

Well Name: POKER LAKE UNIT 21 DTD	Well Location: T24S / R30E / SEC 21 / SWNE / 32.207389 / -103.882007	County or Parish/State: EDDY / NM
Well Number: 177H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC068431	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001550200	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2870358

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 08/27/2025	Time Sundry Submitted: 02:37
Date proposed operation will begin: 08/27/2025	

Procedure Description: Effective date 1/1/23 XTO Permian Operating LLC respectfully requests to make the following changes for: Dedicated acres: f/ 640.46 t/ 1360.75 TD: f/ 32811' MD / 10958' TVD t/ 32450' MD/ 10909.5' TVD FTP: f/ 100' FSL & 110' FEL t/ 378' FNL & 159' FEL, Sec 21-24S-30E; Lease NMLC 0068431 Updated HSU Attachments: Updated C-102 on new form, drilling plan and directional plan.

NOI Attachments

Procedure Description

- POKER_LAKE_UNIT_21_DTD_177H_C102_AMENDED_FINAL_07_07_2025_20250903142253.pdf
- Poker_Lake_Unit_21_DTD_177H_Post_Execution_Drilling_Template__RC__DJ__July_3__20250903142232.pdf
- PLU_21_DTD_177H_Plan_5_Standard_Plan_20250903142232.pdf

Received by OCD: 9/11/2025 9:31:25 AM

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Well Name: POKER LAKE UNIT 21 DTD	Well Location: T24S / R30E / SEC 21 / SWNE / 32.207389 / -103.882007	County or Parish/State: EDDY / NM
Well Number: 177H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC068431	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001550200	Operator: XTO PERMIAN OPERATING LLC	

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: LACEY GRANILLO	Signed on: SEP 03, 2025 02:23 PM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 6401 HOLIDAY HILL ROAD	
City: MIDLAND	State: TX
Phone: (432) 894-0057	
Email address: LACEY.GRANILLO@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: CWALLS@BLM.GOV
Disposition: Accepted	Disposition Date: 09/10/2025
Signature: Chris Walls	

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMLC068431

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator XTO PERMIAN OPERATING LLC

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. (include area code)
(432) 683-22777. If Unit of CA/Agreement, Name and/or No.
POKER LAKE UNIT/NMNM71016X8. Well Name and No.
POKER LAKE UNIT 21 DTD/177H

9. API Well No. 3001550200

10. Field and Pool or Exploratory Area
WILDCAT G-06 S243026M, BONE SPRING/BONE SPRING4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 21/T24S/R30E/NMP11. Country or Parish, State
EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Effective date 1/1/23

XTO Permian Operating LLC respectfully requests to make the following changes for:

Dedicated acres: f/ 640.46 t/ 1360.75

TD: f/ 32811 MD / 10958' TVD t/ 32450 MD/ 10909.5 TVD

FTP: f/ 100 FSL & 110 FEL t/ 378 FNL & 159 FEL, Sec 21-24S-30E; Lease NMLC 0068431

Updated HSU

Attachments: Updated C-102 on new form, drilling plan and directional plan.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

LACEY GRANILLO / Ph: (432) 894-0057

Regulatory Analyst

Title

(Electronic Submission)
Signature

Date

09/03/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Accepted

Petroleum Engineer

Title

09/10/2025

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWNE / 1127 FNL / 1366 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.207389 / LONG: -103.882007 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FSL / 110 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209427 / LONG: -103.882859 (TVD: 11371 feet, MD: 11800 feet)

BHL: NWNE / 50 FNL / 110 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268079 / LONG: -103.882925 (TVD: 11986 feet, MD: 33692 feet)

Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting	
		Submittal Type:	☐ Initial Submittal
			☒ Amended Report
		☐ As Drilled	

WELL LOCATION INFORMATION

API Number 30-015-50200	Pool Code 97798	Pool Name WILDCAT G-06 S243026M; BONE SPRING
Property Code	Property Name POKER LAKE UNIT 21 DTD	Well Number 177H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC	Ground Level Elevation 3376'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	21	24S	30E		1,127 FNL	1,366 FEL	32.207389	-103.882007	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	33	23S	30E		50 FNL	110 FEL	32.268489	-103.877945	EDDY

Dedicated Acres 1,360.75	Infill or Defining Well INFILL	Defining Well API 30-015-50185	Overlapping Spacing Unit (Y/N) Y	Consolidation Code U
Order Numbers:			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	21	24S	30E		1,127 FNL	1,366 FEL	32.207389	-103.882007	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	21	24S	30E		378 FNL	159 FEL	32.209458	-103.878103	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	33	23S	30E		100 FNL	110 FEL	32.268351	-103.877944	EDDY

Unitized Area or Area of Uniform Interest NMNM-105422429	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3376'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> <i>Lacey Granillo</i> 8/27/25 SignatureDate Lacey Granillo Printed Name lacey.granillo@exxonmobil.com Email Address	SURVEYOR CERTIFICATIONS <i>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 and correct to the best of my belief.</i>   Signature and Seal of Professional Surveyor 23786 07-07-2025 Certificate NumberDate of Survey DN618.013003.07-64
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Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

 SECTION LINE
 330' BUFFER
 PPP

 TOWNSHIP LINE
 MINERAL LEASE
 WELL

 DEDICATED ACRFAGE
 WELLBORE

WELL COORDINATE TABLE								
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LON
SHL/KOP	680,928.1	439,475.3	32.207389	-103.882007	639,744.3	439,416.1	32.207265	-103.881520
FTP	682,132.5	440,232.9	32.209458	-103.878103	640,948.7	440,173.7	32.209333	-103.877616
LTP	682,090.7	461,657.9	32.268351	-103.877944	640,907.7	461,598.1	32.268227	-103.877455
BHL	682,090.3	461,707.9	32.268489	-103.877945	640,907.3	461,648.1	32.268365	-103.877455
PPP 1	682,131.8	440,610.4	32.210495	-103.878100	640,948.0	440,551.2	32.210371	-103.877613
PPP 2	682,121.5	445,887.8	32.225002	-103.878061	640,937.9	445,828.4	32.224878	-103.877573
PPP 3	682,111.2	451,164.6	32.239507	-103.878022	640,927.8	451,105.0	32.239383	-103.877534
PPP 4	682,100.8	456,459.6	32.254062	-103.877983	640,917.6	456,399.9	32.253938	-103.877494
PPP 5	682,095.7	459,109.1	32.261345	-103.877963	640,912.6	459,049.3	32.261221	-103.877474

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	679,621.1	437,951.0	638,437.3	437,891.8
B	679,615.3	440,592.6	638,431.6	440,533.4
C	679,610.5	443,235.0	638,426.8	443,175.7
D	679,605.7	445,873.6	638,422.1	445,814.2
E	679,594.8	448,513.2	638,411.3	448,453.3
F	679,583.9	451,154.2	638,400.5	451,094.6
G	679,569.0	453,793.6	638,385.7	453,733.9
H	679,554.1	456,442.3	638,370.9	456,382.6
I	679,540.1	459,095.8	638,357.0	459,036.0
J	679,526.1	461,748.5	638,343.1	461,688.7
K	682,299.9	437,971.4	641,116.1	437,912.2
L	682,290.6	440,611.5	641,106.8	440,552.3
M	682,283.6	443,252.9	641,100.0	443,193.5
N	682,284.9	445,888.8	641,101.3	445,829.4
O	682,273.6	448,526.7	641,090.1	448,467.2
P	682,261.6	451,165.2	641,078.2	451,105.6
Q	682,246.7	453,803.2	641,063.4	453,743.6
R	682,231.5	456,460.5	641,048.3	456,400.8
S	682,216.6	459,109.7	641,033.5	459,049.9
T	682,200.1	461,758.5	641,017.1	461,698.7

