

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: POKER LAKE UNIT 22-3 BS	Well Location: T25S / R31E / SEC 22 / SWSW / 32.109827 / -103.772899	County or Parish/State: EDDY / NM
Well Number: 124H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC070707A	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001553992	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2784418

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/10/2024

Time Sundry Submitted: 03:23

Date proposed operation will begin: 04/30/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, casing sizes, cement, and proposed total depth. FROM: TO: SHL: 465' FSL & 516' FWL of Section 22-T25S-R31E 485' FSL & 516' FWL of Section 22-T25S-R31E FTP: 950' FSL & 1020' FWL of Section 22-T25S-R31E 994' FSL & 978' FWL of Section 22-T25S-R31E LTP: 2490' FNL & 1020' FWL of Section 3-T26S-R31E 2334' FNL & 978' FWL of Section 3-T26S-R31E BHL: 2540' FNL & 1020' FWL of Section 3-T26S-R31E 2410' FNL & 978' FWL of Section 3-T26S-R31E PPP1: 0' FNL & 978' FWL PPP2: 1323' FNL & 984' FWL PPP3: 2649' FSL & 990' FWL PPP4: 0' FSL & 998' FWL PPP5: 1326' FSL & 985' FWL Proposed total depth will change from 26158' MD; 11673' TVD (Wolfcamp) to 27327' MD; TVD 12756' (Wolfcamp D). See attached Drilling Plan for updated cement and casing program. A saturated salt brine will be utilized while drilling through the salt formations. Attachments: C-102, Drilling Plan, Directional Drilling Plan, MBS

NOI Attachments

Procedure Description

Poker_Lake_Unit_22_3_BS_124H_Sundry_Documents_20240729131937.pdf

Well Name: POKER LAKE UNIT 22-3
BS

Well Location: T25S / R31E / SEC 22 /
SWSW / 32.109827 / -103.772899

County or Parish/State: EDDY /
NM

Well Number: 124H

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMLC070707A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553992

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

Poker_Lake_Unit_22_3_BS_124H_COA_20241030122153.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: TERRA SEBASTIAN

Signed on: JUL 29, 2024 01:19 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND

State: TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@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: 11/01/2024

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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

5. Lease Serial No.
NMLC070707A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
XTO PERMIAN OPERATING LLC

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, 3b. Phone No. (include area code)
(432) 683-2277

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 22/T25S/R31E/NMP

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

8. Well Name and No.
POKER LAKE UNIT 22-3 BS/124H

9. API Well No. 3001553992

10. Field and Pool or Exploratory Area
PURPLE SAGE; WOLFCAMP (GAS)/PURPLE SAGE WOLFCAMP (98220)

11. Country or Parish, State
EDDY/NM

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate 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 recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, casing sizes, cement, and proposed total depth.

FROM: TO:

SHL: 465' FSL & 516' FWL of Section 22-T25S-R31E 485' FSL & 516' FWL of Section 22-T25S-R31E

FTP: 950' FSL & 1020' FWL of Section 22-T25S-R31E 994' FSL & 978' FWL of Section 22-T25S-R31E

LTP: 2490' FNL & 1020' FWL of Section 3-T26S-R31E 2334' FNL & 978' FWL of Section 3-T26S-R31E

BHL: 2540' FNL & 1020' FWL of Section 3-T26S-R31E 2410' FNL & 978' FWL of Section 3-T26S-R31E

PPP1: 0 FNL & 978 FWL

PPP2: 1323 FNL & 984 FWL

PPP3: 2649 FSL & 990 FWL

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
TERRA SEBASTIAN / Ph: (432) 999-3107

Signature (Electronic Submission)

Date 07/29/2024

Title Regulatory Advisor

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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.

Petroleum Engineer

Office CARLSBAD

Date 11/01/2024

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

PPP4: 0 FSL & 998 FWL

PPP5: 1326 FSL & 985 FWL

Proposed total depth will change from 26158 MD; 11673 TVD (Wolfcamp) to 27327 MD; TVD 12756 (Wolfcamp D).

See attached Drilling Plan for updated cement and casing program.

A saturated salt brine will be utilized while drilling through the salt formations.

Attachments: C-102, Drilling Plan, Directional Drilling Plan, MBS

Location of Well

0. SHL: SWSW / 465 FSL / 486 FWL / TWSP: 25S / RANGE: 31E / SECTION: 22 / LAT: 32.109827 / LONG: -103.772899 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 950 FSL / 1020 FWL / TWSP: 25S / RANGE: 31E / SECTION: 34 / LAT: 32.084897 / LONG: -103.772458 (TVD: 11673 feet, MD: 22500 feet)

PPP: NWNW / 950 FSL / 1020 FWL / TWSP: 25S / RANGE: 31E / SECTION: 27 / LAT: 32.10673 / LONG: -103.772352 (TVD: 11673 feet, MD: 13400 feet)

PPP: SWNW / 950 FSL / 1020 FWL / TWSP: 25S / RANGE: 31E / SECTION: 27 / LAT: 32.103092 / LONG: -103.772384 (TVD: 11673 feet, MD: 14700 feet)

PPP: NWSW / 950 FSL / 1020 FWL / TWSP: 25S / RANGE: 31E / SECTION: 27 / LAT: 32.103092 / LONG: -103.772384 (TVD: 11673 feet, MD: 16000 feet)

PPP: NWNW / 950 FSL / 1020 FWL / TWSP: 25S / RANGE: 31E / SECTION: 34 / LAT: 32.088537 / LONG: -103.772457 (TVD: 11673 feet, MD: 18600 feet)

PPP: SWSW / 950 FSL / 1020 FWL / TWSP: 25S / RANGE: 31E / SECTION: 22 / LAT: 32.1111161 / LONG: -103.77117 (TVD: 11673 feet, MD: 12076 feet)

BHL: SWNW / 2540 FNL / 1020 FWL / TWSP: 26S / RANGE: 31E / SECTION: 3 / LAT: 32.072451 / LONG: -103.771329 (TVD: 11673 feet, MD: 26158 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC070707A
LOCATION:	Sec. 22, T.25 S, R 31 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 22-3 BS 124H
SURFACE HOLE FOOTAGE:	485'/S & 516'/W
BOTTOM HOLE FOOTAGE:	2410/N & 978'/W

Changes approved through engineering via **Sundry 2784418** on 10-30-2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H ₂ S	☒ No		☐ Yes	
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-Q	☐ Open Annulus ☐ WIPP
Choose an option (including blank option.)				
Cave / Karst	☐ Low	☐ Medium	☒ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☒ Primary Squeeze	☐ Cont. Squeeze	☒ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☒ Unit
Waste Prev.	☐ Self-Certification	☐ Waste Min. Plan	☒ APD Submitted prior to 06/10/2024	
Additional Language	☒ Flex Hose	☒ Casing Clearance	☐ Pilot Hole	☒ Break Testing
	☐ Four-String	☒ Offline Cementing	☐ Fluid-Filled	

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 **980** 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.
 - 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

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 6772'**
 - 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.**
- ❖ In High 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 **Surface X Intermediate 1** 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 Surface casing to tieback requirements listed above 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.

If cement does not reach surface, the next casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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)**

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 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 **43 CFR 3172**.

- 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.

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

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)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 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-Q 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 3172**.
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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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).
 - ii. 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.)
- iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. 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.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. 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.
 - vii. 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.
 - viii. 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 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.

Approved by Zota Stevens on 10/30/2024
575-234-5998 / zstevens@blm.gov

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting
	Submittal Type:	☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-015-53992	Pool Code 98220	Pool Name PURPLE SAGE;WOLFCAMP (GAS)
Property Code 334166	Property Name PokerLake Unit 22-3 BS	Well Number 124H
OGRID No. 005380	Operator Name XTO Energy, INC.	Ground Level Elevation 3,342'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL M	Section 22	Township 25 S	Range 31 E	Lot	Ft. from N/S 485 S	Ft. from E/W 516 W	Latitude 32.109882	Longitude -103.772802	County Eddy
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Bottom Hole Location

UL E	Section 3	Township 26 S	Range 31 E	Lot	Ft. from N/S 2,410 N	Ft. from E/W 978 W	Latitude 32.072808	Longitude -103.771463	County Eddy
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Dedicated Acres 880	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) Yes	Consolidation Code U
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL M	Section 22	Township 25 S	Range 31 E	Lot	Ft. from N/S 485 S	Ft. from E/W 516 W	Latitude 32.109882	Longitude -103.772802	County Eddy
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First Take Point (FTP)

UL M	Section 22	Township 25 S	Range 31 E	Lot	Ft. from N/S 994 S	Ft. from E/W 978 W	Latitude 32.111282	Longitude -103.771305	County Eddy
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Last Take Point (LTP)

UL E	Section 3	Township 26 S	Range 31 E	Lot	Ft. from N/S 2334 N	Ft. from E/W 978 W	Latitude 32.073017	Longitude -103.771463	County Eddy
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Unitized Area or Area of Uniform Interest NMNM-071016X	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,342'
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Terra Sebastian

11/19/2024

Signature

Date

Terra Sebastian

Printed Name

terra.b.sebastian@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Please see signature below

