

Well Name: POKER LAKE UNIT 28-21 BS	Well Location: T25S / R31E / SEC 28 / NWNE /	County or Parish/State:
Well Number: 126H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC062140A	Unit or CA Name:	Unit or CA Number: NMNM71016X
US Well Number: 3001553231	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2765074

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/07/2023

Time Sundry Submitted: 02:14

Date proposed operation will begin: 01/05/2024

Procedure Description: Pool Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. POOL: FROM: (98220) Purple Sage; Wolfcamp (gas) TO: (96641) Paduca; Bone Spring FTP: FROM: 2310' FNL & 1590' FEL TO: 2115' FNL & 1435' FEL of Section 28-T25S-R31E PPP1: 2646' FSL & 1446' FEL LTP: FROM: 100' FNL & 1590' FEL TO: 2570' FSL & 1435' FEL of Section 16-T25S-R31E BHL: FROM: 50' FNL & 1590' FEL TO: 2660' FSL & 1435' FEL of Section 16-T25S-R31E HOLE AND CASING SIZES: surface, intermediate and production hole, casing and cement will be downsized based on the attached drilling program. Due to the downsize in these strings, the wellhead configuration has also changed based on the attached drilling program. Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan MBS

NOI Attachments

Procedure Description

Poker_Lake_Unit_28_21_BS_Sundry_Attachments_20231207141306.pdf

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BS

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NWNE /

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Operator: XTO PERMIAN
OPERATING LLC

Conditions of Approval

Additional

Sec_29_25S_31E_NMP_Sundry_2765074_Poker_Lake_Unit_28_21_126H_COAs_20240126102301.pdf

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: CASSIE EVANS

Signed on: DEC 07, 2023 02:13 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 Holiday Hill Road, Bldg 5

City: Midland

State: TX

Phone: (432) 218-3671

Email address: CASSIE.EVANS@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: Approved

Disposition Date: 02/07/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

5. Lease Serial No. NMLC062140A

6. If Indian, Allottee or Tribe Name

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.

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) 683-2277

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 28/T25S/R31E/NMP

7. If Unit of CA/Agreement, Name and/or No. NMNM71016X

8. Well Name and No. POKER LAKE UNIT 28-21 BS/126H

9. API Well No. 3001553231

10. Field and Pool or Exploratory Area WC-025 G-08 S213304D/WOLFCAMP (GAS)

11. 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 recomplete 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 recompletion 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 determined that the site is ready for final inspection.)

Pool Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change.

POOL: FROM: (98220) Purple Sage; Wolfcamp (gas) TO: (96641) Paduca; Bone Spring
FTP: FROM: 2310 FNL & 1590 FEL TO: 2115 FNL & 1435 FEL of Section 28-T25S-R31E
PPP1: 2646 FSL & 1446 FEL
LTP: FROM: 100 FNL & 1590 FEL TO: 2570 FSL & 1435 FEL of Section 16-T25S-R31E
BHL: FROM: 50 FNL & 1590 FEL TO: 2660 FSL & 1435 FEL of Section 16-T25S-R31E

HOLE AND CASING SIZES: surface, intermediate and production hole, casing and cement will be downsized based on the attached drilling program. Due to the downsize in these strings, the wellhead configuration has also changed based on the attached drilling program.
Casing/Cement design per the attached drilling program.
Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) CASSIE EVANS / Ph: (432) 218-3671

Regulatory Analyst

Signature (Electronic Submission)

Date 12/07/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Date 02/07/2024

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

Additional Remarks

Attachments:

C102

Drilling Program

Directional Plan

MBS

Location of Well

0. SHL: NWN / 549 FNL / 1975 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.107049 / LONG: -103.78087 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2310 FNL / 1590 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.102206 / LONG: -103.779671 (TVD: 11861 feet, MD: 12500 feet)

PPP: SWSE / 330 FSL / 1590 FEL / TWSP: 25S / RANGE: 31E / SECTION: 21 / LAT: 32.1104 / LONG: -103.78097 (TVD: 11861 feet, MD: 15200 feet)

BHL: NWN / 50 FNL / 1590 FEL / TWSP: 25S / RANGE: 31E / SECTION: 21 / LAT: 32.122976 / LONG: -103.779548 (TVD: 11861 feet, MD: 20049 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 28-21 BS 126H
LOCATION:	Sec 28-25S-31E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2765075** on 01/26/2024. Any previous COAs not addressed within the updated COAs still apply.*

COA

H₂S	☒ No	☐ Yes		
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-P	☐ WIPP
Cave / Karst	☐ Low	☒ Medium	☐ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☐ Primary Squeeze	☒ Cont. Squeeze	☒ EchoMeter	☐ DV Tool
Special Req	☒ Break Testing	☐ Water Disposal	☐ COM	☒ Unit
Variance	☒ Flex Hose	☒ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☒ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☐ Batch APD / Sundry				

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately 992 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **NOTE: This area has a high dissolution of salt, so the operator may need to make adjustments to their surface set depths to find a competent set point.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead

cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 6936'**

- b. Second stage:

- Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **300 feet** into previous casing string (due to not meeting the 0.422" clearance requirement.) Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system))

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP**)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.

- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
 - b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
 - c. BOPE tests (minimum of 4 hours)
- **Eddy County (API No. / US Well No. contains 30-015-#####)**
Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822
 - **Lea County (API No. / US Well No. contains 30-025-#####)**
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981
1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The

- casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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 30-015-53231	² Pool Code 96641	³ Pool Name Paduca; Bone Spring
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 28-21 BS	⁶ Well Number 126H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,348'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	28	25 S	31 E		549	NORTH	1,975	EAST	EDDY

¹¹ Bottom 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
G	16	25 S	31 E		2,660	SOUTH	1,435	EAST	EDDY

¹² Dedicated Acres 720	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.

LEGEND - SECTION LINE - PROPOSED WELLBORE - NEW MEXICO MINERAL LEASE 330' BUFFER - DEDICATED ACREAGE SEC. 16 T25S R31E GRID AZ = 359°36'33" HORIZ. DIST. = 90.00' BHL 2,660' FSL 1,435' FEL LTP 2,570' FSL 1,435' FEL SEC. 15 T25S R31E GRID AZ = 359°53'27" HORIZ. DIST. = 9.980.42' SEC. 21 T25S R31E STATE NMLC 0061862A 330' SEC. 22 T25S R31E GRID AZ = 161°05'30" HORIZ. DIST. = 1,653.37' PPP #1 2,646' FSL 1,446' FEL SHL 549' FNL 1,975' FEL SEC. 27 T25S R31E NMLC 0062140 NMLC 0062140A NMLC 0062140 NMLC 0063136A SEC. 28 T25S R31E FTP 2,115' FNL 1,435' FEL	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Terra Sebastian</i> 12-4-2023 Signature Date Terra Sebastian Printed Name terra.b.sebastian@exxonmobil.com E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 09-26-2023 Date of Survey KC 2019082865 Signature and Seal of Professional Surveyor: I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. <i>Tim C. Pappas</i> TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209 26 Sept 2023 TIM C. PAPPAS Certificate Number	16 LEGEND - SECTION LINE - PROPOSED WELLBORE - NEW MEXICO MINERAL LEASE 330' BUFFER - DEDICATED ACREAGE SEC. 16 T25S R31E GRID AZ = 359°36'33" HORIZ. DIST. = 90.00' BHL 2,660' FSL 1,435' FEL LTP 2,570' FSL 1,435' FEL SEC. 15 T25S R31E GRID AZ = 359°53'27" HORIZ. DIST. = 9.980.42' SEC. 21 T25S R31E STATE NMLC 0061862A 330' SEC. 22 T25S R31E GRID AZ = 161°05'30" HORIZ. DIST. = 1,653.37' PPP #1 2,646' FSL 1,446' FEL SHL 549' FNL 1,975' FEL SEC. 27 T25S R31E NMLC 0062140 NMLC 0062140A NMLC 0062140 NMLC 0063136A SEC. 28 T25S R31E FTP 2,115' FNL 1,435' FEL
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Instructions:

- 1) Enter all data into table below using the plat, geoprogram, and directional plan
- 2) Enter GeoProg data directly into permit -- surface and intermediate casing/cement calculations a
- 3) If there is not a 3rd bone or Wolfcamp X/Y then hide the row from columns A - M
- 4) Enter Casing Specs on "Casing Design Page" for Burst, Collapse, and Tension

	Field Needs an Input
	Calculated Field
	Pull Down Menu

Input Data		
Well Name	Poker Lake Unit 28-2	
Well Formation and Lateral	2nd Bone Spring Sand	
Date Created	12/6/2023	
	SHL Data	
Section	28	
T	25	S
R	31	E
Northing	549	N
Easting	1975	E
County	Eddy	
Formations		
Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	892'	Water
Top of Salt	1205'	Water
Base of Salt	4040'	Water
Delaware	4255'	Water
Brushy Canyon	6936'	Water/Oil/Gas
Bone Spring	8207'	Water
1st Bone Spring	9034'	Water/Oil/Gas
2nd Bone Spring	9655'	Water/Oil/Gas
Target/Land Curve	10233'	Water/Oil/Gas
BHL	10233'	Water/Oil/Gas
Hole Sizes		
Hole Section	Hole Size	
Surface	12.25	
Intermediate	8.75	
Production Curve	6.75	
Production Lateral	6.75	
Mud Weights		
Surface	8.4	
Intermediate	9.5	
Production	10.5	
Casing Points		
Surface	992'	100' below top of R ~200' above KOP, I 4000' for slimhole c Equals BHL
Intermediate	9847'	
DV Tool &/or Int XO	4000'	
Production	21140'	
Casing		