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

ExxonMobil
Poker Lake Unit 21 DTD 177H
TD 32450 MD / 10909.5 TVD
SHL: 1127' FNL & 1366' FEL , Section 21, T24S, R30E
BHL: 50' FNL & 110' FEL , Section 33, T23S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation
A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
RSLR	652	Water
SLDO	939	Water
SALT_B	3664	Water
DLWR	3883	Water/Oil/Gas
CRCN	4765	Water/Oil/Gas
BSPG_LM	7723	Water/Oil/Gas
AVLN	7824	Water/Oil/Gas
BSPG1_LM	8488	Water/Oil/Gas
BSPG2_SH	8938	Water/Oil/Gas
BSPG2_LM	9032	Water/Oil/Gas
BSPG2_SS	9493	Water/Oil/Gas
BSPG2_TB	9612	Water/Oil/Gas
BSPG3_LM	9793	Water/Oil/Gas
BSPG3_SH	10180	Water/Oil/Gas
BSPG3_SS	10588	Water/Oil/Gas
BSPG3_Red_Hills	10863	Water/Oil/Gas
Landing	10885	Water/Oil/Gas

	INC °	Azimuth °	TVD (ft)	Y offset (ft)	X offset (ft)
SHL	0.00	0.00	0.00	439416.10	639744.30
KOP	8.50	74.08	9938.06	439871.48	640909.67
LP	90.08	1.99	10885.38	440808.16	640991.47
FTP	47.70	0.22	10679.65	440174.49	640949.26
LTP	89.90	0.71	10910.58	461448.10	640895.29
BHL	90.22	0.13	10909.53	461692.07	640897.15

3. Primary Casing Design
Primary Design:

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5"	0' – 993'	993'	13-3/8"	54.5	J55	BTC	New	1.07	3.09	19.35
12.25"	0' – 4024'	3995	9-5/8"	40	P-110	BTC	New	2.63	9.23	3.13
12.25"	4024' - 10005'	9895	9-5/8"	40	HCL-80	BTC	New	1.92	1.33	2.51
8.5"	0' – 32435'	11562	6"	26	P-110	Talon HTQ	New	1.17	2.51	1.71

Wellhead:

A multi-bowl wellhead system will be utilized.The well design chosen is: 3-String big / Non-Potash

Wellhead will be installed by manufacturer’s representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Primary Cementing								
Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	410	12.8	1.35	32	993		Surface 1 Class C Lead Cement
Surface 1	Tail	675	14.8	1.35	493	993		Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	1565	15.6	1.23	7600	10,005		Intermediate 1 Class H Lead Cement
Production 1	Lead							
Production 1	Tail	4155	13.2	1.42	3926	32,435		Production 1 Class H Cement
Remedial Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval		Excess (%)	Slurry Description
Intermediate 1	Squeeze	1840	14.8	1.51	33-7600		-	Intermediate Class C Squeeze Cement

5. Pressure Control Equipment

Section 5 Summary:

Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of a minimum 5M Hydril and a minimum 10M triple Ram BOP.

All BOP testing will be done by an independent service company. Operator will Test as per 43CFR-3172

Requested Variances

4A) Offline Cementing Variance
XOM requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XOM will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5A) Break Test Variance
A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point does not penetrate the Wolfcamp Formation.

5B) Flex Hose Variance
A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

8A) Open Hole Logging Variance
Open hole logging will not be done on this well.

10A) Spudder Rig Variance
XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

10B) Batch Drilling Variance
XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XOM will begin drilling the production hole on each of the wells.

6. Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments
0'-993'	17.5"	Water	8.4	28	NC	
993'-10005'	12.25"	Water/ BDE	8.2-8.6	28-51	NC	
10005'-32435'	8.5"	BDE / Invert/Oil Base	11.1-11.5	51-63	NC - 20	

Section 6 Summary:

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. An EDR (Electronic Drilling Recorder) will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment**Section 7 Summary:**

A Kelly cock will be in the drill string at all times.

A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.

H2S monitors will be on location when drilling below the 9-5/8" casing.

8. Logging, Coring and Testing Program**Section 8 Summary:**

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards**Section 9 Summary:**

The estimated bottom hole temperature of 75F to 95F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations**Section 10 Summary:**

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

ROC

Nabors X12 - Eddy County (NMEZ NAD 27)
(X12) - PLU 21 DTD - Plans
PLU 21 DTD - 177H

OH

Plan: Plan 5

Standard Planning Report

13 February, 2023

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

Project	Nabors X12 - Eddy County (NMEZ NAD 27), Shady Pines 24-36		
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	(X12) - PLU 21 DTD - Plans		
Site Position:		Northing:	439,415.50 usft
From:	Map	Easting:	639,654.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 26.151 N
		Longitude:	103° 52' 54.521 W
		Grid Convergence:	0.24 °

Well	PLU 21 DTD - 177H		
Well Position	+N/-S	0.6 usft	Northing:
	+E/-W	90.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 12' 26.153 N
		Longitude:	103° 52' 53.473 W
		Ground Level:	3,376.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	9/13/2022	6.54	59.80	47,322.48757827

Design	Plan 5			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	851.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.76

Plan Survey Tool Program		Date	2/13/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	199.0	851.0	Surface Surveys (OH)	XOMR2_OWSG MWD+IFR1+OWSG MWD + IFR1 + Multi-St	
2	851.0	32,466.0	Plan 5 (OH)	XOMR2_OWSG MWD+IFR1+OWSG MWD + IFR1 + Multi-St	

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

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
851.0	2.89	230.70	850.4	-20.5	-17.9	0.00	0.00	0.00	0.00	
1,015.0	2.89	230.70	1,014.2	-25.7	-24.3	0.00	0.00	0.00	0.00	
1,165.0	2.89	230.70	1,164.0	-30.5	-30.2	0.00	0.00	0.00	0.00	
1,728.2	8.46	67.07	1,725.6	-23.4	-2.9	2.00	0.99	-29.05	-167.74	
10,335.1	8.46	67.07	10,238.7	470.1	1,163.7	0.00	0.00	0.00	0.00	
11,419.4	90.00	359.76	10,908.0	1,185.5	1,252.5	8.00	7.52	-6.21	-67.54	
11,469.4	90.00	359.76	10,908.0	1,235.5	1,252.3	0.00	0.00	0.00	0.00	FTP-177H v2
32,416.0	90.00	359.76	10,908.0	22,181.9	1,163.3	0.00	0.00	0.00	0.00	LTP-177H v2
32,466.0	90.00	359.76	10,908.0	22,231.9	1,163.1	0.00	0.00	0.00	0.00	BHL-177H v2