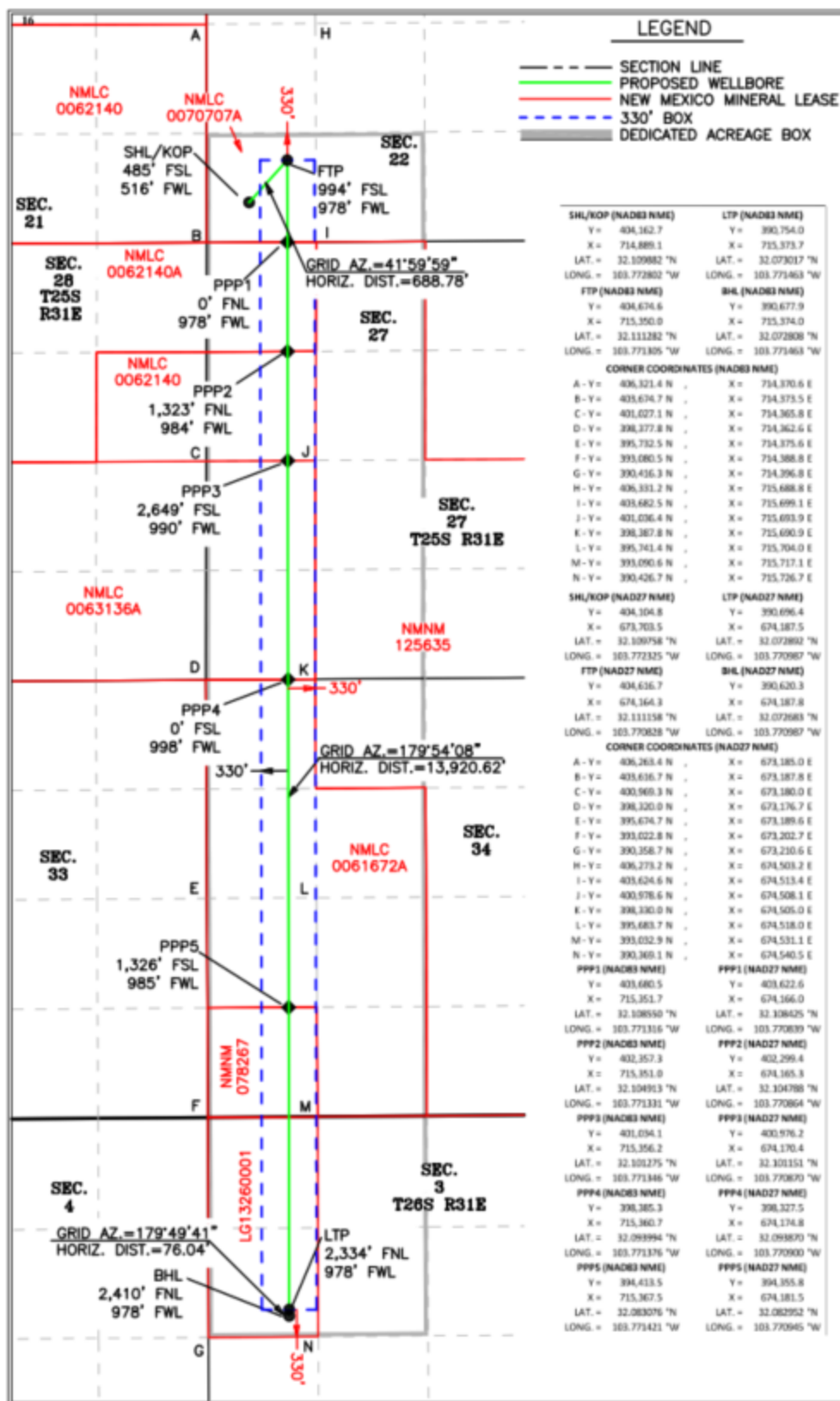
Signature and Seal of Professional Surveyor

Certificate Number

Date of Survey

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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

**17 OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Emily Rivera 7/16/2024
Signature Date

Emily Rivera

Printed Name

emily.a.rivera@exxonmobil.com

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

7-9-2024

Date of Survey

LM 2022071182

Signature and Seal of
Professional Surveyor:

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209



TIM C. PAPPAS 21290
Certificate Number

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

XTO Energy Inc.
POKER LAKE UNIT 22-3 BS 124H
Projected TD: 27327' MD / 12756' TVD
SHL: 485' FSL & 516' FWL , Section 22, T25S, R31E
BHL: 2410' FNL & 978' FWL , Section 3, T26S, 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	881'	Water
Top of Salt	1197'	Water
Base of Salt	4067'	Water
Delaware	4282'	Water
Brushy Canyon	6773'	Water/Oil/Gas
Bone Spring	8247'	Water
Avalon	8365'	Water/Oil/Gas
1st Bone Spring	9087'	Water/Oil/Gas
2nd Bone Spring	9646'	Water/Oil/Gas
3rd Bone Spring	10329'	Water/Oil/Gas
Wolfcamp	11629'	Water/Oil/Gas
Wolfcamp X	11649'	Water/Oil/Gas
Wolfcamp Y	11741'	Water/Oil/Gas
Wolfcamp A	11788'	Water/Oil/Gas
Wolfcamp B	12211'	Water/Oil/Gas
Wolfcamp D	12636'	Water/Oil/Gas
Target/Land Curve	12756'	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 @ 981' (216' 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 12005' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 27327 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 11705 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 981'	9.625	40	J-55	BTC	New	1.20	6.42	16.06
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	1.84	2.71	1.57
8.75	4000' – 12005'	7.625	29.7	HC L-80	Flush Joint	New	1.34	1.73	1.71
6.75	0' – 11905'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.49	1.76
6.75	11905' - 27327'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.39	1.76

• XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry

• 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

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 20" 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.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 981'

Lead: 220 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 +/- 12005'

1st Stage

Optional Lead: 360 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 480 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6773

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: 760 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 (6773') 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 +/- 27327'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 11705 feet

Tail: 1080 sxs VersaCem (mixed at 14.5 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 12205 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 surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril and a 10M Double Ram BOP.

XTO will use a Multi-Bowl system which is attached.

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, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M 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. 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)	Additional Comments
0' - 981'	12.25	FW/Native	8.7-9.2	35-40	NC	Fresh Water or Native Water
981'-4282'		Salt Saturated	10.5-11			Fully Saturated salt across salado / /salt
4282' - 12005'	8.75	BDE / OBM	9-9.5	30-32	NC	N/A
12005' - 27327'	6.75	OBM	11.5-12	50-60	NC - 20	N/A

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 surface casing with Saturated Salt solution. Saturated Salt 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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 190 to 210 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 7960 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.

Well Plan Report - PLU 22-3 BS 124H

Measured Depth: 27327.34 ft
TVD RKB: 12756.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 404104.80 ft
Easting: 673703.50 ft
RKB: 3374.00 ft
Ground Level: 3342.00 ft
North Reference: Grid
Convergence Angle: 0.30 Deg

Plan Sections PLU 22-3 BS 124H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build		Turn		Dogleg	
						Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1858.37	15.17	20.52	1849.55	93.46	34.98	2.00	2.00	0.00	0.00	2.00	2.00
6107.29	15.17	20.52	5950.45	1134.63	424.63	0.00	0.00	0.00	0.00	0.00	0.00
6865.66	0.00	0.00	6700.00	1228.10	459.61	-2.00	-2.00	0.00	0.00	2.00	2.00
12205.47	0.00	0.00	12039.80	1228.10	459.61	0.00	0.00	0.00	0.00	0.00	0.00
13330.47	90.00	179.90	12756.00	511.90	460.80	8.00	8.00	0.00	0.00	8.00	FTP 124H
27250.79	90.00	179.90	12756.00	-13408.40	484.00	0.00	0.00	0.00	0.00	0.00	LTP 124H
27327.34	90.00	179.90	12756.00	-13484.95	484.13	0.00	0.00	0.00	0.00	0.00	BHL 124H

Position Uncertainty PLU 22-3 BS 124H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	Error	Azimuth	Used
(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	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	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	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	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	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	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	90.000	XOM_R2OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.443	0.000	2.509	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	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	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	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	90.000	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.000	20.518	1199.980	4.278	0.000	4.144	0.000	2.690	0.000	4.301	90.059	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	20.518	1299.838	4.629	0.000	4.500	0.000	2.747	0.000	4.660	90.288	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	20.518	1399.452	4.975	0.000	4.855	0.000	2.805	0.000	5.019	90.551	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	20.518	1498.702	5.316	0.000	5.209	0.000	2.865	0.000	5.378	90.797	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.000	20.518	1597.465	5.652	0.000	5.564	0.000	2.925	0.000	5.738	90.984	XOM_R2OWSG MWD+IFR1+MS
1700.000	12.000	20.518	1695.623	5.984	0.000	5.920	0.000	2.988	0.000	6.098	91.077	XOM_R2OWSG MWD+IFR1+MS
1800.000	14.000	20.518	1793.055	6.312	0.000	6.277	0.000	3.054	0.000	6.458	91.044	XOM_R2OWSG MWD+IFR1+MS

