

Well Name: POKER LAKE UNIT 28-21 BS	Well Location: T25S / R31E / SEC 28 / NWNE /	County or Parish/State:
Well Number: 105H	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: 3001553229	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2764396

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/04/2023

Time Sundry Submitted: 04:31

Date proposed operation will begin: 01/15/2024

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 & 2430' FEL TO: 2115' FNL & 550' FEL of Section 28-T25S-R31E PPP1: 2646' FSL & 56 1' FEL PPP #2 1324 FNL, 562' FEL LTP: FROM: 100' FNL & 2430' FEL TO: 2570' FSL & 550' FEL of Section 16-T25S-R31E BHL: FROM: 50' FNL & 2430' FEL TO: 2660' FSL & 550' 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_105H_BS_Sundry_Attachments_20231204163027.pdf

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Conditions of Approval

Additional

Sec_29_25S_31E_NMP_Sundry_2764396_Poker_Lake_Unit_28_21_105H_COAs_20240126103424.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: JAN 29, 2024 12:43 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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	NMLC062140A
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well		NMNM71016X
☐ Oil Well ☒ Gas Well ☐ Other		8. Well Name and No.
2. Name of Operator		POKER LAKE UNIT 28-21 BS/105H
XTO PERMIAN OPERATING LLC		9. API Well No.
3a. Address		3001553229
6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
	(432) 683-2277	WC-025 G-08 S213304D/WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State
SEC 28/T25S/R31E/NMP		EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned 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 recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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 & 2430 FEL TO: 2115 FNL & 550 FEL of Section 28-T25S-R31E
PPP1: 2646 FSL &56 1 FEL
PPP #2 1324 FNL, 562' FEL
LTP: FROM: 100 FNL & 2430 FEL TO: 2570 FSL & 550 FEL of Section 16-T25S-R31E
BHL: FROM: 50 FNL & 2430 FEL TO: 2660 FSL & 550 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.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Regulatory Analyst
CASSIE EVANS / Ph: (432) 218-3671	Title
(Electronic Submission)	Date
Signature	01/29/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Petroleum Engineer	Date
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title	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

Casing/Cement design per the attached drilling program.

Attachments:

C102

Drilling Program

Directional Plan

MBS

Location of Well

0. SHL: NWNE / 549 FNL / 1945 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.107049 / LONG: -103.780773 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2310 FNL / 2010 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.102209 / LONG: -103.781027 (TVD: 11583 feet, MD: 12300 feet)

PPP: SWSE / 330 FSL / 2010 FEL / TWSP: 25S / RANGE: 31E / SECTION: 21 / LAT: 32.1104 / LONG: -103.78097 (TVD: 11583 feet, MD: 15000 feet)

BHL: NWNE / 50 FNL / 2010 FEL / TWSP: 25S / RANGE: 31E / SECTION: 21 / LAT: 32.12298 / LONG: -103.780905 (TVD: 11583 feet, MD: 19774 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 28-21 BS 105H
LOCATION:	Sec 28-25S-31E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2764396** 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 993 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 6913'**
 - 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 30-015-53229		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 105H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC		⁹ Elevation 3,349'

¹⁰ Surface Location

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	1,945	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
H	16	25 S	31 E		2,660	SOUTH	550	EAST	EDDY

¹² Dedicated Acres 360	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

GRID AZ.=359°36'33"
HORIZ. DIST.=90.00'

SEC. 16
T25S R31E

SEC. 15
T25S R31E

SEC. 22
T25S R31E

SEC. 21
T25S R31E

SEC. 27
T25S R31E

STATE
NMLC 0061862A

GRID AZ.=359°53'27"
HORIZ. DIST.=9.979.03'

GRID AZ.=138°18'25"
HORIZ. DIST.=2,091.03'

SHL (NAD83 NME)
Y = 403,119.3
X = 712,426.5
LAT. = 32.107049 "N
LONG. = 103.780773 "W

LTP (NAD83 NME)
Y = 411,536.8
X = 713,798.3
LAT. = 32.130168 "N
LONG. = 103.776202 "W

FTP (NAD83 NME)
Y = 401,557.8
X = 713,817.4
LAT. = 32.102737 "N
LONG. = 103.776307 "W

BHL (NAD83 NME)
Y = 411,626.8
X = 713,797.7
LAT. = 32.130415 "N
LONG. = 103.776202 "W

CORNER COORDINATES (NAD83 NME)

A - Y = 401,020.7	N	X = 713,036.5	E
B - Y = 403,670.3	N	X = 713,043.8	E
C - Y = 406,316.4	N	X = 713,033.4	E
D - Y = 408,965.5	N	X = 713,023.1	E
E - Y = 411,622.2	N	X = 713,015.5	E
F - Y = 414,276.6	N	X = 713,017.9	E
G - Y = 401,027.1	N	X = 714,365.8	E
H - Y = 403,674.7	N	X = 714,373.5	E
I - Y = 406,321.4	N	X = 714,369.6	E
J - Y = 408,967.8	N	X = 714,365.9	E
K - Y = 411,624.0	N	X = 714,347.8	E
L - Y = 414,274.6	N	X = 714,349.4	E

SHL (NAD27 NME)
Y = 403,061.3
X = 671,240.9
LAT. = 32.106924 "N
LONG. = 103.780295 "W

LTP (NAD27 NME)
Y = 411,478.7
X = 672,613.2
LAT. = 32.130043 "N
LONG. = 103.775722 "W

FTP (NAD27 NME)
Y = 401,500.0
X = 672,613.6
LAT. = 32.102612 "N
LONG. = 103.775830 "W

BHL (NAD27 NME)
Y = 411,568.7
X = 672,612.6
LAT. = 32.130291 "N
LONG. = 103.775723 "W

CORNER COORDINATES (NAD27 NME)

A - Y = 400,962.9	N	X = 671,850.8	E
B - Y = 403,612.4	N	X = 671,858.2	E
C - Y = 406,258.4	N	X = 671,847.8	E
D - Y = 408,907.5	N	X = 671,837.6	E
E - Y = 411,564.1	N	X = 671,830.4	E
F - Y = 414,218.4	N	X = 671,832.9	E
G - Y = 400,969.3	N	X = 673,180.0	E
H - Y = 403,616.7	N	X = 673,187.8	E
I - Y = 406,263.4	N	X = 673,184.0	E
J - Y = 408,909.7	N	X = 673,180.4	E
K - Y = 411,565.9	N	X = 673,162.6	E
L - Y = 414,216.4	N	X = 673,164.4	E

PPP#1 (NAD83 NME)
Y = 406,319.3
X = 713,808.3
LAT. = 32.115825 "N
LONG. = 103.776257 "W

PPP#1 (NAD27 NME)
Y = 406,261.3
X = 672,622.7
LAT. = 32.115701 "N
LONG. = 103.775779 "W

PPP#2 (NAD83 NME)
Y = 407,643.1
X = 713,805.8
LAT. = 32.119464 "N
LONG. = 103.776243 "W

PPP#2 (NAD27 NME)
Y = 407,585.0
X = 672,620.2
LAT. = 32.119340 "N
LONG. = 103.775765 "W

SHL (NAD83 NME)
Y = 403,119.3
X = 712,426.5
LAT. = 32.107049 "N
LONG. = 103.780773 "W

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D - Y = 408,907.5	N	X = 671,837.6	E
E - Y = 411,564.1	N	X = 671,830.4	E