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

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	0.31	219.63	100.0	-0.2	-0.2	-0.2	0.31	0.31	0.00
200.0	0.61	219.63	200.0	-0.8	-0.7	-0.8	0.30	0.30	0.00
300.0	0.97	218.85	300.0	-1.9	-1.5	-1.9	0.36	0.36	-0.78
400.0	1.64	215.00	400.0	-3.7	-2.9	-3.7	0.68	0.67	-3.85
500.0	2.41	213.25	499.9	-6.6	-4.8	-6.6	0.77	0.77	-1.75
600.0	3.27	214.87	599.8	-10.9	-7.6	-10.8	0.86	0.86	1.62
700.0	3.34	225.76	699.6	-15.4	-11.4	-15.3	0.63	0.07	10.89
800.0	3.09	233.30	799.4	-18.9	-15.8	-18.8	0.49	-0.25	7.54
851.0	2.89	230.70	850.4	-20.5	-17.9	-20.4	0.47	-0.39	-5.09
900.0	2.89	230.70	899.3	-22.1	-19.8	-22.0	0.00	0.00	0.00
1,000.0	2.89	230.70	999.2	-25.3	-23.7	-25.2	0.00	0.00	0.00
1,015.0	2.89	230.70	1,014.2	-25.7	-24.3	-25.6	0.00	0.00	0.00
1,100.0	2.89	230.70	1,099.0	-28.4	-27.6	-28.3	0.00	0.00	0.00
1,165.0	2.89	230.70	1,164.0	-30.5	-30.2	-30.4	0.00	0.00	0.00
1,200.0	2.21	226.84	1,198.9	-31.5	-31.3	-31.4	2.00	-1.94	-11.02
1,300.0	0.63	164.39	1,298.9	-33.4	-32.6	-33.3	2.00	-1.59	-62.45
1,400.0	1.97	81.05	1,398.9	-33.6	-30.7	-33.5	2.00	1.35	-83.34
1,500.0	3.92	71.93	1,498.7	-32.3	-25.8	-32.2	2.00	1.95	-9.12
1,600.0	5.91	68.89	1,598.4	-29.4	-17.7	-29.3	2.00	1.98	-3.04
1,700.0	7.90	67.37	1,697.6	-24.9	-6.6	-24.9	2.00	1.99	-1.51
1,728.2	8.46	67.07	1,725.6	-23.4	-2.9	-23.3	2.00	1.99	-1.06
1,800.0	8.46	67.07	1,796.6	-19.2	6.8	-19.3	0.00	0.00	0.00
1,900.0	8.46	67.07	1,895.5	-13.5	20.4	-13.6	0.00	0.00	0.00
2,000.0	8.46	67.07	1,994.4	-7.8	34.0	-7.9	0.00	0.00	0.00
2,100.0	8.46	67.07	2,093.3	-2.0	47.5	-2.2	0.00	0.00	0.00
2,200.0	8.46	67.07	2,192.2	3.7	61.1	3.4	0.00	0.00	0.00
2,300.0	8.46	67.07	2,291.1	9.4	74.6	9.1	0.00	0.00	0.00
2,400.0	8.46	67.07	2,390.0	15.2	88.2	14.8	0.00	0.00	0.00
2,500.0	8.46	67.07	2,488.9	20.9	101.7	20.5	0.00	0.00	0.00
2,600.0	8.46	67.07	2,587.9	26.6	115.3	26.1	0.00	0.00	0.00
2,700.0	8.46	67.07	2,686.8	32.4	128.8	31.8	0.00	0.00	0.00
2,800.0	8.46	67.07	2,785.7	38.1	142.4	37.5	0.00	0.00	0.00
2,900.0	8.46	67.07	2,884.6	43.8	155.9	43.2	0.00	0.00	0.00
3,000.0	8.46	67.07	2,983.5	49.6	169.5	48.8	0.00	0.00	0.00
3,100.0	8.46	67.07	3,082.4	55.3	183.0	54.5	0.00	0.00	0.00
3,200.0	8.46	67.07	3,181.3	61.0	196.6	60.2	0.00	0.00	0.00
3,300.0	8.46	67.07	3,280.2	66.8	210.2	65.9	0.00	0.00	0.00
3,400.0	8.46	67.07	3,379.2	72.5	223.7	71.6	0.00	0.00	0.00
3,500.0	8.46	67.07	3,478.1	78.2	237.3	77.2	0.00	0.00	0.00
3,600.0	8.46	67.07	3,577.0	84.0	250.8	82.9	0.00	0.00	0.00
3,700.0	8.46	67.07	3,675.9	89.7	264.4	88.6	0.00	0.00	0.00
3,800.0	8.46	67.07	3,774.8	95.4	277.9	94.3	0.00	0.00	0.00
3,900.0	8.46	67.07	3,873.7	101.2	291.5	99.9	0.00	0.00	0.00
4,000.0	8.46	67.07	3,972.6	106.9	305.0	105.6	0.00	0.00	0.00
4,100.0	8.46	67.07	4,071.5	112.6	318.6	111.3	0.00	0.00	0.00
4,200.0	8.46	67.07	4,170.4	118.4	332.1	117.0	0.00	0.00	0.00
4,300.0	8.46	67.07	4,269.4	124.1	345.7	122.6	0.00	0.00	0.00
4,400.0	8.46	67.07	4,368.3	129.8	359.2	128.3	0.00	0.00	0.00
4,500.0	8.46	67.07	4,467.2	135.6	372.8	134.0	0.00	0.00	0.00
4,600.0	8.46	67.07	4,566.1	141.3	386.4	139.7	0.00	0.00	0.00
4,700.0	8.46	67.07	4,665.0	147.0	399.9	145.3	0.00	0.00	0.00
4,800.0	8.46	67.07	4,763.9	152.8	413.5	151.0	0.00	0.00	0.00
4,900.0	8.46	67.07	4,862.8	158.5	427.0	156.7	0.00	0.00	0.00