Hole Section	Name	Size
Surface	9.625 40 J-55 BTC	9.625
Intermediate	7.625 29.7 RY P-110 Flush Joint	7.625
Intermediate	7.625 29.7 HC L-80 Flush Joint	7.625
Production	5.5 20 RY P-110 Semi-Premium	5.5
Production	5.5 20 RY P-110 Semi-Flush	5.5
Directional		
	MD	TVD
KOP	10,047	9,517
Landing Point	11,173	10,233
TD	21,140	10,233
OH Logs		
If Yes, Paste if no, "NO" >	No	Check 8. to see tha
Max Frac Pressure		
10000	psi	
Temps		
Surf Temp	BHT	
85	175	** Calculated off LF

Cas		
Name	OD	Weight
20 169 K-55 BTC	20	169
18.625 87.5 J-55 BTC	18 5/8	87.5
13.375 68 HC L-80 BTC	13 3/8	68
13.375 54.5 J-55 BTC	13 3/8	54.5
9.625 40 J-55 BTC	9 5/8	40
9.625 40 HC L-80 BTC	9 5/8	40
9.625 53.5 HC P-110 BTC	9 5/8	53.5
9.625 40 HC P-110 BTC	9 5/8	40
7.625 29.7 RY P-110 Flush Joint	7 5/8	29.7
7.625 29.7 CY P-110 Flush Joint	7 5/8	29.7
7.625 29.7 HC L-80 Flush Joint	7 5/8	29.7
6 26 P-110 Semi-Flush	6	26
5.5 23 RY P-110 Semi-Flush	5 1/2	23
5.5 23 RY P-110 Semi-Premium	5 1/2	23
5.5 20 RY P-110 Semi-Flush	5 1/2	20
5.5 20 RY P-110 Semi-Premium	5 1/2	20

Open hole logging 1

re based on salt top & bottom.

1 BS 126H	
2 Mile Lateral	
BHL Data	
16	
25	S
31	E
2656	S
1435	E

Match Directional Plan when appropriate



ustler
but ensure casing is set in competent rock per geo
:rossover

	Check Hole sizes on Cement Calcs
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Weight	Grade	Collar
40	J-55	BTC
29.7	RY P-110	Flush Joint
29.7	HC L-80	Flush Joint
20	RY P-110	Semi-Premium
20	RY P-110	Semi-Flush

it it reads correctly

TV D

ing Table					
Grade	Connection	Tube ID	Collapse	Burst	Tension
K-55	BTC	18.376	2,500	3,380	2,689,000
J-55	BTC	17.755	630	2,250	1,329,000
HC L-80	BTC	12.415	2,690	5,020	1,545,000
J-55	BTC	12.615	1,130	2,740	909,000
J-55	BTC	8.835	2,750	3,950	630,000
HC L-80	BTC	8.835	4,230	5,750	916,000
HC P-110	BTC	8.835	9,190	10,900	1,718,000
HC P-110	BTC	8.535	4,230	7,910	1,266,000
RY P-110	Flush Joint	6.875	5,350	9,460	558,000
CY P-110	Flush Joint	6.875	5,350	9,460	960,000
HC L-80	Flush Joint	6.875	5,780	6,880	406,000
P-110	Semi-Flush	5.128	13,570	14,010	838,000
RY P-110	Semi-Flush	4.67	14,540	14,530	707,000
RY P-110	Semi-Premium	4.67	14,540	14,520	729,000
RY P-110	Semi-Flush	4.778	11,100	12,640	641,000
RY P-110	Semi-Premium	4.778	11,100	12,640	641,000

will not be done on this well.

|
K-55
J-55
HCL-80
J-55
J-55
HCL-80
P110 HC
P110 HC
P110 RY -IFJ
P110 CY - IFJ
HCL-80 - IFJ
P-110 - Talon HTQ
P110 RY - Talon HTQ
P110 RY - Freedom HTQ
P110 RY - Talon HTQ
P110 RY - Freedom HTQ

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

XTO Energy Inc.
Poker Lake Unit 28-21 BS 126H
Projected TD: 21139.699' MD / 10233' TVD
SHL: 549' FNL & 1975' FEL , Section 28, T25S, R31E
BHL: 2656' FSL & 1435' FEL , Section 16, T25S, R31E
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
Rustler	892'	Water
Top of Salt	1205'	Water
Base of Salt	4040'	Water
Delaware	4255'	Water
Brushy Canyon	6936'	Water/Oil/Gas
Bone Spring	8207'	Water
1st Bone Spring	9034'	Water/Oil/Gas
2nd Bone Spring	9655'	Water/Oil/Gas
3rd Bone Spring	10299'	Water/Oil/Gas
Target/Land Curve	10233'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 992' (213' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9847' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21139.699 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9547 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 992'	9.625	40	J-55	BTC	New	1.46	6.35	15.88
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.84	2.71	1.91
8.75	4000' – 9847'	7.625	29.7	HC L-80	Flush Joint	New	2.06	2.11	2.34
6.75	0' – 9747'	5.5	20	RY P-110	Semi-Premium	New	1.26	2.09	2.19
6.75	9747' - 21139.699'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.99	2.19

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 11" 10M top flange x 9-5/8" bottom

B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 992'

Lead: 230 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9847'

1st Stage

Optional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 270 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6936

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)

Tail: 780 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6936') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 21139.699'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9547 feet

Tail: 790 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10047 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

XTO 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. XTO 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. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3336 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole

on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53, API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 992'	12.25	FW/Native	8.4-8.9	35-40	NC
992' - 9847'	8.75	FW / Cut Brine / Direct Emulsion	9.5-10	30-32	NC
9847' - 21139.699'	6.75	OBM	10.5-11	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco 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

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. 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 could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5587 psi.

10. Anticipated Starting Date and Duration of Operations

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

	Field Needs an Input	BLM Min. Burst:	1
	Calculated Field	BLM Min. Collapse:	1.125
	Collapse Assumptions	BLM Min. Tension (Dry):	1.3
	Burst Assumptions	BLM Min. Tension (Buoyed):	1.3

Burst Assumes MASP Equation #REF!

Collapse Assumes full evacuation
Burst Assumes MASP Equation (10.5)(0.052)(10233) - (.22)(10233)

Collapse Assumes 1/2 evacuation & FW internal
Fluid Top: 4924 MD/TVD
Burst Assumes MASP Equation (10.5)(0.052)(10233) - (.22)(10233)

Poker Lake Unit 28-21 BS 126H	21,140 ft TD	12/6/2023
9.625 40 L-55 BTC	982 MD/TVD	8.4 ppg mud
Collapse (8.4)(0.052)(992) =	collapse = 2750	Burst = 3950 Tension = 630000
Burst	433 psi	2750/433 = 6.35 SF for collapse
Max exp. surf pressure	2698 psi	3950/2698.078 = 1.46 SF for burst
Tension (992)/40)=	39680 lb	630/39.7 = 15.88 SF for tension

7.625 29.7 RY P-110 Flush Joint	0 Top 4000 Bottom	MD/TVD MD/TVD	9.5 # mud
Collapse	Collapse = 5350	Burst = 9460	Tension = 558000
(9.5)/(0.052)/(4000)=	1976 psi	5350/1976=	SF for collapse
Burst		9460/3335.958=	SF for burst
Max expected surf pressure =	3336 psi		
Tension (4000*29.7)+(5847*29.7)=	292455.9 lb	558/292.4559=	SF for tension

7.625 29.7 HC L-80 Flush Joint	4000 Top 9847 TD	MD/TVD MD/TVD	9.5 # mud
Collapse	Collapse = 5780	Burst = 6880	Tension = 406000
(9.5)/(0.052)(9847) * =	2739 psi	5780/2739=	SF for collapse
*Less internal fluid height			
Burst		6880/3335.958=	SF for burst
Max expected surf pressure =	3336 psi		
Tension (5847)(29.7)=	173655.9 lb	406/173.6559=	SF for tension

5.5 20 RY P-110 Semi-Premium	0 Top 0.35 FF	9.747 TD (MD)	10.5 # mud
Collapse (10.5)(0.052)(9747) =	Collapse =	11100	Burst= 12640 Tension= 641000
Burst	5322 psi	11100/5322=	2.09 SF for collapse
Max expected surf pressure =	10000 psi *for frac	12640/10000=	1.26 SF for burst
Tension (9747*20)+(9747*20)+(11172.882*20)+(9966.817*0.35*20)=	293225 lb	641/293.225359=	2.19 SF for tension
5.5 20 RY P-110 Semi-Flush	9.747 Top 0.35 FF	21.140 TD (MD) 11.173 LP (MD)	10.233 TVD (max) 9966.817 Lat Length
Collapse (10.5)(0.052)(10233) =	Collapse=	11100	Burst= 12640 Tension= 641000
Burst	5587 psi	11100/5587=	1.99 SF for collapse
Max expected surf pressure =	10000 psi *for frac	12640/10000=	1.26 SF for burst
Tension (11172.882*20)+(9966.817*0.35*20)=	293225 lb	641/293.225359=	2.19 SF for tension