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	3rd Bone Spring Shale	
Date Created	12/4/2023	
	SHL Data	
Section	28	
T	25	S
R	31	E
Northing	549	N
Easting	1945	E
County	Eddy	

Formations		
Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	893'	Water
Top of Salt	1207'	Water
Base of Salt	4047'	Water
Delaware	4263'	Water
Brushy Canyon	6913'	Water/Oil/Gas
Bone Spring	8228'	Water
1st Bone Spring	9065'	Water/Oil/Gas
2nd Bone Spring	9683'	Water/Oil/Gas
3rd Bone Spring	10332'	Water/Oil/Gas
Target/Land Curve	10898'	Water/Oil/Gas
BHL	10898'	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	993'
Intermediate	10679'
DV Tool &/or Int XO	4000'
Production	22068'

100' below top of R
 ~200' above KOP, I
 4000' for slimhole c
 Equals BHL

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	10,879	10,181
Landing Point	12,004	10,898
TD	22,068	10,898
OH Logs		
If Yes, Paste if no, "NO" >	No	Check 8. to see the
Max Frac Pressure		
10000	psi	
Temps		
Surf Temp	BHT	
85	185	** 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 '

re based on salt top & bottom.

1 BS 105H	
2 Mile Lateral	
BHL Data	
16	
25	S
31	E
2655	S
550	E

Match Directional Plan when appropriate



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

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

Check Hole sizes on Cement Calcs

it it reads correctly

’ TVD

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 105H

Projected TD: 22068.349' MD / 10898' TVD

SHL: 549' FNL & 1945' FEL , Section 28, T25S, R31E

BHL: 2655' FSL & 550' 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	893'	Water
Top of Salt	1207'	Water
Base of Salt	4047'	Water
Delaware	4263'	Water
Brushy Canyon	6913'	Water/Oil/Gas
Bone Spring	8228'	Water
1st Bone Spring	9065'	Water/Oil/Gas
2nd Bone Spring	9683'	Water/Oil/Gas
3rd Bone Spring	10332'	Water/Oil/Gas
Target/Land Curve	10898'	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 @ 993' (214' 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 10679.3' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22068.349 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10379.3 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 993'	9.625	40	J-55	BTC	New	1.35	6.34	15.86
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.66	2.71	1.76
8.75	4000' – 10679.3'	7.625	29.7	HC L-80	Flush Joint	New	1.94	1.95	2.05
6.75	0' – 10579.3'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.92	2.06
6.75	10579.3' - 22068.349'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.87	2.06

- 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 +/- 993'

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 +/- 10679.3'

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

TOC: Brushy Canyon @ 6913

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 (6913') 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 +/- 22068.349'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10379.3 feet

Tail: 800 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10879.3 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 3553 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' - 993'	12.25	FW/Native	8.4-8.9	35-40	NC
993' - 10679.3'	8.75	FW / Cut Brine / Direct Emulsion	9.5-10	30-32	NC
10679.3' - 22068.349'	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 175 to 195 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 5950 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)(10898) - (22)(10898)

Collapse Assumes 1/2 evacuation & FW Internal

Fluid Top: 5340 MD/TVD

Burst Assumes MASP Equation (10.5)(0.052)(10898) - (22)(10898)

Poker Lake Unit 28-21 BS 105H		22,068 ft TD		12/4/2023	
9.625 40 L-55 BTC		993 MD/TVD		8.4 ppg mud	
Collapse		collapse = 2750		Burst = 3950 Tension = 630000	
(8.4)(0.052)(993) =		434 psi		2750/434 = 6.34 SF for collapse	
Burst					
Max exp. surf pressure =		2926 psi		3950/2926.1282 = 1.35 SF for burst	
Tension					
(993)(40) =		39720 lb		630/39.7 = 15.86 SF for tension	
7.625 29.7 RY P-110 Flush Joint		0 Top		9.5 # mud	
		4000 Bottom			
Collapse		MD/TVD		MD/TVD	
(9.5)(0.052)(4000) =		5350		Burst = 9460 Tension = 558000	
Burst		1976 psi		5350/1976 = 2.71 SF for collapse	
Max expected surf pressure =		3553 psi		9460/3552.748 = 2.66 SF for burst	
Tension					
(4000*29.7)+(6679.3*29.7) =		317175.2 lb		558/317.17521 = 1.76 SF for tension	
7.625 29.7 HC L-80 Flush Joint		4000 Top		9.5 # mud	
		10679.3 TD			
Collapse		MD/TVD		MD/TVD	
(9.5)(0.052)(10679.3) * =		5780		Burst = 6880 Tension = 406000	
Less internal fluid height		2971 psi		5780/2971 = 1.95 SF for collapse	
Burst					
Max expected surf pressure =		3553 psi		6880/3552.748 = 1.94 SF for burst	
Tension					
(6679.3)(29.7) =		198375.2 lb		406/198.37521 = 2.05 SF for tension	
5.5 20 RY P-110 Semi-Premium		0 Top		10.579 TD (MD)	
		0.35 FF		10.5 # mud	
Collapse		Collapse = 11100		Burst = 12640 Tension = 641000	
(10.5)(0.052)(10579.3) =		5776 psi		11100/5776 = 1.92 SF for collapse	
Burst					
Max expected surf pressure =		10000 psi *for frac		12640/10000 = 1.26 SF for burst	
Tension					
(10579.3*20)+(-10579.3*20)+(12004.3*20)+(10064.049*0.35*20) =		310534 lb		641/310.534343 = 2.06 SF for tension	
5.5 20 RY P-110 Semi-Flush		10.579 Top		22.068 TD (MD)	
		0.35 FF		12.004 LP (MD)	
Collapse		Collapse = 11100		Burst = 12640 Tension = 641000	
(10.5)(0.052)(10898) =		5950 psi		11100/5950 = 1.87 SF for collapse	
Burst					
Max expected surf pressure =		10000 psi *for frac		12640/10000 = 1.26 SF for burst	
Tension					
(12004.3*20)+(10064.049*0.35*20) =		310534 lb		641/310.534343 = 2.06 SF for tension	

Surface Cement		Intermediate, 2nd Stage	
Top of Cement:	0 ft, MD	Top of Cement:	0
Casing Shoe:	993 ft, MD	Bottom of Cement:	6,913
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	693 ft, MD	TOC for Tail	0
<u>Lead Calcs</u>		<u>Lead Calcs</u>	
Annular Volume:	434.10 ft ³ (w/ excess)	Annular Volume:	0.00
Cement Volume:	232.1 sacks	Cement Volume:	0.0
<u>Tail Calcs</u>		<u>Tail Calcs</u>	
Annular Volume:	187.92 ft ³ (w/ excess)	Annular Volume:	1041.94
Cement Volume:	139.2 sacks	Cement Volume:	783.4