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

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)
5,000.0	8.46	67.07	4,961.7	164.2	440.6	162.4	0.00	0.00	0.00
5,100.0	8.46	67.07	5,060.6	170.0	454.1	168.0	0.00	0.00	0.00
5,200.0	8.46	67.07	5,159.6	175.7	467.7	173.7	0.00	0.00	0.00
5,300.0	8.46	67.07	5,258.5	181.4	481.2	179.4	0.00	0.00	0.00
5,400.0	8.46	67.07	5,357.4	187.1	494.8	185.1	0.00	0.00	0.00
5,500.0	8.46	67.07	5,456.3	192.9	508.3	190.8	0.00	0.00	0.00
5,600.0	8.46	67.07	5,555.2	198.6	521.9	196.4	0.00	0.00	0.00
5,700.0	8.46	67.07	5,654.1	204.3	535.4	202.1	0.00	0.00	0.00
5,800.0	8.46	67.07	5,753.0	210.1	549.0	207.8	0.00	0.00	0.00
5,900.0	8.46	67.07	5,851.9	215.8	562.6	213.5	0.00	0.00	0.00
6,000.0	8.46	67.07	5,950.8	221.5	576.1	219.1	0.00	0.00	0.00
6,100.0	8.46	67.07	6,049.8	227.3	589.7	224.8	0.00	0.00	0.00
6,200.0	8.46	67.07	6,148.7	233.0	603.2	230.5	0.00	0.00	0.00
6,300.0	8.46	67.07	6,247.6	238.7	616.8	236.2	0.00	0.00	0.00
6,400.0	8.46	67.07	6,346.5	244.5	630.3	241.8	0.00	0.00	0.00
6,500.0	8.46	67.07	6,445.4	250.2	643.9	247.5	0.00	0.00	0.00
6,600.0	8.46	67.07	6,544.3	255.9	657.4	253.2	0.00	0.00	0.00
6,700.0	8.46	67.07	6,643.2	261.7	671.0	258.9	0.00	0.00	0.00
6,800.0	8.46	67.07	6,742.1	267.4	684.5	264.5	0.00	0.00	0.00
6,900.0	8.46	67.07	6,841.0	273.1	698.1	270.2	0.00	0.00	0.00
7,000.0	8.46	67.07	6,940.0	278.9	711.6	275.9	0.00	0.00	0.00
7,100.0	8.46	67.07	7,038.9	284.6	725.2	281.6	0.00	0.00	0.00
7,200.0	8.46	67.07	7,137.8	290.3	738.8	287.2	0.00	0.00	0.00
7,300.0	8.46	67.07	7,236.7	296.1	752.3	292.9	0.00	0.00	0.00
7,400.0	8.46	67.07	7,335.6	301.8	765.9	298.6	0.00	0.00	0.00
7,500.0	8.46	67.07	7,434.5	307.5	779.4	304.3	0.00	0.00	0.00
7,600.0	8.46	67.07	7,533.4	313.3	793.0	309.9	0.00	0.00	0.00
7,700.0	8.46	67.07	7,632.3	319.0	806.5	315.6	0.00	0.00	0.00
7,800.0	8.46	67.07	7,731.2	324.7	820.1	321.3	0.00	0.00	0.00
7,900.0	8.46	67.07	7,830.2	330.5	833.6	327.0	0.00	0.00	0.00
8,000.0	8.46	67.07	7,929.1	336.2	847.2	332.7	0.00	0.00	0.00
8,100.0	8.46	67.07	8,028.0	341.9	860.7	338.3	0.00	0.00	0.00
8,200.0	8.46	67.07	8,126.9	347.7	874.3	344.0	0.00	0.00	0.00
8,300.0	8.46	67.07	8,225.8	353.4	887.8	349.7	0.00	0.00	0.00
8,400.0	8.46	67.07	8,324.7	359.1	901.4	355.4	0.00	0.00	0.00
8,500.0	8.46	67.07	8,423.6	364.9	915.0	361.0	0.00	0.00	0.00
8,600.0	8.46	67.07	8,522.5	370.6	928.5	366.7	0.00	0.00	0.00
8,700.0	8.46	67.07	8,621.4	376.3	942.1	372.4	0.00	0.00	0.00
8,800.0	8.46	67.07	8,720.4	382.1	955.6	378.1	0.00	0.00	0.00
8,900.0	8.46	67.07	8,819.3	387.8	969.2	383.7	0.00	0.00	0.00
9,000.0	8.46	67.07	8,918.2	393.5	982.7	389.4	0.00	0.00	0.00
9,100.0	8.46	67.07	9,017.1	399.3	996.3	395.1	0.00	0.00	0.00
9,200.0	8.46	67.07	9,116.0	405.0	1,009.8	400.8	0.00	0.00	0.00
9,300.0	8.46	67.07	9,214.9	410.7	1,023.4	406.4	0.00	0.00	0.00
9,400.0	8.46	67.07	9,313.8	416.5	1,036.9	412.1	0.00	0.00	0.00
9,500.0	8.46	67.07	9,412.7	422.2	1,050.5	417.8	0.00	0.00	0.00
9,600.0	8.46	67.07	9,511.6	427.9	1,064.0	423.5	0.00	0.00	0.00
9,700.0	8.46	67.07	9,610.6	433.7	1,077.6	429.1	0.00	0.00	0.00
9,800.0	8.46	67.07	9,709.5	439.4	1,091.2	434.8	0.00	0.00	0.00
9,900.0	8.46	67.07	9,808.4	445.1	1,104.7	440.5	0.00	0.00	0.00
10,000.0	8.46	67.07	9,907.3	450.9	1,118.3	446.2	0.00	0.00	0.00
10,100.0	8.46	67.07	10,006.2	456.6	1,131.8	451.9	0.00	0.00	0.00
10,200.0	8.46	67.07	10,105.1	462.3	1,145.4	457.5	0.00	0.00	0.00
10,300.0	8.46	67.07	10,204.0	468.1	1,158.9	463.2	0.00	0.00	0.00

ExxonMobil

Planning Report

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Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

