

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

1-7-20

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-44467 ✓
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG RESOURCES		6. State Oil & Gas Lease No. 313956
3. Address of Operator P O BOX 2267, MIDLAND TX 79702		7. Lease Name or Unit Agreement Name NEPTUNE 10 STATE COM ✓
4. Well Location Unit Letter <u>P0</u> : <u>866</u> <u>163</u> feet from the <u>SOUTH</u> line and <u>925</u> <u>2002</u> feet from the <u>EAST</u> line Section <u>10</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>LEA CO</u>		8. Well Number <u>710H 401H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3608 GL		9. OGRID Number 7377
		10. Pool name or Wildcat 98135 WC-025 G-09 S243310P; UPPER WOLFCAMP

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐ APD CHANGES ☒
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

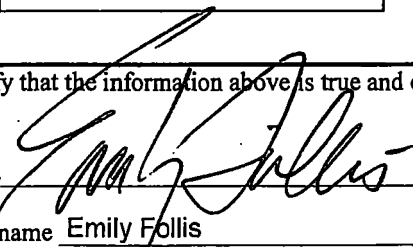
EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:
Well number change to 401H
Target formation change from Wolfcamp to Second Bone Spring Shale
Casing and cement changes to reflect shallower target
SHL change to Sec 10 T-24-S R-33-E 874 ft FSL 1657 ft FEL Lea Co, NM
BHL change to Sec 3 T-24-S R-33-E 100 ft FNL 2131 ft FEL Lea Co, NM
Change HSU from 320 acres to 320.08 acres

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE Sr. Regulatory Administrator

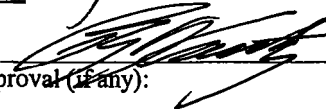
DATE 01/07/2020

Type or print name Emily Follis

E-mail address: emily_follis@eogresources.com PHONE: 432-848-9163

For State Use Only

APPROVED BY:



TITLE

DATE

07/11/2020

Conditions of Approval (if any):

Neptune 10 State Com #401H
Lea County, New Mexico

Revised Wellbore 1/6/2020

874' FSL
1657' FEL
Section 10
T-24-S, R-33-E

API: 30-025-44467

KB: 3,629'
GL: 3,604'

Bit Size: 17-1/2"

13-3/8", 54.5#, J-55, STC 0' - 1,340'

Bit Size: 12-1/4"

9-5/8", 40#, J-55, LTC 0' - 4000'
9-5/8", 40#, HCK-55, LTC 4000' - 5,200'

Bit Size: 8-3/4"

5-1/2", 17#, P-110 or HCP110, LTC @ 0' - 20,782'

TOC: 4,700'

KOP: 10,100'

Bit Size: 8-1/2"

Lateral: 20,782' MD, 10,500' TVD
BH Location: 100' FNL & 2131' FEL
Section 3
T-24-S, R-33-E

EOG RESOURCES, INC.
NEPTUNE 10 STATE COM #401H

Revised Permit Information 1/6/2020:

Well Name: Neptune 10 State Com #401H

Location:

SHL: 874' FSL & 1657' FEL, Section 10, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 2131' FEL, 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' - 1,340'	13.375"	54.5#	J-55	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"	4000' - 5200'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0' - 10,850'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	10,850' - 20,782'	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
1,340'	830	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,200'	520	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	360	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx
20,782'	550	11.0	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,700')
	2,820	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' - 1,340'	Fresh - Gel	8.6-8.8	28-34	N/c
1,340' - 5,200'	Brine	10.0-10.2	28-34	N/c
5,200' - 10,100'	Cut Brine	8.4-9.0	28-34	N/c
10,100' - 20,782' Lateral	Oil Base	9.0-9.5	40-42	8-10



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#401H

Oh

Plan: Plan #0.1

Standard Planning Report

06 January, 2020



Planning Report

Database: EDM
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #401H
Wellbore: Oh
Design: Plan #0.1

Local Co-ordinate Reference: Well #401H
TVD Reference: KB = 25 @ 3629.0usft
MD Reference: KB = 25 @ 3629.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983.	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Neptune 10 State Com			
Site Position:		Northing:	446,557.00 usft	Latitude:	32° 13' 31.172 N
From:	Map	Easting:	778,964.00 usft	Longitude:	103° 33' 53.609 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	#401H					
Well Position	+N-S	724.0 usft	Northing:	447,281.00 usft	Latitude:	32° 13' 38.163 N
	+E-W	2,429.0 usft	Easting:	781,393.00 usft	Longitude:	103° 33' 25.273 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,604.0 usft	

Wellbore	Oh				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/8/2020	6.67	60.03	47,677.41334332

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	356.75

Plan Survey Tool Program	Date 1/6/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,781.5 Plan #0.1 (Oh)	EOG MWD+IFR1	
			MWD + IFR1	