Field Needs an Input

Calculated Field

	Intermediate, 1st Stage	Production Cement
ft, MD	Top of Cement: 6913 ft, MD	Top of Cement:
ft, MD	Casing Shoe: 10679.3 ft, MD	Casing Shoe:
in	Hole Size: 8.75 in	Kick Off Point:
in	Casing Size: 7.625 in	Landing Point:
		Hole Size 1:
		Hole Size 2:
		Casing Size 1:
		Casing Size 2:
		XO Depth:
	<u>Lead</u>	<u>Lead</u>
%	% Excess, OH 50 %	% Excess, OH
ft ³ / sack	yield 2.77 ft ³ / sack	yield
ft, MD	TOC for Lead 0 ft, MD	TOC for Lead
	<u>Tail</u>	<u>Tail</u>
%	% Excess, OH 25 %	% Excess, OH
ft ³ / sack	yield 1.35 ft ³ / sack	yield
ft, MD	TOC for Tail 6,913 ft, MD	TOC for Tail
	<u>Lead Calcs</u>	<u>Lead Calcs</u>
ft ³ (w/ excess)	Annular Volume: 1041.94 ft ³ (w/ excess)	Annular Volume:
sacks	Cement Volume: 376.2 sacks	Cement Volume:
	<u>Tail Calcs</u>	<u>Tail Calcs</u>
ft ³ (w/ excess)	Annular Volume: 473.05 ft ³ (w/ excess)	Annular Volume:
sacks	Cement Volume: 350.4 sacks	Cement Volume:

10379	ft, MD
22,068	ft, MD
10,879	ft, MD
12,004	ft, MD
6.75	in
6.75	in
5.5	in
5.5	in
0	ft, MD
30	%
2.69	ft ³ / sack
10,379	ft, MD
30	%
1.51	ft ³ / sack
10,879	ft, MD
54.29	ft ³ (w/ excess)
20.2	sacks
1214.88	ft ³ (w/ excess)
804.6	sacks

= Calculate

Field Needs an Input

Calculated Field

Permanent System

Prod MW = 10.5 ppg
Max TVD = 10,898 ft

BHP = 5950 psi

MASP = 3553 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 105H					
3rd Bone Spring Shale 2 Mile Lateral					
County:	Eddy County, NM				
SHL:	SHL: 549' FNL & 1945' FEL , Section 28, T25S, R31E				
BHL:	BHL: 2655' FSL & 550' FEL , Section 16, T25S, R31E				
Area:					
					
TVD	Geology	Casing & Cement	Wellhead	Hole Size	General Notes
120'	Conductor		(Tech Data Sheet)	12.3"	
893'	Rustler	9.625 40 J-55 BTC	993' MD	#REF!	
1,207'	Top of Salt				
4,047'	Base of Salt	#REF!	#REF!		
4,263'	Delaware/Lamar		Composite DV Tool (If Required)	8-3/4"	
6,913'	Brushy Canyon Ss.				
8,228'	Bone Spring				
9,065'	1st Bone Spring Ss.	7.625 29.7 RY P-110 Flush Joint 7.625 29.7 HC L-80 Flush Joint	10679' MD	6-3/4" Curve	
9,683'	2nd Bone Spring Ss.		KOP 10879' MD 10181' TVD	6-3/4" Lateral	
10,898'	Landing TVD	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 12004' MD 10898' TVD	22,068' MD 10,898' TVD @ BHL	
10,898'	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
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2nd Bone Spring
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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
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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 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:

3rd Bone Spring Shale 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
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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

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					
it	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 105H

Measured Depth: 22068.35 ft
TVD RKB: 10898.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 403061.30 ft
Easting: 671240.90 ft
RKB: 3381.00 ft
Ground Level: 3349.00 ft
North Reference: Grid
Convergence Angle: 0.29 Deg

Plan Sections									
Poker Lake Unit 28-21 BS 105H									
Measured									
Depth	Inclination	Azimuth	TVD	Y Offset	X Offset	Build	Turn	Dogleg	
(ft)	(Deg)	(Deg)	RKB	(ft)	(ft)	Rate	Rate	Rate	Target
			(ft)			(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
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
2753.62	33.07	148.57	2663.31	-396.03	242.06	2.00	0.00	2.00	2.00
5943.88	33.07	148.57	5336.69	-1881.46	1149.96	0.00	0.00	0.00	0.00
7597.50	0.00	0.00	6900.00	-2277.50	1392.02	-2.00	0.00	2.00	2.00
10879.30	0.00	0.00	10181.80	-2277.50	1392.02	0.00	0.00	0.00	0.00
12004.30	90.00	359.89	10898.00	-1561.30	1390.70	8.00	0.00	8.00	FTP 1
21969.42	90.00	359.89	10898.00	8403.80	1372.40	0.00	0.00	0.00	LTP 1
22068.35	90.00	359.89	10898.00	8502.73	1372.22	0.00	0.00	0.00	BHL 1

Position Uncertainty				
Poker Lake Unit 28-21 BS 105H				
Measured	TVD	Highside	Lateral	Vertical
				Magnitude
				Semi-major
				Semi-minor
				Tool

Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	Error	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
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	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.358	0.000	0.179	0.179	90.000	XOM_R2OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.310	0.000	0.717	0.000	0.538	0.538	90.000	XOM_R2OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	1.075	0.000	0.896	0.896	90.000	XOM_R2OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	1.434	0.000	1.255	1.255	90.000	XOM_R2OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.374	0.000	1.792	0.000	1.613	1.613	90.000	XOM_R2OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.406	0.000	2.151	0.000	1.972	1.972	90.000	XOM_R2OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.444	0.000	2.509	0.000	2.330	2.330	90.000	XOM_R2OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.485	0.000	2.868	0.000	2.689	2.689	90.000	XOM_R2OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.531	0.000	3.226	0.000	3.047	3.047	90.000	XOM_R2OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.581	0.000	3.585	0.000	3.405	3.405	90.000	XOM_R2OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.634	0.000	3.943	0.000	3.764	3.764	90.000	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.000	148.567	1199.980	4.235	0.000	4.155	-0.000	2.690	0.000	4.285	0.000	4.105	4.105	89.998	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	148.567	1299.838	4.558	0.000	4.484	-0.000	2.747	0.000	4.616	0.000	4.434	4.434	89.888	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	148.567	1399.452	4.880	0.000	4.817	-0.000	2.806	0.000	4.952	0.000	4.766	4.766	89.848	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	148.567	1498.702	5.200	0.000	5.155	-0.000	2.865	0.000	5.291	0.000	5.104	5.104	90.012	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.000	148.567	1597.465	5.518	0.000	5.499	-0.000	2.926	0.000	5.634	0.000	5.446	5.446	90.502	XOM_R2OWSG MWD+IFR1+MS
1700.000	12.000	148.567	1695.623	5.835	0.000	5.849	-0.000	2.989	0.000	5.981	0.000	5.793	5.793	91.453	XOM_R2OWSG MWD+IFR1+MS
1800.000	14.000	148.567	1793.055	6.151	0.000	6.206	-0.000	3.055	0.000	6.331	0.000	6.146	6.146	93.033	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
1900.000	16.000	148.567	1889.643	6.465	0.000	6.571	-0.000	3.125	0.000	0.000	6.687	6.505	95.463	XOM_R2OWSG MWD+IFR1+MS
2000.000	18.000	148.567	1985.268	6.779	0.000	6.945	-0.000	3.200	0.000	0.000	7.047	6.870	99.028	XOM_R2OWSG MWD+IFR1+MS
2100.000	20.000	148.567	2079.816	7.092	0.000	7.330	-0.000	3.283	0.000	0.000	7.416	7.241	104.006	XOM_R2OWSG MWD+IFR1+MS
2200.000	22.000	148.567	2173.169	7.406	0.000	7.727	-0.000	3.374	0.000	0.000	7.794	7.615	110.434	XOM_R2OWSG MWD+IFR1+MS
2300.000	24.000	148.567	2265.215	7.720	0.000	8.136	-0.000	3.475	0.000	0.000	8.187	7.992	117.747	XOM_R2OWSG MWD+IFR1+MS
2400.000	26.000	148.567	2355.841	8.036	0.000	8.559	-0.000	3.589	0.000	0.000	8.596	8.367	124.830	XOM_R2OWSG MWD+IFR1+MS
2500.000	28.000	148.567	2444.937	8.353	0.000	8.998	-0.000	3.717	0.000	0.000	9.024	8.741	130.765	XOM_R2OWSG MWD+IFR1+MS
2600.000	30.000	148.567	2532.394	8.673	0.000	9.453	-0.000	3.862	0.000	0.000	9.471	9.114	-44.693	XOM_R2OWSG MWD+IFR1+MS
2700.000	32.000	148.567	2618.107	8.996	0.000	9.925	-0.000	4.026	0.000	0.000	9.938	9.486	-41.347	XOM_R2OWSG MWD+IFR1+MS
2753.617	33.072	148.567	2663.308	9.170	0.000	10.184	-0.000	4.118	0.000	0.000	10.195	9.687	-40.003	XOM_R2OWSG MWD+IFR1+MS
2800.000	33.072	148.567	2702.176	9.374	0.000	10.411	-0.000	4.209	0.000	0.000	10.420	9.858	-38.969	XOM_R2OWSG MWD+IFR1+MS
2900.000	33.072	148.567	2785.974	9.821	0.000	10.913	-0.000	4.426	0.000	0.000	10.920	10.226	-37.189	XOM_R2OWSG MWD+IFR1+MS
3000.000	33.072	148.567	2869.773	10.275	0.000	11.424	-0.000	4.652	0.000	0.000	11.429	10.599	-35.938	XOM_R2OWSG MWD+IFR1+MS
3100.000	33.072	148.567	2953.571	10.736	0.000	11.944	-0.000	4.886	0.000	0.000	11.948	10.978	-35.015	XOM_R2OWSG MWD+IFR1+MS
3200.000	33.072	148.567	3037.369	11.202	0.000	12.472	-0.000	5.127	0.000	0.000	12.474	11.360	-34.309	XOM_R2OWSG MWD+IFR1+MS
3300.000	33.072	148.567	3121.167	11.674	0.000	13.006	-0.000	5.375	0.000	0.000	13.007	11.748	-33.751	XOM_R2OWSG MWD+IFR1+MS
3400.000	33.072	148.567	3204.966	12.150	0.000	13.545	-0.000	5.628	0.000	0.000	13.546	12.139	-33.301	XOM_R2OWSG MWD+IFR1+MS
3500.000	33.072	148.567	3288.764	12.630	0.000	14.090	-0.000	5.886	0.000	0.000	14.091	12.533	-32.930	XOM_R2OWSG MWD+IFR1+MS
3600.000	33.072	148.567	3372.562	13.114	0.000	14.639	-0.000	6.148	0.000	0.000	14.639	12.931	-32.619	XOM_R2OWSG MWD+IFR1+MS
3700.000	33.072	148.567	3456.360	13.601	0.000	15.192	-0.000	6.414	0.000	0.000	15.192	13.332	-32.354	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
3800.000	33.072	148.567	3540.158	14.091	0.000	15.748	-0.000	6.683	0.000	0.000	15.748	13.736	-32.127	XOM_R2OWSG MWD+IFR1+MS
3900.000	33.072	148.567	3623.957	14.583	0.000	16.308	-0.000	6.956	0.000	0.000	16.308	14.142	-31.930	XOM_R2OWSG MWD+IFR1+MS
4000.000	33.072	148.567	3707.755	15.078	0.000	16.871	-0.000	7.230	0.000	0.000	16.871	14.551	-31.758	XOM_R2OWSG MWD+IFR1+MS
4100.000	33.072	148.567	3791.553	15.574	0.000	17.436	-0.000	7.508	0.000	0.000	17.436	14.962	-31.605	XOM_R2OWSG MWD+IFR1+MS
4200.000	33.072	148.567	3875.351	16.073	0.000	18.004	-0.000	7.787	0.000	0.000	18.004	15.374	-31.469	XOM_R2OWSG MWD+IFR1+MS
4300.000	33.072	148.567	3959.150	16.573	0.000	18.573	-0.000	8.069	0.000	0.000	18.573	15.789	-31.348	XOM_R2OWSG MWD+IFR1+MS
4400.000	33.072	148.567	4042.948	17.075	0.000	19.145	-0.000	8.352	0.000	0.000	19.145	16.205	-31.238	XOM_R2OWSG MWD+IFR1+MS
4500.000	33.072	148.567	4126.746	17.579	0.000	19.719	-0.000	8.637	0.000	0.000	19.719	16.623	-31.139	XOM_R2OWSG MWD+IFR1+MS
4600.000	33.072	148.567	4210.544	18.083	0.000	20.294	-0.000	8.924	0.000	0.000	20.294	17.043	-31.049	XOM_R2OWSG MWD+IFR1+MS
4700.000	33.072	148.567	4294.342	18.589	0.000	20.870	-0.000	9.212	0.000	0.000	20.871	17.464	-30.967	XOM_R2OWSG MWD+IFR1+MS
4800.000	33.072	148.567	4378.141	19.096	0.000	21.449	-0.000	9.502	0.000	0.000	21.449	17.886	-30.891	XOM_R2OWSG MWD+IFR1+MS
4900.000	33.072	148.567	4461.939	19.605	0.000	22.028	-0.000	9.793	0.000	0.000	22.028	18.309	-30.822	XOM_R2OWSG MWD+IFR1+MS
5000.000	33.072	148.567	4545.737	20.114	0.000	22.608	-0.000	10.085	0.000	0.000	22.609	18.734	-30.758	XOM_R2OWSG MWD+IFR1+MS
5100.000	33.072	148.567	4629.535	20.623	0.000	23.190	-0.000	10.378	0.000	0.000	23.190	19.159	-30.699	XOM_R2OWSG MWD+IFR1+MS
5200.000	33.072	148.567	4713.333	21.134	0.000	23.772	-0.000	10.673	0.000	0.000	23.773	19.586	-30.644	XOM_R2OWSG MWD+IFR1+MS
5300.000	33.072	148.567	4797.132	21.646	0.000	24.356	-0.000	10.968	0.000	0.000	24.357	20.014	-30.592	XOM_R2OWSG MWD+IFR1+MS
5400.000	33.072	148.567	4880.930	22.158	0.000	24.940	-0.000	11.265	0.000	0.000	24.941	20.442	-30.544	XOM_R2OWSG MWD+IFR1+MS
5500.000	33.072	148.567	4964.728	22.671	0.000	25.526	-0.000	11.562	0.000	0.000	25.527	20.872	-30.500	XOM_R2OWSG MWD+IFR1+MS
5600.000	33.072	148.567	5048.526	23.184	0.000	26.111	-0.000	11.861	0.000	0.000	26.113	21.302	-30.458	XOM_R2OWSG MWD+IFR1+MS
5700.000	33.072	148.567	5132.325	23.698	0.000	26.698	-0.000	12.160	0.000	0.000	26.699	21.733	-30.418	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
5800.000	33.072	148.567	5216.123	24.213	0.000	27.285	-0.000	12.460	0.000	0.000	27.287	22.165	-30.381	XOM_R2OWSG MWD+IFR1+MS
5900.000	33.072	148.567	5299.921	24.728	0.000	27.873	-0.000	12.762	0.000	0.000	27.875	22.597	-30.346	XOM_R2OWSG MWD+IFR1+MS
5943.880	33.072	148.567	5336.692	24.954	0.000	28.131	-0.000	12.894	0.000	0.000	28.133	22.787	-30.331	XOM_R2OWSG MWD+IFR1+MS
6000.000	31.950	148.567	5384.016	25.292	0.000	28.458	-0.000	13.063	0.000	0.000	28.459	23.030	-30.312	XOM_R2OWSG MWD+IFR1+MS
6100.000	29.950	148.567	5469.773	25.862	0.000	29.027	-0.000	13.350	0.000	0.000	29.029	23.461	-30.280	XOM_R2OWSG MWD+IFR1+MS
6200.000	27.950	148.567	5557.273	26.391	0.000	29.577	-0.000	13.622	0.000	0.000	29.579	23.890	-30.247	XOM_R2OWSG MWD+IFR1+MS
6300.000	25.950	148.567	5646.409	26.877	0.000	30.107	-0.000	13.875	0.000	0.000	30.110	24.316	-30.215	XOM_R2OWSG MWD+IFR1+MS
6400.000	23.950	148.567	5737.072	27.320	0.000	30.618	-0.000	14.111	0.000	0.000	30.620	24.739	-30.184	XOM_R2OWSG MWD+IFR1+MS
6500.000	21.950	148.567	5829.152	27.719	0.000	31.108	-0.000	14.330	0.000	0.000	31.110	25.156	-30.153	XOM_R2OWSG MWD+IFR1+MS
6600.000	19.950	148.567	5922.537	28.072	0.000	31.577	-0.000	14.532	0.000	0.000	31.580	25.565	-30.123	XOM_R2OWSG MWD+IFR1+MS
6700.000	17.950	148.567	6017.112	28.378	0.000	32.025	-0.000	14.719	0.000	0.000	32.028	25.967	-30.093	XOM_R2OWSG MWD+IFR1+MS