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)
10,335.1	8.46	67.07	10,238.7	470.1	1,163.7	465.2	0.00	0.00	0.00
10,400.0	11.49	42.24	10,302.7	476.7	1,172.4	471.8	8.00	4.66	-38.25
10,500.0	18.16	24.49	10,399.3	498.3	1,185.6	493.3	8.00	6.67	-17.75
10,600.0	25.59	16.41	10,492.1	533.3	1,198.2	528.3	8.00	7.43	-8.08
10,700.0	33.27	11.83	10,579.1	580.9	1,209.9	575.8	8.00	7.68	-4.58
10,800.0	41.07	8.82	10,658.8	640.3	1,220.6	635.2	8.00	7.79	-3.01
10,900.0	48.92	6.63	10,729.4	710.3	1,230.0	705.2	8.00	7.85	-2.19
11,000.0	56.80	4.91	10,789.8	789.6	1,238.0	784.4	8.00	7.88	-1.72
11,100.0	64.70	3.48	10,838.6	876.5	1,244.3	871.3	8.00	7.90	-1.43
11,200.0	72.62	2.22	10,875.0	969.5	1,248.9	964.2	8.00	7.91	-1.26
11,300.0	80.54	1.07	10,898.2	1,066.6	1,251.7	1,061.4	8.00	7.92	-1.15
11,400.0	88.46	359.97	10,907.7	1,166.1	1,252.6	1,160.8	8.00	7.92	-1.10
11,419.4	90.00	359.76	10,908.0	1,185.5	1,252.5	1,180.2	8.00	7.93	-1.09
11,469.4	90.00	359.76	10,908.0	1,235.5	1,252.3	1,230.2	0.00	0.00	0.00
11,500.0	90.00	359.76	10,908.0	1,266.1	1,252.2	1,260.8	0.00	0.00	0.00
11,600.0	90.00	359.76	10,908.0	1,366.1	1,251.7	1,360.8	0.00	0.00	0.00
11,700.0	90.00	359.76	10,908.0	1,466.1	1,251.3	1,460.8	0.00	0.00	0.00
11,800.0	90.00	359.76	10,908.0	1,566.1	1,250.9	1,560.8	0.00	0.00	0.00
11,900.0	90.00	359.76	10,908.0	1,666.1	1,250.5	1,660.8	0.00	0.00	0.00
12,000.0	90.00	359.76	10,908.0	1,766.1	1,250.0	1,760.8	0.00	0.00	0.00
12,100.0	90.00	359.76	10,908.0	1,866.1	1,249.6	1,860.8	0.00	0.00	0.00
12,200.0	90.00	359.76	10,908.0	1,966.1	1,249.2	1,960.8	0.00	0.00	0.00
12,300.0	90.00	359.76	10,908.0	2,066.1	1,248.8	2,060.8	0.00	0.00	0.00
12,400.0	90.00	359.76	10,908.0	2,166.1	1,248.3	2,160.8	0.00	0.00	0.00
12,500.0	90.00	359.76	10,908.0	2,266.1	1,247.9	2,260.8	0.00	0.00	0.00
12,600.0	90.00	359.76	10,908.0	2,366.1	1,247.5	2,360.8	0.00	0.00	0.00
12,700.0	90.00	359.76	10,908.0	2,466.1	1,247.1	2,460.8	0.00	0.00	0.00
12,800.0	90.00	359.76	10,908.0	2,566.1	1,246.6	2,560.8	0.00	0.00	0.00
12,900.0	90.00	359.76	10,908.0	2,666.1	1,246.2	2,660.8	0.00	0.00	0.00
13,000.0	90.00	359.76	10,908.0	2,766.1	1,245.8	2,760.8	0.00	0.00	0.00
13,100.0	90.00	359.76	10,908.0	2,866.1	1,245.4	2,860.8	0.00	0.00	0.00
13,200.0	90.00	359.76	10,908.0	2,966.1	1,244.9	2,960.8	0.00	0.00	0.00
13,300.0	90.00	359.76	10,908.0	3,066.1	1,244.5	3,060.8	0.00	0.00	0.00
13,400.0	90.00	359.76	10,908.0	3,166.1	1,244.1	3,160.8	0.00	0.00	0.00
13,500.0	90.00	359.76	10,908.0	3,266.1	1,243.7	3,260.8	0.00	0.00	0.00
13,600.0	90.00	359.76	10,908.0	3,366.1	1,243.2	3,360.8	0.00	0.00	0.00
13,700.0	90.00	359.76	10,908.0	3,466.1	1,242.8	3,460.8	0.00	0.00	0.00
13,800.0	90.00	359.76	10,908.0	3,566.1	1,242.4	3,560.8	0.00	0.00	0.00
13,900.0	90.00	359.76	10,908.0	3,666.1	1,242.0	3,660.8	0.00	0.00	0.00
14,000.0	90.00	359.76	10,908.0	3,766.1	1,241.5	3,760.8	0.00	0.00	0.00
14,100.0	90.00	359.76	10,908.0	3,866.1	1,241.1	3,860.8	0.00	0.00	0.00
14,200.0	90.00	359.76	10,908.0	3,966.1	1,240.7	3,960.8	0.00	0.00	0.00
14,300.0	90.00	359.76	10,908.0	4,066.1	1,240.3	4,060.8	0.00	0.00	0.00
14,400.0	90.00	359.76	10,908.0	4,166.1	1,239.8	4,160.8	0.00	0.00	0.00
14,500.0	90.00	359.76	10,908.0	4,266.1	1,239.4	4,260.8	0.00	0.00	0.00
14,600.0	90.00	359.76	10,908.0	4,366.1	1,239.0	4,360.8	0.00	0.00	0.00
14,700.0	90.00	359.76	10,908.0	4,466.1	1,238.6	4,460.8	0.00	0.00	0.00
14,800.0	90.00	359.76	10,908.0	4,566.1	1,238.1	4,560.8	0.00	0.00	0.00
14,900.0	90.00	359.76	10,908.0	4,666.1	1,237.7	4,660.8	0.00	0.00	0.00
15,000.0	90.00	359.76	10,908.0	4,766.1	1,237.3	4,760.8	0.00	0.00	0.00
15,100.0	90.00	359.76	10,908.0	4,866.1	1,236.9	4,860.8	0.00	0.00	0.00
15,200.0	90.00	359.76	10,908.0	4,966.1	1,236.4	4,960.8	0.00	0.00	0.00
15,300.0	90.00	359.76	10,908.0	5,066.0	1,236.0	5,060.8	0.00	0.00	0.00
15,400.0	90.00	359.76	10,908.0	5,166.0	1,235.6	5,160.8	0.00	0.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

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)
15,500.0	90.00	359.76	10,908.0	5,266.0	1,235.2	5,260.8	0.00	0.00	0.00
15,600.0	90.00	359.76	10,908.0	5,366.0	1,234.7	5,360.8	0.00	0.00	0.00
15,700.0	90.00	359.76	10,908.0	5,466.0	1,234.3	5,460.8	0.00	0.00	0.00
15,800.0	90.00	359.76	10,908.0	5,566.0	1,233.9	5,560.8	0.00	0.00	0.00
15,900.0	90.00	359.76	10,908.0	5,666.0	1,233.5	5,660.8	0.00	0.00	0.00
16,000.0	90.00	359.76	10,908.0	5,766.0	1,233.0	5,760.8	0.00	0.00	0.00
16,100.0	90.00	359.76	10,908.0	5,866.0	1,232.6	5,860.8	0.00	0.00	0.00
16,200.0	90.00	359.76	10,908.0	5,966.0	1,232.2	5,960.8	0.00	0.00	0.00
16,300.0	90.00	359.76	10,908.0	6,066.0	1,231.8	6,060.8	0.00	0.00	0.00
16,400.0	90.00	359.76	10,908.0	6,166.0	1,231.4	6,160.8	0.00	0.00	0.00
16,500.0	90.00	359.76	10,908.0	6,266.0	1,230.9	6,260.8	0.00	0.00	0.00
16,600.0	90.00	359.76	10,908.0	6,366.0	1,230.5	6,360.8	0.00	0.00	0.00
16,700.0	90.00	359.76	10,908.0	6,466.0	1,230.1	6,460.8	0.00	0.00	0.00
16,800.0	90.00	359.76	10,908.0	6,566.0	1,229.7	6,560.8	0.00	0.00	0.00
16,900.0	90.00	359.76	10,908.0	6,666.0	1,229.2	6,660.8	0.00	0.00	0.00
17,000.0	90.00	359.76	10,908.0	6,766.0	1,228.8	6,760.8	0.00	0.00	0.00
17,100.0	90.00	359.76	10,908.0	6,866.0	1,228.4	6,860.8	0.00	0.00	0.00
17,200.0	90.00	359.76	10,908.0	6,966.0	1,228.0	6,960.8	0.00	0.00	0.00
17,300.0	90.00	359.76	10,908.0	7,066.0	1,227.5	7,060.8	0.00	0.00	0.00
17,400.0	90.00	359.76	10,908.0	7,166.0	1,227.1	7,160.8	0.00	0.00	0.00
17,500.0	90.00	359.76	10,908.0	7,266.0	1,226.7	7,260.8	0.00	0.00	0.00
17,600.0	90.00	359.76	10,908.0	7,366.0	1,226.3	7,360.8	0.00	0.00	0.00
17,700.0	90.00	359.76	10,908.0	7,466.0	1,225.8	7,460.8	0.00	0.00	0.00
17,800.0	90.00	359.76	10,908.0	7,566.0	1,225.4	7,560.8	0.00	0.00	0.00
17,900.0	90.00	359.76	10,908.0	7,666.0	1,225.0	7,660.8	0.00	0.00	0.00
18,000.0	90.00	359.76	10,908.0	7,766.0	1,224.6	7,760.8	0.00	0.00	0.00
18,100.0	90.00	359.76	10,908.0	7,866.0	1,224.1	7,860.8	0.00	0.00	0.00
18,200.0	90.00	359.76	10,908.0	7,966.0	1,223.7	7,960.8	0.00	0.00	0.00
18,300.0	90.00	359.76	10,908.0	8,066.0	1,223.3	8,060.8	0.00	0.00	0.00
18,400.0	90.00	359.76	10,908.0	8,166.0	1,222.9	8,160.8	0.00	0.00	0.00
18,500.0	90.00	359.76	10,908.0	8,266.0	1,222.4	8,260.8	0.00	0.00	0.00
18,600.0	90.00	359.76	10,908.0	8,366.0	1,222.0	8,360.8	0.00	0.00	0.00
18,700.0	90.00	359.76	10,908.0	8,466.0	1,221.6	8,460.8	0.00	0.00	0.00
18,800.0	90.00	359.76	10,908.0	8,566.0	1,221.2	8,560.8	0.00	0.00	0.00
18,900.0	90.00	359.76	10,908.0	8,666.0	1,220.7	8,660.8	0.00	0.00	0.00
19,000.0	90.00	359.76	10,908.0	8,766.0	1,220.3	8,760.8	0.00	0.00	0.00
19,100.0	90.00	359.76	10,908.0	8,866.0	1,219.9	8,860.8	0.00	0.00	0.00
19,200.0	90.00	359.76	10,908.0	8,966.0	1,219.5	8,960.8	0.00	0.00	0.00
19,300.0	90.00	359.76	10,908.0	9,066.0	1,219.0	9,060.8	0.00	0.00	0.00
19,400.0	90.00	359.76	10,908.0	9,166.0	1,218.6	9,160.8	0.00	0.00	0.00
19,500.0	90.00	359.76	10,908.0	9,266.0	1,218.2	9,260.8	0.00	0.00	0.00
19,600.0	90.00	359.76	10,908.0	9,366.0	1,217.8	9,360.8	0.00	0.00	0.00
19,700.0	90.00	359.76	10,908.0	9,466.0	1,217.3	9,460.8	0.00	0.00	0.00
19,800.0	90.00	359.76	10,908.0	9,566.0	1,216.9	9,560.8	0.00	0.00	0.00
19,900.0	90.00	359.76	10,908.0	9,666.0	1,216.5	9,660.8	0.00	0.00	0.00
20,000.0	90.00	359.76	10,908.0	9,766.0	1,216.1	9,760.8	0.00	0.00	0.00
20,100.0	90.00	359.76	10,908.0	9,866.0	1,215.6	9,860.8	0.00	0.00	0.00
20,200.0	90.00	359.76	10,908.0	9,966.0	1,215.2	9,960.8	0.00	0.00	0.00
20,300.0	90.00	359.76	10,908.0	10,066.0	1,214.8	10,060.8	0.00	0.00	0.00
20,400.0	90.00	359.76	10,908.0	10,166.0	1,214.4	10,160.8	0.00	0.00	0.00
20,500.0	90.00	359.76	10,908.0	10,266.0	1,213.9	10,260.8	0.00	0.00	0.00
20,600.0	90.00	359.76	10,908.0	10,366.0	1,213.5	10,360.8	0.00	0.00	0.00
20,700.0	90.00	359.76	10,908.0	10,466.0	1,213.1	10,460.8	0.00	0.00	0.00
20,800.0	90.00	359.76	10,908.0	10,566.0	1,212.7	10,560.8	0.00	0.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