Surface Cement		Intermediate, 2nd Stage	
Top of Cement:	0 ft, MD	Top of Cement:	0
Casing Shoe:	992 ft, MD	Bottom of Cement:	6,936
Hole Size:	12.25 in	Hole Size:	8.75
Casing Size:	9.625 in	Casing Size:	7.625
<u>Lead</u>		<u>Lead</u>	
% Excess, OH	100 %	% Excess, OH	100
yield	1.87 ft ³ / sack	yield	2.16
TOC for Lead	0 ft, MD	TOC for Lead	0
<u>Tail</u>		<u>Tail</u>	
% Excess, OH	100 %	% Excess, OH	50
yield	1.35 ft ³ / sack	yield	1.33
TOC for Tail	692 ft, MD	TOC for Tail	0
<u>Lead Calcs</u>		<u>Lead Calcs</u>	
Annular Volume:	433.48 ft ³ (w/ excess)	Annular Volume:	0.00
Cement Volume:	231.8 sacks	Cement Volume:	0.0
<u>Tail Calcs</u>		<u>Tail Calcs</u>	
Annular Volume:	187.92 ft ³ (w/ excess)	Annular Volume:	1045.41
Cement Volume:	139.2 sacks	Cement Volume:	786.0

Field Needs an Input

Calculated Field

	Intermediate, 1st Stage	Production Cemer
ft, MD	Top of Cement: 6936 ft, MD	Top of Cerr
ft, MD	Casing Shoe: 9847 ft, MD	Casing Shc
		Kick Off Po
in	Hole Size: 8.75 in	Landing Po
in	Casing Size: 7.625 in	Hole Size 1
		Hole Size 2
		Casing Siz
		Casing Siz
		XO Depth:
	<u>Lead</u>	<u>Lead</u>
%	% Excess, OH 50 %	% Excess,
ft ³ / sack	yield 2.77 ft ³ / sack	yield
ft, MD	TOC for Lead 0 ft, MD	TOC for Le
	<u>Tail</u>	<u>Tail</u>
%	% Excess, OH 25 %	% Excess,
ft ³ / sack	yield 1.35 ft ³ / sack	yield
ft, MD	TOC for Tail 6,936 ft, MD	TOC for Ta
	<u>Lead Calcs</u>	<u>Lead Calcs</u>
ft ³ (w/ excess)	Annular Volume: 1045.41 ft ³ (w/ excess)	Annular Vo
sacks	Cement Volume: 377.4 sacks	Cement Vo
	<u>Tail Calcs</u>	<u>Tail Calcs</u>
ft ³ (w/ excess)	Annular Volume: 365.63 ft ³ (w/ excess)	Annular Vo
sacks	Cement Volume: 270.8 sacks	Cement Vo

it		
ment:	9547	ft, MD
oe:	21,140	ft, MD
int:	10,047	ft, MD
oint:	11,173	ft, MD
:	6.75	in
2:	6.75	in
e 1:	5.5	in
e 2:	5.5	in
	0	ft, MD
OH	30	%
	2.69	ft ³ / sack
ad	9,547	ft, MD
OH	30	%
	1.51	ft ³ / sack
oil	10,047	ft, MD
:		
lume:	54.29	ft ³ (w/ excess)
lume:	20.2	sacks
lume:	1204.42	ft ³ (w/ excess)
lume:	797.6	sacks

= Calculate

Field Needs an Input

Calculated Field

Permanent System

Prod MW = 10.5 ppg
Max TVD = 10,233 ft

BHP = 5587 psi

MASP = 3336 psi

Permit for = 5M
5000 psi

3M system if MASP < 3000
5M system if 3000 < MASP < 5000
10M system if MASP > 5000

Temporary System (if required)

1st Int MW = #REF! ppg
Max TVD = #REF! ft

BHP = #REF! psi

MASP = #REF! psi

Permit for = #REF!
#REF!

2M system if MASP < 3000
5M system if 2000 < MASP < 5000



Poker Lake Unit 28-21 BS 126H				
2nd Bone Spring Sand 2 Mile Lateral				
County:	Eddy County, NM			
SHL:	SHL: 549' FNL & 1975' FEL , Section 28, T25S, R31E			
BHL:	BHL: 2656' FSL & 1435' FEL , Section 16, T25S, R31E			
Area:				
				
TVD	Geology	Casing & Cement	Wellhead	Hole Size
General Notes				
120'	Conductor		(Tech Data Sheet)	12.3"
892'	Rustler			
		9.625 40 J-55 BTC	992' MD	#REF!
1,205'	Top of Salt			
4,040'	Base of Salt	#REF!	#REF!	
4,255'	Delaware/Lamar			8-3/4"
			Composite DV Tool (If Required)	
6,936'	Brushy Canyon Ss.			
8,207'	Bone Spring			
9,034'	1st Bone Spring Ss.			
		7.625 29.7 RY P-110 Flush Joint 7.625 29.7 HC L-80 Flush Joint	9847' MD	6-3/4" Curve
			KOP 10047' MD 9517' TVD	
9,655'	2nd Bone Spring Ss.			6-3/4" Lateral
		5.5 20 RY P-110 Semi-Premium 5.5 20 RY P-110 Semi-Flush 5.5 20 RY P-110 Semi-Flush	LP 11173' MD 10233' TVD	21,140' MD 10,233' TVD @ BHL
10,233'	Landing TVD			
10,233'	TVD @ BHL			

Formations
1st Bone Spring
1st Bone Spring Sand
2nd Bone Spring
2nd Bone Spring Shale
2nd Bone Spring Sand
3rd Bone Spring
3rd Bone Spring Shale
3rd Bone Spring Sand
Wolfcamp X
Wolfcamp Y
Wolfcamp X/Y
Wolfcamp A
Wolfcamp B
Wolfcamp B/C
Wolfcamp C
Wolfcamp D/E
Wolfcamp D
Wolfcamp E

Lateral Length
1 Mile Lateral
1.5 Mile Lateral
2 Mile Lateral
2.25 Mile Lateral
2.5 Mile Lateral
3 Mile Lateral
3.5 Mile Lateral
4 Mile Lateral

1st Bone Spring
1st Bone Spring
1st Bone Spring
1st Bone Spring
1st Bone Spring
1st Bone Spring
2nd Bone Spring
2nd Bone Spring
2nd Bone Spring
2nd Bone Spring
2nd Bone Spring
2nd Bone Spring
2nd Bone Spring
2nd Bone Spring
3rd Bone Spring
3rd Bone Spring
3rd Bone Spring
3rd Bone Spring
3rd Bone Spring
3rd Bone Spring
3rd Bone Spring Shale
3rd Bone Spring Shale
3rd Bone Spring Shale
3rd Bone Spring Shale
3rd Bone Spring Shale
3rd Bone Spring Shale
3rd Bone Spring Shale
Wolfcamp X
Wolfcamp X
Wolfcamp X
Wolfcamp X
Wolfcamp X
Wolfcamp X
Wolfcamp X
Wolfcamp Y
Wolfcamp Y
Wolfcamp Y
Wolfcamp Y
Wolfcamp Y
Wolfcamp Y
Wolfcamp A
Wolfcamp A
Wolfcamp A
Wolfcamp A
Wolfcamp A
Wolfcamp A

Wolfcamp A
Wolfcamp B
Wolfcamp B
Wolfcamp B
Wolfcamp B
Wolfcamp B
Wolfcamp B
Wolfcamp B
Wolfcamp D/E
Wolfcamp D/E
Wolfcamp D/E
Wolfcamp D/E
Wolfcamp D/E
Wolfcamp D/E
Wolfcamp D/E
1st Bone Spring Sand
1st Bone Spring Sand
1st Bone Spring Sand
1st Bone Spring Sand
1st Bone Spring Sand
1st Bone Spring Sand
1st Bone Spring Sand
2nd Bone Spring Shale
2nd Bone Spring Shale
2nd Bone Spring Shale
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3rd Bone Spring Sand
3rd Bone Spring Sand
3rd Bone Spring Sand
Wolfcamp C
Wolfcamp C
Wolfcamp C
Wolfcamp C
Wolfcamp C
Wolfcamp C
Wolfcamp C
Wolfcamp B/C
Wolfcamp B/C
Wolfcamp B/C
Wolfcamp B/C
Wolfcamp B/C

Wolfcamp B/C
Wolfcamp B/C
Wolfcamp D
Wolfcamp D
Wolfcamp D
Wolfcamp D
Wolfcamp D
Wolfcamp D
Wolfcamp D
Wolfcamp E
Wolfcamp E
Wolfcamp E
Wolfcamp E
Wolfcamp E
Wolfcamp E
Wolfcamp E
Wolfcamp X/Y
Wolfcamp X/Y
Wolfcamp X/Y
Wolfcamp X/Y
Wolfcamp X/Y
Wolfcamp X/Y
Wolfcamp X/Y
1st Bone Spring
2nd Bone Spring
3rd Bone Spring
3rd Bone Spring Shale
Wolfcamp X
Wolfcamp Y
Wolfcamp A
Wolfcamp B
Wolfcamp D/E
1st Bone Spring Sand
2nd Bone Spring Shale
2nd Bone Spring Sand
3rd Bone Spring Sand
Wolfcamp C
Wolfcamp B/C
Wolfcamp D
Wolfcamp E
Wolfcamp X/Y

Target formation and Lateral Length:

2nd Bone Spring Sand 2 Mile Lateral

		Production 1
1 Mile Lateral	1st Bone Spring 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	1st Bone Spring 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	1st Bone Spring 2 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.5 Mile Lateral	1st Bone Spring 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	1st Bone Spring 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	1st Bone Spring 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	1st Bone Spring 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	2nd Bone Spring 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	2nd Bone Spring 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	2nd Bone Spring 2 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.5 Mile Lateral	2nd Bone Spring 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	2nd Bone Spring 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	2nd Bone Spring 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	2nd Bone Spring 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	3rd Bone Spring 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	3rd Bone Spring 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	3rd Bone Spring 2 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.5 Mile Lateral	3rd Bone Spring 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	3rd Bone Spring 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	3rd Bone Spring 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	3rd Bone Spring 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	3rd Bone Spring Shale 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	3rd Bone Spring Shale 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	3rd Bone Spring Shale 2 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.5 Mile Lateral	3rd Bone Spring Shale 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	3rd Bone Spring Shale 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	3rd Bone Spring Shale 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	3rd Bone Spring Shale 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp X 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp X 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp X 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp X 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp X 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp X 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp X 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp Y 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp Y 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp Y 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp Y 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp Y 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp Y 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp Y 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp A 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp A 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp A 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp A 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp A 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp A 3.5 Mile Lateral	6 26 P-110 Semi-Flush

4 Mile Lateral	Wolfcamp A 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp B 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp B 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp B 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp B 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp B 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp B 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp B 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp D/E 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp D/E 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp D/E 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp D/E 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp D/E 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp D/E 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp D/E 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	1st Bone Spring Sand 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	1st Bone Spring Sand 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	1st Bone Spring Sand 2 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.5 Mile Lateral	1st Bone Spring Sand 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	1st Bone Spring Sand 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	1st Bone Spring Sand 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	1st Bone Spring Sand 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	2nd Bone Spring Shale 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	2nd Bone Spring Shale 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	2nd Bone Spring Shale 2 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.5 Mile Lateral	2nd Bone Spring Shale 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	2nd Bone Spring Shale 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	2nd Bone Spring Shale 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	2nd Bone Spring Shale 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	2nd Bone Spring Sand 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	2nd Bone Spring Sand 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	2nd Bone Spring Sand 2 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.5 Mile Lateral	2nd Bone Spring Sand 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	2nd Bone Spring Sand 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	2nd Bone Spring Sand 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	2nd Bone Spring Sand 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	3rd Bone Spring Sand 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	3rd Bone Spring Sand 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	3rd Bone Spring Sand 2 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.5 Mile Lateral	3rd Bone Spring Sand 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	3rd Bone Spring Sand 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	3rd Bone Spring Sand 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	3rd Bone Spring Sand 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp C 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp C 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp C 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp C 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp C 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp C 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp C 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp B/C 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp B/C 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp B/C 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp B/C 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp B/C 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium

3.5 Mile Lateral	Wolfcamp B/C 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp B/C 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp D 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp D 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp D 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp D 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp D 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp D 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp D 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp E 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp E 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp E 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp E 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp E 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp E 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp E 4 Mile Lateral	6 26 P-110 Semi-Flush
1 Mile Lateral	Wolfcamp X/Y 1 Mile Lateral	5.5 20 RY P-110 Semi-Premium
1.5 Mile Lateral	Wolfcamp X/Y 1.5 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2 Mile Lateral	Wolfcamp X/Y 2 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.5 Mile Lateral	Wolfcamp X/Y 2.5 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3 Mile Lateral	Wolfcamp X/Y 3 Mile Lateral	5.5 23 RY P-110 Semi-Premium
3.5 Mile Lateral	Wolfcamp X/Y 3.5 Mile Lateral	6 26 P-110 Semi-Flush
4 Mile Lateral	Wolfcamp X/Y 4 Mile Lateral	6 26 P-110 Semi-Flush
2.25 Mile Lateral	1st Bone Spring 2.25 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.25 Mile Lateral	2nd Bone Spring 2.25 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.25 Mile Lateral	3rd Bone Spring 2.25 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.25 Mile Lateral	3rd Bone Spring Shale 2.25 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp X 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp Y 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp A 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp B 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp D/E 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	1st Bone Spring Sand 2.25 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.25 Mile Lateral	2nd Bone Spring Shale 2.25 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.25 Mile Lateral	2nd Bone Spring Sand 2.25 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.25 Mile Lateral	3rd Bone Spring Sand 2.25 Mile Lateral	5.5 20 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp C 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp B/C 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp D 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp E 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium
2.25 Mile Lateral	Wolfcamp X/Y 2.25 Mile Lateral	5.5 23 RY P-110 Semi-Premium

Production 1	Production 2	Max Frac Pressure
5.5 20 RY P-110 Semi-Premium	5.5 20 RY P-110 Semi-Flush	10000

Production 2	Max Frac Pressure
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000

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6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	10000
5.5 20 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	10000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
6 26 P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	12000
5.5 20 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000
5.5 23 RY P-110 Semi-Flush	12000

Name	OD	Weight
20 169 K-55 BTC	20	169
18.625 87.5 J-55 BTC	18 5/8	87.5
13.375 68 HC L-80 BTC	13 3/8	68
13.375 54.5 J-55 BTC	13 3/8	54.5
9.625 40 J-55 BTC	9 5/8	40
9.625 40 HC L-80 BTC	9 5/8	40
9.625 53.5 HC P110 BTC	9 5/8	53.5
9.625 40 HC P110 BTC	9 5/8	40
7.625 29.7 P110 RY -IFJ Flush Joint	7 5/8	29.7
7.625 29.7 P110 CY - IFJ Flush Joint	7 5/8	29.7
7.625 29.7 HCL-80 - IFJ Flush Joint	7 5/8	29.7
6 26 P-110 - Talon HTQ Semi-Flush	6	26
5.5 23 P110 RY - Talon HTQ Semi-Flush	5 1/2	23
5.5 23 P110 RY - VAM SPRINT Semi-Flush	5 1/2	23
5.5 23 P110 RY - Freedom HTQ Semi-Flush	5 1/2	23
5.5 20 P110 RY - Talon HTQ Semi-Flush	5 1/2	20
5.5 20 P110 RY - Freedom HTQ Semi-Flush	5 1/2	20

Casing Table					
t	Grade	Connection	Tube ID	Collapse	Burst
	K-55	BTC	18.376	2,500	3,380
	J-55	BTC	17.755	630	2,250
	HC L-80	BTC	12.415	2,690	5,020
	J-55	BTC	12.615	1,130	2,740
	J-55	BTC	8.835	2,750	3,950
	HC L-80	BTC	8.835	4,230	5,750
	HC P110	BTC	8.835	9,190	10,900
	HC P110	BTC	8.535	4,230	7,910
	P110 RY -IFJ	Flush Joint	6.875	5,350	9,460
	P110 CY - IFJ	Flush Joint	6.875	5,350	9,460
	HCL-80 - IFJ	Flush Joint	6.875	5,780	6,880
	P-110 - Talon HTQ	Semi-Flush	5.128	13,570	14,010
	P110 RY - Talon HTQ	Semi-Flush	4.67	14,540	14,530
	P110 RY - VAM SPRINT	Semi-Flush	4.67	14,550	14,530
	P110 RY - Freedom HTQ	Semi-Premium	4.67	14,540	14,520
	P110 RY - Talon HTQ	Semi-Flush	4.778	11,100	12,640
	P110 RY - Freedom HTQ	Semi-Premium	4.778	11,100	12,640

	Tension
	2,689,000
	1,329,000
	1,545,000
	909,000
	630,000
	916,000
	1,718,000
	1,266,000
	558,000
	960,000
	406,000
	838,000
	707,000
	671,000
	729,000
	641,000
	641,000

Well Plan Report - Poker Lake Unit 28-21 BS 126H

Measured Depth: 21139.70 ft
TVD RKB: 10233.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 403061.20 ft
Easting: 671210.90 ft
RKB: 3380.00 ft
Ground Level: 3348.00 ft
North Reference: Grid
Convergence Angle: 0.29 Deg

Plan Sections											
Poker Lake Unit 28-21 BS 126H											
Measured			TVD			Build			Turn		
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Rate	Rate	Dogleg
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2513.18	28.26	166.75	2456.56	-332.45	78.29	2.00	0.00	0.00	0.00	0.00	2.00
6017.90	28.26	166.75	5543.44	-1947.85	458.72	0.00	0.00	0.00	0.00	0.00	0.00
7431.08	0.00	0.00	6900.00	-2280.30	537.02	-2.00	0.00	0.00	0.00	0.00	2.00
10047.88	0.00	0.00	9516.80	-2280.30	537.02	0.00	0.00	0.00	0.00	0.00	0.00
11172.88	90.00	359.89	10233.00	-1564.10	535.70	8.00	0.00	0.00	0.00	0.00	8.00
21139.70	90.00	359.89	10233.00	8402.70	517.40	0.00	0.00	0.00	0.00	0.00	0.00
FTP 3											
LTP 3											

Position Uncertainty											
Poker Lake Unit 28-21 BS 126H											
Measured			TVD			Lateral			Vertical		
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Magnitude	Semi-major	Semi-minor
									of Bias	Error	Azimuth
											Used