1858.374	15.167	20.518	1849.547	6.502	0.000	6.486	0.000	3.092	0.000	0.000	6.670	6.463	91.111	XOM_R2OWSG MWD+IFR1+MS
1900.000	15.167	20.518	1889.723	6.655	0.000	6.636	0.000	3.123	0.000	0.000	6.820	6.612	90.982	XOM_R2OWSG MWD+IFR1+MS
2000.000	15.167	20.518	1986.240	7.026	0.000	6.999	0.000	3.212	0.000	0.000	7.179	6.974	90.192	XOM_R2OWSG MWD+IFR1+MS
2100.000	15.167	20.518	2082.756	7.401	0.000	7.364	0.000	3.305	0.000	0.000	7.541	7.338	89.445	XOM_R2OWSG MWD+IFR1+MS
2200.000	15.167	20.518	2179.273	7.778	0.000	7.732	0.000	3.402	0.000	0.000	7.906	7.704	88.740	XOM_R2OWSG MWD+IFR1+MS
2300.000	15.167	20.518	2275.789	8.158	0.000	8.102	0.000	3.503	0.000	0.000	8.273	8.072	88.074	XOM_R2OWSG MWD+IFR1+MS
2400.000	15.167	20.518	2372.306	8.540	0.000	8.474	0.000	3.606	0.000	0.000	8.643	8.443	87.445	XOM_R2OWSG MWD+IFR1+MS
2500.000	15.167	20.518	2468.822	8.924	0.000	8.847	0.000	3.713	0.000	0.000	9.014	8.815	86.851	XOM_R2OWSG MWD+IFR1+MS
2600.000	15.167	20.518	2565.339	9.309	0.000	9.222	0.000	3.823	0.000	0.000	9.387	9.188	86.291	XOM_R2OWSG MWD+IFR1+MS
2700.000	15.167	20.518	2661.856	9.696	0.000	9.598	0.000	3.935	0.000	0.000	9.762	9.563	85.763	XOM_R2OWSG MWD+IFR1+MS
2800.000	15.167	20.518	2758.372	10.085	0.000	9.975	0.000	4.050	0.000	0.000	10.138	9.939	85.264	XOM_R2OWSG MWD+IFR1+MS
2900.000	15.167	20.518	2854.889	10.474	0.000	10.353	0.000	4.168	0.000	0.000	10.515	10.315	84.794	XOM_R2OWSG MWD+IFR1+MS
3000.000	15.167	20.518	2951.405	10.865	0.000	10.732	0.000	4.287	0.000	0.000	10.893	10.693	84.351	XOM_R2OWSG MWD+IFR1+MS
3100.000	15.167	20.518	3047.922	11.256	0.000	11.112	0.000	4.409	0.000	0.000	11.272	11.071	83.933	XOM_R2OWSG MWD+IFR1+MS
3200.000	15.167	20.518	3144.438	11.649	0.000	11.492	0.000	4.532	0.000	0.000	11.652	11.450	83.538	XOM_R2OWSG MWD+IFR1+MS
3300.000	15.167	20.518	3240.955	12.042	0.000	11.873	0.000	4.658	0.000	0.000	12.033	11.830	83.166	XOM_R2OWSG MWD+IFR1+MS
3400.000	15.167	20.518	3337.471	12.435	0.000	12.255	0.000	4.785	0.000	0.000	12.414	12.211	82.816	XOM_R2OWSG MWD+IFR1+MS
3500.000	15.167	20.518	3433.988	12.830	0.000	12.637	0.000	4.914	0.000	0.000	12.796	12.591	82.486	XOM_R2OWSG MWD+IFR1+MS
3600.000	15.167	20.518	3530.504	13.225	0.000	13.020	0.000	5.045	0.000	0.000	13.179	12.973	82.175	XOM_R2OWSG MWD+IFR1+MS
3700.000	15.167	20.518	3627.021	13.620	0.000	13.403	0.000	5.178	0.000	0.000	13.562	13.355	81.882	XOM_R2OWSG MWD+IFR1+MS

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3800.000	15.167	20.518	3723.537	14.016	0.000	13.786	0.000	5.312	0.000	0.000	13.946	13.737	81.606	XOM_R2OWSG MWD+IFR1+MS
3900.000	15.167	20.518	3820.054	14.412	0.000	14.170	0.000	5.448	0.000	0.000	14.330	14.120	81.346	XOM_R2OWSG MWD+IFR1+MS
4000.000	15.167	20.518	3916.570	14.809	0.000	14.554	0.000	5.585	0.000	0.000	14.714	14.503	81.103	XOM_R2OWSG MWD+IFR1+MS
4100.000	15.167	20.518	4013.087	15.206	0.000	14.939	0.000	5.725	0.000	0.000	15.099	14.886	80.874	XOM_R2OWSG MWD+IFR1+MS
4200.000	15.167	20.518	4109.603	15.604	0.000	15.323	0.000	5.865	0.000	0.000	15.485	15.270	80.659	XOM_R2OWSG MWD+IFR1+MS
4300.000	15.167	20.518	4206.120	16.002	0.000	15.708	0.000	6.007	0.000	0.000	15.870	15.654	80.458	XOM_R2OWSG MWD+IFR1+MS
4400.000	15.167	20.518	4302.636	16.400	0.000	16.094	0.000	6.151	0.000	0.000	16.256	16.038	80.270	XOM_R2OWSG MWD+IFR1+MS
4500.000	15.167	20.518	4399.153	16.798	0.000	16.479	0.000	6.296	0.000	0.000	16.642	16.423	80.094	XOM_R2OWSG MWD+IFR1+MS
4600.000	15.167	20.518	4495.669	17.197	0.000	16.865	0.000	6.443	0.000	0.000	17.029	16.807	79.931	XOM_R2OWSG MWD+IFR1+MS
4700.000	15.167	20.518	4592.186	17.595	0.000	17.251	0.000	6.591	0.000	0.000	17.416	17.192	79.778	XOM_R2OWSG MWD+IFR1+MS
4800.000	15.167	20.518	4688.702	17.994	0.000	17.637	0.000	6.741	0.000	0.000	17.803	17.577	79.637	XOM_R2OWSG MWD+IFR1+MS
4900.000	15.167	20.518	4785.219	18.394	0.000	18.023	0.000	6.892	0.000	0.000	18.190	17.963	79.507	XOM_R2OWSG MWD+IFR1+MS
5000.000	15.167	20.518	4881.735	18.793	0.000	18.410	0.000	7.045	0.000	0.000	18.577	18.348	79.386	XOM_R2OWSG MWD+IFR1+MS
5100.000	15.167	20.518	4978.252	19.193	0.000	18.796	0.000	7.200	0.000	0.000	18.965	18.734	79.276	XOM_R2OWSG MWD+IFR1+MS
5200.000	15.167	20.518	5074.768	19.593	0.000	19.183	0.000	7.356	0.000	0.000	19.353	19.120	79.175	XOM_R2OWSG MWD+IFR1+MS
5300.000	15.167	20.518	5171.285	19.992	0.000	19.570	0.000	7.514	0.000	0.000	19.741	19.506	79.083	XOM_R2OWSG MWD+IFR1+MS
5400.000	15.167	20.518	5267.801	20.393	0.000	19.957	0.000	7.673	0.000	0.000	20.129	19.892	79.000	XOM_R2OWSG MWD+IFR1+MS
5500.000	15.167	20.518	5364.318	20.793	0.000	20.344	0.000	7.834	0.000	0.000	20.518	20.278	78.926	XOM_R2OWSG MWD+IFR1+MS
5600.000	15.167	20.518	5460.834	21.193	0.000	20.731	0.000	7.996	0.000	0.000	20.906	20.665	78.860	XOM_R2OWSG MWD+IFR1+MS
5700.000	15.167	20.518	5557.351	21.594	0.000	21.119	0.000	8.160	0.000	0.000	21.295	21.051	78.802	XOM_R2OWSG MWD+IFR1+MS

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5800.000	15.167	20.518	5653.867	21.994	0.000	21.506	0.000	8.326	0.000	0.000	21.684	21.438	78.753	XOM_R2OWSG MWD+IFR1+MS
5900.000	15.167	20.518	5750.384	22.395	0.000	21.894	0.000	8.493	0.000	0.000	22.073	21.824	78.711	XOM_R2OWSG MWD+IFR1+MS
6000.000	15.167	20.518	5846.901	22.796	0.000	22.281	0.000	8.663	0.000	0.000	22.462	22.211	78.676	XOM_R2OWSG MWD+IFR1+MS
6107.289	15.167	20.518	5950.453	23.226	0.000	22.697	0.000	8.846	0.000	0.000	22.879	22.627	78.643	XOM_R2OWSG MWD+IFR1+MS
6200.000	13.313	20.518	6040.310	23.621	0.000	23.054	0.000	9.005	0.000	0.000	23.238	22.983	78.612	XOM_R2OWSG MWD+IFR1+MS
6300.000	11.313	20.518	6138.005	24.014	0.000	23.433	0.000	9.173	0.000	0.000	23.618	23.361	78.653	XOM_R2OWSG MWD+IFR1+MS
6400.000	9.313	20.518	6236.384	24.371	0.000	23.804	0.000	9.335	0.000	0.000	23.991	23.732	78.794	XOM_R2OWSG MWD+IFR1+MS
6500.000	7.313	20.518	6335.329	24.692	0.000	24.168	0.000	9.490	0.000	0.000	24.357	24.096	78.979	XOM_R2OWSG MWD+IFR1+MS
6600.000	5.313	20.518	6434.717	24.977	0.000	24.524	0.000	9.641	0.000	0.000	24.715	24.452	79.147	XOM_R2OWSG MWD+IFR1+MS
6700.000	3.313	20.518	6534.429	25.224	0.000	24.872	0.000	9.786	0.000	0.000	25.065	24.800	79.247	XOM_R2OWSG MWD+IFR1+MS
6800.000	1.313	20.518	6634.342	25.434	0.000	25.212	0.000	9.927	0.000	0.000	25.405	25.140	79.233	XOM_R2OWSG MWD+IFR1+MS
6865.663	0.000	0.000	6700.000	25.613	0.000	25.368	0.000	10.018	0.000	0.000	25.623	25.358	79.083	XOM_R2OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6734.337	25.726	0.000	25.481	0.000	10.065	0.000	0.000	25.736	25.471	78.957	XOM_R2OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6834.337	26.056	0.000	25.811	0.000	10.203	0.000	0.000	26.066	25.801	78.598	XOM_R2OWSG MWD+IFR1+MS
7100.000	0.000	0.000	6934.337	26.386	0.000	26.142	0.000	10.345	0.000	0.000	26.397	26.131	78.249	XOM_R2OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7034.337	26.717	0.000	26.474	0.000	10.489	0.000	0.000	26.728	26.463	77.910	XOM_R2OWSG MWD+IFR1+MS
7300.000	0.000	0.000	7134.337	27.048	0.000	26.807	0.000	10.636	0.000	0.000	27.060	26.794	77.579	XOM_R2OWSG MWD+IFR1+MS
7400.000	0.000	0.000	7234.337	27.380	0.000	27.140	0.000	10.786	0.000	0.000	27.393	27.127	77.258	XOM_R2OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7334.337	27.713	0.000	27.474	0.000	10.939	0.000	0.000	27.727	27.460	76.945	XOM_R2OWSG MWD+IFR1+MS
7600.000	0.000	0.000	7434.337	28.046	0.000	27.808	0.000	11.095	0.000	0.000	28.061	27.794	76.640	XOM_R2OWSG MWD+IFR1+MS