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,978.4	9.57	209.40	1,978.2	-34.7	-19.6	2.00	2.00	0.00	209.40	
7,209.8	9.57	209.40	7,134.8	-792.3	-446.4	0.00	0.00	0.00	0.00	
7,688.2	0.00	0.00	7,611.0	-827.0	-466.0	2.00	-2.00	0.00	180.00	
10,099.7	0.00	0.00	10,022.5	-827.0	-466.0	0.00	0.00	0.00	0.00	KOPP (Neptune 10 St
10,849.7	90.00	359.57	10,500.0	-349.6	-469.6	12.00	12.00	-0.06	359.57	
20,781.5	90.00	359.57	10,500.0	9,582.0	-544.0	0.00	0.00	0.00	0.00	PBHL (Neptune 10 St



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Local Co-ordinate Reference: Well #401H
 TVD Reference: KB = 25 @ 3629.0usft
 MD Reference: KB = 25 @ 3629.0usft
 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	0.00	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	2.00	209.40	1,600.0	-1.5	-0.9	-1.5	2.00	2.00	0.00
1,700.0	4.00	209.40	1,699.8	-6.1	-3.4	-5.9	2.00	2.00	0.00
1,800.0	6.00	209.40	1,799.5	-13.7	-7.7	-13.2	2.00	2.00	0.00
1,900.0	8.00	209.40	1,898.7	-24.3	-13.7	-23.5	2.00	2.00	0.00
1,978.4	9.57	209.40	1,978.2	-34.7	-19.6	-33.6	2.00	2.00	0.00
2,000.0	9.57	209.40	1,997.5	-37.8	-21.3	-36.6	0.00	0.00	0.00
2,100.0	9.57	209.40	2,098.1	-52.3	-29.5	-50.6	0.00	0.00	0.00
2,200.0	9.57	209.40	2,194.7	-66.8	-37.6	-64.6	0.00	0.00	0.00
2,300.0	9.57	209.40	2,293.3	-81.3	-45.8	-78.6	0.00	0.00	0.00
2,400.0	9.57	209.40	2,391.9	-95.8	-54.0	-92.6	0.00	0.00	0.00
2,500.0	9.57	209.40	2,490.5	-110.3	-62.1	-106.6	0.00	0.00	0.00
2,600.0	9.57	209.40	2,589.1	-124.7	-70.3	-120.5	0.00	0.00	0.00
2,700.0	9.57	209.40	2,687.7	-139.2	-78.4	-134.5	0.00	0.00	0.00
2,800.0	9.57	209.40	2,786.4	-153.7	-86.6	-148.5	0.00	0.00	0.00
2,900.0	9.57	209.40	2,885.0	-168.2	-94.8	-162.5	0.00	0.00	0.00
3,000.0	9.57	209.40	2,983.6	-182.7	-102.9	-176.5	0.00	0.00	0.00
3,100.0	9.57	209.40	3,082.2	-197.1	-111.1	-190.5	0.00	0.00	0.00
3,200.0	9.57	209.40	3,180.8	-211.6	-119.2	-204.5	0.00	0.00	0.00
3,300.0	9.57	209.40	3,279.4	-226.1	-127.4	-218.5	0.00	0.00	0.00
3,400.0	9.57	209.40	3,378.0	-240.6	-135.6	-232.5	0.00	0.00	0.00
3,500.0	9.57	209.40	3,476.6	-255.1	-143.7	-246.5	0.00	0.00	0.00
3,600.0	9.57	209.40	3,575.2	-269.5	-151.9	-260.5	0.00	0.00	0.00
3,700.0	9.57	209.40	3,673.8	-284.0	-160.0	-274.5	0.00	0.00	0.00
3,800.0	9.57	209.40	3,772.4	-298.5	-168.2	-288.5	0.00	0.00	0.00
3,900.0	9.57	209.40	3,871.0	-313.0	-176.4	-302.5	0.00	0.00	0.00
4,000.0	9.57	209.40	3,969.7	-327.5	-184.5	-316.5	0.00	0.00	0.00
4,100.0	9.57	209.40	4,068.3	-341.9	-192.7	-330.5	0.00	0.00	0.00
4,200.0	9.57	209.40	4,166.9	-356.4	-200.8	-344.5	0.00	0.00	0.00
4,300.0	9.57	209.40	4,265.5	-370.9	-209.0	-358.5	0.00	0.00	0.00
4,400.0	9.57	209.40	4,364.1	-385.4	-217.2	-372.5	0.00	0.00	0.00
4,500.0	9.57	209.40	4,462.7	-399.9	-225.3	-386.5	0.00	0.00	0.00
4,600.0	9.57	209.40	4,561.3	-414.4	-233.5	-400.5	0.00	0.00	0.00
4,700.0	9.57	209.40	4,659.9	-428.8	-241.6	-414.4	0.00	0.00	0.00
4,800.0	9.57	209.40	4,758.5	-443.3	-249.8	-428.4	0.00	0.00	0.00
4,900.0	9.57	209.40	4,857.1	-457.8	-258.0	-442.4	0.00	0.00	0.00
5,000.0	9.57	209.40	4,955.7	-472.3	-266.1	-456.4	0.00	0.00	0.00
5,100.0	9.57	209.40	5,054.4	-486.8	-274.3	-470.4	0.00	0.00	0.00
5,200.0	9.57	209.40	5,153.0	-501.2	-282.4	-484.4	0.00	0.00	0.00



