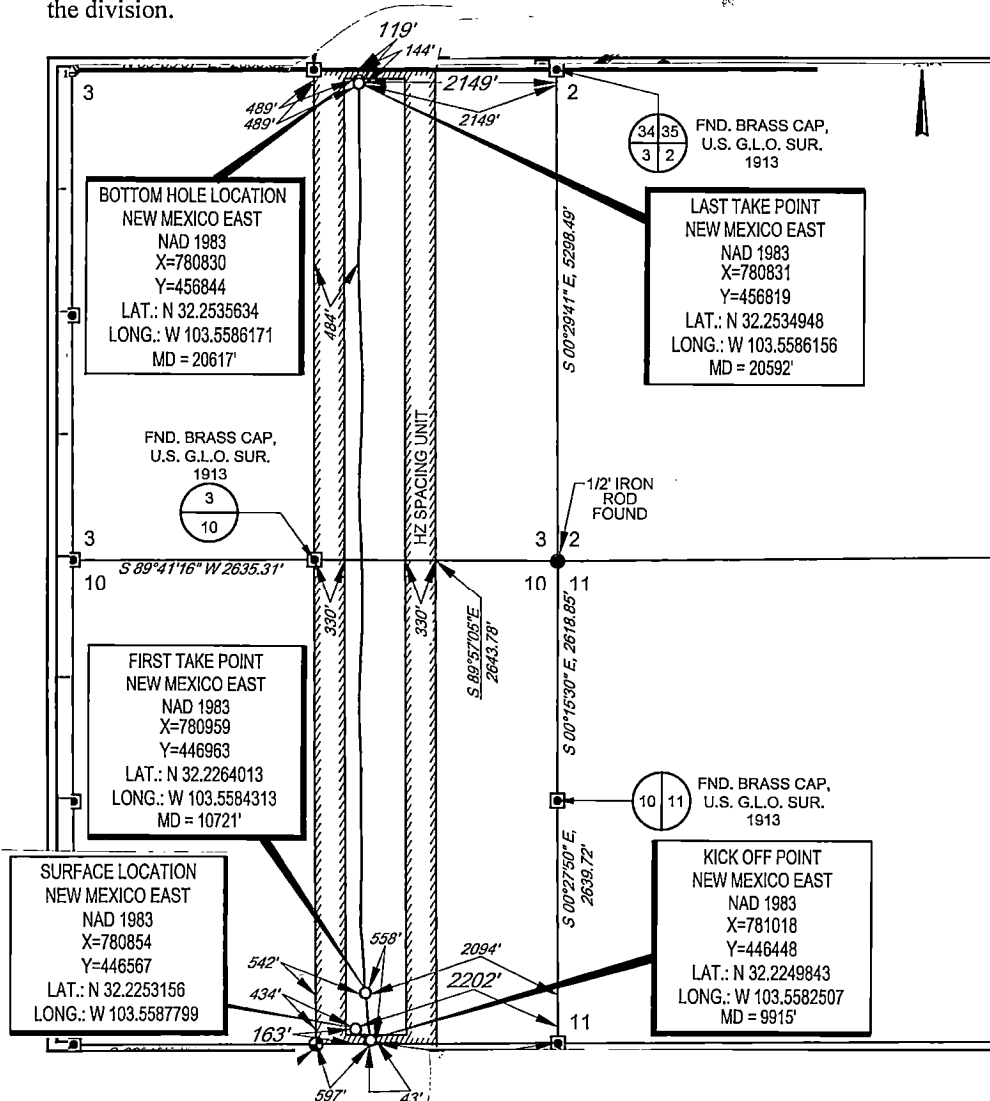
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	10	24-S	33-E	-	163'	SOUTH	2202'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	3	24-S	33-E	-	119'	NORTH	2149'	EAST	LEA

¹² Dedicated Acres 320.08	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.

¹⁷OPERATOR 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.

Kay Maddox 11/17/2020
Signature Date

KAY MADDOX
Printed Name

kay_maddox@eogresources.com
E-mail Address

¹⁸SURVEYOR 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.