0.000	0.000	0.000	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	XOM_R2OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.000	166.748	1199.980	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	89.994	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	166.748	1299.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	89.930	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	166.748	1399.452	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	89.896	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	166.748	1498.702	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	89.959	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.000	166.748	1597.465	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	90.180	XOM_R2OWSG MWD+IFR1+MS
1700.000	12.000	166.748	1695.623	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	90.631	XOM_R2OWSG MWD+IFR1+MS
1800.000	14.000	166.748	1793.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	91.416	XOM_R2OWSG MWD+IFR1+MS
1900.000	16.000	166.748	1889.643	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	92.714	XOM_R2OWSG

11/14/23, 4:12 PM

Well Plan Report														
													MWD+IFR1+MS	
2000.000	18.000	166.748	1985.268	6.805	0.000	6.880	-0.000	3.200	0.000	0.000	7.015	6.865	94.860	XOM_R2OWSG MWD+IFR1+MS
2100.000	20.000	166.748	2079.816	7.117	0.000	7.261	-0.000	3.283	0.000	0.000	7.372	7.243	98.565	XOM_R2OWSG MWD+IFR1+MS
2200.000	22.000	166.748	2173.169	7.429	0.000	7.653	-0.000	3.374	0.000	0.000	7.734	7.629	105.402	XOM_R2OWSG MWD+IFR1+MS
2300.000	24.000	166.748	2265.215	7.742	0.000	8.057	-0.000	3.475	0.000	0.000	8.107	8.018	118.135	XOM_R2OWSG MWD+IFR1+MS
2400.000	26.000	166.748	2355.841	8.057	0.000	8.475	-0.000	3.589	0.000	0.000	8.501	8.403	-44.581	XOM_R2OWSG MWD+IFR1+MS
2500.000	28.000	166.748	2444.937	8.373	0.000	8.906	-0.000	3.717	0.000	0.000	8.920	8.777	-31.871	XOM_R2OWSG MWD+IFR1+MS
2513.182	28.264	166.748	2456.561	8.415	0.000	8.963	-0.000	3.727	0.000	0.000	8.977	8.830	-31.196	XOM_R2OWSG MWD+IFR1+MS
2600.000	28.264	166.748	2533.029	8.774	0.000	9.348	-0.000	3.867	0.000	0.000	9.357	9.146	-25.103	XOM_R2OWSG MWD+IFR1+MS
2700.000	28.264	166.748	2621.107	9.194	0.000	9.801	-0.000	4.038	0.000	0.000	9.807	9.514	-21.424	XOM_R2OWSG MWD+IFR1+MS
2800.000	28.264	166.748	2709.185	9.622	0.000	10.262	-0.000	4.218	0.000	0.000	10.266	9.885	-19.327	XOM_R2OWSG MWD+IFR1+MS
2900.000	28.264	166.748	2797.263	10.054	0.000	10.729	-0.000	4.405	0.000	0.000	10.732	10.262	-17.984	XOM_R2OWSG MWD+IFR1+MS
3000.000	28.264	166.748	2885.340	10.492	0.000	11.203	-0.000	4.598	0.000	0.000	11.205	10.642	-17.054	XOM_R2OWSG MWD+IFR1+MS
3100.000	28.264	166.748	2973.418	10.935	0.000	11.681	-0.000	4.797	0.000	0.000	11.683	11.027	-16.372	XOM_R2OWSG MWD+IFR1+MS
3200.000	28.264	166.748	3061.496	11.381	0.000	12.165	-0.000	5.000	0.000	0.000	12.166	11.415	-15.851	XOM_R2OWSG MWD+IFR1+MS
3300.000	28.264	166.748	3149.574	11.831	0.000	12.652	-0.000	5.208	0.000	0.000	12.653	11.806	-15.440	XOM_R2OWSG MWD+IFR1+MS
3400.000	28.264	166.748	3237.652	12.284	0.000	13.143	-0.000	5.420	0.000	0.000	13.144	12.200	-15.108	XOM_R2OWSG MWD+IFR1+MS
3500.000	28.264	166.748	3325.729	12.740	0.000	13.637	-0.000	5.636	0.000	0.000	13.638	12.597	-14.834	XOM_R2OWSG MWD+IFR1+MS
3600.000	28.264	166.748	3413.807	13.198	0.000	14.135	-0.000	5.855	0.000	0.000	14.135	12.997	-14.603	XOM_R2OWSG MWD+IFR1+MS
3700.000	28.264	166.748	3501.885	13.659	0.000	14.634	-0.000	6.076	0.000	0.000	14.635	13.399	-14.407	XOM_R2OWSG MWD+IFR1+MS
3800.000	28.264	166.748	3589.963	14.122	0.000	15.136	-0.000	6.301	0.000	0.000	15.137	13.803	-14.238	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:12 PM

Well Plan Report														
3900.000	28.264	166.748	3678.041	14.586	0.000	15.641	-0.000	6.527	0.000	0.000	15.641	14.209	-14.091	XOM_R2OWSG MWD+IFR1+MS
4000.000	28.264	166.748	3766.118	15.052	0.000	16.147	-0.000	6.756	0.000	0.000	16.147	14.616	-13.961	XOM_R2OWSG MWD+IFR1+MS
4100.000	28.264	166.748	3854.196	15.520	0.000	16.655	-0.000	6.987	0.000	0.000	16.655	15.026	-13.846	XOM_R2OWSG MWD+IFR1+MS
4200.000	28.264	166.748	3942.274	15.989	0.000	17.164	-0.000	7.220	0.000	0.000	17.164	15.436	-13.744	XOM_R2OWSG MWD+IFR1+MS
4300.000	28.264	166.748	4030.352	16.459	0.000	17.675	-0.000	7.455	0.000	0.000	17.675	15.849	-13.652	XOM_R2OWSG MWD+IFR1+MS
4400.000	28.264	166.748	4118.430	16.931	0.000	18.187	-0.000	7.691	0.000	0.000	18.187	16.262	-13.569	XOM_R2OWSG MWD+IFR1+MS
4500.000	28.264	166.748	4206.507	17.403	0.000	18.701	-0.000	7.929	0.000	0.000	18.701	16.677	-13.493	XOM_R2OWSG MWD+IFR1+MS
4600.000	28.264	166.748	4294.585	17.877	0.000	19.215	-0.000	8.169	0.000	0.000	19.216	17.093	-13.425	XOM_R2OWSG MWD+IFR1+MS
4700.000	28.264	166.748	4382.663	18.351	0.000	19.731	-0.000	8.410	0.000	0.000	19.731	17.509	-13.362	XOM_R2OWSG MWD+IFR1+MS
4800.000	28.264	166.748	4470.741	18.826	0.000	20.248	-0.000	8.652	0.000	0.000	20.248	17.927	-13.304	XOM_R2OWSG MWD+IFR1+MS
4900.000	28.264	166.748	4558.819	19.302	0.000	20.765	-0.000	8.896	0.000	0.000	20.765	18.346	-13.250	XOM_R2OWSG MWD+IFR1+MS
5000.000	28.264	166.748	4646.896	19.779	0.000	21.284	-0.000	9.141	0.000	0.000	21.284	18.766	-13.201	XOM_R2OWSG MWD+IFR1+MS
5100.000	28.264	166.748	4734.974	20.257	0.000	21.803	-0.000	9.387	0.000	0.000	21.803	19.186	-13.155	XOM_R2OWSG MWD+IFR1+MS
5200.000	28.264	166.748	4823.052	20.735	0.000	22.322	-0.000	9.634	0.000	0.000	22.322	19.608	-13.112	XOM_R2OWSG MWD+IFR1+MS
5300.000	28.264	166.748	4911.130	21.213	0.000	22.843	-0.000	9.882	0.000	0.000	22.843	20.030	-13.073	XOM_R2OWSG MWD+IFR1+MS
5400.000	28.264	166.748	4999.208	21.692	0.000	23.364	-0.000	10.132	0.000	0.000	23.364	20.452	-13.035	XOM_R2OWSG MWD+IFR1+MS
5500.000	28.264	166.748	5087.286	22.172	0.000	23.885	-0.000	10.383	0.000	0.000	23.886	20.876	-13.000	XOM_R2OWSG MWD+IFR1+MS
5600.000	28.264	166.748	5175.363	22.652	0.000	24.408	-0.000	10.634	0.000	0.000	24.408	21.300	-12.967	XOM_R2OWSG MWD+IFR1+MS
5700.000	28.264	166.748	5263.441	23.133	0.000	24.930	-0.000	10.887	0.000	0.000	24.930	21.725	-12.937	XOM_R2OWSG MWD+IFR1+MS
5800.000	28.264	166.748	5351.519	23.614	0.000	25.453	-0.000	11.141	0.000	0.000	25.454	22.150	-12.907	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:12 PM