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)	
20,900.0	90.00	359.76	10,908.0	10,666.0	1,212.2	10,660.8	0.00	0.00	0.00	
21,000.0	90.00	359.76	10,908.0	10,766.0	1,211.8	10,760.8	0.00	0.00	0.00	
21,100.0	90.00	359.76	10,908.0	10,866.0	1,211.4	10,860.8	0.00	0.00	0.00	
21,200.0	90.00	359.76	10,908.0	10,966.0	1,211.0	10,960.8	0.00	0.00	0.00	
21,300.0	90.00	359.76	10,908.0	11,066.0	1,210.5	11,060.8	0.00	0.00	0.00	
21,400.0	90.00	359.76	10,908.0	11,166.0	1,210.1	11,160.8	0.00	0.00	0.00	
21,500.0	90.00	359.76	10,908.0	11,266.0	1,209.7	11,260.8	0.00	0.00	0.00	
21,600.0	90.00	359.76	10,908.0	11,366.0	1,209.3	11,360.8	0.00	0.00	0.00	
21,700.0	90.00	359.76	10,908.0	11,466.0	1,208.8	11,460.8	0.00	0.00	0.00	
21,800.0	90.00	359.76	10,908.0	11,566.0	1,208.4	11,560.8	0.00	0.00	0.00	
21,900.0	90.00	359.76	10,908.0	11,666.0	1,208.0	11,660.8	0.00	0.00	0.00	
22,000.0	90.00	359.76	10,908.0	11,766.0	1,207.6	11,760.8	0.00	0.00	0.00	
22,100.0	90.00	359.76	10,908.0	11,866.0	1,207.1	11,860.8	0.00	0.00	0.00	
22,200.0	90.00	359.76	10,908.0	11,966.0	1,206.7	11,960.8	0.00	0.00	0.00	
22,300.0	90.00	359.76	10,908.0	12,066.0	1,206.3	12,060.8	0.00	0.00	0.00	
22,400.0	90.00	359.76	10,908.0	12,166.0	1,205.9	12,160.8	0.00	0.00	0.00	
22,500.0	90.00	359.76	10,908.0	12,266.0	1,205.4	12,260.8	0.00	0.00	0.00	
22,600.0	90.00	359.76	10,908.0	12,366.0	1,205.0	12,360.8	0.00	0.00	0.00	
22,700.0	90.00	359.76	10,908.0	12,466.0	1,204.6	12,460.8	0.00	0.00	0.00	
22,800.0	90.00	359.76	10,908.0	12,566.0	1,204.2	12,560.8	0.00	0.00	0.00	
22,900.0	90.00	359.76	10,908.0	12,666.0	1,203.7	12,660.8	0.00	0.00	0.00	
23,000.0	90.00	359.76	10,908.0	12,766.0	1,203.3	12,760.8	0.00	0.00	0.00	
23,100.0	90.00	359.76	10,908.0	12,866.0	1,202.9	12,860.8	0.00	0.00	0.00	
23,200.0	90.00	359.76	10,908.0	12,966.0	1,202.5	12,960.8	0.00	0.00	0.00	
23,300.0	90.00	359.76	10,908.0	13,066.0	1,202.0	13,060.8	0.00	0.00	0.00	
23,400.0	90.00	359.76	10,908.0	13,166.0	1,201.6	13,160.8	0.00	0.00	0.00	
23,500.0	90.00	359.76	10,908.0	13,266.0	1,201.2	13,260.8	0.00	0.00	0.00	
23,600.0	90.00	359.76	10,908.0	13,366.0	1,200.8	13,360.8	0.00	0.00	0.00	
23,700.0	90.00	359.76	10,908.0	13,466.0	1,200.3	13,460.8	0.00	0.00	0.00	
23,800.0	90.00	359.76	10,908.0	13,566.0	1,199.9	13,560.8	0.00	0.00	0.00	
23,900.0	90.00	359.76	10,908.0	13,666.0	1,199.5	13,660.8	0.00	0.00	0.00	
24,000.0	90.00	359.76	10,908.0	13,766.0	1,199.1	13,760.8	0.00	0.00	0.00	
24,100.0	90.00	359.76	10,908.0	13,866.0	1,198.6	13,860.8	0.00	0.00	0.00	
24,200.0	90.00	359.76	10,908.0	13,966.0	1,198.2	13,960.8	0.00	0.00	0.00	
24,300.0	90.00	359.76	10,908.0	14,066.0	1,197.8	14,060.8	0.00	0.00	0.00	
24,400.0	90.00	359.76	10,908.0	14,166.0	1,197.4	14,160.8	0.00	0.00	0.00	
24,500.0	90.00	359.76	10,908.0	14,266.0	1,196.9	14,260.8	0.00	0.00	0.00	
24,600.0	90.00	359.76	10,908.0	14,366.0	1,196.5	14,360.8	0.00	0.00	0.00	
24,700.0	90.00	359.76	10,908.0	14,466.0	1,196.1	14,460.8	0.00	0.00	0.00	
24,800.0	90.00	359.76	10,908.0	14,566.0	1,195.7	14,560.8	0.00	0.00	0.00	
24,900.0	90.00	359.76	10,908.0	14,666.0	1,195.2	14,660.8	0.00	0.00	0.00	
25,000.0	90.00	359.76	10,908.0	14,766.0	1,194.8	14,760.8	0.00	0.00	0.00	
25,100.0	90.00	359.76	10,908.0	14,866.0	1,194.4	14,860.8	0.00	0.00	0.00	
25,200.0	90.00	359.76	10,908.0	14,966.0	1,194.0	14,960.8	0.00	0.00	0.00	
25,300.0	90.00	359.76	10,908.0	15,066.0	1,193.5	15,060.8	0.00	0.00	0.00	
25,400.0	90.00	359.76	10,908.0	15,166.0	1,193.1	15,160.8	0.00	0.00	0.00	
25,500.0	90.00	359.76	10,908.0	15,266.0	1,192.7	15,260.8	0.00	0.00	0.00	
25,600.0	90.00	359.76	10,908.0	15,366.0	1,192.3	15,360.8	0.00	0.00	0.00	
25,700.0	90.00	359.76	10,908.0	15,466.0	1,191.8	15,460.8	0.00	0.00	0.00	
25,800.0	90.00	359.76	10,908.0	15,566.0	1,191.4	15,560.8	0.00	0.00	0.00	
25,900.0	90.00	359.76	10,908.0	15,666.0	1,191.0	15,660.8	0.00	0.00	0.00	
26,000.0	90.00	359.76	10,908.0	15,766.0	1,190.6	15,760.8	0.00	0.00	0.00	
26,100.0	90.00	359.76	10,908.0	15,866.0	1,190.1	15,860.8	0.00	0.00	0.00	
26,200.0	90.00	359.76	10,908.0	15,966.0	1,189.7	15,960.8	0.00	0.00	0.00	