11/20/2019
Date of Survey

Signature and Seal of Professional Surveyor

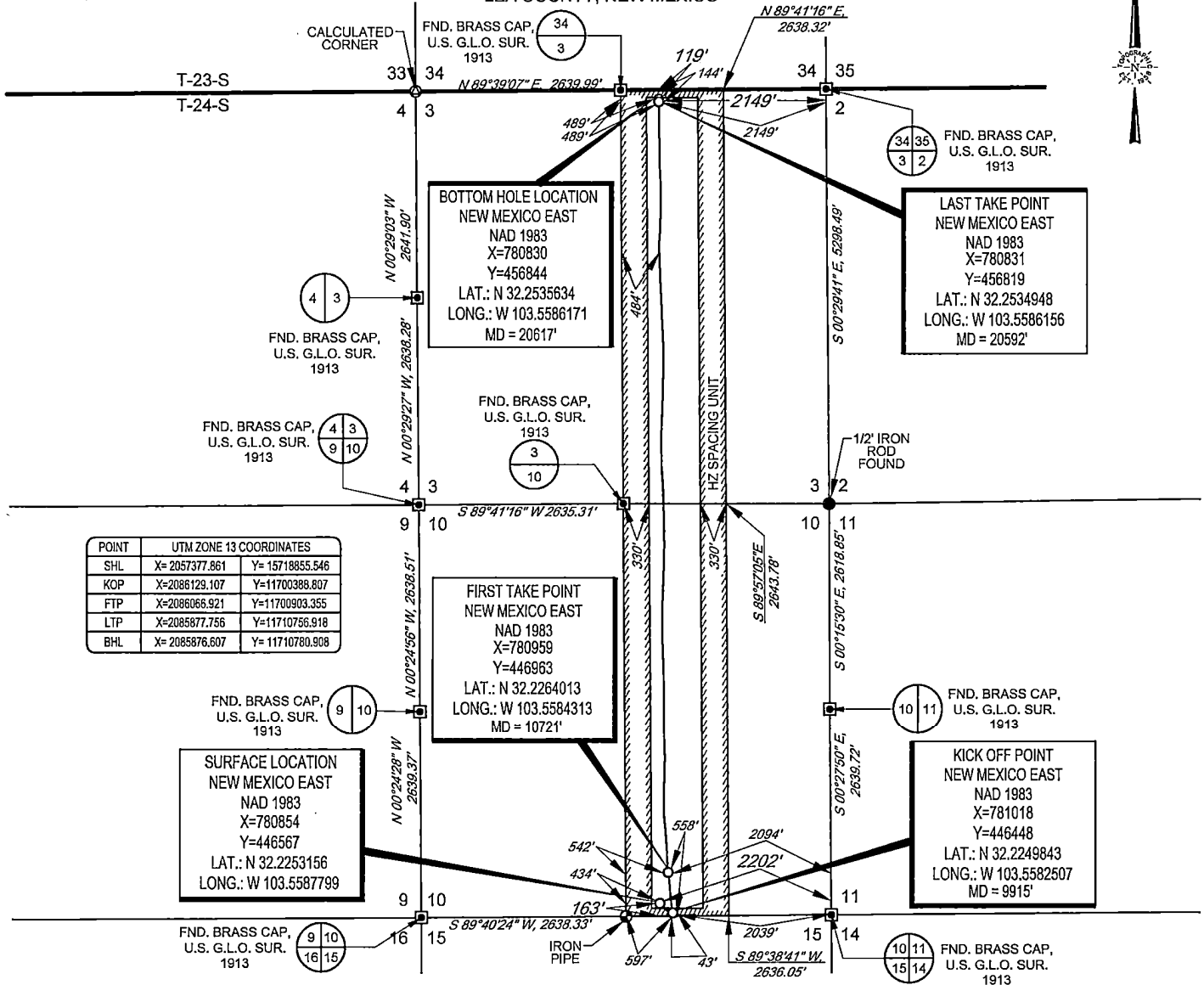
RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

SCALE: 1" = 2000'

0' 1000' 2000'

SECTION 10 TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



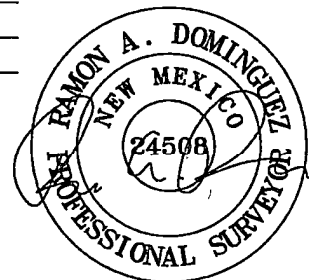
LEASE NAME & WELL NO.: NEPTUNE 10 STATE COM #401H
SECTION 10 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3608'
DESCRIPTION 163' FSL & 2202' FEL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

eg resources, Inc.



Ramon A. Dominguez, P.S. No. 24508
JULY 10, 2020

NEPTUNE 10 STATE COM #401H AS-COMplete	REVISION:	
	INT	DATE
DATE: 07/10/2020		
FILE:AD_NEPTUNE10STATECOM_401H		
DRAWN BY: H.B.		
SHEET: 1 OF 1		

- NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.
 3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EGG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

Intent ☐ As Drilled ☒ XXX

API # 30-025-44467			
Operator Name: EOG RESOURCES, INC		Property Name: NEPTUNE 10 STATE COM	Well Number 401H

Kick Off Point (KOP)

UL O	Section 10	Township 24S	Range 33E	Lot	Feet 43	From N/S SOUTH	Feet 2039	From E/W EAST	County LEA
Latitude 32.2249843					Longitude 103.5545744				NAD 1983

First Take Point (FTP)

UL O	Section 10	Township 24S	Range 33E	Lot	Feet 558	From N/S SOUTH	Feet 2094	From E/W EAST	County LEA
Latitude 32.2264013					Longitude 103.5584313				NAD 1983

Last Take Point (LTP)

UL B	Section 3	Township 24S	Range 33E	Lot	Feet 144	From N/S NORTH	Feet 2149	From E/W EAST	County LEA
Latitude 32.2534948					Longitude 103.5586156				NAD 1983

Is this well the defining well for the Horizontal Spacing Unit? ☐ NO

Is this well an infill well? ☐ YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-44464			
Operator Name: EOG RESOURCES, INC		Property Name: NEPTUNE 10 STATE COM	Well Number #102H