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7700.000	0.000	0.000	7534.337	28.381	0.000	28.143	0.000	11.255	0.000	0.000	28.395	28.128	76.344	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7634.337	28.715	0.000	28.478	0.000	11.417	0.000	0.000	28.731	28.463	76.056	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7734.337	29.050	0.000	28.814	0.000	11.582	0.000	0.000	29.067	28.798	75.775	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7834.337	29.386	0.000	29.151	0.000	11.750	0.000	0.000	29.403	29.134	75.501	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7934.337	29.723	0.000	29.488	0.000	11.921	0.000	0.000	29.740	29.471	75.235	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	8034.337	30.059	0.000	29.826	0.000	12.096	0.000	0.000	30.077	29.808	74.976	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	8134.337	30.397	0.000	30.164	0.000	12.273	0.000	0.000	30.415	30.145	74.723	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	8234.337	30.734	0.000	30.503	0.000	12.454	0.000	0.000	30.754	30.483	74.476	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8334.337	31.073	0.000	30.842	0.000	12.637	0.000	0.000	31.093	30.821	74.236	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8434.337	31.411	0.000	31.181	0.000	12.824	0.000	0.000	31.432	31.160	74.002	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8534.337	31.751	0.000	31.521	0.000	13.014	0.000	0.000	31.772	31.500	73.774	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8634.337	32.090	0.000	31.861	0.000	13.207	0.000	0.000	32.112	31.839	73.552	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8734.337	32.430	0.000	32.202	0.000	13.403	0.000	0.000	32.453	32.179	73.335	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8834.337	32.770	0.000	32.543	0.000	13.603	0.000	0.000	32.793	32.520	73.123	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8934.337	33.111	0.000	32.884	0.000	13.805	0.000	0.000	33.135	32.861	72.916	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	9034.337	33.452	0.000	33.226	0.000	14.011	0.000	0.000	33.477	33.202	72.714	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	9134.337	33.794	0.000	33.568	0.000	14.220	0.000	0.000	33.819	33.543	72.518	XOM_R2OWSG MWD+IFR1+MS
9400.000	0.000	0.000	9234.337	34.136	0.000	33.911	0.000	14.432	0.000	0.000	34.161	33.885	72.325	XOM_R2OWSG MWD+IFR1+MS
9500.000	0.000	0.000	9334.337	34.478	0.000	34.254	0.000	14.648	0.000	0.000	34.504	34.227	72.138	XOM_R2OWSG MWD+IFR1+MS
9600.000	0.000	0.000	9434.337	34.820	0.000	34.597	0.000	14.866	0.000	0.000	34.847	34.570	71.954	XOM_R2OWSG MWD+IFR1+MS

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9700.000	0.000	0.000	9534.337	35.163	0.000	34.940	0.000	15.088	0.000	0.000	35.190	34.913	71.775	XOM_R2OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9634.337	35.506	0.000	35.284	0.000	15.313	0.000	0.000	35.534	35.256	71.600	XOM_R2OWSG MWD+IFR1+MS
9900.000	0.000	0.000	9734.337	35.850	0.000	35.628	0.000	15.541	0.000	0.000	35.878	35.600	71.429	XOM_R2OWSG MWD+IFR1+MS
10000.000	0.000	0.000	9834.337	36.193	0.000	35.972	0.000	15.773	0.000	0.000	36.222	35.943	71.262	XOM_R2OWSG MWD+IFR1+MS
10100.000	0.000	0.000	9934.337	36.537	0.000	36.317	0.000	16.007	0.000	0.000	36.567	36.287	71.099	XOM_R2OWSG MWD+IFR1+MS
10200.000	0.000	0.000	10034.337	36.882	0.000	36.662	0.000	16.245	0.000	0.000	36.911	36.632	70.939	XOM_R2OWSG MWD+IFR1+MS
10300.000	0.000	0.000	10134.337	37.226	0.000	37.007	0.000	16.486	0.000	0.000	37.256	36.976	70.783	XOM_R2OWSG MWD+IFR1+MS
10400.000	0.000	0.000	10234.337	37.571	0.000	37.352	0.000	16.731	0.000	0.000	37.602	37.321	70.630	XOM_R2OWSG MWD+IFR1+MS
10500.000	0.000	0.000	10334.337	37.916	0.000	37.698	0.000	16.978	0.000	0.000	37.947	37.666	70.480	XOM_R2OWSG MWD+IFR1+MS
10600.000	0.000	0.000	10434.337	38.261	0.000	38.043	0.000	17.229	0.000	0.000	38.293	38.011	70.334	XOM_R2OWSG MWD+IFR1+MS
10700.000	0.000	0.000	10534.337	38.607	0.000	38.390	0.000	17.483	0.000	0.000	38.639	38.357	70.191	XOM_R2OWSG MWD+IFR1+MS
10800.000	0.000	0.000	10634.337	38.953	0.000	38.736	0.000	17.740	0.000	0.000	38.985	38.703	70.051	XOM_R2OWSG MWD+IFR1+MS
10900.000	0.000	0.000	10734.337	39.299	0.000	39.082	0.000	18.001	0.000	0.000	39.332	39.049	69.913	XOM_R2OWSG MWD+IFR1+MS
11000.000	0.000	0.000	10834.337	39.645	0.000	39.429	0.000	18.265	0.000	0.000	39.679	39.395	69.779	XOM_R2OWSG MWD+IFR1+MS
11100.000	0.000	0.000	10934.337	39.991	0.000	39.776	0.000	18.531	0.000	0.000	40.026	39.742	69.647	XOM_R2OWSG MWD+IFR1+MS
11200.000	0.000	0.000	11034.337	40.338	0.000	40.123	0.000	18.802	0.000	0.000	40.373	40.088	69.518	XOM_R2OWSG MWD+IFR1+MS
11300.000	0.000	0.000	11134.337	40.685	0.000	40.470	0.000	19.075	0.000	0.000	40.720	40.435	69.392	XOM_R2OWSG MWD+IFR1+MS
11400.000	0.000	0.000	11234.337	41.032	0.000	40.818	0.000	19.352	0.000	0.000	41.067	40.782	69.268	XOM_R2OWSG MWD+IFR1+MS
11500.000	0.000	0.000	11334.337	41.379	0.000	41.166	0.000	19.632	0.000	0.000	41.415	41.129	69.147	XOM_R2OWSG MWD+IFR1+MS
11600.000	0.000	0.000	11434.337	41.727	0.000	41.514	0.000	19.915	0.000	0.000	41.763	41.477	69.028	XOM_R2OWSG MWD+IFR1+MS

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11700.000	0.000	0.000	11534.337	42.074	0.000	41.862	0.000	20.201	0.000	0.000	42.111	41.825	68.911	XOM_R2OWSG MWD+IFR1+MS
11800.000	0.000	0.000	11634.337	42.422	0.000	42.210	0.000	20.491	0.000	0.000	42.459	42.172	68.797	XOM_R2OWSG MWD+IFR1+MS
11900.000	0.000	0.000	11734.337	42.770	0.000	42.558	0.000	20.784	0.000	0.000	42.808	42.520	68.684	XOM_R2OWSG MWD+IFR1+MS
12000.000	0.000	0.000	11834.337	43.118	0.000	42.907	0.000	21.080	0.000	0.000	43.156	42.868	68.574	XOM_R2OWSG MWD+IFR1+MS
12100.000	0.000	0.000	11934.337	43.466	0.000	43.256	0.000	21.379	0.000	0.000	43.505	43.217	68.466	XOM_R2OWSG MWD+IFR1+MS
12205.466	0.000	0.000	12039.803	43.834	0.000	43.624	0.000	21.698	0.000	0.000	43.873	43.584	68.355	XOM_R2OWSG MWD+IFR1+MS
12300.000	7.563	179.905	12134.062	43.320	0.000	43.930	-0.000	21.981	0.000	0.000	44.175	43.889	67.658	XOM_R2OWSG MWD+IFR1+MS
12400.000	15.563	179.905	12231.953	42.126	0.000	44.219	-0.000	22.269	0.000	0.000	44.449	44.173	65.791	XOM_R2OWSG MWD+IFR1+MS
12500.000	23.563	179.905	12326.104	40.330	0.000	44.481	-0.000	22.539	0.000	0.000	44.687	44.426	62.613	XOM_R2OWSG MWD+IFR1+MS
12600.000	31.563	179.905	12414.683	38.016	0.000	44.714	-0.000	22.791	0.000	0.000	44.889	44.644	57.727	XOM_R2OWSG MWD+IFR1+MS
12700.000	39.563	179.905	12495.965	35.301	0.000	44.915	-0.000	23.024	0.000	0.000	45.055	44.822	50.935	XOM_R2OWSG MWD+IFR1+MS
12800.000	47.563	179.905	12568.368	32.348	0.000	45.083	-0.000	23.242	0.000	0.000	45.190	44.958	42.737	XOM_R2OWSG MWD+IFR1+MS
12900.000	55.563	179.905	12630.483	29.382	0.000	45.217	-0.000	23.449	0.000	0.000	45.296	45.050	34.517	XOM_R2OWSG MWD+IFR1+MS
13000.000	63.563	179.905	12681.102	26.702	0.000	45.317	-0.000	23.651	0.000	0.000	45.375	45.105	27.573	XOM_R2OWSG MWD+IFR1+MS
13100.000	71.563	179.905	12719.238	24.681	0.000	45.383	-0.000	23.853	0.000	0.000	45.426	45.132	22.293	XOM_R2OWSG MWD+IFR1+MS
13200.000	79.563	179.905	12744.150	23.699	0.000	45.416	-0.000	24.061	0.000	0.000	45.447	45.143	18.456	XOM_R2OWSG MWD+IFR1+MS
13300.000	87.563	179.905	12755.352	23.998	0.000	45.415	-0.000	24.278	0.000	0.000	45.436	45.149	15.774	XOM_R2OWSG MWD+IFR1+MS
13330.466	90.000	179.905	12756.000	24.346	0.000	45.407	-0.000	24.346	0.000	0.000	45.426	45.152	15.216	XOM_R2OWSG MWD+IFR1+MS
13400.000	90.000	179.905	12756.000	24.507	0.000	45.390	-0.000	24.507	0.000	0.000	45.404	45.158	13.577	XOM_R2OWSG MWD+IFR1+MS
13500.000	90.000	179.905	12756.000	24.759	0.000	45.378	-0.000	24.759	0.000	0.000	45.384	45.168	9.879	XOM_R2OWSG MWD+IFR1+MS