6800.000	15.950	148.567	6112.763	28.639	0.000	32.453	-0.000	14.892	0.000	0.000	32.456	26.358	-30.065	XOM_R2OWSG MWD+IFR1+MS
6900.000	13.950	148.567	6209.373	28.852	0.000	32.859	-0.000	15.051	0.000	0.000	32.863	26.739	-30.038	XOM_R2OWSG MWD+IFR1+MS
7000.000	11.950	148.567	6306.825	29.018	0.000	33.245	-0.000	15.198	0.000	0.000	33.249	27.108	-30.013	XOM_R2OWSG MWD+IFR1+MS
7100.000	9.950	148.567	6404.999	29.136	0.000	33.611	-0.000	15.333	0.000	0.000	33.614	27.464	-29.988	XOM_R2OWSG MWD+IFR1+MS
7200.000	7.950	148.567	6503.777	29.206	0.000	33.956	-0.000	15.458	0.000	0.000	33.960	27.806	-29.966	XOM_R2OWSG MWD+IFR1+MS
7300.000	5.950	148.567	6603.037	29.230	0.000	34.281	-0.000	15.573	0.000	0.000	34.285	28.134	-29.945	XOM_R2OWSG MWD+IFR1+MS
7400.000	3.950	148.567	6702.659	29.206	0.000	34.587	-0.000	15.681	0.000	0.000	34.591	28.446	-29.926	XOM_R2OWSG MWD+IFR1+MS
7500.000	1.950	148.567	6802.521	29.136	0.000	34.873	-0.000	15.782	0.000	0.000	34.877	28.743	-29.909	XOM_R2OWSG MWD+IFR1+MS
7597.497	0.000	0.000	6900.000	30.646	0.000	33.703	0.000	15.875	0.000	0.000	35.121	29.010	-29.937	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
7600.000	0.000	0.000	6902.503	30.652	0.000	33.708	0.000	15.878	0.000	0.000	35.127	29.016	-29.939	XOM_R2OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7002.503	30.907	0.000	33.933	0.000	15.972	0.000	0.000	35.351	29.275	-30.012	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7102.503	31.164	0.000	34.161	0.000	16.070	0.000	0.000	35.578	29.535	-30.084	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7202.503	31.423	0.000	34.390	0.000	16.170	0.000	0.000	35.807	29.798	-30.156	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7302.503	31.684	0.000	34.622	0.000	16.273	0.000	0.000	36.039	30.062	-30.228	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7402.503	31.947	0.000	34.855	0.000	16.379	0.000	0.000	36.272	30.329	-30.300	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	7502.503	32.211	0.000	35.091	0.000	16.488	0.000	0.000	36.507	30.597	-30.371	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	7602.503	32.478	0.000	35.329	0.000	16.600	0.000	0.000	36.745	30.867	-30.442	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	7702.503	32.746	0.000	35.569	0.000	16.715	0.000	0.000	36.984	31.139	-30.513	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	7802.503	33.015	0.000	35.811	0.000	16.833	0.000	0.000	37.225	31.412	-30.583	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	7902.503	33.287	0.000	36.055	0.000	16.954	0.000	0.000	37.468	31.688	-30.653	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8002.503	33.560	0.000	36.301	0.000	17.079	0.000	0.000	37.713	31.965	-30.723	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8102.503	33.835	0.000	36.548	0.000	17.207	0.000	0.000	37.960	32.243	-30.793	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8202.503	34.111	0.000	36.798	0.000	17.338	0.000	0.000	38.209	32.523	-30.862	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8302.503	34.389	0.000	37.049	0.000	17.472	0.000	0.000	38.459	32.805	-30.931	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8402.503	34.668	0.000	37.302	0.000	17.610	0.000	0.000	38.711	33.088	-31.000	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	8502.503	34.949	0.000	37.557	0.000	17.751	0.000	0.000	38.965	33.372	-31.068	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	8602.503	35.231	0.000	37.813	0.000	17.895	0.000	0.000	39.220	33.658	-31.136	XOM_R2OWSG MWD+IFR1+MS
9400.000	0.000	0.000	8702.503	35.515	0.000	38.071	0.000	18.043	0.000	0.000	39.477	33.945	-31.204	XOM_R2OWSG MWD+IFR1+MS
9500.000	0.000	0.000	8802.503	35.800	0.000	38.331	0.000	18.194	0.000	0.000	39.736	34.233	-31.272	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
9600.000	0.000	0.000	8902.503	36.086	0.000	38.592	0.000	18.349	0.000	0.000	39.996	34.523	-31.339	XOM_R2OWSG MWD+IFR1+MS
9700.000	0.000	0.000	9002.503	36.373	0.000	38.855	0.000	18.507	0.000	0.000	40.258	34.814	-31.407	XOM_R2OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9102.503	36.662	0.000	39.119	0.000	18.669	0.000	0.000	40.521	35.107	-31.473	XOM_R2OWSG MWD+IFR1+MS
9900.000	0.000	0.000	9202.503	36.952	0.000	39.385	0.000	18.834	0.000	0.000	40.786	35.400	-31.540	XOM_R2OWSG MWD+IFR1+MS
10000.000	0.000	0.000	9302.503	37.243	0.000	39.653	0.000	19.003	0.000	0.000	41.052	35.695	-31.606	XOM_R2OWSG MWD+IFR1+MS
10100.000	0.000	0.000	9402.503	37.535	0.000	39.921	0.000	19.176	0.000	0.000	41.319	35.991	-31.672	XOM_R2OWSG MWD+IFR1+MS
10200.000	0.000	0.000	9502.503	37.829	0.000	40.191	0.000	19.352	0.000	0.000	41.588	36.288	-31.738	XOM_R2OWSG MWD+IFR1+MS
10300.000	0.000	0.000	9602.503	38.123	0.000	40.463	0.000	19.532	0.000	0.000	41.858	36.586	-31.804	XOM_R2OWSG MWD+IFR1+MS
10400.000	0.000	0.000	9702.503	38.419	0.000	40.736	0.000	19.715	0.000	0.000	42.130	36.885	-31.869	XOM_R2OWSG MWD+IFR1+MS
10500.000	0.000	0.000	9802.503	38.716	0.000	41.010	0.000	19.902	0.000	0.000	42.403	37.185	-31.934	XOM_R2OWSG MWD+IFR1+MS
10600.000	0.000	0.000	9902.503	39.013	0.000	41.285	0.000	20.093	0.000	0.000	42.677	37.486	-31.999	XOM_R2OWSG MWD+IFR1+MS
10700.000	0.000	0.000	10002.503	39.312	0.000	41.562	0.000	20.288	0.000	0.000	42.952	37.788	-32.063	XOM_R2OWSG MWD+IFR1+MS
10800.000	0.000	0.000	10102.503	39.612	0.000	41.840	0.000	20.486	0.000	0.000	43.229	38.091	-32.127	XOM_R2OWSG MWD+IFR1+MS
10879.300	0.000	0.000	10181.803	39.850	0.000	42.061	0.000	20.646	0.000	0.000	43.449	38.332	-32.178	XOM_R2OWSG MWD+IFR1+MS
10900.000	1.656	359.895	10202.500	39.643	0.000	42.127	0.000	20.687	0.000	0.000	43.506	38.394	-32.190	XOM_R2OWSG MWD+IFR1+MS
11000.000	9.656	359.895	10301.932	38.308	0.000	42.389	0.000	20.884	0.000	0.000	43.768	38.663	-32.204	XOM_R2OWSG MWD+IFR1+MS
11100.000	17.656	359.895	10399.026	36.398	0.000	42.624	0.000	21.079	0.000	0.000	44.003	38.879	-32.142	XOM_R2OWSG MWD+IFR1+MS
11200.000	25.656	359.895	10491.892	34.003	0.000	42.830	0.000	21.279	0.000	0.000	44.209	39.041	-31.987	XOM_R2OWSG MWD+IFR1+MS
11300.000	33.656	359.895	10578.723	31.250	0.000	43.007	0.000	21.497	0.000	0.000	44.382	39.151	-31.741	XOM_R2OWSG MWD+IFR1+MS
11400.000	41.656	359.895	10657.828	28.317	0.000	43.154	0.000	21.740	0.000	0.000	44.523	39.215	-31.416	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
14/23, 4:06 PM														
11500.000	49.656	359.895	10727.668	25.455	0.000	43.272	0.000	22.018	0.000	0.000	44.630	39.241	-31.033	XOM_R2OWSG MWD+IFR1+MS
11600.000	57.656	359.895	10786.883	23.002	0.000	43.363	0.000	22.334	0.000	0.000	44.705	39.241	-30.618	XOM_R2OWSG MWD+IFR1+MS
11700.000	65.656	359.895	10834.321	21.368	0.000	43.428	0.000	22.694	0.000	0.000	44.751	39.225	-30.198	XOM_R2OWSG MWD+IFR1+MS
11800.000	73.656	359.895	10869.058	20.932	0.000	43.470	0.000	23.094	0.000	0.000	44.769	39.206	-29.807	XOM_R2OWSG MWD+IFR1+MS
11900.000	81.656	359.895	10890.419	21.840	0.000	43.489	0.000	23.532	0.000	0.000	44.763	39.196	-29.482	XOM_R2OWSG MWD+IFR1+MS
12004.300	90.000	359.895	10898.000	24.017	0.000	43.486	0.000	24.017	0.000	0.000	44.734	39.208	-29.259	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	359.895	10898.000	24.480	0.000	43.480	0.000	24.480	0.000	0.000	44.702	39.234	-29.083	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	359.895	10898.000	24.978	0.000	43.492	0.000	24.978	0.000	0.000	44.682	39.265	-28.814	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	359.895	10898.000	25.491	0.000	43.522	0.000	25.491	0.000	0.000	44.677	39.301	-28.459	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	359.895	10898.000	26.018	0.000	43.570	0.000	26.018	0.000	0.000	44.685	39.342	-28.021	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	359.895	10898.000	26.557	0.000	43.635	0.000	26.557	0.000	0.000	44.707	39.386	-27.498	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	359.895	10898.000	27.109	0.000	43.718	0.000	27.109	0.000	0.000	44.745	39.434	-26.895	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	359.895	10898.000	27.671	0.000	43.819	0.000	27.671	0.000	0.000	44.797	39.485	-26.216	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	359.895	10898.000	28.245	0.000	43.937	0.000	28.245	0.000	0.000	44.865	39.538	-25.464	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	359.895	10898.000	28.828	0.000	44.072	0.000	28.828	0.000	0.000	44.949	39.593	-24.647	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	359.895	10898.000	29.420	0.000	44.224	0.000	29.420	0.000	0.000	45.050	39.650	-23.773	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	359.895	10898.000	30.022	0.000	44.394	0.000	30.022	0.000	0.000	45.167	39.707	-22.851	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	359.895	10898.000	30.632	0.000	44.580	0.000	30.632	0.000	0.000	45.301	39.765	-21.890	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	359.895	10898.000	31.249	0.000	44.782	0.000	31.249	0.000	0.000	45.453	39.822	-20.901	XOM_R2OWSG MWD+IFR1+MS