KZ 06/29/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#401H

Oh

Design: Oh

Midland PVA

04 March, 2020



EOG Resources
Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Neptune 10 State Com Well: #401H Wellbore: Oh Design: Oh		Local Co-ordinate Reference: Well #401H TVD Reference: KB 25 @ 3638.0usft MD Reference: KB 25 @ 3638.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM													
Project Lea County, NM (NAD 83 NME)															
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone		System Datum: Mean Sea Level													
Site Neptune 10 State Com															
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 446,557.00 usft Easting: 778,964.00 usft Slot Radius: 13-3/16 " Latitude: 32° 13' 31.172 N Longitude: 103° 33' 53.609 W Grid Convergence: 0.41 °													
Well #401H															
Well Position +N-S 0.0 usft +E-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 446,567.00 usft Easting: 780,854.00 usft Wellhead Elevation: usft Latitude: 32° 13' 31.137 N Longitude: 103° 33' 31.607 W Ground Level: 3,613.0 usft													
Wellbore Oh															
<table border="1"> <thead> <tr> <th>Magnetics</th> <th>Model Name</th> <th>Sample Date</th> <th>Declination (°)</th> <th>Dip Angle (°)</th> <th>Field Strength (nT)</th> </tr> </thead> <tbody> <tr> <td></td> <td>IGRF2015</td> <td>3/22/2020</td> <td>6.65</td> <td>60.03</td> <td>47,654.67046739</td> </tr> </tbody> </table>				Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)		IGRF2015	3/22/2020	6.65	60.03	47,654.67046739
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	IGRF2015	3/22/2020	6.65	60.03	47,654.67046739										
Design Oh															
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0															
<table border="1"> <thead> <tr> <th>Vertical Section:</th> <th>Depth From (TVD) (usft)</th> <th>+N-S (usft)</th> <th>+E-W (usft)</th> <th>Direction (°)</th> </tr> </thead> <tbody> <tr> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>359.97</td> </tr> </tbody> </table>				Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)		0.0	0.0	0.0	359.97		
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)											
	0.0	0.0	0.0	359.97											
Survey Program Date 3/4/2020															
<table border="1"> <thead> <tr> <th>From (usft)</th> <th>To (usft)</th> <th>Survey (Wellbore)</th> <th>Tool Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>151.0</td> <td>20,617.0</td> <td>Gyrodata (Oh)</td> <td>EOG MWD+IFR1</td> <td>MWD + IFR1</td> </tr> </tbody> </table>				From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	151.0	20,617.0	Gyrodata (Oh)	EOG MWD+IFR1	MWD + IFR1		
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151.0	20,617.0	Gyrodata (Oh)	EOG MWD+IFR1	MWD + IFR1											



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #401H
Project:	Lea County, NM (NAD.83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#401H	North Reference:	Grid
Wellbore:	Oh	Survey Calculation Method:	Minimum Curvature
Design:	Oh	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
151.0	0.63	273.61	151.0	0.1	-0.8	0.42	0.42	0.00	-0.8	0.0
328.0	0.73	288.19	328.0	0.5	-2.9	0.11	0.06	8.24	-2.9	0.5
503.0	0.50	305.57	503.0	1.3	-4.6	0.17	-0.13	9.93	-4.4	1.6
676.0	0.45	293.00	676.0	2.0	-5.8	0.07	-0.03	-7.27	-6.1	0.5
868.0	0.36	284.09	868.0	2.4	-7.1	0.06	-0.05	-4.64	-7.4	-0.6
1,056.0	0.49	278.16	1,056.0	2.7	-8.4	0.07	0.07	-3.15	-8.7	-1.4
1,246.0	0.50	319.98	1,246.0	3.4	-9.8	0.19	0.01	22.13	-8.9	5.3
1,333.0	0.34	312.60	1,332.9	3.9	-10.2	0.19	-0.18	-8.39	-10.1	4.1
1,516.0	0.27	352.94	1,515.9	4.7	-10.7	0.12	-0.04	22.04	-5.9	10.0
1,704.0	0.26	353.49	1,703.9	5.5	-10.8	0.01	-0.01	0.29	-6.7	10.1
1,893.0	0.24	24.03	1,892.9	6.3	-10.7	0.07	-0.01	16.16	-1.4	12.3
2,082.0	0.24	356.81	2,081.9	7.1	-10.5	0.06	0.00	-14.40	-7.7	10.1
2,270.0	0.20	317.13	2,269.9	7.7	-10.8	0.08	-0.02	-21.11	-13.0	2.6
2,458.0	0.24	319.55	2,457.9	8.3	-11.2	0.02	0.02	1.29	-13.6	3.2
2,647.0	0.21	325.09	2,646.9	8.8	-11.7	0.02	-0.02	2.93	-13.9	4.5
2,836.0	0.20	313.20	2,835.9	9.4	-12.1	0.02	-0.01	-6.29	-15.2	1.5
3,025.0	0.23	296.61	3,024.9	9.7	-12.7	0.04	0.02	-8.78	-15.7	-3.0
3,213.0	0.22	287.71	3,212.9	10.0	-13.4	0.02	-0.01	-4.73	-15.8	-5.5
3,402.0	0.20	305.16	3,401.9	10.3	-14.0	0.04	-0.01	9.23	-17.4	-0.4
3,590.0	0.23	332.19	3,589.9	10.8	-14.4	0.06	0.02	14.38	-16.3	7.7
3,778.0	0.33	42.98	3,777.9	11.6	-14.3	0.18	0.05	37.65	1.2	18.3
3,966.0	0.68	78.16	3,965.9	12.2	-12.8	0.24	0.19	18.71	10.0	14.6
4,155.0	0.51	113.59	4,154.9	12.1	-10.9	0.21	-0.09	18.75	14.9	6.7
4,344.0	0.48	185.80	4,343.9	11.0	-10.2	0.31	-0.02	38.21	9.9	-11.3
4,532.0	1.77	128.66	4,531.9	8.4	-8.0	0.83	0.69	-30.39	11.5	1.5
4,721.0	2.03	124.61	4,720.8	4.7	-3.0	0.15	0.14	-2.14	5.1	2.1



EOG Resources
Midland PVA

Company:	EOG Resources - Midland
Project:	Lea County, NM (NAD 83 NME)
Site:	Neptune 10 State Com
Well:	#401H
Wellbore:	Oh
Design:	Oh

Local Co-ordinate Reference:	Well #401H
TVD Reference:	KB 25 @ 3638.0ush
MD Reference:	KB 25 @ 3638.0ush
North Reference:	Gnd
Survey Calculation Method:	EDM
Database:	Minimum Curvature