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13600.000	90.000	179.905	12756.000	25.034	0.000	45.378	-0.000	25.034	0.000	45.380	45.176	4.830	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	179.905	12756.000	25.329	0.000	45.392	-0.000	25.329	0.000	45.392	45.181	-0.647	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	179.905	12756.000	25.645	0.000	45.418	-0.000	25.645	0.000	45.420	45.184	-5.335	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	179.905	12756.000	25.981	0.000	45.457	-0.000	25.981	0.000	45.463	45.185	-8.640	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	179.905	12756.000	26.336	0.000	45.509	-0.000	26.336	0.000	45.520	45.185	-10.661	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	179.905	12756.000	26.710	0.000	45.573	-0.000	26.710	0.000	45.590	45.187	-11.743	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	179.905	12756.000	27.101	0.000	45.651	-0.000	27.101	0.000	45.672	45.189	-12.206	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	179.905	12756.000	27.509	0.000	45.741	-0.000	27.509	0.000	45.766	45.193	-12.283	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	179.905	12756.000	27.933	0.000	45.843	-0.000	27.933	0.000	45.873	45.198	-12.126	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	179.905	12756.000	28.372	0.000	45.958	-0.000	28.372	0.000	45.991	45.204	-11.832	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	179.905	12756.000	28.826	0.000	46.086	-0.000	28.826	0.000	46.121	45.212	-11.463	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	179.905	12756.000	29.294	0.000	46.226	-0.000	29.294	0.000	46.263	45.220	-11.057	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	179.905	12756.000	29.775	0.000	46.378	-0.000	29.775	0.000	46.417	45.230	-10.639	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	179.905	12756.000	30.269	0.000	46.542	-0.000	30.269	0.000	46.583	45.240	-10.223	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	179.905	12756.000	30.775	0.000	46.718	-0.000	30.775	0.000	46.760	45.252	-9.819	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	179.905	12756.000	31.293	0.000	46.905	-0.000	31.293	0.000	46.949	45.264	-9.430	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	179.905	12756.000	31.822	0.000	47.105	-0.000	31.822	0.000	47.149	45.278	-9.059	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	179.905	12756.000	32.360	0.000	47.316	-0.000	32.360	0.000	47.361	45.292	-8.708	XOM_R2OWSG MWD+IFR1+MS
15400.000	90.000	179.905	12756.000	32.909	0.000	47.538	-0.000	32.909	0.000	47.584	45.307	-8.377	XOM_R2OWSG MWD+IFR1+MS
15500.000	90.000	179.905	12756.000	33.468	0.000	47.772	-0.000	33.468	0.000	47.818	45.323	-8.065	XOM_R2OWSG MWD+IFR1+MS

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15600.000	90.000	179.905	12756.000	34.035	0.000	48.016	-0.000	34.035	0.000	0.000	48.063	45.340	-7.771	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	179.905	12756.000	34.610	0.000	48.272	-0.000	34.610	0.000	0.000	48.319	45.357	-7.495	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	179.905	12756.000	35.194	0.000	48.538	-0.000	35.194	0.000	0.000	48.586	45.376	-7.236	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	179.905	12756.000	35.786	0.000	48.814	-0.000	35.786	0.000	0.000	48.862	45.395	-6.992	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	179.905	12756.000	36.384	0.000	49.101	-0.000	36.384	0.000	0.000	49.150	45.415	-6.762	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	179.905	12756.000	36.990	0.000	49.398	-0.000	36.990	0.000	0.000	49.447	45.435	-6.545	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	179.905	12756.000	37.602	0.000	49.706	-0.000	37.602	0.000	0.000	49.754	45.457	-6.341	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	179.905	12756.000	38.221	0.000	50.022	-0.000	38.221	0.000	0.000	50.071	45.479	-6.149	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	179.905	12756.000	38.846	0.000	50.349	-0.000	38.846	0.000	0.000	50.398	45.502	-5.967	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	179.905	12756.000	39.476	0.000	50.685	-0.000	39.476	0.000	0.000	50.734	45.525	-5.794	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	179.905	12756.000	40.112	0.000	51.030	-0.000	40.112	0.000	0.000	51.079	45.550	-5.631	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	179.905	12756.000	40.753	0.000	51.384	-0.000	40.753	0.000	0.000	51.433	45.575	-5.477	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	179.905	12756.000	41.399	0.000	51.748	-0.000	41.399	0.000	0.000	51.796	45.601	-5.330	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	179.905	12756.000	42.050	0.000	52.119	-0.000	42.050	0.000	0.000	52.168	45.627	-5.191	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	179.905	12756.000	42.705	0.000	52.500	-0.000	42.705	0.000	0.000	52.548	45.654	-5.059	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	179.905	12756.000	43.364	0.000	52.888	-0.000	43.364	0.000	0.000	52.936	45.682	-4.933	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	179.905	12756.000	44.028	0.000	53.285	-0.000	44.028	0.000	0.000	53.333	45.711	-4.813	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	179.905	12756.000	44.695	0.000	53.690	-0.000	44.695	0.000	0.000	53.738	45.741	-4.699	XOM_R2OWSG MWD+IFR1+MS
17400.000	90.000	179.905	12756.000	45.367	0.000	54.102	-0.000	45.367	0.000	0.000	54.150	45.771	-4.590	XOM_R2OWSG MWD+IFR1+MS
17500.000	90.000	179.905	12756.000	46.042	0.000	54.523	-0.000	46.042	0.000	0.000	54.570	45.802	-4.485	XOM_R2OWSG MWD+IFR1+MS

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17600.000	90.000	179.905	12756.000	46.720	0.000	54.950	-0.000	46.720	0.000	54.997	45.833	-4.386	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	179.905	12756.000	47.402	0.000	55.385	-0.000	47.402	0.000	55.432	45.865	-4.290	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	179.905	12756.000	48.086	0.000	55.827	-0.000	48.086	0.000	55.873	45.898	-4.199	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	179.905	12756.000	48.774	0.000	56.276	-0.000	48.774	0.000	56.322	45.932	-4.111	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	179.905	12756.000	49.465	0.000	56.731	-0.000	49.465	0.000	56.777	45.967	-4.027	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	179.905	12756.000	50.158	0.000	57.193	-0.000	50.158	0.000	57.239	46.002	-3.946	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	179.905	12756.000	50.854	0.000	57.662	-0.000	50.854	0.000	57.707	46.037	-3.869	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	179.905	12756.000	51.553	0.000	58.137	-0.000	51.553	0.000	58.182	46.074	-3.794	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	179.905	12756.000	52.254	0.000	58.618	-0.000	52.254	0.000	58.663	46.111	-3.723	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	179.905	12756.000	52.957	0.000	59.105	-0.000	52.957	0.000	59.149	46.149	-3.654	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	179.905	12756.000	53.663	0.000	59.597	-0.000	53.663	0.000	59.642	46.187	-3.587	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	179.905	12756.000	54.371	0.000	60.096	-0.000	54.371	0.000	60.140	46.227	-3.523	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	179.905	12756.000	55.081	0.000	60.600	-0.000	55.081	0.000	60.644	46.267	-3.461	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	179.905	12756.000	55.793	0.000	61.109	-0.000	55.793	0.000	61.153	46.307	-3.401	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	179.905	12756.000	56.507	0.000	61.624	-0.000	56.507	0.000	61.667	46.348	-3.344	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	179.905	12756.000	57.222	0.000	62.144	-0.000	57.222	0.000	62.187	46.390	-3.288	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	179.905	12756.000	57.940	0.000	62.669	-0.000	57.940	0.000	62.711	46.433	-3.234	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	179.905	12756.000	58.659	0.000	63.198	-0.000	58.659	0.000	63.241	46.476	-3.182	XOM_R2OWSG MWD+IFR1+MS
19400.000	90.000	179.905	12756.000	59.380	0.000	63.733	-0.000	59.380	0.000	63.775	46.520	-3.132	XOM_R2OWSG MWD+IFR1+MS
19500.000	90.000	179.905	12756.000	60.102	0.000	64.272	-0.000	60.102	0.000	64.314	46.565	-3.083	XOM_R2OWSG MWD+IFR1+MS