Well Plan Report													
5900.000	28.264	166.748	5439.597	24.095	0.000	25.977	-0.000	11.396	0.000	0.000	25.977	22.576	XOM_R2OWSG MWD+IFR1+MS
6000.000	28.264	166.748	5527.675	24.577	0.000	26.501	-0.000	11.652	0.000	0.000	26.501	23.002	XOM_R2OWSG MWD+IFR1+MS
6017.898	28.264	166.748	5543.439	24.663	0.000	26.595	-0.000	11.698	0.000	0.000	26.595	23.078	XOM_R2OWSG MWD+IFR1+MS
6100.000	26.622	166.748	5616.299	25.111	0.000	27.020	-0.000	11.906	0.000	0.000	27.020	23.427	XOM_R2OWSG MWD+IFR1+MS
6200.000	24.622	166.748	5706.462	25.621	0.000	27.525	-0.000	12.148	0.000	0.000	27.525	23.848	XOM_R2OWSG MWD+IFR1+MS
6300.000	22.622	166.748	5798.078	26.090	0.000	28.014	-0.000	12.375	0.000	0.000	28.014	24.265	XOM_R2OWSG MWD+IFR1+MS
6400.000	20.622	166.748	5891.037	26.517	0.000	28.486	-0.000	12.588	0.000	0.000	28.487	24.676	XOM_R2OWSG MWD+IFR1+MS
6500.000	18.622	166.748	5985.226	26.902	0.000	28.942	-0.000	12.786	0.000	0.000	28.943	25.081	XOM_R2OWSG MWD+IFR1+MS
6600.000	16.622	166.748	6080.529	27.242	0.000	29.381	-0.000	12.970	0.000	0.000	29.381	25.479	XOM_R2OWSG MWD+IFR1+MS
6700.000	14.622	166.748	6176.830	27.539	0.000	29.803	-0.000	13.141	0.000	0.000	29.803	25.866	XOM_R2OWSG MWD+IFR1+MS
6800.000	12.622	166.748	6274.012	27.790	0.000	30.206	-0.000	13.301	0.000	0.000	30.206	26.244	XOM_R2OWSG MWD+IFR1+MS
6900.000	10.622	166.748	6371.957	27.997	0.000	30.592	-0.000	13.449	0.000	0.000	30.592	26.610	XOM_R2OWSG MWD+IFR1+MS
7000.000	8.622	166.748	6470.545	28.158	0.000	30.959	-0.000	13.587	0.000	0.000	30.960	26.964	XOM_R2OWSG MWD+IFR1+MS
7100.000	6.622	166.748	6569.657	28.274	0.000	31.308	-0.000	13.716	0.000	0.000	31.309	27.305	XOM_R2OWSG MWD+IFR1+MS
7200.000	4.622	166.748	6669.171	28.344	0.000	31.640	-0.000	13.837	0.000	0.000	31.640	27.632	XOM_R2OWSG MWD+IFR1+MS
7300.000	2.622	166.748	6768.966	28.369	0.000	31.953	-0.000	13.952	0.000	0.000	31.953	27.945	XOM_R2OWSG MWD+IFR1+MS
7400.000	0.622	166.748	6868.921	28.349	0.000	32.248	-0.000	14.060	0.000	0.000	32.249	28.243	XOM_R2OWSG MWD+IFR1+MS
7431.080	0.000	0.000	6900.000	28.534	0.000	32.150	0.000	14.093	0.000	0.000	32.330	28.330	XOM_R2OWSG MWD+IFR1+MS
7500.000	0.000	0.000	6968.920	28.719	0.000	32.313	0.000	14.166	0.000	0.000	32.494	28.514	XOM_R2OWSG MWD+IFR1+MS
7600.000	0.000	0.000	7068.920	28.988	0.000	32.553	0.000	14.274	0.000	0.000	32.733	28.784	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:12 PM

Well Plan Report														
7700.000	0.000	0.000	7168.920	29.259	0.000	32.794	0.000	14.384	0.000	0.000	32.975	29.055	-12.769	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7268.920	29.532	0.000	33.038	0.000	14.498	0.000	0.000	33.219	29.328	-12.818	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7368.920	29.807	0.000	33.284	0.000	14.615	0.000	0.000	33.465	29.603	-12.867	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7468.920	30.083	0.000	33.531	0.000	14.735	0.000	0.000	33.712	29.880	-12.916	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7568.920	30.362	0.000	33.781	0.000	14.858	0.000	0.000	33.962	30.159	-12.965	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	7668.920	30.641	0.000	34.033	0.000	14.984	0.000	0.000	34.214	30.439	-13.014	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	7768.920	30.923	0.000	34.286	0.000	15.113	0.000	0.000	34.468	30.721	-13.062	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	7868.920	31.206	0.000	34.542	0.000	15.246	0.000	0.000	34.723	31.004	-13.111	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	7968.920	31.491	0.000	34.799	0.000	15.382	0.000	0.000	34.981	31.289	-13.159	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8068.920	31.777	0.000	35.058	0.000	15.521	0.000	0.000	35.240	31.575	-13.208	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8168.920	32.065	0.000	35.319	0.000	15.663	0.000	0.000	35.501	31.863	-13.256	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8268.920	32.354	0.000	35.581	0.000	15.809	0.000	0.000	35.763	32.152	-13.304	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8368.920	32.644	0.000	35.846	0.000	15.958	0.000	0.000	36.028	32.443	-13.352	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8468.920	32.936	0.000	36.111	0.000	16.111	0.000	0.000	36.294	32.735	-13.401	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8568.920	33.229	0.000	36.379	0.000	16.266	0.000	0.000	36.561	33.028	-13.449	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	8668.920	33.523	0.000	36.648	0.000	16.426	0.000	0.000	36.830	33.323	-13.496	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	8768.920	33.819	0.000	36.918	0.000	16.589	0.000	0.000	37.101	33.619	-13.544	XOM_R2OWSG MWD+IFR1+MS
9400.000	0.000	0.000	8868.920	34.116	0.000	37.190	0.000	16.755	0.000	0.000	37.372	33.916	-13.592	XOM_R2OWSG MWD+IFR1+MS
9500.000	0.000	0.000	8968.920	34.414	0.000	37.463	0.000	16.925	0.000	0.000	37.646	34.214	-13.640	XOM_R2OWSG MWD+IFR1+MS
9600.000	0.000	0.000	9068.920	34.713	0.000	37.738	0.000	17.098	0.000	0.000	37.921	34.513	-13.687	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:12 PM

Well Plan Report														
9700.000	0.000	0.000	9168.920	35.013	0.000	38.014	0.000	17.275	0.000	0.000	38.197	34.813	-13.735	XOM_R2OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9268.920	35.314	0.000	38.292	0.000	17.455	0.000	0.000	38.475	35.115	-13.782	XOM_R2OWSG MWD+IFR1+MS
9900.000	0.000	0.000	9368.920	35.617	0.000	38.571	0.000	17.639	0.000	0.000	38.754	35.418	-13.830	XOM_R2OWSG MWD+IFR1+MS
10000.000	0.000	0.000	9468.920	35.920	0.000	38.851	0.000	17.827	0.000	0.000	39.034	35.721	-13.877	XOM_R2OWSG MWD+IFR1+MS
10047.882	0.000	0.000	9516.803	36.066	0.000	38.986	0.000	17.918	0.000	0.000	39.169	35.867	-13.900	XOM_R2OWSG MWD+IFR1+MS
10100.000	4.169	359.895	9568.874	35.502	0.000	39.132	0.000	18.015	0.000	0.000	39.312	36.018	-13.917	XOM_R2OWSG MWD+IFR1+MS
10200.000	12.169	359.895	9667.779	33.979	0.000	39.389	0.000	18.194	0.000	0.000	39.570	36.267	-13.905	XOM_R2OWSG MWD+IFR1+MS
10300.000	20.169	359.895	9763.746	31.922	0.000	39.620	0.000	18.368	0.000	0.000	39.801	36.457	-13.826	XOM_R2OWSG MWD+IFR1+MS
10400.000	28.169	359.895	9854.905	29.424	0.000	39.824	0.000	18.547	0.000	0.000	40.005	36.588	-13.671	XOM_R2OWSG MWD+IFR1+MS
10500.000	36.169	359.895	9939.484	26.617	0.000	40.001	0.000	18.740	0.000	0.000	40.180	36.663	-13.446	XOM_R2OWSG MWD+IFR1+MS
10600.000	44.169	359.895	10015.836	23.690	0.000	40.151	0.000	18.959	0.000	0.000	40.329	36.690	-13.166	XOM_R2OWSG MWD+IFR1+MS
10700.000	52.169	359.895	10082.475	20.921	0.000	40.275	0.000	19.212	0.000	0.000	40.451	36.679	-12.849	XOM_R2OWSG MWD+IFR1+MS
10800.000	60.169	359.895	10138.104	18.697	0.000	40.376	0.000	19.506	0.000	0.000	40.548	36.641	-12.515	XOM_R2OWSG MWD+IFR1+MS
10900.000	68.169	359.895	10181.640	17.487	0.000	40.454	0.000	19.845	0.000	0.000	40.623	36.591	-12.183	XOM_R2OWSG MWD+IFR1+MS
11000.000	76.169	359.895	10212.235	17.655	0.000	40.512	0.000	20.229	0.000	0.000	40.676	36.542	-11.872	XOM_R2OWSG MWD+IFR1+MS
11100.000	84.169	359.895	10229.295	19.195	0.000	40.549	0.000	20.653	0.000	0.000	40.708	36.507	-11.603	XOM_R2OWSG MWD+IFR1+MS
11172.882	90.000	359.895	10233.000	20.981	0.000	40.563	0.000	20.981	0.000	0.000	40.718	36.499	-11.449	XOM_R2OWSG MWD+IFR1+MS
11200.000	90.000	359.895	10233.000	21.107	0.000	40.566	0.000	21.107	0.000	0.000	40.720	36.499	-11.399	XOM_R2OWSG MWD+IFR1+MS
11300.000	90.000	359.895	10233.000	21.581	0.000	40.593	0.000	21.581	0.000	0.000	40.742	36.500	-11.167	XOM_R2OWSG MWD+IFR1+MS
11400.000	90.000	359.895	10233.000	22.073	0.000	40.640	0.000	22.073	0.000	0.000	40.782	36.502	-10.889	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:12 PM