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Dleg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	4,910.0	3.46	122.82	4,909.5	-0.3	4.5	0.76	0.76	-0.95	-4.0	2.2
	5,098.0	2.43	126.32	5,097.3	-5.8	12.5	0.56	-0.55	1.86	-13.5	2.8
	5,120.0	2.46	126.45	5,119.3	-6.3	13.3	0.14	0.14	0.59	-14.4	2.8
	5,294.0	2.42	122.42	5,293.1	-10.5	19.4	0.10	-0.02	-2.32	-16.2	4.2
	5,483.0	4.49	137.77	5,481.8	-18.1	27.7	1.19	1.10	8.12	-15.0	11.1
	5,672.0	4.44	140.51	5,670.2	-29.3	37.3	0.12	-0.03	1.45	-18.4	13.5
	5,860.0	4.37	140.05	5,857.6	-40.4	46.6	0.04	-0.04	-0.24	-22.2	14.6
	6,048.0	4.71	141.56	6,045.0	-51.9	56.0	0.19	0.18	0.80	-25.9	16.4
	6,237.0	4.40	140.86	6,233.5	-63.6	65.4	0.17	-0.16	-0.37	-30.3	17.2
	6,425.0	4.33	144.71	6,420.9	-75.0	74.0	0.16	-0.04	2.05	-32.6	20.1
	6,614.0	3.69	127.91	6,609.4	-84.6	82.9	0.70	-0.34	-8.89	-39.7	11.4
	6,802.0	3.49	122.02	6,797.1	-91.3	92.6	0.22	-0.11	-3.13	-42.6	11.2
	6,991.0	2.88	93.98	6,985.8	-94.7	102.2	0.87	-0.32	-14.84	-46.2	-4.1
	7,179.0	2.76	96.24	7,173.6	-95.4	111.4	0.07	-0.06	0.67	-48.8	5.5
	7,368.0	2.72	99.62	7,362.4	-96.6	120.3	0.11	-0.02	2.32	-49.9	17.6
	7,557.0	1.68	91.24	7,551.2	-97.4	127.5	0.57	-0.55	-4.43	-54.4	16.5
	7,603.2	1.72	94.24	7,597.3	-97.5	128.9	0.21	0.09	6.49	-54.6	19.6
Brushy Top(Neptune 10 St Com #401H)											
	7,746.0	1.88	102.55	7,740.1	-98.1	133.3	0.21	0.11	5.82	-55.7	27.6
	7,934.0	1.75	117.51	7,928.0	-100.1	138.9	0.26	-0.07	7.96	-52.5	41.9
	8,123.0	2.00	125.20	8,116.9	-103.4	144.1	0.19	0.13	4.07	-52.6	48.9
	8,312.0	2.83	140.66	8,305.8	-108.9	149.8	0.55	0.44	8.18	-45.5	62.0
	8,500.0	2.91	150.95	8,493.5	-116.6	155.1	0.28	0.04	5.47	-43.0	70.0
	8,689.0	3.02	154.55	8,682.3	-125.3	159.5	0.11	0.06	1.90	-48.3	72.9
	8,877.0	3.11	160.97	8,870.0	-134.6	163.3	0.19	0.05	3.41	-49.8	78.4
	9,066.0	1.46	347.28	9,058.9	-137.1	164.5	2.41	-0.87	-91.90	43.7	-83.9
	9,255.0	1.80	345.38	9,247.9	-131.9	163.2	0.18	0.18	-1.01	41.0	-82.5



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #401H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#401H	North Reference:	Grid
Wellbore:	Oh	Survey Calculation Method:	Minimum Curvature
Design:	Oh	Database:	EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
9,444.0	1.61	356.71	9,436.8	-126.4	162.3	0.20	-0.10	5.99	18.5	-88.4	
9,632.0	1.17	39.12	9,624.7	-122.2	163.3	0.58	-0.23	22.56	-49.8	-75.9	
9,821.0	0.12	17.06	9,813.7	-120.6	164.6	0.56	-0.56	-11.67	-19.6	-89.8	
9,862.0	0.42	157.89	9,854.7	-120.7	164.7	1.26	0.73	343.49	-41.6	82.1	
9,915.0	3.27	350.60	9,907.7	-119.4	164.5	6.94	5.37	-315.65	21.2	-89.3	
KOP, MD:9915.0', TVD:9907.7', N/S:-119.4', E/W:164.5', INC:3.27											
9,943.0	5.21	350.06	9,935.6	-117.3	164.2	6.94	6.94	-1.92	19.9	-89.1	
10,037.0	17.90	345.04	10,027.5	-99.1	159.7	13.53	13.50	-5.34	14.7	-85.8	
10,126.6	30.70	351.82	10,109.0	-63.0	152.8	14.60	14.29	7.56	-12.5	-82.4	
FTP Crossing, MD:10126.6', TVD:10109.0', N/S:-63.0', E/W:152.8', INC:30.70											
10,132.0	31.48	352.06	10,113.6	-60.2	152.4	14.60	14.42	4.48	-14.0	-82.1	
10,226.0	40.80	354.18	10,189.5	-5.2	145.9	10.00	9.91	2.26	-37.8	-77.2	
10,321.0	49.35	354.96	10,256.5	61.7	139.6	9.02	9.00	0.82	-58.6	-71.9	
10,391.1	53.11	355.19	10,300.4	116.1	134.9	5.38	5.37	0.32	-70.4	-67.4	
FTP (Neptune 10 St Com #401H)											
10,415.0	54.40	355.26	10,314.5	135.3	133.3	5.38	5.37	0.30	-73.2	-65.8	
10,509.0	56.25	354.14	10,368.0	212.3	126.2	2.20	1.97	-1.19	-74.6	-59.3	
10,603.0	57.12	352.96	10,419.6	290.3	117.3	1.40	0.93	-1.26	-60.2	-51.0	
10,698.0	65.77	352.82	10,465.0	373.1	107.0	9.11	9.11	-0.15	-37.9	-39.5	
10,792.0	80.42	356.65	10,492.3	462.4	98.9	16.06	15.59	4.07	-19.4	-30.4	
10,914.0	87.37	357.43	10,505.2	583.4	92.6	5.73	5.70	0.64	-7.0	-24.9	
11,008.0	87.96	356.96	10,509.1	677.3	88.0	0.80	0.63	-0.50	-3.4	-21.0	
11,102.0	90.31	355.29	10,510.5	771.0	81.7	3.07	2.50	-1.78	-2.3	-15.3	
11,197.0	90.62	355.39	10,509.7	865.7	74.0	0.34	0.33	0.11	-3.3	-8.3	
11,291.0	90.48	355.48	10,508.8	959.4	66.5	0.18	-0.15	0.10	-4.5	-1.5	
11,385.0	90.08	354.22	10,508.3	1,053.0	58.1	1.41	-0.43	-1.34	-5.2	6.2	
11,479.0	91.81	356.80	10,506.8	1,146.7	50.7	3.30	1.84	2.74	-7.0	12.9	