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19600.000	90.000	179.905	12756.000	60.826	0.000	64.816	-0.000	60.826	0.000	64.857	46.610	-3.035	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	179.905	12756.000	61.552	0.000	65.364	-0.000	61.552	0.000	65.405	46.656	-2.990	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	179.905	12756.000	62.279	0.000	65.916	-0.000	62.279	0.000	65.957	46.703	-2.945	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	179.905	12756.000	63.007	0.000	66.473	-0.000	63.007	0.000	66.513	46.750	-2.902	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	179.905	12756.000	63.737	0.000	67.034	-0.000	63.737	0.000	67.074	46.798	-2.860	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	179.905	12756.000	64.468	0.000	67.598	-0.000	64.468	0.000	67.638	46.847	-2.819	XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	179.905	12756.000	65.200	0.000	68.167	-0.000	65.200	0.000	68.207	46.896	-2.780	XOM_R2OWSG MWD+IFR1+MS
20300.000	90.000	179.905	12756.000	65.934	0.000	68.740	-0.000	65.934	0.000	68.779	46.946	-2.742	XOM_R2OWSG MWD+IFR1+MS
20400.000	90.000	179.905	12756.000	66.668	0.000	69.316	-0.000	66.668	0.000	69.355	46.996	-2.704	XOM_R2OWSG MWD+IFR1+MS
20500.000	90.000	179.905	12756.000	67.404	0.000	69.895	-0.000	67.404	0.000	69.934	47.048	-2.668	XOM_R2OWSG MWD+IFR1+MS
20600.000	90.000	179.905	12756.000	68.141	0.000	70.479	-0.000	68.141	0.000	70.517	47.100	-2.633	XOM_R2OWSG MWD+IFR1+MS
20700.000	90.000	179.905	12756.000	68.879	0.000	71.065	-0.000	68.879	0.000	71.103	47.152	-2.598	XOM_R2OWSG MWD+IFR1+MS
20800.000	90.000	179.905	12756.000	69.618	0.000	71.655	-0.000	69.618	0.000	71.693	47.205	-2.565	XOM_R2OWSG MWD+IFR1+MS
20900.000	90.000	179.905	12756.000	70.358	0.000	72.249	-0.000	70.358	0.000	72.286	47.259	-2.532	XOM_R2OWSG MWD+IFR1+MS
21000.000	90.000	179.905	12756.000	71.098	0.000	72.845	-0.000	71.098	0.000	72.882	47.313	-2.501	XOM_R2OWSG MWD+IFR1+MS
21100.000	90.000	179.905	12756.000	71.840	0.000	73.445	-0.000	71.840	0.000	73.482	47.369	-2.470	XOM_R2OWSG MWD+IFR1+MS
21200.000	90.000	179.905	12756.000	72.583	0.000	74.048	-0.000	72.583	0.000	74.084	47.424	-2.440	XOM_R2OWSG MWD+IFR1+MS
21300.000	90.000	179.905	12756.000	73.327	0.000	74.653	-0.000	73.327	0.000	74.689	47.481	-2.410	XOM_R2OWSG MWD+IFR1+MS
21400.000	90.000	179.905	12756.000	74.071	0.000	75.262	-0.000	74.071	0.000	75.298	47.537	-2.382	XOM_R2OWSG MWD+IFR1+MS
21500.000	90.000	179.905	12756.000	74.816	0.000	75.873	-0.000	74.816	0.000	75.909	47.595	-2.354	XOM_R2OWSG MWD+IFR1+MS

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21600.000	90.000	179.905	12756.000	75.562	0.000	76.487	-0.000	75.562	0.000	76.523	47.653	-2.326	XOM_R2OWSG MWD+IFR1+MS
21700.000	90.000	179.905	12756.000	76.309	0.000	77.104	-0.000	76.309	0.000	77.139	47.712	-2.300	XOM_R2OWSG MWD+IFR1+MS
21800.000	90.000	179.905	12756.000	77.057	0.000	77.723	-0.000	77.057	0.000	77.758	47.772	-2.274	XOM_R2OWSG MWD+IFR1+MS
21900.000	90.000	179.905	12756.000	77.805	0.000	78.345	-0.000	77.805	0.000	78.380	47.832	-2.248	XOM_R2OWSG MWD+IFR1+MS
22000.000	90.000	179.905	12756.000	78.554	0.000	78.970	-0.000	78.554	0.000	79.004	47.892	-2.223	XOM_R2OWSG MWD+IFR1+MS
22100.000	90.000	179.905	12756.000	79.304	0.000	79.597	-0.000	79.304	0.000	79.631	47.954	-2.199	XOM_R2OWSG MWD+IFR1+MS
22200.000	90.000	179.905	12756.000	80.054	0.000	80.226	-0.000	80.054	0.000	80.260	48.015	-2.175	XOM_R2OWSG MWD+IFR1+MS
22300.000	90.000	179.905	12756.000	80.805	0.000	80.858	-0.000	80.805	0.000	80.891	48.078	-2.152	XOM_R2OWSG MWD+IFR1+MS
22400.000	90.000	179.905	12756.000	81.557	0.000	81.492	-0.000	81.557	0.000	81.525	48.141	-2.129	XOM_R2OWSG MWD+IFR1+MS
22500.000	90.000	179.905	12756.000	82.309	0.000	82.128	-0.000	82.309	0.000	82.161	48.205	-2.107	XOM_R2OWSG MWD+IFR1+MS
22600.000	90.000	179.905	12756.000	83.062	0.000	82.766	-0.000	83.062	0.000	82.799	48.269	-2.085	XOM_R2OWSG MWD+IFR1+MS
22700.000	90.000	179.905	12756.000	83.816	0.000	83.407	-0.000	83.816	0.000	83.439	48.334	-2.064	XOM_R2OWSG MWD+IFR1+MS
22800.000	90.000	179.905	12756.000	84.570	0.000	84.049	-0.000	84.570	0.000	84.082	48.400	-2.043	XOM_R2OWSG MWD+IFR1+MS
22900.000	90.000	179.905	12756.000	85.324	0.000	84.694	-0.000	85.324	0.000	84.726	48.466	-2.023	XOM_R2OWSG MWD+IFR1+MS
23000.000	90.000	179.905	12756.000	86.080	0.000	85.340	-0.000	86.080	0.000	85.372	48.532	-2.003	XOM_R2OWSG MWD+IFR1+MS
23100.000	90.000	179.905	12756.000	86.835	0.000	85.989	-0.000	86.835	0.000	86.020	48.600	-1.983	XOM_R2OWSG MWD+IFR1+MS
23200.000	90.000	179.905	12756.000	87.591	0.000	86.639	-0.000	87.591	0.000	86.671	48.667	-1.964	XOM_R2OWSG MWD+IFR1+MS
23300.000	90.000	179.905	12756.000	88.348	0.000	87.291	-0.000	88.348	0.000	87.323	48.736	-1.946	XOM_R2OWSG MWD+IFR1+MS
23400.000	90.000	179.905	12756.000	89.105	0.000	87.945	-0.000	89.105	0.000	87.976	48.805	-1.927	XOM_R2OWSG MWD+IFR1+MS
23500.000	90.000	179.905	12756.000	89.863	0.000	88.601	-0.000	89.863	0.000	88.632	48.874	-1.909	XOM_R2OWSG MWD+IFR1+MS