13400.000	90.000	359.895	10898.000	31.874	0.000	45.001	0.000	31.874	0.000	0.000	45.622	39.879	-19.895	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
13500.000	90.000	359.895	10898.000	32.506	0.000	45.236	0.000	32.506	0.000	0.000	45.810	39.934	-18.881	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	359.895	10898.000	33.144	0.000	45.487	0.000	33.144	0.000	0.000	46.015	39.989	-17.870	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	359.895	10898.000	33.789	0.000	45.754	0.000	33.789	0.000	0.000	46.237	40.041	-16.871	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	359.895	10898.000	34.439	0.000	46.036	0.000	34.439	0.000	0.000	46.478	40.091	-15.891	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	359.895	10898.000	35.095	0.000	46.332	0.000	35.095	0.000	0.000	46.736	40.140	-14.937	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	359.895	10898.000	35.756	0.000	46.644	0.000	35.756	0.000	0.000	47.011	40.187	-14.016	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	359.895	10898.000	36.422	0.000	46.970	0.000	36.422	0.000	0.000	47.304	40.231	-13.130	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	359.895	10898.000	37.092	0.000	47.310	0.000	37.092	0.000	0.000	47.613	40.274	-12.284	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	359.895	10898.000	37.767	0.000	47.664	0.000	37.767	0.000	0.000	47.938	40.314	-11.479	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	359.895	10898.000	38.447	0.000	48.032	0.000	38.447	0.000	0.000	48.279	40.353	-10.717	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	359.895	10898.000	39.130	0.000	48.413	0.000	39.130	0.000	0.000	48.636	40.390	-9.996	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	359.895	10898.000	39.817	0.000	48.807	0.000	39.817	0.000	0.000	49.008	40.426	-9.318	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	359.895	10898.000	40.507	0.000	49.213	0.000	40.507	0.000	0.000	49.394	40.460	-8.681	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	359.895	10898.000	41.201	0.000	49.632	0.000	41.201	0.000	0.000	49.794	40.493	-8.084	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	359.895	10898.000	41.898	0.000	50.062	0.000	41.898	0.000	0.000	50.209	40.525	-7.525	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	359.895	10898.000	42.598	0.000	50.505	0.000	42.598	0.000	0.000	50.636	40.556	-7.002	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	359.895	10898.000	43.301	0.000	50.959	0.000	43.301	0.000	0.000	51.076	40.586	-6.513	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	359.895	10898.000	44.007	0.000	51.423	0.000	44.007	0.000	0.000	51.529	40.615	-6.057	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	359.895	10898.000	44.715	0.000	51.899	0.000	44.715	0.000	0.000	51.993	40.643	-5.632	XOM_R2OWSG MWD+IFR1+MS
15400.000	90.000	359.895	10898.000	45.426	0.000	52.385	0.000	45.426	0.000	0.000	52.469	40.671	-5.235	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
14/23, 4:06 PM														
15500.000	90.000	359.895	10898.000	46.139	0.000	52.882	0.000	46.139	0.000	0.000	52.956	40.699	-4.865	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	359.895	10898.000	46.855	0.000	53.388	0.000	46.855	0.000	0.000	53.454	40.726	-4.520	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	359.895	10898.000	47.573	0.000	53.904	0.000	47.573	0.000	0.000	53.963	40.752	-4.198	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	359.895	10898.000	48.292	0.000	54.429	0.000	48.292	0.000	0.000	54.481	40.779	-3.898	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	359.895	10898.000	49.014	0.000	54.963	0.000	49.014	0.000	0.000	55.010	40.806	-3.617	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	359.895	10898.000	49.738	0.000	55.507	0.000	49.738	0.000	0.000	55.548	40.832	-3.356	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	359.895	10898.000	50.464	0.000	56.058	0.000	50.464	0.000	0.000	56.095	40.858	-3.111	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	359.895	10898.000	51.191	0.000	56.619	0.000	51.191	0.000	0.000	56.650	40.885	-2.883	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	359.895	10898.000	51.920	0.000	57.187	0.000	51.920	0.000	0.000	57.215	40.912	-2.670	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	359.895	10898.000	52.650	0.000	57.763	0.000	52.650	0.000	0.000	57.787	40.938	-2.470	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	359.895	10898.000	53.383	0.000	58.346	0.000	53.383	0.000	0.000	58.368	40.965	-2.283	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	359.895	10898.000	54.116	0.000	58.937	0.000	54.116	0.000	0.000	58.956	40.992	-2.108	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	359.895	10898.000	54.851	0.000	59.536	0.000	54.851	0.000	0.000	59.552	41.020	-1.944	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	359.895	10898.000	55.588	0.000	60.141	0.000	55.588	0.000	0.000	60.155	41.047	-1.791	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	359.895	10898.000	56.325	0.000	60.753	0.000	56.325	0.000	0.000	60.765	41.075	-1.647	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	359.895	10898.000	57.064	0.000	61.371	0.000	57.064	0.000	0.000	61.381	41.103	-1.512	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	359.895	10898.000	57.804	0.000	61.996	0.000	57.804	0.000	0.000	62.005	41.132	-1.385	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	359.895	10898.000	58.546	0.000	62.627	0.000	58.546	0.000	0.000	62.634	41.161	-1.266	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	359.895	10898.000	59.288	0.000	63.264	0.000	59.288	0.000	0.000	63.270	41.190	-1.154	XOM_R2OWSG MWD+IFR1+MS
17400.000	90.000	359.895	10898.000	60.032	0.000	63.906	0.000	60.032	0.000	0.000	63.911	41.220	-1.049	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
17500.000	90.000	359.895	10898.000	60.776	0.000	64.555	0.000	60.776	0.000	0.000	64.559	41.250	-0.950	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	359.895	10898.000	61.522	0.000	65.209	0.000	61.522	0.000	0.000	65.212	41.281	-0.857	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	359.895	10898.000	62.268	0.000	65.868	0.000	62.268	0.000	0.000	65.870	41.312	-0.769	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	359.895	10898.000	63.016	0.000	66.532	0.000	63.016	0.000	0.000	66.534	41.344	-0.687	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	359.895	10898.000	63.764	0.000	67.201	0.000	63.764	0.000	0.000	67.203	41.376	-0.609	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	359.895	10898.000	64.513	0.000	67.875	0.000	64.513	0.000	0.000	67.876	41.408	-0.535	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	359.895	10898.000	65.263	0.000	68.554	0.000	65.263	0.000	0.000	68.555	41.441	-0.466	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	359.895	10898.000	66.014	0.000	69.237	0.000	66.014	0.000	0.000	69.238	41.475	-0.401	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	359.895	10898.000	66.766	0.000	69.925	0.000	66.766	0.000	0.000	69.925	41.509	-0.339	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	359.895	10898.000	67.518	0.000	70.617	0.000	67.518	0.000	0.000	70.617	41.543	-0.281	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	359.895	10898.000	68.271	0.000	71.313	0.000	68.271	0.000	0.000	71.313	41.578	-0.226	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	359.895	10898.000	69.025	0.000	72.013	0.000	69.025	0.000	0.000	72.013	41.614	-0.174	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	359.895	10898.000	69.780	0.000	72.717	0.000	69.780	0.000	0.000	72.717	41.650	-0.125	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	359.895	10898.000	70.535	0.000	73.425	0.000	70.535	0.000	0.000	73.425	41.686	-0.078	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	359.895	10898.000	71.291	0.000	74.137	0.000	71.291	0.000	0.000	74.137	41.724	-0.034	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	359.895	10898.000	72.047	0.000	74.852	0.000	72.047	0.000	0.000	74.852	41.761	0.007	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	359.895	10898.000	72.804	0.000	75.571	0.000	72.804	0.000	0.000	75.571	41.799	0.047	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	359.895	10898.000	73.562	0.000	76.293	0.000	73.562	0.000	0.000	76.293	41.838	0.084	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	359.895	10898.000	74.320	0.000	77.018	0.000	74.320	0.000	0.000	77.019	41.877	0.119	XOM_R2OWSG MWD+IFR1+MS
19400.000	90.000	359.895	10898.000	75.078	0.000	77.747	0.000	75.078	0.000	0.000	77.747	41.917	0.153	XOM_R2OWSG MWD+IFR1+MS