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #401H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#401H	North Reference:	Grid
Wellbore:	Oh	Survey Calculation Method:	Minimum Curvature
Design:	Oh	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
11,574.0	90.57	0.09	10,504.8	1,241.6	48.1	3.70	-1.31	3.46	-9.2	14.7
11,669.0	91.02	0.15	10,503.5	1,336.6	48.3	0.48	0.47	0.06	-10.8	13.8
11,763.0	91.58	2.54	10,501.4	1,430.6	50.5	2.61	0.60	2.54	-13.2	10.9
11,858.0	88.70	1.65	10,501.1	1,525.5	54.0	3.17	-3.03	-0.94	-13.6	6.7
11,952.0	89.01	0.94	10,503.0	1,619.4	56.1	0.82	0.33	-0.76	-12.0	3.9
12,046.0	90.03	1.09	10,503.8	1,713.4	57.8	1.10	1.09	0.16	-11.5	1.5
12,140.0	90.03	0.35	10,503.8	1,807.4	59.0	0.79	0.00	-0.79	-11.8	-0.4
12,234.0	89.72	359.71	10,504.0	1,901.4	59.0	0.76	-0.33	-0.68	-11.8	-1.1
12,329.0	89.01	358.55	10,505.0	1,996.4	57.6	1.43	-0.75	-1.22	-11.0	-0.4
12,423.0	91.13	359.30	10,504.9	2,090.4	55.8	2.39	2.26	0.80	-11.4	0.7
12,518.0	90.91	358.29	10,503.2	2,185.3	53.8	1.09	-0.23	-1.06	-13.3	1.9
12,612.0	91.50	358.56	10,501.2	2,279.3	51.2	0.69	0.63	0.29	-15.5	3.8
12,706.0	91.39	359.41	10,498.9	2,373.2	49.6	0.91	-0.12	0.90	-18.2	4.8
12,801.0	89.04	0.99	10,498.5	2,468.2	49.9	2.98	-2.47	1.66	-18.8	3.7
12,895.0	88.90	0.53	10,500.2	2,562.2	51.1	0.51	-0.15	-0.49	-17.3	1.8
12,990.0	88.50	359.74	10,502.3	2,657.2	51.4	0.93	-0.42	-0.83	-15.4	0.9
13,084.0	92.12	358.07	10,501.8	2,751.1	49.6	4.24	3.85	-1.78	-16.2	1.9
13,179.0	91.58	358.63	10,498.8	2,846.1	46.8	0.82	-0.57	0.59	-19.5	4.0
13,273.0	89.94	358.76	10,497.5	2,940.0	44.7	1.75	-1.74	0.14	-21.0	5.4
13,367.0	90.40	357.68	10,497.2	3,034.0	41.8	1.25	0.49	-1.15	-21.5	7.6
13,462.0	90.34	357.14	10,496.6	3,128.9	37.5	0.57	-0.06	-0.57	-22.4	11.2
13,556.0	91.50	357.92	10,495.1	3,222.8	33.4	1.49	1.23	0.83	-24.1	14.5
13,651.0	91.81	358.33	10,492.4	3,317.7	30.3	0.54	0.33	0.43	-27.1	16.9
13,745.0	94.19	358.96	10,487.5	3,411.5	28.1	2.62	2.53	0.67	-32.3	18.5
13,830.4	94.50	359.11	10,481.0	3,496.7	26.7	0.40	0.36	0.17	-39.0	19.3
TGT#1(Neptune 10 St Com #401H)										
13,839.0	94.53	359.12	10,480.3	3,505.2	26.5	0.40	0.36	0.17	-39.7	19.4