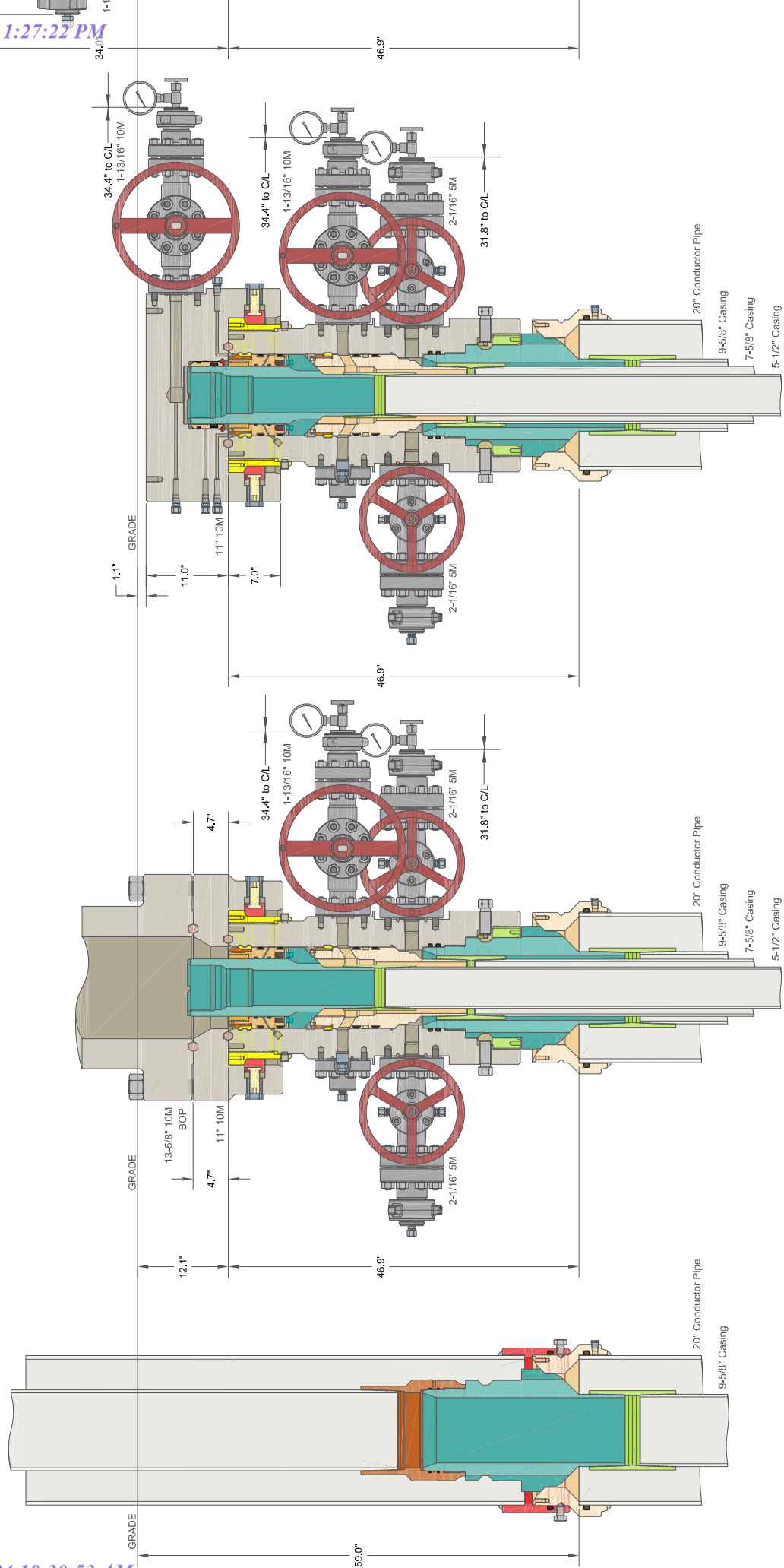
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Well Plan Report													
23600.000	90.000	179.905	12756.000	90.621	0.000	89.259	-0.000	90.621	0.000	89.289	48.945	-1.891	XOM_R2OWSG MWD+IFR1+MS
23700.000	90.000	179.905	12756.000	91.380	0.000	89.918	-0.000	91.380	0.000	89.948	49.015	-1.874	XOM_R2OWSG MWD+IFR1+MS
23800.000	90.000	179.905	12756.000	92.139	0.000	90.579	-0.000	92.139	0.000	90.609	49.087	-1.857	XOM_R2OWSG MWD+IFR1+MS
23900.000	90.000	179.905	12756.000	92.898	0.000	91.241	-0.000	92.898	0.000	91.271	49.159	-1.840	XOM_R2OWSG MWD+IFR1+MS
24000.000	90.000	179.905	12756.000	93.658	0.000	91.905	-0.000	93.658	0.000	91.935	49.231	-1.824	XOM_R2OWSG MWD+IFR1+MS
24100.000	90.000	179.905	12756.000	94.418	0.000	92.571	-0.000	94.418	0.000	92.600	49.304	-1.808	XOM_R2OWSG MWD+IFR1+MS
24200.000	90.000	179.905	12756.000	95.179	0.000	93.238	-0.000	95.179	0.000	93.267	49.378	-1.792	XOM_R2OWSG MWD+IFR1+MS
24300.000	90.000	179.905	12756.000	95.940	0.000	93.907	-0.000	95.940	0.000	93.936	49.452	-1.776	XOM_R2OWSG MWD+IFR1+MS
24400.000	90.000	179.905	12756.000	96.701	0.000	94.577	-0.000	96.701	0.000	94.606	49.526	-1.761	XOM_R2OWSG MWD+IFR1+MS
24500.000	90.000	179.905	12756.000	97.463	0.000	95.248	-0.000	97.463	0.000	95.277	49.602	-1.746	XOM_R2OWSG MWD+IFR1+MS
24600.000	90.000	179.905	12756.000	98.225	0.000	95.921	-0.000	98.225	0.000	95.950	49.678	-1.732	XOM_R2OWSG MWD+IFR1+MS
24700.000	90.000	179.905	12756.000	98.988	0.000	96.595	-0.000	98.988	0.000	96.624	49.754	-1.717	XOM_R2OWSG MWD+IFR1+MS
24800.000	90.000	179.905	12756.000	99.751	0.000	97.271	-0.000	99.751	0.000	97.299	49.831	-1.703	XOM_R2OWSG MWD+IFR1+MS
24900.000	90.000	179.905	12756.000	100.514	0.000	97.948	-0.000	100.514	0.000	97.976	49.908	-1.689	XOM_R2OWSG MWD+IFR1+MS
25000.000	90.000	179.905	12756.000	101.277	0.000	98.626	-0.000	101.277	0.000	98.654	49.986	-1.675	XOM_R2OWSG MWD+IFR1+MS
25100.000	90.000	179.905	12756.000	102.041	0.000	99.305	-0.000	102.041	0.000	99.333	50.065	-1.662	XOM_R2OWSG MWD+IFR1+MS
25200.000	90.000	179.905	12756.000	102.805	0.000	99.986	-0.000	102.805	0.000	100.014	50.144	-1.649	XOM_R2OWSG MWD+IFR1+MS
25300.000	90.000	179.905	12756.000	103.570	0.000	100.668	-0.000	103.570	0.000	100.695	50.223	-1.636	XOM_R2OWSG MWD+IFR1+MS
25400.000	90.000	179.905	12756.000	104.335	0.000	101.351	-0.000	104.335	0.000	101.378	50.303	-1.623	XOM_R2OWSG MWD+IFR1+MS
25500.000	90.000	179.905	12756.000	105.100	0.000	102.035	-0.000	105.100	0.000	102.062	50.384	-1.610	XOM_R2OWSG MWD+IFR1+MS

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Well Plan Report													
25600.000	90.000	179.905	12756.000	105.865	0.000	102.721	-0.000	105.865	0.000	102.747	50.465	-1.598	XOM_R2OWSG MWD+IFR1+MS
25700.000	90.000	179.905	12756.000	106.631	0.000	103.407	-0.000	106.631	0.000	103.434	50.547	-1.586	XOM_R2OWSG MWD+IFR1+MS
25800.000	90.000	179.905	12756.000	107.397	0.000	104.094	-0.000	107.397	0.000	104.121	50.629	-1.574	XOM_R2OWSG MWD+IFR1+MS
25900.000	90.000	179.905	12756.000	108.163	0.000	104.783	-0.000	108.163	0.000	104.809	50.712	-1.562	XOM_R2OWSG MWD+IFR1+MS
26000.000	90.000	179.905	12756.000	108.929	0.000	105.473	-0.000	108.929	0.000	105.499	50.795	-1.550	XOM_R2OWSG MWD+IFR1+MS
26100.000	90.000	179.905	12756.000	109.696	0.000	106.163	-0.000	109.696	0.000	106.189	50.879	-1.539	XOM_R2OWSG MWD+IFR1+MS
26200.000	90.000	179.905	12756.000	110.463	0.000	106.855	-0.000	110.463	0.000	106.881	50.963	-1.528	XOM_R2OWSG MWD+IFR1+MS
26300.000	90.000	179.905	12756.000	111.230	0.000	107.548	-0.000	111.230	0.000	107.573	51.048	-1.517	XOM_R2OWSG MWD+IFR1+MS
26400.000	90.000	179.905	12756.000	111.998	0.000	108.241	-0.000	111.998	0.000	108.267	51.133	-1.506	XOM_R2OWSG MWD+IFR1+MS
26500.000	90.000	179.905	12756.000	112.765	0.000	108.936	-0.000	112.765	0.000	108.961	51.219	-1.495	XOM_R2OWSG MWD+IFR1+MS
26600.000	90.000	179.905	12756.000	113.533	0.000	109.632	-0.000	113.533	0.000	109.657	51.305	-1.484	XOM_R2OWSG MWD+IFR1+MS
26700.000	90.000	179.905	12756.000	114.301	0.000	110.328	-0.000	114.301	0.000	110.353	51.392	-1.474	XOM_R2OWSG MWD+IFR1+MS
26800.000	90.000	179.905	12756.000	115.070	0.000	111.025	-0.000	115.070	0.000	111.050	51.479	-1.464	XOM_R2OWSG MWD+IFR1+MS
26900.000	90.000	179.905	12756.000	115.838	0.000	111.723	-0.000	115.838	0.000	111.748	51.567	-1.453	XOM_R2OWSG MWD+IFR1+MS
27000.000	90.000	179.905	12756.000	116.607	0.000	112.423	-0.000	116.607	0.000	112.447	51.655	-1.443	XOM_R2OWSG MWD+IFR1+MS
27100.000	90.000	179.905	12756.000	117.376	0.000	113.122	-0.000	117.376	0.000	113.147	51.744	-1.434	XOM_R2OWSG MWD+IFR1+MS
27200.000	90.000	179.905	12756.000	118.146	0.000	113.823	-0.000	118.146	0.000	113.847	51.833	-1.424	XOM_R2OWSG MWD+IFR1+MS
27250.786	90.000	179.905	12756.000	118.536	0.000	114.179	-0.000	118.536	0.000	114.203	51.879	-1.419	XOM_R2OWSG MWD+IFR1+MS
27300.000	90.000	179.905	12756.000	118.915	0.000	114.524	-0.000	118.915	0.000	114.548	51.923	-1.414	XOM_R2OWSG MWD+IFR1+MS
27327.336	90.000	179.905	12756.000	119.125	0.000	114.716	-0.000	119.125	0.000	114.740	51.947	-1.412	XOM_R2OWSG MWD+IFR1+MS

Plan Targets		PLU 22-3 BS 124H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
LTP 124H	27250.79	390696.40	674187.50	9382.00	CIRCLE
BHL 124H	27326.89	390620.30	674187.80	9382.00	CIRCLE
FTP 124H	13330.46	404616.70	674164.30	9382.00	CIRCLE





U. S. Steel Tubular Products

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5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®



MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®		--
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	Pipe	USS-FREEDOM HTQ®		--
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-FREEDOM HTQ®		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	--
PERFORMANCE	Pipe	USS-FREEDOM HTQ®		--
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length [4]	--	21,370	ft	--
Maximum Uniaxial Bend Rating [2]	--	91.7	deg/100 ft	--
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ®		--
Make-Up Loss	--	4.13	in.	--
Minimum Make-Up Torque [3]	--	15,000	ft-lb	--
Maximum Make-Up Torque [3]	--	21,000	ft-lb	--
Maximum Operating Torque[3]	--	29,500	ft-lb	--

UNCONTROLLED

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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U. S. Steel Tubular Products

11/29/2021 4:16:04 PM

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD



MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		--
Outside Diameter	5.500	5.900	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-TALON HTQ™ RD		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		--
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length	--	21,370	ft	[5]
Maximum Uniaxial Bend Rating	--	91.7	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		--
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	17,000	ft-lb	[4]
Maximum Make-Up Torque	--	20,000	ft-lb	[4]
Maximum Operating Torque	--	39,500	ft-lb	[4]