ExxonMobil

Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

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)
26,300.0	90.00	359.76	10,908.0	16,065.9	1,189.3	16,060.8	0.00	0.00	0.00
26,400.0	90.00	359.76	10,908.0	16,165.9	1,188.9	16,160.8	0.00	0.00	0.00
26,500.0	90.00	359.76	10,908.0	16,265.9	1,188.4	16,260.8	0.00	0.00	0.00
26,600.0	90.00	359.76	10,908.0	16,365.9	1,188.0	16,360.8	0.00	0.00	0.00
26,700.0	90.00	359.76	10,908.0	16,465.9	1,187.6	16,460.8	0.00	0.00	0.00
26,800.0	90.00	359.76	10,908.0	16,565.9	1,187.2	16,560.8	0.00	0.00	0.00
26,900.0	90.00	359.76	10,908.0	16,665.9	1,186.7	16,660.8	0.00	0.00	0.00
27,000.0	90.00	359.76	10,908.0	16,765.9	1,186.3	16,760.8	0.00	0.00	0.00
27,100.0	90.00	359.76	10,908.0	16,865.9	1,185.9	16,860.8	0.00	0.00	0.00
27,200.0	90.00	359.76	10,908.0	16,965.9	1,185.5	16,960.8	0.00	0.00	0.00
27,300.0	90.00	359.76	10,908.0	17,065.9	1,185.0	17,060.8	0.00	0.00	0.00
27,400.0	90.00	359.76	10,908.0	17,165.9	1,184.6	17,160.8	0.00	0.00	0.00
27,500.0	90.00	359.76	10,908.0	17,265.9	1,184.2	17,260.8	0.00	0.00	0.00
27,600.0	90.00	359.76	10,908.0	17,365.9	1,183.8	17,360.8	0.00	0.00	0.00
27,700.0	90.00	359.76	10,908.0	17,465.9	1,183.3	17,460.8	0.00	0.00	0.00
27,800.0	90.00	359.76	10,908.0	17,565.9	1,182.9	17,560.8	0.00	0.00	0.00
27,900.0	90.00	359.76	10,908.0	17,665.9	1,182.5	17,660.8	0.00	0.00	0.00
28,000.0	90.00	359.76	10,908.0	17,765.9	1,182.1	17,760.8	0.00	0.00	0.00
28,100.0	90.00	359.76	10,908.0	17,865.9	1,181.6	17,860.8	0.00	0.00	0.00
28,200.0	90.00	359.76	10,908.0	17,965.9	1,181.2	17,960.8	0.00	0.00	0.00
28,300.0	90.00	359.76	10,908.0	18,065.9	1,180.8	18,060.8	0.00	0.00	0.00
28,400.0	90.00	359.76	10,908.0	18,165.9	1,180.4	18,160.8	0.00	0.00	0.00
28,500.0	90.00	359.76	10,908.0	18,265.9	1,179.9	18,260.8	0.00	0.00	0.00
28,600.0	90.00	359.76	10,908.0	18,365.9	1,179.5	18,360.8	0.00	0.00	0.00
28,700.0	90.00	359.76	10,908.0	18,465.9	1,179.1	18,460.8	0.00	0.00	0.00
28,800.0	90.00	359.76	10,908.0	18,565.9	1,178.7	18,560.8	0.00	0.00	0.00
28,900.0	90.00	359.76	10,908.0	18,665.9	1,178.2	18,660.8	0.00	0.00	0.00
29,000.0	90.00	359.76	10,908.0	18,765.9	1,177.8	18,760.8	0.00	0.00	0.00
29,100.0	90.00	359.76	10,908.0	18,865.9	1,177.4	18,860.8	0.00	0.00	0.00
29,200.0	90.00	359.76	10,908.0	18,965.9	1,177.0	18,960.8	0.00	0.00	0.00
29,300.0	90.00	359.76	10,908.0	19,065.9	1,176.5	19,060.8	0.00	0.00	0.00
29,400.0	90.00	359.76	10,908.0	19,165.9	1,176.1	19,160.8	0.00	0.00	0.00
29,500.0	90.00	359.76	10,908.0	19,265.9	1,175.7	19,260.8	0.00	0.00	0.00
29,600.0	90.00	359.76	10,908.0	19,365.9	1,175.3	19,360.8	0.00	0.00	0.00
29,700.0	90.00	359.76	10,908.0	19,465.9	1,174.8	19,460.8	0.00	0.00	0.00
29,800.0	90.00	359.76	10,908.0	19,565.9	1,174.4	19,560.8	0.00	0.00	0.00
29,900.0	90.00	359.76	10,908.0	19,665.9	1,174.0	19,660.8	0.00	0.00	0.00
30,000.0	90.00	359.76	10,908.0	19,765.9	1,173.6	19,760.8	0.00	0.00	0.00
30,100.0	90.00	359.76	10,908.0	19,865.9	1,173.1	19,860.8	0.00	0.00	0.00
30,200.0	90.00	359.76	10,908.0	19,965.9	1,172.7	19,960.8	0.00	0.00	0.00
30,300.0	90.00	359.76	10,908.0	20,065.9	1,172.3	20,060.8	0.00	0.00	0.00
30,400.0	90.00	359.76	10,908.0	20,165.9	1,171.9	20,160.8	0.00	0.00	0.00
30,500.0	90.00	359.76	10,908.0	20,265.9	1,171.4	20,260.8	0.00	0.00	0.00
30,600.0	90.00	359.76	10,908.0	20,365.9	1,171.0	20,360.8	0.00	0.00	0.00
30,700.0	90.00	359.76	10,908.0	20,465.9	1,170.6	20,460.8	0.00	0.00	0.00
30,800.0	90.00	359.76	10,908.0	20,565.9	1,170.2	20,560.8	0.00	0.00	0.00
30,900.0	90.00	359.76	10,908.0	20,665.9	1,169.7	20,660.8	0.00	0.00	0.00
31,000.0	90.00	359.76	10,908.0	20,765.9	1,169.3	20,760.8	0.00	0.00	0.00
31,100.0	90.00	359.76	10,908.0	20,865.9	1,168.9	20,860.8	0.00	0.00	0.00
31,200.0	90.00	359.76	10,908.0	20,965.9	1,168.5	20,960.8	0.00	0.00	0.00
31,300.0	90.00	359.76	10,908.0	21,065.9	1,168.0	21,060.8	0.00	0.00	0.00
31,400.0	90.00	359.76	10,908.0	21,165.9	1,167.6	21,160.8	0.00	0.00	0.00
31,500.0	90.00	359.76	10,908.0	21,265.9	1,167.2	21,260.8	0.00	0.00	0.00
31,600.0	90.00	359.76	10,908.0	21,365.9	1,166.8	21,360.8	0.00	0.00	0.00