Well Plan Report														
11500.000	90.000	359.895	10233.000	22.582	0.000	40.705	0.000	22.582	0.000	0.000	40.841	36.504	-10.571	XOM_R2OWSG MWD+IFR1+MS
11600.000	90.000	359.895	10233.000	23.106	0.000	40.790	0.000	23.106	0.000	0.000	40.919	36.508	-10.218	XOM_R2OWSG MWD+IFR1+MS
11700.000	90.000	359.895	10233.000	23.645	0.000	40.893	0.000	23.645	0.000	0.000	41.015	36.513	-9.835	XOM_R2OWSG MWD+IFR1+MS
11800.000	90.000	359.895	10233.000	24.197	0.000	41.015	0.000	24.197	0.000	0.000	41.130	36.518	-9.431	XOM_R2OWSG MWD+IFR1+MS
11900.000	90.000	359.895	10233.000	24.762	0.000	41.156	0.000	24.762	0.000	0.000	41.263	36.524	-9.010	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	359.895	10233.000	25.338	0.000	41.314	0.000	25.338	0.000	0.000	41.414	36.531	-8.579	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	359.895	10233.000	25.925	0.000	41.491	0.000	25.925	0.000	0.000	41.584	36.538	-8.145	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	359.895	10233.000	26.523	0.000	41.686	0.000	26.523	0.000	0.000	41.772	36.546	-7.712	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	359.895	10233.000	27.130	0.000	41.898	0.000	27.130	0.000	0.000	41.977	36.554	-7.284	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	359.895	10233.000	27.746	0.000	42.128	0.000	27.746	0.000	0.000	42.201	36.562	-6.866	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	359.895	10233.000	28.370	0.000	42.375	0.000	28.370	0.000	0.000	42.442	36.570	-6.461	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	359.895	10233.000	29.002	0.000	42.638	0.000	29.002	0.000	0.000	42.699	36.579	-6.070	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	359.895	10233.000	29.642	0.000	42.918	0.000	29.642	0.000	0.000	42.974	36.588	-5.696	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	359.895	10233.000	30.288	0.000	43.214	0.000	30.288	0.000	0.000	43.265	36.598	-5.339	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	359.895	10233.000	30.941	0.000	43.526	0.000	30.941	0.000	0.000	43.573	36.607	-5.001	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	359.895	10233.000	31.599	0.000	43.854	0.000	31.599	0.000	0.000	43.896	36.617	-4.680	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	359.895	10233.000	32.264	0.000	44.196	0.000	32.264	0.000	0.000	44.235	36.628	-4.379	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	359.895	10233.000	32.933	0.000	44.553	0.000	32.933	0.000	0.000	44.588	36.638	-4.095	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	359.895	10233.000	33.608	0.000	44.925	0.000	33.608	0.000	0.000	44.957	36.649	-3.829	XOM_R2OWSG MWD+IFR1+MS
13400.000	90.000	359.895	10233.000	34.287	0.000	45.311	0.000	34.287	0.000	0.000	45.340	36.660	-3.579	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:12 PM

Well Plan Report													
13500.000	90.000	359.895	10233.000	34.971	0.000	45.711	0.000	34.971	0.000	45.737	36.672	-3.346	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	359.895	10233.000	35.659	0.000	46.123	0.000	35.659	0.000	46.147	36.684	-3.127	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	359.895	10233.000	36.351	0.000	46.549	0.000	36.351	0.000	46.571	36.696	-2.924	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	359.895	10233.000	37.046	0.000	46.988	0.000	37.046	0.000	47.007	36.709	-2.734	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	359.895	10233.000	37.745	0.000	47.439	0.000	37.745	0.000	47.456	36.722	-2.556	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	359.895	10233.000	38.448	0.000	47.902	0.000	38.448	0.000	47.917	36.736	-2.391	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	359.895	10233.000	39.153	0.000	48.376	0.000	39.153	0.000	48.390	36.750	-2.236	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	359.895	10233.000	39.861	0.000	48.862	0.000	39.861	0.000	48.875	36.765	-2.092	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	359.895	10233.000	40.573	0.000	49.359	0.000	40.573	0.000	49.370	36.780	-1.958	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	359.895	10233.000	41.287	0.000	49.866	0.000	41.287	0.000	49.876	36.796	-1.833	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	359.895	10233.000	42.003	0.000	50.383	0.000	42.003	0.000	50.393	36.812	-1.716	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	359.895	10233.000	42.722	0.000	50.911	0.000	42.722	0.000	50.919	36.829	-1.607	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	359.895	10233.000	43.443	0.000	51.448	0.000	43.443	0.000	51.456	36.846	-1.505	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	359.895	10233.000	44.166	0.000	51.995	0.000	44.166	0.000	52.001	36.864	-1.409	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	359.895	10233.000	44.892	0.000	52.550	0.000	44.892	0.000	52.556	36.882	-1.320	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	359.895	10233.000	45.619	0.000	53.115	0.000	45.619	0.000	53.120	36.901	-1.237	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	359.895	10233.000	46.348	0.000	53.688	0.000	46.348	0.000	53.693	36.920	-1.159	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	359.895	10233.000	47.079	0.000	54.269	0.000	47.079	0.000	54.273	36.940	-1.086	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	359.895	10233.000	47.812	0.000	54.858	0.000	47.812	0.000	54.862	36.961	-1.018	XOM_R2OWSG MWD+IFR1+MS
15400.000	90.000	359.895	10233.000	48.546	0.000	55.455	0.000	48.546	0.000	55.459	36.982	-0.953	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:12 PM

Well Plan Report														
14/23, 4:12 PM														
15500.000	90.000	359.895	10233.000	49.282	0.000	56.060	0.000	49.282	0.000	0.000	56.063	37.003	-0.893	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	359.895	10233.000	50.019	0.000	56.671	0.000	50.019	0.000	0.000	56.674	37.026	-0.837	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	359.895	10233.000	50.758	0.000	57.290	0.000	50.758	0.000	0.000	57.292	37.048	-0.784	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	359.895	10233.000	51.498	0.000	57.916	0.000	51.498	0.000	0.000	57.918	37.072	-0.734	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	359.895	10233.000	52.240	0.000	58.548	0.000	52.240	0.000	0.000	58.549	37.096	-0.687	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	359.895	10233.000	52.982	0.000	59.186	0.000	52.982	0.000	0.000	59.188	37.120	-0.643	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	359.895	10233.000	53.726	0.000	59.831	0.000	53.726	0.000	0.000	59.832	37.145	-0.602	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	359.895	10233.000	54.471	0.000	60.481	0.000	54.471	0.000	0.000	60.482	37.171	-0.563	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	359.895	10233.000	55.217	0.000	61.137	0.000	55.217	0.000	0.000	61.139	37.197	-0.526	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	359.895	10233.000	55.965	0.000	61.799	0.000	55.965	0.000	0.000	61.800	37.224	-0.491	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	359.895	10233.000	56.713	0.000	62.467	0.000	56.713	0.000	0.000	62.467	37.252	-0.459	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	359.895	10233.000	57.462	0.000	63.139	0.000	57.462	0.000	0.000	63.140	37.280	-0.428	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	359.895	10233.000	58.212	0.000	63.817	0.000	58.212	0.000	0.000	63.817	37.309	-0.399	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	359.895	10233.000	58.963	0.000	64.499	0.000	58.963	0.000	0.000	64.500	37.338	-0.371	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	359.895	10233.000	59.715	0.000	65.187	0.000	59.715	0.000	0.000	65.187	37.368	-0.345	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	359.895	10233.000	60.468	0.000	65.878	0.000	60.468	0.000	0.000	65.879	37.398	-0.321	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	359.895	10233.000	61.221	0.000	66.575	0.000	61.221	0.000	0.000	66.575	37.429	-0.298	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	359.895	10233.000	61.976	0.000	67.275	0.000	61.976	0.000	0.000	67.276	37.461	-0.276	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	359.895	10233.000	62.731	0.000	67.980	0.000	62.731	0.000	0.000	67.980	37.493	-0.255	XOM_R2OWSG MWD+IFR1+MS
17400.000	90.000	359.895	10233.000	63.487	0.000	68.689	0.000	63.487	0.000	0.000	68.689	37.526	-0.235	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:12 PM