Planning Report

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5,300.0	9.57	209.40	5,251.6	-515.7	-290.6	-498.4	0.00	0.00	0.00
5,400.0	9.57	209.40	5,350.2	-530.2	-298.8	-512.4	0.00	0.00	0.00
5,500.0	9.57	209.40	5,448.8	-544.7	-306.9	-526.4	0.00	0.00	0.00
5,600.0	9.57	209.40	5,547.4	-559.2	-315.1	-540.4	0.00	0.00	0.00
5,700.0	9.57	209.40	5,646.0	-573.6	-323.2	-554.4	0.00	0.00	0.00
5,800.0	9.57	209.40	5,744.6	-588.1	-331.4	-568.4	0.00	0.00	0.00
5,900.0	9.57	209.40	5,843.2	-602.6	-339.6	-582.4	0.00	0.00	0.00
6,000.0	9.57	209.40	5,941.8	-617.1	-347.7	-596.4	0.00	0.00	0.00
6,100.0	9.57	209.40	6,040.4	-631.6	-355.9	-610.4	0.00	0.00	0.00
6,200.0	9.57	209.40	6,139.1	-646.0	-364.0	-624.4	0.00	0.00	0.00
6,300.0	9.57	209.40	6,237.7	-660.5	-372.2	-638.4	0.00	0.00	0.00
6,400.0	9.57	209.40	6,336.3	-675.0	-380.4	-652.4	0.00	0.00	0.00
6,500.0	9.57	209.40	6,434.9	-689.5	-388.5	-666.4	0.00	0.00	0.00
6,600.0	9.57	209.40	6,533.5	-704.0	-396.7	-680.4	0.00	0.00	0.00
6,700.0	9.57	209.40	6,632.1	-718.5	-404.8	-694.4	0.00	0.00	0.00
6,800.0	9.57	209.40	6,730.7	-732.9	-413.0	-708.3	0.00	0.00	0.00
6,900.0	9.57	209.40	6,829.3	-747.4	-421.2	-722.3	0.00	0.00	0.00
7,000.0	9.57	209.40	6,927.9	-761.9	-429.3	-736.3	0.00	0.00	0.00
7,100.0	9.57	209.40	7,026.5	-776.4	-437.5	-750.3	0.00	0.00	0.00
7,209.8	9.57	209.40	7,134.8	-792.3	-446.4	-765.7	0.00	0.00	0.00
7,300.0	7.76	209.40	7,224.0	-804.1	-453.1	-777.1	2.00	-2.00	0.00
7,400.0	5.76	209.40	7,323.3	-814.4	-458.9	-787.1	2.00	-2.00	0.00
7,500.0	3.76	209.40	7,422.9	-821.6	-463.0	-794.1	2.00	-2.00	0.00
7,600.0	1.76	209.40	7,522.8	-825.8	-465.3	-798.1	2.00	-2.00	0.00
7,688.2	0.00	0.00	7,611.0	-827.0	-466.0	-799.3	2.00	-2.00	0.00
7,700.0	0.00	0.00	7,622.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,722.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,822.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,922.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,022.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,122.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,222.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,322.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,422.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,522.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,622.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,722.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,822.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,922.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,022.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,122.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,222.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,322.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,422.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,522.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,622.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,722.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,822.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,922.8	-827.0	-466.0	-799.3	0.00	0.00	0.00
10,099.7	0.00	0.00	10,022.5	-827.0	-466.0	-799.3	0.00	0.00	0.00
10,125.0	3.03	359.57	10,047.8	-826.3	-466.0	-798.6	12.00	12.00	0.00
10,150.0	6.03	359.57	10,072.7	-824.4	-466.0	-796.6	12.00	12.00	0.00
10,175.0	9.03	359.57	10,097.5	-821.1	-468.0	-793.3	12.00	12.00	0.00
10,200.0	12.03	359.57	10,122.0	-816.5	-466.1	-788.8	12.00	12.00	0.00



Planning Report

Database: EDM
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Site: Neptune 10 State Com
Well: #401H
Wellbore: Oh
Design: Plan #0.1