UNCONTROLLED

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

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10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per 43.CFR.3172 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- a. Sound alarm (alert crew)
- b. Stab crossover and full-opening safety valve and close
- c. Space out string
- d. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- e. Confirm shut-in
- f. Notify toolpusher/company representative
- g. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- h. Regroup and identify forward plan
- i. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time

- h. Regroup and identify forward plan
 - 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

**BLACK GOLD®**

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NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER: NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#: 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N: IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION: RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES

SALES ORDER #: 529480
QUANTITY: 1
SERIAL #: 74621 H3-012524-1

SIGNATURE: _____

F. Cismos

TITLE: _____

QUALITY ASSURANCE

DATE: _____

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold:	900.00	sec
---------------------	--------	-----

Length difference: 0.00 %

Length difference: 0.00 inch

Visual check:

Pressure test result: PASS

Length measurement result:

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

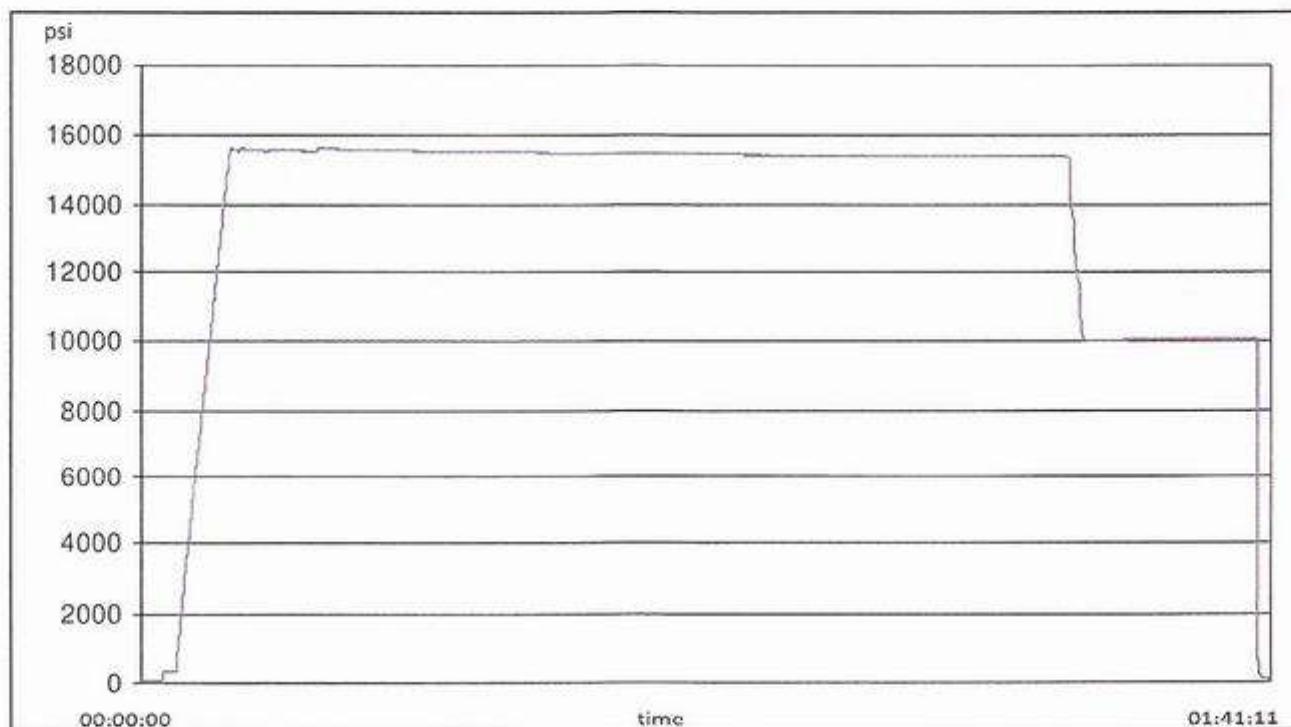
Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

Length: 45 feet

Test operator: Travis





H3-15/16

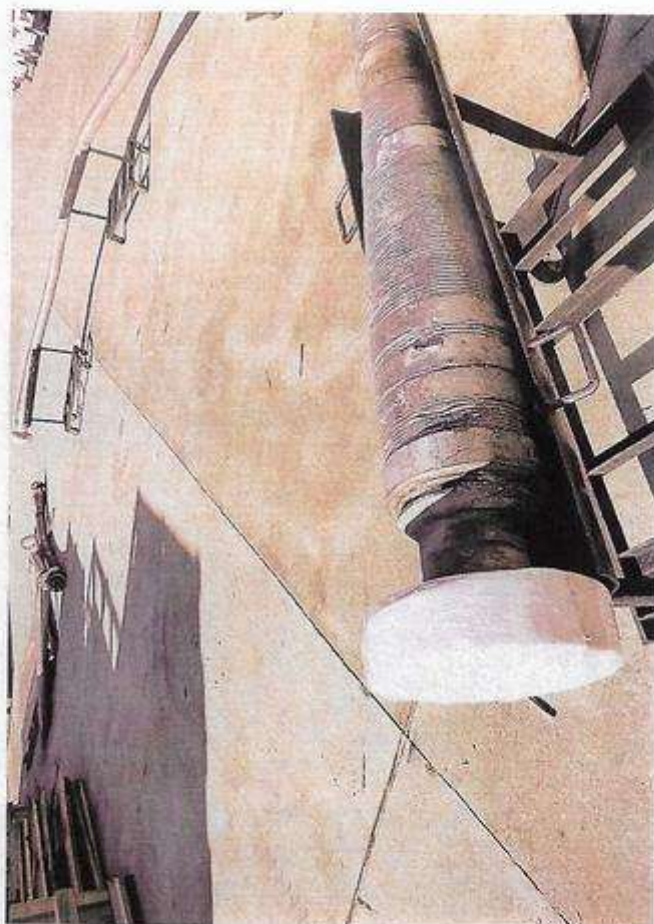
1/25/2024 11:48:06 AM

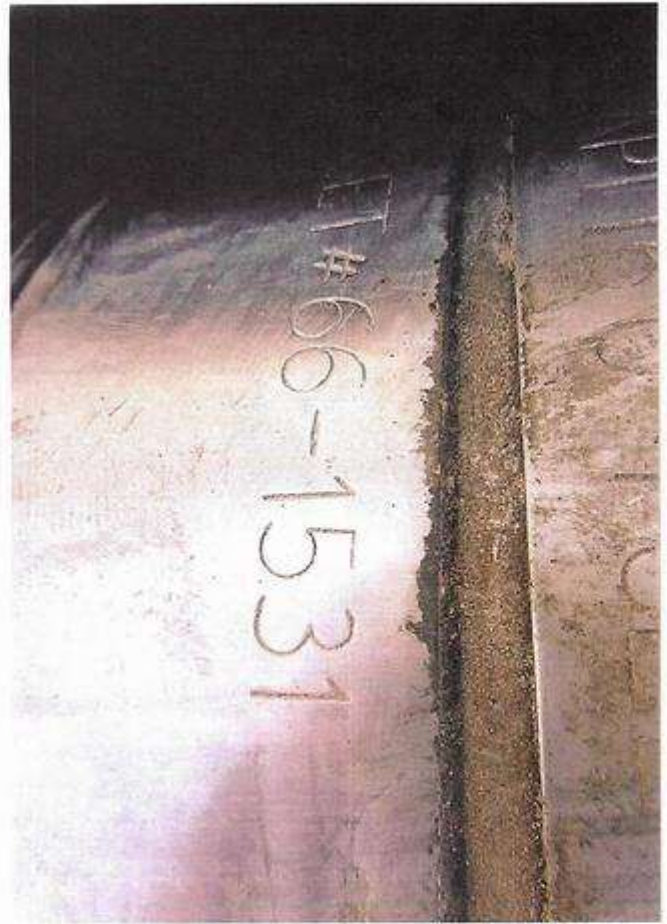
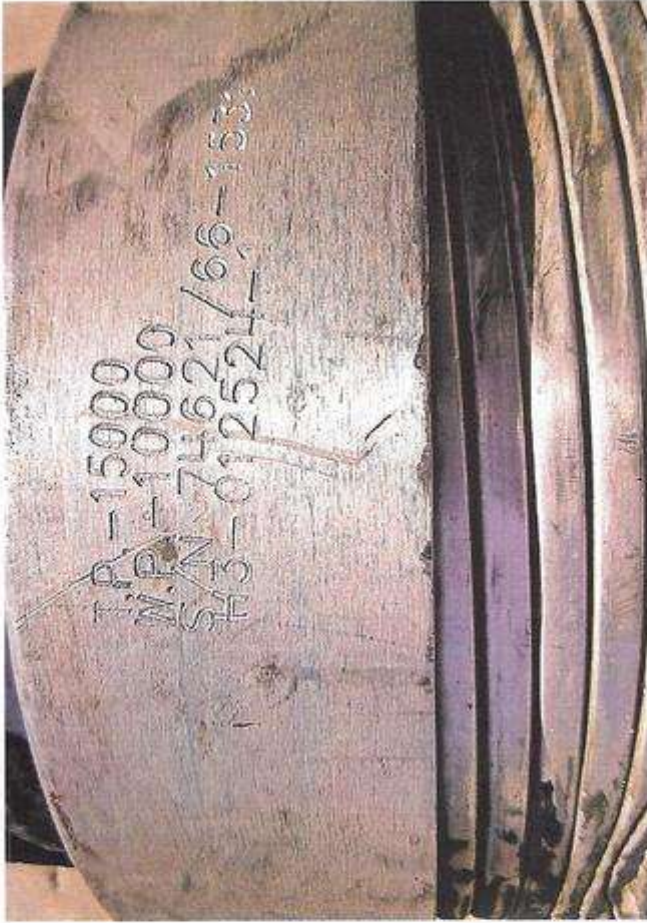
TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment





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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 404863

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 404863
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/4/2024
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	12/4/2024
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	12/4/2024