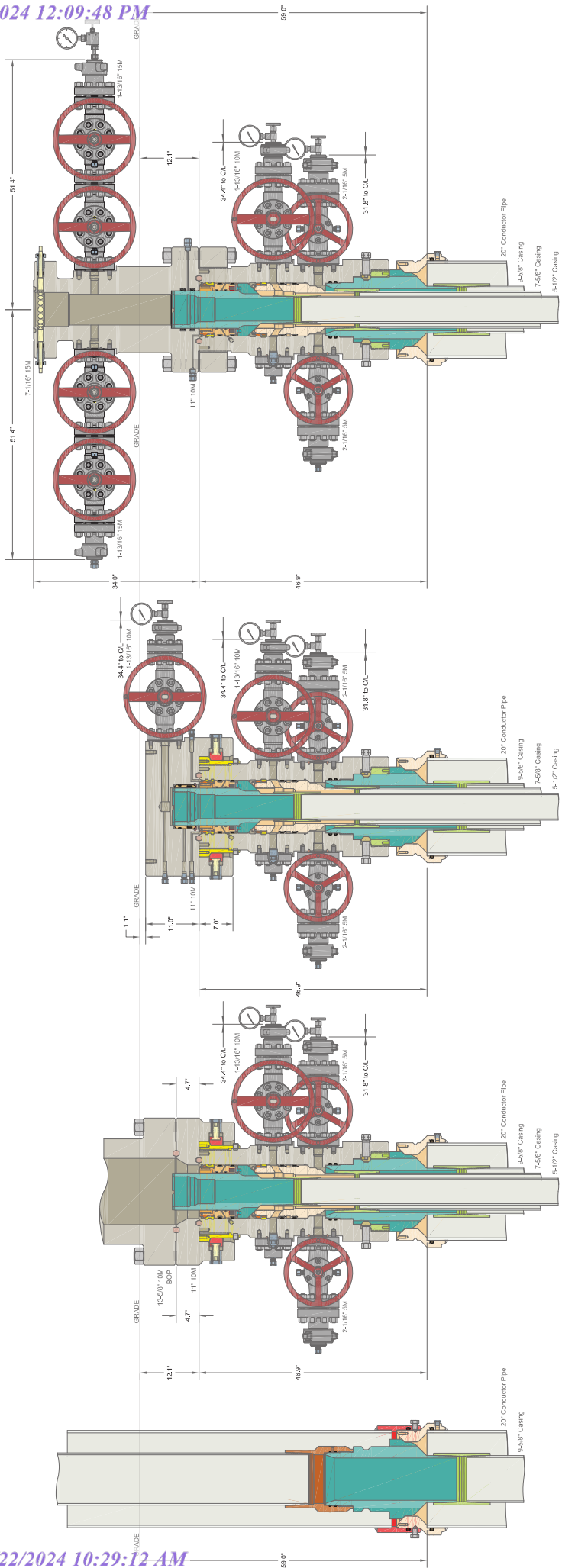
Well Plan Report													
17500.000	90.000	359.895	10233.000	64.243	0.000	69.402	0.000	64.243	0.000	0.000	69.402	37.559	XOM_R2OWSG MWD+IFR1+MS -0.217
17600.000	90.000	359.895	10233.000	65.000	0.000	70.119	0.000	65.000	0.000	0.000	70.119	37.593	XOM_R2OWSG MWD+IFR1+MS -0.199
17700.000	90.000	359.895	10233.000	65.758	0.000	70.839	0.000	65.758	0.000	0.000	70.839	37.628	XOM_R2OWSG MWD+IFR1+MS -0.182
17800.000	90.000	359.895	10233.000	66.516	0.000	71.563	0.000	66.516	0.000	0.000	71.563	37.663	XOM_R2OWSG MWD+IFR1+MS -0.167
17900.000	90.000	359.895	10233.000	67.275	0.000	72.291	0.000	67.275	0.000	0.000	72.291	37.698	XOM_R2OWSG MWD+IFR1+MS -0.152
18000.000	90.000	359.895	10233.000	68.035	0.000	73.021	0.000	68.035	0.000	0.000	73.021	37.735	XOM_R2OWSG MWD+IFR1+MS -0.137
18100.000	90.000	359.895	10233.000	68.795	0.000	73.756	0.000	68.795	0.000	0.000	73.756	37.772	XOM_R2OWSG MWD+IFR1+MS -0.124
18200.000	90.000	359.895	10233.000	69.556	0.000	74.493	0.000	69.556	0.000	0.000	74.493	37.809	XOM_R2OWSG MWD+IFR1+MS -0.111
18300.000	90.000	359.895	10233.000	70.317	0.000	75.233	0.000	70.317	0.000	0.000	75.233	37.847	XOM_R2OWSG MWD+IFR1+MS -0.099
18400.000	90.000	359.895	10233.000	71.079	0.000	75.977	0.000	71.079	0.000	0.000	75.977	37.886	XOM_R2OWSG MWD+IFR1+MS -0.087
18500.000	90.000	359.895	10233.000	71.841	0.000	76.723	0.000	71.841	0.000	0.000	76.723	37.925	XOM_R2OWSG MWD+IFR1+MS -0.076
18600.000	90.000	359.895	10233.000	72.604	0.000	77.472	0.000	72.604	0.000	0.000	77.472	37.965	XOM_R2OWSG MWD+IFR1+MS -0.066
18700.000	90.000	359.895	10233.000	73.367	0.000	78.224	0.000	73.367	0.000	0.000	78.224	38.005	XOM_R2OWSG MWD+IFR1+MS -0.056
18800.000	90.000	359.895	10233.000	74.131	0.000	78.978	0.000	74.131	0.000	0.000	78.978	38.046	XOM_R2OWSG MWD+IFR1+MS -0.046
18900.000	90.000	359.895	10233.000	74.895	0.000	79.735	0.000	74.895	0.000	0.000	79.735	38.087	XOM_R2OWSG MWD+IFR1+MS -0.037
19000.000	90.000	359.895	10233.000	75.659	0.000	80.495	0.000	75.659	0.000	0.000	80.495	38.129	XOM_R2OWSG MWD+IFR1+MS -0.029
19100.000	90.000	359.895	10233.000	76.424	0.000	81.257	0.000	76.424	0.000	0.000	81.257	38.172	XOM_R2OWSG MWD+IFR1+MS -0.021
19200.000	90.000	359.895	10233.000	77.190	0.000	82.022	0.000	77.190	0.000	0.000	82.022	38.215	XOM_R2OWSG MWD+IFR1+MS -0.013
19300.000	90.000	359.895	10233.000	77.955	0.000	82.788	0.000	77.955	0.000	0.000	82.788	38.259	XOM_R2OWSG MWD+IFR1+MS -0.006
19400.000	90.000	359.895	10233.000	78.721	0.000	83.557	0.000	78.721	0.000	0.000	83.558	38.303	XOM_R2OWSG MWD+IFR1+MS 0.001

19500.000	90.000	359.895	10233.000	79.488	0.000	84.329	0.000	84.329	0.000	38.348	0.008	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	359.895	10233.000	80.255	0.000	85.102	0.000	80.255	0.000	38.393	0.014	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	359.895	10233.000	81.022	0.000	85.877	0.000	81.022	0.000	38.439	0.020	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	359.895	10233.000	81.789	0.000	86.655	0.000	81.789	0.000	38.486	0.026	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	359.895	10233.000	82.557	0.000	87.434	0.000	82.557	0.000	38.533	0.031	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	359.895	10233.000	83.325	0.000	88.215	0.000	83.325	0.000	38.580	0.037	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	359.895	10233.000	84.094	0.000	88.999	0.000	84.094	0.000	38.628	0.041	XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	359.895	10233.000	84.862	0.000	89.784	0.000	84.862	0.000	38.677	0.046	XOM_R2OWSG MWD+IFR1+MS
20300.000	90.000	359.895	10233.000	85.631	0.000	90.570	0.000	85.631	0.000	38.726	0.051	XOM_R2OWSG MWD+IFR1+MS
20400.000	90.000	359.895	10233.000	86.401	0.000	91.359	0.000	86.401	0.000	38.776	0.055	XOM_R2OWSG MWD+IFR1+MS
20500.000	90.000	359.895	10233.000	87.170	0.000	92.149	0.000	87.170	0.000	38.826	0.059	XOM_R2OWSG MWD+IFR1+MS
20600.000	90.000	359.895	10233.000	87.940	0.000	92.941	0.000	87.940	0.000	38.877	0.063	XOM_R2OWSG MWD+IFR1+MS
20700.000	90.000	359.895	10233.000	88.710	0.000	93.734	0.000	88.710	0.000	38.929	0.066	XOM_R2OWSG MWD+IFR1+MS
20800.000	90.000	359.895	10233.000	89.481	0.000	94.529	0.000	89.481	0.000	38.981	0.070	XOM_R2OWSG MWD+IFR1+MS
20900.000	90.000	359.895	10233.000	90.251	0.000	95.325	0.000	90.251	0.000	39.033	0.073	XOM_R2OWSG MWD+IFR1+MS
21000.000	90.000	359.895	10233.000	91.022	0.000	96.123	0.000	91.022	0.000	39.086	0.076	XOM_R2OWSG MWD+IFR1+MS
21100.000	90.000	359.895	10233.000	91.793	0.000	96.922	0.000	91.793	0.000	39.140	0.079	XOM_R2OWSG MWD+IFR1+MS
21139.699	90.000	359.895	10233.000	92.099	0.000	97.240	0.000	92.099	0.000	39.161	0.081	XOM_R2OWSG MWD+IFR1+MS

Plan Targets	Poker Lake Unit 28-21 BS 126H											Grid Easting	TVD MSL	Target Shape
	Measured Depth													

Well Plan Report

Target Name	(ft)	(ft)	(ft)
FTP 3	11172.85	401497.10	671746.60
LTP 3	21139.70	411463.90	671728.30
BHL 3	21238.70	411562.90	671727.70
			6853.00
			RECTANGLE
			6853.00
			RECTANGLE
			6853.00
			RECTANGLE



ALL DIMENSIONS APPROXIMATE			
CACTUS WELLHEAD LLC		XTO ENERGY INC DELAWARE BASIN	
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers		DRAWN	VJK
		APPRV	31MAR22
		DRAWING NO. HBE0000479	

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

CONDITIONS

Action 312293

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 312293
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	2/22/2024