Local Co-ordinate Reference: Well #401H
TVD Reference: KB = 25 @ 3629.0usft
MD Reference: KB = 25 @ 3629.0usft
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)
10,225.0	15.03	359.57	10,146.4	-810.7	-468.1	-782.9	12.00	12.00	0.00
10,250.0	18.03	359.57	10,170.3	-803.5	-466.2	-775.8	12.00	12.00	0.00
10,275.0	21.03	359.57	10,193.9	-795.2	-466.2	-767.5	12.00	12.00	0.00
10,300.0	24.03	359.57	10,217.0	-785.6	-468.3	-757.9	12.00	12.00	0.00
10,325.0	27.03	359.57	10,239.5	-774.8	-468.4	-747.1	12.00	12.00	0.00
10,350.0	30.03	359.57	10,261.5	-762.9	-468.5	-735.2	12.00	12.00	0.00
10,375.0	33.03	359.57	10,282.8	-749.8	-468.6	-722.2	12.00	12.00	0.00
10,400.0	36.03	359.57	10,303.4	-735.6	-468.7	-708.0	12.00	12.00	0.00
10,425.0	39.03	359.57	10,323.2	-720.4	-468.8	-692.8	12.00	12.00	0.00
10,450.0	42.03	359.57	10,342.2	-704.2	-468.9	-676.6	12.00	12.00	0.00
10,475.0	45.03	359.57	10,360.3	-687.0	-467.0	-659.4	12.00	12.00	0.00
10,500.0	48.03	359.57	10,377.5	-668.8	-467.2	-641.3	12.00	12.00	0.00
10,525.0	51.03	359.57	10,393.7	-649.8	-467.3	-622.3	12.00	12.00	0.00
10,550.0	54.03	359.57	10,408.9	-630.0	-467.5	-602.4	12.00	12.00	0.00
10,575.0	57.03	359.57	10,423.1	-609.3	-467.6	-581.9	12.00	12.00	0.00
10,600.0	60.03	359.57	10,438.1	-588.0	-467.8	-560.6	12.00	12.00	0.00
10,625.0	63.03	359.57	10,448.1	-566.1	-468.0	-538.6	12.00	12.00	0.00
10,650.0	66.03	359.57	10,458.8	-543.5	-468.1	-516.1	12.00	12.00	0.00
10,675.0	69.03	359.57	10,468.4	-520.4	-468.3	-493.0	12.00	12.00	0.00
10,700.0	72.03	359.57	10,478.7	-496.8	-468.5	-469.5	12.00	12.00	0.00
10,725.0	75.03	359.57	10,483.8	-472.8	-468.7	-445.5	12.00	12.00	0.00
10,750.0	78.03	359.57	10,489.6	-448.5	-468.8	-421.2	12.00	12.00	0.00
10,775.0	81.03	359.57	10,494.1	-424.0	-469.0	-396.7	12.00	12.00	0.00
10,800.0	84.03	359.57	10,497.4	-399.2	-469.2	-371.9	12.00	12.00	0.00
10,825.0	87.03	359.57	10,499.3	-374.3	-469.4	-347.0	12.00	12.00	0.00
10,849.7	90.00	359.57	10,500.0	-349.6	-469.6	-322.4	12.00	12.00	0.00
10,900.0	90.00	359.57	10,500.0	-299.3	-470.0	-272.1	0.00	0.00	0.00
11,000.0	90.00	359.57	10,500.0	-199.3	-470.7	-172.3	0.00	0.00	0.00
11,100.0	90.00	359.57	10,500.0	-99.3	-471.5	-72.4	0.00	0.00	0.00
11,200.0	90.00	359.57	10,500.0	0.7	-472.2	27.5	0.00	0.00	0.00
11,300.0	90.00	359.57	10,500.0	100.7	-473.0	127.4	0.00	0.00	0.00
11,400.0	90.00	359.57	10,500.0	200.7	-473.7	227.2	0.00	0.00	0.00
11,500.0	90.00	359.57	10,500.0	300.7	-474.5	327.1	0.00	0.00	0.00
11,600.0	90.00	359.57	10,500.0	400.7	-475.2	427.0	0.00	0.00	0.00
11,700.0	90.00	359.57	10,500.0	500.7	-475.9	526.9	0.00	0.00	0.00
11,800.0	90.00	359.57	10,500.0	600.7	-476.7	626.8	0.00	0.00	0.00
11,900.0	90.00	359.57	10,500.0	700.7	-477.4	726.6	0.00	0.00	0.00
12,000.0	90.00	359.57	10,500.0	800.7	-478.2	826.5	0.00	0.00	0.00
12,100.0	90.00	359.57	10,500.0	900.7	-478.9	926.4	0.00	0.00	0.00
12,200.0	90.00	359.57	10,500.0	1,000.7	-479.7	1,026.3	0.00	0.00	0.00
12,300.0	90.00	359.57	10,500.0	1,100.7	-480.4	1,126.2	0.00	0.00	0.00
12,400.0	90.00	359.57	10,500.0	1,200.7	-481.2	1,226.0	0.00	0.00	0.00
12,500.0	90.00	359.57	10,500.0	1,300.7	-481.9	1,325.9	0.00	0.00	0.00
12,600.0	90.00	359.57	10,500.0	1,400.7	-482.7	1,425.8	0.00	0.00	0.00
12,700.0	90.00	359.57	10,500.0	1,500.7	-483.4	1,525.7	0.00	0.00	0.00
12,800.0	90.00	359.57	10,500.0	1,600.7	-484.2	1,625.6	0.00	0.00	0.00
12,900.0	90.00	359.57	10,500.0	1,700.7	-484.9	1,725.4	0.00	0.00	0.00
13,000.0	90.00	359.57	10,500.0	1,800.7	-485.7	1,825.3	0.00	0.00	0.00
13,100.0	90.00	359.57	10,500.0	1,900.7	-486.4	1,925.2	0.00	0.00	0.00
13,200.0	90.00	359.57	10,500.0	2,000.7	-487.2	2,025.1	0.00	0.00	0.00
13,300.0	90.00	359.57	10,500.0	2,100.7	-487.9	2,124.9	0.00	0.00	0.00
13,400.0	90.00	359.57	10,500.0	2,200.7	-488.7	2,224.8	0.00	0.00	0.00
13,500.0	90.00	359.57	10,500.0	2,300.7	-489.4	2,324.7	0.00	0.00	0.00
13,600.0	90.00	359.57	10,500.0	2,400.7	-490.2	2,424.6	0.00	0.00	0.00