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #401H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#401H	North Reference:	Grid
Wellbore:	Oh	Survey Calculation Method:	Minimum Curvature
Design:	Oh	Database:	EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
13,934.0	93.51	0.63	10,473.7	3,600.0	26.3	1.91	-1.07	1.59	-47.1	18.8	
14,028.0	92.12	0.60	10,469.0	3,693.9	27.3	1.48	-1.48	-0.03	-52.4	17.1	
14,122.0	85.10	2.20	10,471.3	3,787.8	29.6	7.66	-7.47	1.70	-50.9	14.2	
14,217.0	86.18	1.95	10,478.5	3,882.4	33.1	1.17	1.14	-0.26	-44.4	10.0	
14,311.0	87.62	2.16	10,483.6	3,976.2	36.4	1.55	1.53	0.22	-40.0	5.9	
14,406.0	88.16	1.78	10,487.1	4,071.1	39.7	0.69	0.57	-0.40	-37.3	1.9	
14,501.0	85.84	1.69	10,492.1	4,165.9	42.6	2.44	-2.44	-0.09	-33.0	-1.7	
14,595.0	87.20	2.09	10,497.8	4,259.7	45.7	1.51	1.45	0.43	-28.0	-5.4	
14,636.0	85.78	1.67	10,500.3	4,300.6	47.0	3.61	-3.46	-1.02	-25.8	-7.1	
14,783.0	85.15	1.59	10,511.9	4,447.1	51.2	0.43	-0.43	-0.05	-15.3	-12.4	
14,878.0	85.84	359.91	10,519.4	4,541.8	52.4	1.91	0.73	-1.77	-8.6	-14.3	
14,972.0	86.32	359.73	10,525.8	4,635.5	52.1	0.55	0.51	-0.19	-2.9	-14.7	
15,067.0	89.12	358.66	10,529.6	4,730.4	50.8	3.15	2.95	-1.13	0.1	-14.1	
15,136.9	90.28	358.59	10,530.0	4,800.3	49.1	1.68	1.66	-0.10	0.0	-13.0	
TGT#2(Neptune 10 St Com #401H)											
15,161.0	90.68	358.57	10,529.8	4,824.4	48.5	1.66	1.66	-0.10	-0.3	-12.5	
15,255.0	89.43	358.51	10,529.7	4,918.4	46.1	1.33	-1.33	-0.06	-0.6	-10.9	
15,349.0	90.91	358.37	10,529.4	5,012.3	43.6	1.58	1.57	-0.15	-1.1	-9.0	
15,444.0	86.12	358.81	10,531.9	5,107.3	41.2	5.06	-5.04	0.46	1.1	-7.4	
15,538.0	84.85	358.46	10,539.3	5,200.9	39.0	1.40	-1.35	-0.37	8.3	-5.9	
15,632.0	87.96	357.71	10,545.1	5,294.7	35.9	3.40	3.31	-0.80	14.0	-3.4	
15,727.0	92.15	356.34	10,545.1	5,389.5	30.9	4.64	4.41	-1.44	13.7	0.8	
15,821.0	91.84	355.78	10,541.8	5,483.3	24.5	0.68	-0.33	-0.60	10.2	6.5	
15,916.0	93.34	357.34	10,537.5	5,578.0	18.8	2.28	1.58	1.64	5.7	11.5	
16,010.0	91.36	359.00	10,533.6	5,671.8	15.8	2.75	-2.11	1.77	1.6	13.8	
16,104.0	90.71	358.76	10,531.9	5,765.8	13.9	0.74	-0.69	-0.26	-0.3	15.0	
16,199.0	91.64	359.07	10,530.0	5,860.8	12.1	1.03	0.98	0.33	-2.4	16.1	



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #401H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#401H	North Reference:	Grid
Wellbore:	Oh	Survey Calculation Method:	Minimum Curvature
Design:	Oh	Database:	EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
16,293.0	90.96	1.98	10,527.9	5,954.7	13.0	3.18	-0.72	3.10	-4.8	14.5	
16,387.0	91.70	2.42	10,525.7	6,048.6	16.6	0.92	0.79	0.47	-7.2	10.2	
16,482.0	88.39	1.54	10,525.6	6,143.6	19.9	3.61	-3.48	-0.93	-7.5	6.2	
16,576.0	87.88	1.49	10,528.7	6,237.5	22.4	0.55	-0.54	-0.05	-4.6	3.0	
16,670.0	87.76	1.42	10,532.2	6,331.4	24.8	0.15	-0.13	-0.07	-1.3	-0.1	
16,765.0	88.50	1.79	10,535.3	6,426.3	27.4	0.87	0.78	0.39	1.6	-3.5	
16,859.0	90.00	1.42	10,536.6	6,520.2	30.0	1.64	1.60	-0.39	2.6	-6.8	
16,953.0	90.76	2.16	10,535.9	6,614.2	33.0	1.13	0.81	0.79	1.8	-10.4	
17,047.0	88.78	0.63	10,536.3	6,708.2	35.3	2.66	-2.11	-1.63	2.0	-13.4	
17,141.0	87.88	0.41	10,539.1	6,802.1	36.1	0.99	-0.96	-0.23	4.5	-15.0	
17,236.0	91.27	359.50	10,539.8	6,897.1	36.1	3.69	3.57	-0.96	5.0	-15.6	
17,330.0	91.58	359.89	10,537.4	6,991.1	35.6	0.53	0.33	0.41	2.4	-15.8	
17,339.0	91.57	359.89	10,537.2	7,000.1	35.5	0.13	-0.12	-0.05	2.2	-15.9	
TGT#3(Neptune 10 St Com #401H)											
17,424.0	91.47	359.84	10,534.9	7,085.0	35.3	0.13	-0.12	-0.05	-0.2	-16.3	
17,518.0	89.77	358.17	10,533.9	7,179.0	33.7	2.54	-1.81	-1.78	-1.4	-15.4	
17,612.0	89.52	358.09	10,534.5	7,273.0	30.6	0.28	-0.27	-0.09	-0.9	-13.0	
17,707.0	88.95	356.57	10,535.8	7,367.8	26.2	1.71	-0.60	-1.60	0.2	-9.3	
17,801.0	89.55	357.45	10,537.0	7,461.7	21.3	1.13	0.64	0.94	1.3	-5.1	
17,895.0	91.75	358.33	10,535.9	7,555.6	17.8	2.52	2.34	0.94	0.1	-2.4	
17,989.0	89.72	357.67	10,534.7	7,649.6	14.6	2.27	-2.16	-0.70	-1.3	0.2	
18,084.0	88.92	357.43	10,535.8	7,744.5	10.5	0.88	-0.84	-0.25	-0.3	3.6	
18,178.0	88.67	357.18	10,537.8	7,838.3	6.1	0.38	-0.27	-0.27	1.5	7.3	
18,272.0	87.82	355.99	10,540.7	7,932.1	0.5	1.56	-0.90	-1.27	4.3	12.2	
18,366.0	87.25	357.43	10,544.7	8,025.9	-4.9	1.65	-0.61	1.53	8.2	16.9	
18,460.0	89.80	358.98	10,547.2	8,119.8	-7.8	3.17	2.71	1.65	10.5	19.1	
18,555.0	89.04	357.90	10,548.1	8,214.8	-10.4	1.39	-0.80	-1.14	11.3	21.0	