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

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)	
31,700.0	90.00	359.76	10,908.0	21,465.9	1,166.3	21,460.8	0.00	0.00	0.00	
31,800.0	90.00	359.76	10,908.0	21,565.9	1,165.9	21,560.8	0.00	0.00	0.00	
31,900.0	90.00	359.76	10,908.0	21,665.9	1,165.5	21,660.8	0.00	0.00	0.00	
32,000.0	90.00	359.76	10,908.0	21,765.9	1,165.1	21,760.8	0.00	0.00	0.00	
32,100.0	90.00	359.76	10,908.0	21,865.9	1,164.6	21,860.8	0.00	0.00	0.00	
32,200.0	90.00	359.76	10,908.0	21,965.9	1,164.2	21,960.8	0.00	0.00	0.00	
32,300.0	90.00	359.76	10,908.0	22,065.9	1,163.8	22,060.8	0.00	0.00	0.00	
32,400.0	90.00	359.76	10,908.0	22,165.9	1,163.4	22,160.8	0.00	0.00	0.00	
32,416.0	90.00	359.76	10,908.0	22,181.9	1,163.3	22,176.8	0.00	0.00	0.00	
32,466.0	90.00	359.76	10,908.0	22,231.9	1,163.1	22,226.8	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										
BHL-177H v2	0.00	359.76	10,908.0	22,231.9	1,163.0	461,648.00	640,907.30	32° 16' 6.112 N	103° 52' 38.839 W	
- plan misses target center by 0.1usft at 32466.0usft MD (10908.0 TVD, 22231.9 N, 1163.1 E)										
- Rectangle (sides W100.0 H20,993.1 D0.0)										
LP Pln 3 177H v2	0.00	0.00	10,908.0	1,185.5	1,252.5	440,601.60	640,996.82	32° 12' 37.832 N	103° 52' 38.837 W	
- plan hits target center										
- Point										
FTP-177H v2	0.00	0.00	10,908.0	1,235.5	1,252.3	440,651.60	640,996.60	32° 12' 38.327 N	103° 52' 38.837 W	
- plan hits target center										
- Point										
LTP-177H v2	0.00	359.76	10,908.0	22,181.9	1,163.3	461,598.00	640,907.60	32° 16' 5.617 N	103° 52' 38.838 W	
- plan hits target center										
- Rectangle (sides W330.0 H20,945.2 D0.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
100.0	100.0	5 1/2"		5-1/2	6

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Planning Report

Database:	LMRKPROD3	Local Co-ordinate Reference:	Well PLU 21 DTD - 177H
Company:	ROC	TVD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Project:	Nabors X12 - Eddy County (NMEZ NAD 27)	MD Reference:	RKB33 @ 3409.0usft (Nabors X12)
Site:	(X12) - PLU 21 DTD - Plans	North Reference:	Grid
Well:	PLU 21 DTD - 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 5		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
709.4	709.0	Rustler				
1,036.9	1,036.0	Top Salt				
3,689.0	3,665.0	Base Salt				
3,910.4	3,884.0	Delaware				
4,798.1	4,762.0	Cherry Canyon				
6,175.1	6,124.0	Brushy Canyon				
7,498.5	7,433.0	Basal Brushy Canyon				
7,759.3	7,691.0	Bone Spring				
7,784.6	7,716.0	Bone Spring Lime Fm				
7,882.7	7,813.0	Avalon Shale				
8,186.0	8,113.0	Avalon Lime				
8,389.2	8,314.0	Lower Avalon Shale				
8,570.1	8,493.0	1st Bone Spring Lime				
8,732.9	8,654.0	1st Bone Spring Ss				
9,114.1	9,031.0	2nd Bone Spring Lime				
9,579.1	9,491.0	2nd Bone Spring Ss				
9,647.9	9,559.0	2nd Bone Spring A Sand				
9,700.4	9,611.0	2nd Bone Spring T/B Carb				
9,817.7	9,727.0	2nd Bone Spring C Sand				
9,882.4	9,791.0	3rd Bone Spring Lm				
10,278.7	10,183.0	3rd Bone Spring Sh				
10,464.1	10,365.0	3rd Bone Spring Sh Base				
10,710.7	10,588.0	3rd Bone Spring Ss				
11,267.0	10,892.0	Red Hills SS				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
851.0	850.4	-20.5	-17.9	Hold 2.98° Inc at 230.70° Azm	
1,165.0	1,164.0	-30.5	-30.2	Begin 2°/100 Turn	
1,728.2	1,725.6	-23.4	-2.9	Hold 8.46° Inc at 67.07° Azm	
10,335.1	10,238.7	470.1	1,163.7	KOP, Begin 8°/100 Build	
11,419.4	10,908.0	1,185.5	1,252.5	LP, Hold 90° Inc at 359.76° Azm	
11,469.4	10,908.0	1,235.5	1,252.3	FTP	
32,416.0	10,908.0	22,181.9	1,163.3	LTP	
32,466.0	10,908.0	22,231.9	1,163.1	TD at 32466	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 505267

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 505267
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	None	9/18/2025