Planning Report

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 Wellbore: Oh
 Design: Plan #0.1

Local Co-ordinate Reference: Well #401H
 TVD Reference: KB = 25 @ 3629.0usft
 MD Reference: KB = 25 @ 3629.0usft
 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)
13,700.0	90.00	359.57	10,500.0	2,500.7	-490.9	2,524.5	0.00	0.00	0.00
13,800.0	90.00	359.57	10,500.0	2,600.7	-491.7	2,624.3	0.00	0.00	0.00
13,900.0	90.00	359.57	10,500.0	2,700.7	-492.4	2,724.2	0.00	0.00	0.00
14,000.0	90.00	359.57	10,500.0	2,800.6	-493.2	2,824.1	0.00	0.00	0.00
14,100.0	90.00	359.57	10,500.0	2,900.6	-493.9	2,924.0	0.00	0.00	0.00
14,200.0	90.00	359.57	10,500.0	3,000.6	-494.7	3,023.9	0.00	0.00	0.00
14,300.0	90.00	359.57	10,500.0	3,100.6	-495.4	3,123.7	0.00	0.00	0.00
14,400.0	90.00	359.57	10,500.0	3,200.6	-496.2	3,223.6	0.00	0.00	0.00
14,500.0	90.00	359.57	10,500.0	3,300.6	-496.9	3,323.5	0.00	0.00	0.00
14,600.0	90.00	359.57	10,500.0	3,400.6	-497.7	3,423.4	0.00	0.00	0.00
14,700.0	90.00	359.57	10,500.0	3,500.6	-498.4	3,523.3	0.00	0.00	0.00
14,800.0	90.00	359.57	10,500.0	3,600.6	-499.2	3,623.1	0.00	0.00	0.00
14,900.0	90.00	359.57	10,500.0	3,700.6	-499.9	3,723.0	0.00	0.00	0.00
15,000.0	90.00	359.57	10,500.0	3,800.6	-500.7	3,822.9	0.00	0.00	0.00
15,100.0	90.00	359.57	10,500.0	3,900.6	-501.4	3,922.8	0.00	0.00	0.00
15,200.0	90.00	359.57	10,500.0	4,000.6	-502.2	4,022.6	0.00	0.00	0.00
15,300.0	90.00	359.57	10,500.0	4,100.6	-502.9	4,122.5	0.00	0.00	0.00
15,400.0	90.00	359.57	10,500.0	4,200.6	-503.7	4,222.4	0.00	0.00	0.00
15,500.0	90.00	359.57	10,500.0	4,300.6	-504.4	4,322.3	0.00	0.00	0.00
15,600.0	90.00	359.57	10,500.0	4,400.6	-505.2	4,422.2	0.00	0.00	0.00
15,700.0	90.00	359.57	10,500.0	4,500.6	-505.9	4,522.0	0.00	0.00	0.00
15,800.0	90.00	359.57	10,500.0	4,600.6	-506.7	4,621.9	0.00	0.00	0.00
15,900.0	90.00	359.57	10,500.0	4,700.6	-507.4	4,721.8	0.00	0.00	0.00
16,000.0	90.00	359.57	10,500.0	4,800.6	-508.2	4,821.7	0.00	0.00	0.00
16,100.0	90.00	359.57	10,500.0	4,900.6	-508.9	4,921.6	0.00	0.00	0.00
16,200.0	90.00	359.57	10,500.0	5,000.6	-509.7	5,021.4	0.00	0.00	0.00
16,300.0	90.00	359.57	10,500.0	5,100.6	-510.4	5,121.3	0.00	0.00	0.00
16,400.0	90.00	359.57	10,500.0	5,200.6	-511.2	5,221.2	0.00	0.00	0.00
16,500.0	90.00	359.57	10,500.0	5,300.6	-511.9	5,321.1	0.00	0.00	0.00
16,600.0	90.00	359.57	10,500.0	5,400.6	-512.7	5,421.0	0.00	0.00	0.00
16,700.0	90.00	359.57	10,500.0	5,500.6	-513.4	5,520.8	0.00	0.00	0.00
16,800.0	90.00	359.57	10,500.0	5,600.6	-514.2	5,620.7	0.00	0.00	0.00
16,900.0	90.00	359.57	10,500.0	5,700.6	-514.9	5,720.6	0.00	0.00	0.00
17,000.0	90.00	359.57	10,500.0	5,800.6	-515.7	5,820.5	0.00	0.00	0.00
17,100.0	90.00	359.57	10,500.0	5,900.6	-516.4	5,920.3	0.00	0.00	0.00
17,200.0	90.00	359.57	10,500.0	6,000.6	-517.2	6,020.2	0.00	0.00	0.00
17,300.0	90.00	359.57	10,500.0	6,100.6	-517.9	6,120.1	0.00	0.00	0.00
17,400.0	90.00	359.57	10,500.0	6,200.6	-518.7	6,220.0	0.00	0.00	0.00
17,500.0	90.00	359.57	10,500.0	6,300.6	-519.4	6,319.9	0.00	0.00	0.00
17,600.0	90.00	359.57	10,500.0	6,400.5	-520.2	6,419.7	0.00	0.00	0.00
17,700.0	90.00	359.57	10,500.0	6,500.5	-520.9	6,519.6	0.00	0.00	0.00
17,800.0	90.00	359.57	10,500.0	6,600.5	-521.7	6,619.5	0.00	0.00	0.00
17,900.0	90.00	359.57	10,500.0	6,700.5	-522.4	6,719.4	0.00	0.00	0.00
18,000.0	90.00	359.57	10,500.0	6,800.5	-523.2	6,819.3	0.00	0.00	0.00
18,100.0	90.00	359.57	10,500.0	6,900.5	-523.9	6,919.1	0.00	0.00	0.00
18,200.0	90.00	359.57	10,500.0	7,000.5	-524.7	7,019.0	0.00	0.00	0.00
18,300.0	90.00	359.57	10,500.0	7,100.5	-525.4	7,118.9	0.00	0.00	0.00
18,400.0	90.00	359.57	10,500.0	7,200.5	-526.2	7,218.8	0.00	0.00	0.00
18,500.0	90.00	359.57	10,500.0	7,300.5	-526.9	7,318.7	0.00	0.00	0.00
18,600.0	90.00	359.57	10,500.0	7,400.5	-527.7	7,418.5	0.00	0.00	0.00
18,700.0	90.00	359.57	10,500.0	7,500.5	-528.4	7,518.4	0.00	0.00	0.00
18,800.0	90.00	359.57	10,500.0	7,600.5	-529.2	7,618.3	0.00	0.00	0.00
18,900.0	90.00	359.57	10,500.0	7,700.5	-529.9	7,718.2	0.00	0.00	0.00
19,000.0	90.00	359.57	10,500.0	7,800.5	-530.7	7,818.0	0.00	0.00	0.00