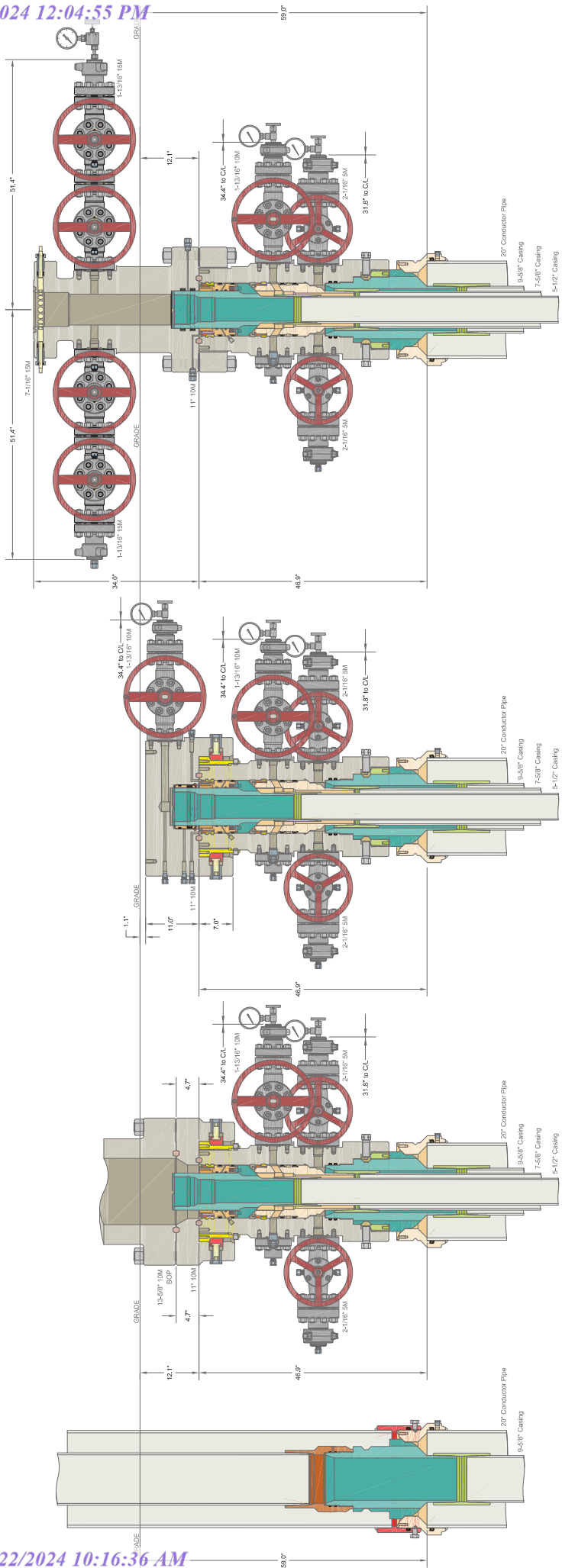
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Well Plan Report														
19500.000	90.000	359.895	10898.000	75.838	0.000	78.479	0.000	75.838	0.000	0.000	78.479	41.957	0.184	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	359.895	10898.000	76.598	0.000	79.213	0.000	76.598	0.000	0.000	79.214	41.998	0.214	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	359.895	10898.000	77.358	0.000	79.951	0.000	77.358	0.000	0.000	79.952	42.040	0.243	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	359.895	10898.000	78.119	0.000	80.692	0.000	78.119	0.000	0.000	80.693	42.082	0.270	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	359.895	10898.000	78.880	0.000	81.435	0.000	78.880	0.000	0.000	81.437	42.124	0.295	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	359.895	10898.000	79.641	0.000	82.181	0.000	79.641	0.000	0.000	82.183	42.167	0.319	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	359.895	10898.000	80.404	0.000	82.930	0.000	80.404	0.000	0.000	82.932	42.211	0.342	XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	359.895	10898.000	81.166	0.000	83.681	0.000	81.166	0.000	0.000	83.683	42.255	0.364	XOM_R2OWSG MWD+IFR1+MS
20300.000	90.000	359.895	10898.000	81.929	0.000	84.435	0.000	81.929	0.000	0.000	84.438	42.300	0.385	XOM_R2OWSG MWD+IFR1+MS
20400.000	90.000	359.895	10898.000	82.692	0.000	85.192	0.000	82.692	0.000	0.000	85.194	42.345	0.404	XOM_R2OWSG MWD+IFR1+MS
20500.000	90.000	359.895	10898.000	83.456	0.000	85.950	0.000	83.456	0.000	0.000	85.953	42.390	0.423	XOM_R2OWSG MWD+IFR1+MS
20600.000	90.000	359.895	10898.000	84.220	0.000	86.711	0.000	84.220	0.000	0.000	86.714	42.437	0.440	XOM_R2OWSG MWD+IFR1+MS
20700.000	90.000	359.895	10898.000	84.985	0.000	87.474	0.000	84.985	0.000	0.000	87.478	42.484	0.457	XOM_R2OWSG MWD+IFR1+MS
20800.000	90.000	359.895	10898.000	85.750	0.000	88.240	0.000	85.750	0.000	0.000	88.243	42.531	0.473	XOM_R2OWSG MWD+IFR1+MS
20900.000	90.000	359.895	10898.000	86.515	0.000	89.007	0.000	86.515	0.000	0.000	89.011	42.579	0.488	XOM_R2OWSG MWD+IFR1+MS
21000.000	90.000	359.895	10898.000	87.281	0.000	89.777	0.000	87.281	0.000	0.000	89.781	42.627	0.502	XOM_R2OWSG MWD+IFR1+MS
21100.000	90.000	359.895	10898.000	88.047	0.000	90.549	0.000	88.047	0.000	0.000	90.553	42.676	0.515	XOM_R2OWSG MWD+IFR1+MS
21200.000	90.000	359.895	10898.000	88.813	0.000	91.322	0.000	88.813	0.000	0.000	91.327	42.726	0.528	XOM_R2OWSG MWD+IFR1+MS
21300.000	90.000	359.895	10898.000	89.580	0.000	92.098	0.000	89.580	0.000	0.000	92.102	42.776	0.540	XOM_R2OWSG MWD+IFR1+MS
21400.000	90.000	359.895	10898.000	90.346	0.000	92.875	0.000	90.346	0.000	0.000	92.880	42.827	0.552	XOM_R2OWSG MWD+IFR1+MS