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #401H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#401H	North Reference:	Grid
Wellbore:	Oh	Survey Calculation Method:	Minimum Curvature
Design:	Oh	Database:	EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
18,649.0	91.08	358.06	10,548.0	8,308.7	-13.7	2.18	2.17	0.17	11.0	23.6	
18,718.0	91.08	358.55	10,546.7	8,377.6	-15.8	0.71	0.00	0.71	9.6	25.1	
18,812.0	91.10	3.93	10,544.9	8,471.6	-13.8	5.72	0.02	5.72	7.7	22.4	
18,907.0	91.98	3.97	10,542.4	8,566.3	-7.2	0.93	0.93	0.04	5.0	15.1	
19,000.0	89.41	1.62	10,541.3	8,659.2	-2.7	3.74	-2.76	-2.53	3.7	9.9	
19,095.0	87.71	1.04	10,543.6	8,754.1	-0.5	1.89	-1.79	-0.61	6.0	7.0	
19,189.0	88.73	0.91	10,546.6	8,848.1	1.1	1.09	1.09	-0.14	8.7	4.7	
19,283.0	87.31	359.91	10,549.8	8,942.0	1.8	1.86	-1.61	-1.06	11.0	3.3	
19,378.0	91.64	0.37	10,550.7	9,037.0	2.0	4.58	4.56	0.48	12.6	2.3	
19,472.0	91.95	359.04	10,547.7	9,130.9	1.5	1.45	0.33	-1.41	9.5	2.1	
19,566.0	91.67	358.28	10,544.8	9,224.8	-0.6	0.86	-0.30	-0.81	6.4	3.6	
19,661.0	90.85	357.06	10,542.7	9,319.7	-4.5	1.55	-0.86	-1.28	4.2	6.8	
19,755.0	90.06	356.75	10,541.9	9,413.6	-9.6	0.90	-0.84	-0.33	3.3	11.1	
19,849.0	89.60	358.52	10,542.2	9,507.5	-13.5	1.95	-0.49	1.88	3.4	14.3	
19,944.0	89.69	359.90	10,542.8	9,602.5	-14.8	1.46	0.09	1.45	3.8	14.9	
20,038.0	88.76	359.42	10,544.1	9,696.5	-15.3	1.11	-0.99	-0.51	5.0	14.8	
20,132.0	88.27	358.40	10,546.5	9,790.4	-17.1	1.20	-0.52	-1.09	7.2	15.8	
20,225.0	88.67	359.25	10,549.0	9,883.4	-19.0	1.01	0.43	0.91	9.6	17.0	
20,319.0	88.75	0.29	10,551.1	9,977.4	-19.4	1.11	0.09	1.11	11.6	16.7	
20,413.0	88.61	359.84	10,553.3	10,071.3	-19.3	0.50	-0.15	-0.48	13.6	15.9	
20,508.0	87.85	358.27	10,556.2	10,166.3	-20.9	1.84	-0.80	-1.65	16.4	16.8	
20,564.0	87.74	358.57	10,558.4	10,222.2	-22.4	0.57	-0.20	0.54	18.4	17.9	
Last MWD Survey (MD=20564.0)											
20,617.0	87.74	358.57	10,560.4	10,275.2	-23.7	0.00	0.00	0.00	20.5	18.8	
Projection to Bit (MD=20617.0) - PBHL (Neptune 10 St Com #401H)											



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #401H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#401H	North Reference:	Grid
Wellbore:	Oh	Survey Calculation Method:	Minimum Curvature
Design:	Oh	Database:	EDM

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,915.0	9,907.7	-119.4	164.5	KOP, MD:9915.0', TVD:9907.7', N/S:-119.4', E/W:164.5', INC:3.27
10,126.6	10,109.0	-63.0	152.8	FTP Crossing, MD:10126.6', TVD:10109.0', N/S:-63.0', E/W:152.8', INC:30.70
20,564.0	10,558.4	10,222.2	-22.4	Last MWD Survey (MD=20564.0')
20,617.0	10,560.4	10,275.2	-23.7	Projection to Bit (MD=20617.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 11/18/2020
Signed Date



Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#401H

Plan #2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.23°

Magnetic Field
Strength: 47554.7nT
Dip Angle: 60.03°
Date: 3/22/2020
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.23°
To convert a Magnetic Direction to a True Direction, Add 6.65° East
To convert a True Direction to a Grid Direction, Subtract 6.41°