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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)
19,100.0	90.00	359.57	10,500.0	7,900.5	-531.4	7,917.9	0.00	0.00	0.00
19,200.0	90.00	359.57	10,500.0	8,000.5	-532.1	8,017.8	0.00	0.00	0.00
19,300.0	90.00	359.57	10,500.0	8,100.5	-532.9	8,117.7	0.00	0.00	0.00
19,400.0	90.00	359.57	10,500.0	8,200.5	-533.6	8,217.6	0.00	0.00	0.00
19,500.0	90.00	359.57	10,500.0	8,300.5	-534.4	8,317.4	0.00	0.00	0.00
19,600.0	90.00	359.57	10,500.0	8,400.5	-535.1	8,417.3	0.00	0.00	0.00
19,700.0	90.00	359.57	10,500.0	8,500.5	-535.9	8,517.2	0.00	0.00	0.00
19,800.0	90.00	359.57	10,500.0	8,600.5	-536.6	8,617.1	0.00	0.00	0.00
19,900.0	90.00	359.57	10,500.0	8,700.5	-537.4	8,717.0	0.00	0.00	0.00
20,000.0	90.00	359.57	10,500.0	8,800.5	-538.1	8,816.8	0.00	0.00	0.00
20,100.0	90.00	359.57	10,500.0	8,900.5	-538.9	8,916.7	0.00	0.00	0.00
20,200.0	90.00	359.57	10,500.0	9,000.5	-539.6	9,016.6	0.00	0.00	0.00
20,300.0	90.00	359.57	10,500.0	9,100.5	-540.4	9,116.5	0.00	0.00	0.00
20,400.0	90.00	359.57	10,500.0	9,200.5	-541.1	9,216.4	0.00	0.00	0.00
20,500.0	90.00	359.57	10,500.0	9,300.5	-541.9	9,316.2	0.00	0.00	0.00
20,600.0	90.00	359.57	10,500.0	9,400.5	-542.6	9,416.1	0.00	0.00	0.00
20,700.0	90.00	359.57	10,500.0	9,500.5	-543.4	9,516.0	0.00	0.00	0.00
20,781.5	90.00	359.57	10,500.0	9,582.0	-544.0	9,597.4	0.00	0.00	0.00