11/14/23, 4:06 PM

Well Plan Report														
14/23, 4:06 PM	21500.000	90.000	359.895	10898.000	91.114	0.000	93.654	0.000	91.114	0.000	93.659	42.878	0.563	XOM_R2OWSG MWD+IFR1+MS
	21600.000	90.000	359.895	10898.000	91.881	0.000	94.436	0.000	91.881	0.000	94.441	42.930	0.573	XOM_R2OWSG MWD+IFR1+MS
	21700.000	90.000	359.895	10898.000	92.649	0.000	95.218	0.000	92.649	0.000	95.224	42.982	0.583	XOM_R2OWSG MWD+IFR1+MS
	21800.000	90.000	359.895	10898.000	93.417	0.000	96.003	0.000	93.417	0.000	96.008	43.035	0.592	XOM_R2OWSG MWD+IFR1+MS
	21900.000	90.000	359.895	10898.000	94.185	0.000	96.789	0.000	94.185	0.000	96.795	43.088	0.600	XOM_R2OWSG MWD+IFR1+MS
	21969.417	90.000	359.895	10898.000	94.719	0.000	97.335	0.000	94.719	0.000	97.341	43.125	0.606	XOM_R2OWSG MWD+IFR1+MS
	22000.000	90.000	359.895	10898.000	94.954	0.000	97.576	0.000	94.954	0.000	97.582	43.142	0.609	XOM_R2OWSG MWD+IFR1+MS
	22068.349	90.000	359.895	10898.000	95.480	0.000	98.114	0.000	95.480	0.000	98.121	43.179	0.614	XOM_R2OWSG MWD+IFR1+MS

Plan Targets				Poker Lake Unit 28-21 BS 105H				TVD MSL Target Shape			
Target Name		Measured Depth		Grid Northing		Grid Easting		TVD MSL		Target Shape	
		(ft)		(ft)		(ft)		(ft)			
FTP 1		12004.21		401500.00		672631.60		7517.00		RECTANGLE	
LTP 1		21969.42		411465.10		672613.30		7517.00		RECTANGLE	
BHL 1		22068.77		411564.10		672612.70		7517.00		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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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 312287

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 312287
	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