WELL DETAILS: #401H

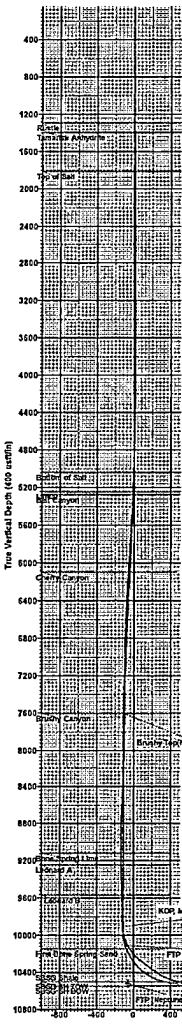
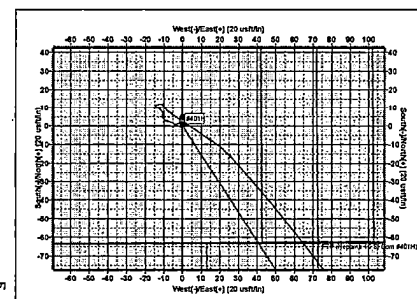
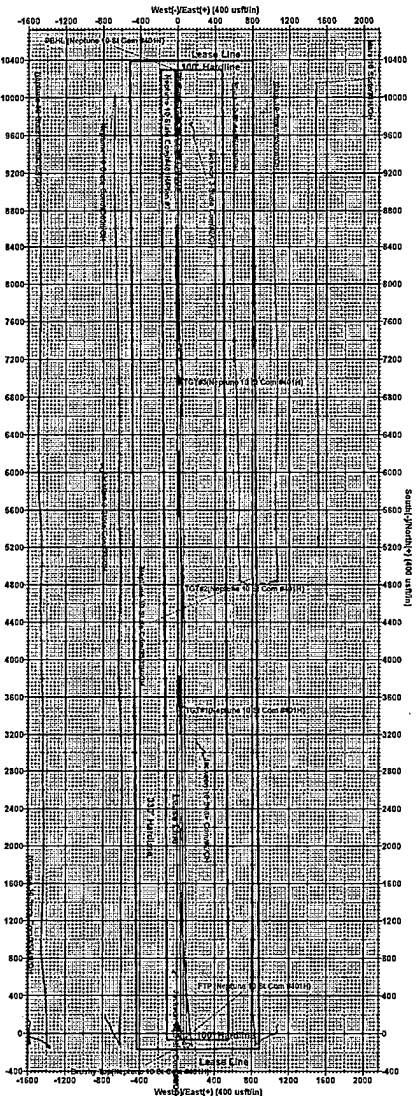
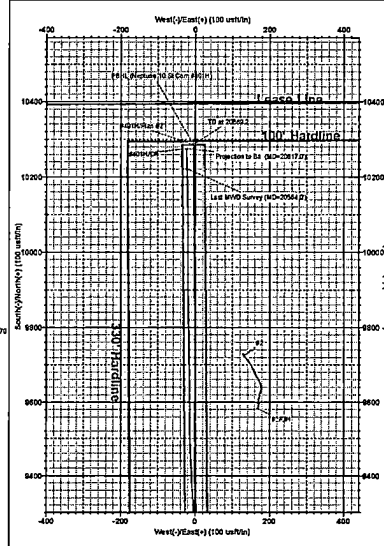
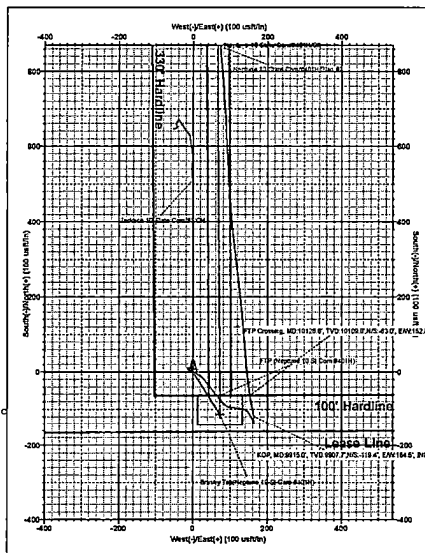
3513.0
KB 25 @ 3538.0m
+N-S +E-W Northing Easting Longitude Slot
0.0 0.0 446567.00 780854.00 32° 13' 31.137" N 103° 37' 31.607" W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5100.0	0.00	0.00	5100.0	0.0	0.0	0.00	0.00	0.0	
3	5264.9	3.30	147.14	5264.8	-4.0	2.6	2.00	147.14	-4.0	
4	7437.8	3.30	147.14	7434.2	-109.0	70.4	0.00	0.00	-109.0	
5	7602.8	0.00	0.00	7599.0	-113.0	73.0	2.00	180.00	-113.0	Brushy Top(Neptune 10 St Com #401H)
6	9942.8	0.00	0.00	9939.0	-113.0	73.0	0.00	0.00	-113.0	
7	10841.3	89.85	359.57	10512.0	458.4	68.7	10.00	359.57	458.4	
8	13882.9	89.85	359.57	10520.0	3500.0	45.9	0.00	0.00	3500.0	TGT#1(Neptune 10 St Com #401H)
9	13897.5	89.56	359.57	10520.1	3514.5	45.8	2.00	180.00	3514.5	
10	15183.0	89.56	359.57	10530.0	4800.0	36.1	0.00	0.00	4800.0	TGT#2(Neptune 10 St Com #401H)
11	15198.7	89.87	359.57	10530.1	4815.7	36.0	2.00	0.00	4815.6	
12	17383.1	89.87	359.57	10535.0	7000.0	19.6	0.00	0.00	7000.0	TGT#3(Neptune 10 St Com #401H)
13	17385.2	89.91	359.57	10535.0	7002.1	19.6	2.00	0.00	7002.1	
14	20699.2	89.91	359.57	10540.0	10286.0	-5.0	0.00	0.00	10286.0	PBHL (Neptune 10 St Com #401H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Brushy Top(Neptune 10 St Com #401H)	7599.0	-113.0	73.0	446454.00	780827.00	Polygon
TGT#1(Neptune 10 St Com #401H)	10520.0	3500.0	45.9	446567.00	780859.50	Point
FTP (Neptune 10 St Com #401H)	10251.0	-53.0	73.0	446504.00	780827.00	Point
TGT#2(Neptune 10 St Com #401H)	10530.0	4800.0	36.1	451367.00	780830.15	Point
TGT#3(Neptune 10 St Com #401H)	10535.0	7000.0	19.6	453567.00	780873.65	Point
PBHL (Neptune 10 St Com #401H)	10540.0	10286.0	-5.0	456553.00	780848.00	Rectangle (Sides: L0.0 W50.0)



Vertical Section at 359.57° (400 usft/in)

Lea County, NM (NAD 83 NME)
Neptune 10 State Com
#401H
Plan #2