Design Targets

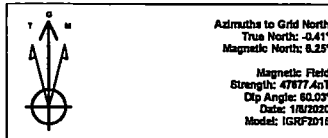
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOPP (Neptune 10 St C - plan hits target center - Point	0.00	0.00	10,022.5	-827.0	-466.0	446,454.00	780,927.00	32° 13' 30.013 N	103° 33' 30.767 W
PBHL (Neptune 10 St C - plan hits target center - Point	0.00	0.00	10,500.0	9,582.0	-544.0	456,863.00	780,849.00	32° 15' 13.017 N	103° 33' 30.801 W
FTP (Neptune 10 St Cor - plan misses target center by 163.4usft at 10500.0usft MD (10377.5 TVD, -668.8 N, -487.2 E) - Point	0.00	0.00	10,500.0	-777.0	-466.0	446,504.00	780,927.00	32° 13' 30.508 N	103° 33' 30.763 W



Lea County, NM (NAD 83 NME)

Neptune 10 State Com #401H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 8.25°
 To convert a Magnetic Direction to a True Direction, Add 8.67° East
 To convert a True Direction to a Grid Direction, Subtract 0.41°

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

WELL DETAILS: #401H

KB = 25 @ 3529.0usft 3504.0
 Northing 447291.00 Easting 781353.00 Latitude 33° 13' 38.183 N Longitude 103° 33' 24.273 W

SECTION DETAILS

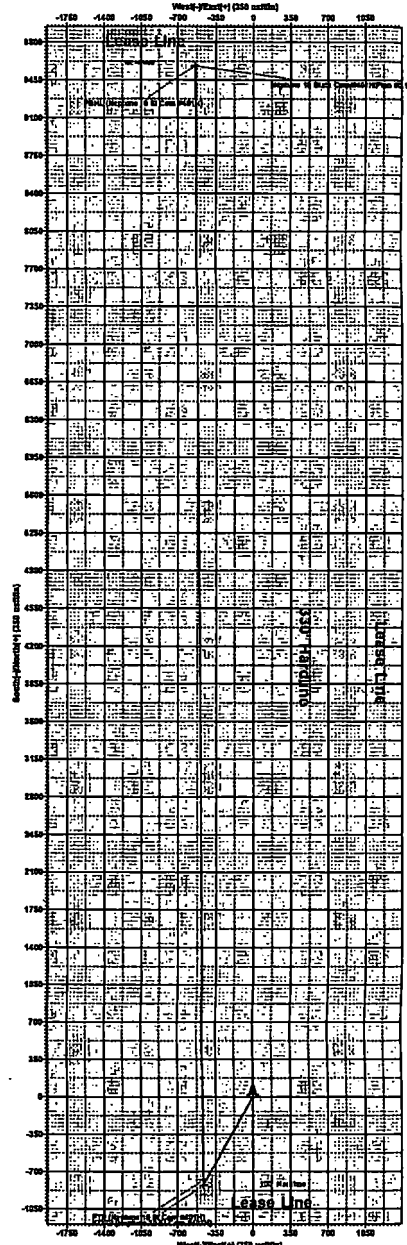
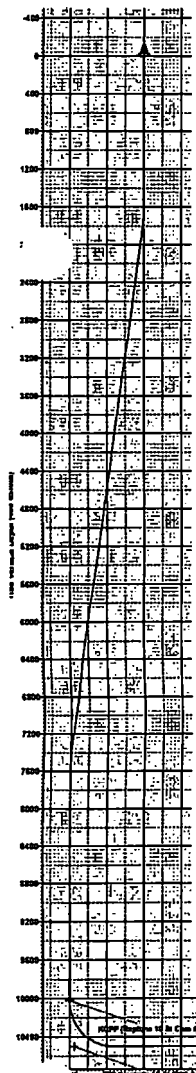
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1978.4	9.57	209.40	1976.2	-34.7	-19.6	2.00	209.40	-33.6	
4	7209.8	9.57	209.40	7134.8	-792.3	-446.4	0.00	0.00	-765.7	
5	7688.2	0.00	0.00	7811.0	-827.0	-468.0	2.00	180.00	-789.3	
6	10099.7	0.00	0.00	10022.5	-827.0	-468.0	0.00	0.00	-799.3	KOPP (Neptune 10 St Com #401H)
7	10849.7	60.00	359.57	10500.0	-349.6	-489.6	12.00	359.57	-322.4	
8	20781.5	60.00	359.57	10500.0	9582.0	-544.0	0.00	0.00	8597.4	PBHL (Neptune 10 St Com #401H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOPP (Neptune 10 St Com #401H)	10022.5	-827.0	-468.0	449454.00	780927.00
PBHL (Neptune 10 St Com #401H)	10500.0	9582.0	-444.0	438883.00	780343.00
FTP (Neptune 10 St Com #401H)	10500.0	-777.0	-468.0	448504.00	780927.00



Vertical Section at 338.79° (400 meters)

PBHL (Neptune 10 St Com #401H)

Drawn by: [Name]
 Date: [Date]
 Scale: [Scale]

District I
525 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 98135	³ Pool Name WC-025 G-09 S243310P; UPPER WOLFCAMP
⁴ Property Code 313956	⁵ Property Name NEPTUNE 10 STATE COM	
⁶ Well Number 401H	⁷ Elevation 3604'	
⁸ OGRID No. 7377	⁹ Operator Name EOG RESOURCES, INC.	

¹⁰Surface Location

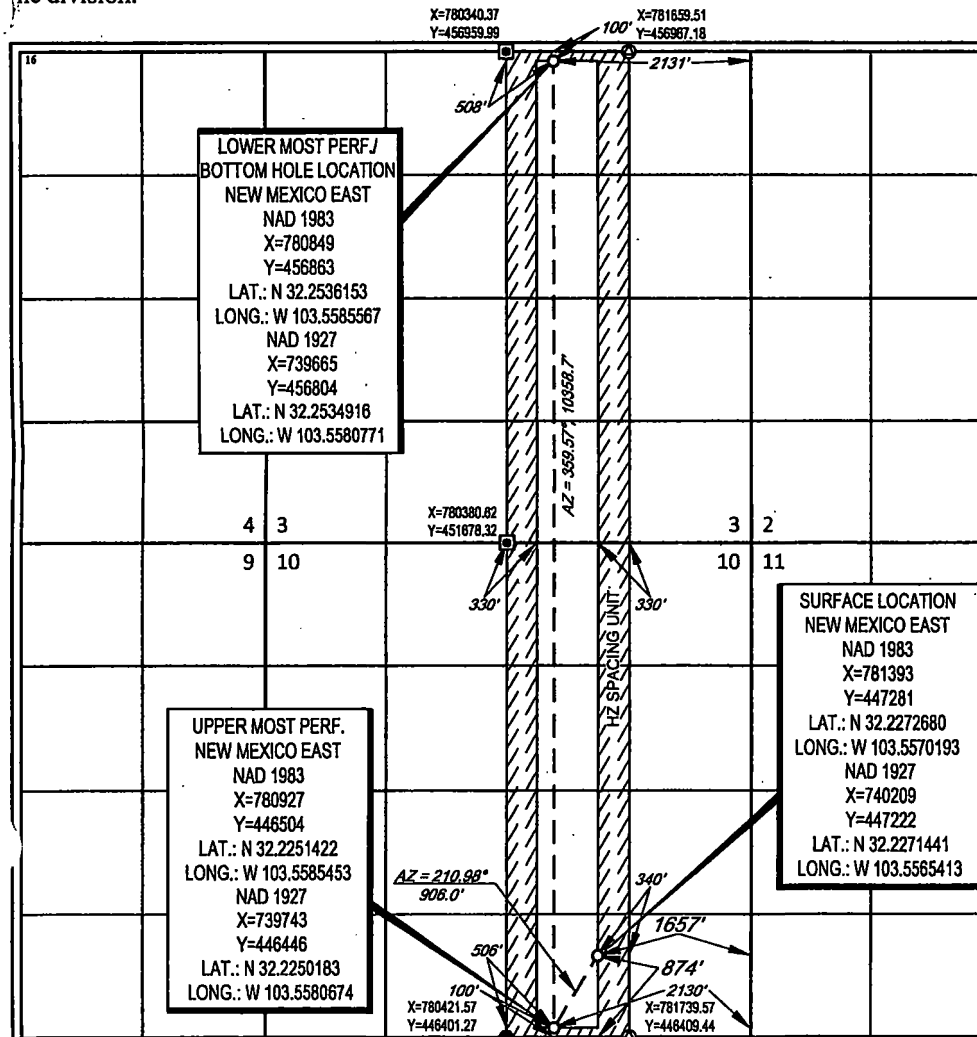
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	10	24-S	33-E	-	874'	SOUTH	1657'	EAST	LEA

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
2	3	24-S	33-E	-	100'	NORTH	2131'	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.

Emily Follis 01/07/2020
Signature Date

Emily Follis
Printed Name

emily.follis@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