Received Nymper/15/20124 1:08:46 PM Type of Well: CONVENTIONAL GAS

WĖH

Allottee or Tribe Name:

Page 1 of 44

Lease Number: NMLC0068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

LĽC

Notice of Intent

Sundry ID: 2784114

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024 Time Sundry Submitted: 12:59

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 FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: FTP: 386' FNL & 1863' FWL OF SECTION 21-T24S-R30E 100' FNL & 2181' FWL OF SECTION 21-T24S-R30E LTP: 328' FNL & 1870' FWL OF SECTION 33-T23S-R30E 2540' FNL & 2181' FWL OF SECTION 33-T24S-R30E BHL: 200' FNL & 1869' FWL OF SECTION 33-T23S-R30E 2630' FNL & 2181' FWL OF SECTION 33-T24S-R30E The proposed total depth is changing from 32994' MD; 11303' TVD (Wolfcamp) to 23965' MD; 11149' TVD (Wolfcamp A). A saturated salt brine will be utilized while drilling through the salt formations. See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance, Well Control Plan, BOP diagram with 3 rams rated 10M each, & 5M choke manifold.

NOI Attachments

Procedure Description

PLU_21_DTD_183H_Sundry_Attachments_20240816130518.pdf

NMNM71016X

LLC

Conditions of Approval

Additional

Poker_Lake_Unit_21_DTD_183H_COA_20240912134558.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: AUG 16, 2024 01:05 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:** 09/13/2024

Signature: Chris Walls

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

5. Lease Serial No.	NMLC068430

Do not use this f	OTICES AND REPORTS ON Vorm for proposals to drill or to Jse Form 3160-3 (APD) for su	o re-enter an	6. If Indian, Allottee or	r Tribe Name
CUDMITING	TRIPLICATE - Other instructions on pag		7. If Unit of CA/Agree	ement, Name and/or No.
1. Type of Well	THIFLICATE - Other Instructions on pag	le 2	POKER LAKE UNIT	
Oil Well Gas W	_		8. Well Name and No.	POKER LAKE UNIT 21 DTD/183H
2. Name of Operator XTO PERMIAN	OPERATING LLC		9. API Well No. 30015	553263
3a. Address 6401 HOLIDAY HILL RO	DAD BLDG 5, MIDLAND, 3b. Phone No. (432) 683-22	(include area code) 77	10. Field and Pool or E	- ·
4. Location of Well (Footage, Sec., T.,R SEC 21/T24S/R30E/NMP	.,M., or Survey Description)		11. Country or Parish, EDDY/NM	State
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NO	OTICE, REPORT OR OTH	IER DATA
TYPE OF SUBMISSION		TYPE OF A	ACTION	
Notice of Intent	Acidize Deep Alter Casing Hyd	=	roduction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report		=	ecomplete emporarily Abandon	Other
Final Abandonment Notice		=	Vater Disposal	
the Bond under which the work will completion of the involved operation completed. Final Abandonment Not is ready for final inspection.) XTO Permian Operating, LLC. LTP, BHL, Casing sizes, Cemes FROM: TO: FTP: 386' FNL & 1863' FWL OLTP: 328' FNL & 1870' FWL OLTP: 320' FNL & 1869' FWL OLTP: 200' FNL & 1869' FWL OLTP: 320' FNL & 1869' FNL & 1869' FWL OLTP: 320' FNL & 1869'	Ily or recomplete horizontally, give subsurfal be perfonned or provide the Bond No. on a cons. If the operation results in a multiple cortices must be filed only after all requirement respectfully requests approval to make ent, Proposed total Depth, and formation of SECTION 21-T24S-R30E 100' FNL SECTION 33-T23S-R30E 2540' FNL OF SECTION 33-T23S-R30E 2630' FNL anging from 32994 MD; 11303 TVD (W	file with BLM/BIA. Require pletion or recompletion in its, including reclamation, he the following changes to a (Pool). 2181' FWL OF SECTION 2181' FWL OF S	red subsequent reports mus na new interval, a Form 31 nave been completed and the other approved APD. Check the approved APD. Check the approved APD	st be filed within 30 days following 160-4 must be filed once testing has been ne operator has detennined that the site sanges to include FTP,
A saturated salt brine will be ut Continued on page 3 additional	tilized while drilling through the salt forn	nations.		
' ĕ	true and correct. Name (Printed/Typed)			
TERRA SEBASTIAN / Ph: (432) 99	, , ,	Regulatory Advis	sor	
(Electronic Submissio	n)	Date	08/16/20	024
	THE SPACE FOR FED	ERAL OR STATE (OFICE USE	
Approved by				
CHRISTOPHER WALLS / Ph: (575	5) 234-2234 / Approved	Petroleum E Title		09/13/2024 Date
	ned. Approval of this notice does not warrar quitable title to those rights in the subject leduct operations thereon.		AD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

See attached Drilling Plan for updated cement and casing program.

Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance, Well Control Plan, BOP diagram with 3 rams rated 10M each, & 5M choke manifold.

Location of Well

0. SHL: NENW / 396 FNL / 1756 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209381 / LONG: -103.889207 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 386 FNL / 1863 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209408 / LONG: -103.888861 (TVD: 11303 feet, MD: 11649 feet)

BHL: NENW / 200 FNL / 1869 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268082 / LONG: -103.888836 (TVD: 11303 feet, MD: 32994 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO

LEASE NO.: NMLC068430

LOCATION: Sec. 21, T.24 S, R 30 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Poker Lake Unit 21 DTD 183H

SURFACE HOLE FOOTAGE: 396'/N & 1756'/W **BOTTOM HOLE FOOTAGE:** 2630'/N & 2181'/W

Changes approved through engineering via **Sundry 2784114**_ on 9-12-2024_. Any previous COAs not addressed within the updated COAs still apply.

COA

H ₂ S	Ν	No	Υ	l'es
Potash /	None	Secretary	R-111-Q	Open Annulus
WIPP	Choose	an option (including blan	k option.)	WIPP
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 pri	or to 06/10/2024
Additional	Flex Hose	Casing Clearance	Pilot Hole	Break Testing
Language	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 13-3/8 inch surface casing shall be set at approximately 900 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.
- 2. The minimum required fill of cement behind the 9-5/8 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 6251'
 - 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.

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 Intermediate 1 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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 easing 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**; (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 9/12/2024 575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

	VV 1_1	EL LOCATION AND	ACKEAGE DEDICATION LEAT				
¹ API Numbe	r	² Pool Code	³ Pool Name				
30-015-	5326	9822	PURPLE SAGE;WOLFC	AMP			
⁴ Property Code		⁵ P	roperty Name	⁶ Well Number			
33357		POKER LAKE UNIT 21 DTD SOUTH					
⁷ OGRID No.		⁸ O	perator Name	⁹ Elevation			
373075		XTO PERMIA	AN OPERATING, LLC.	3,328'			

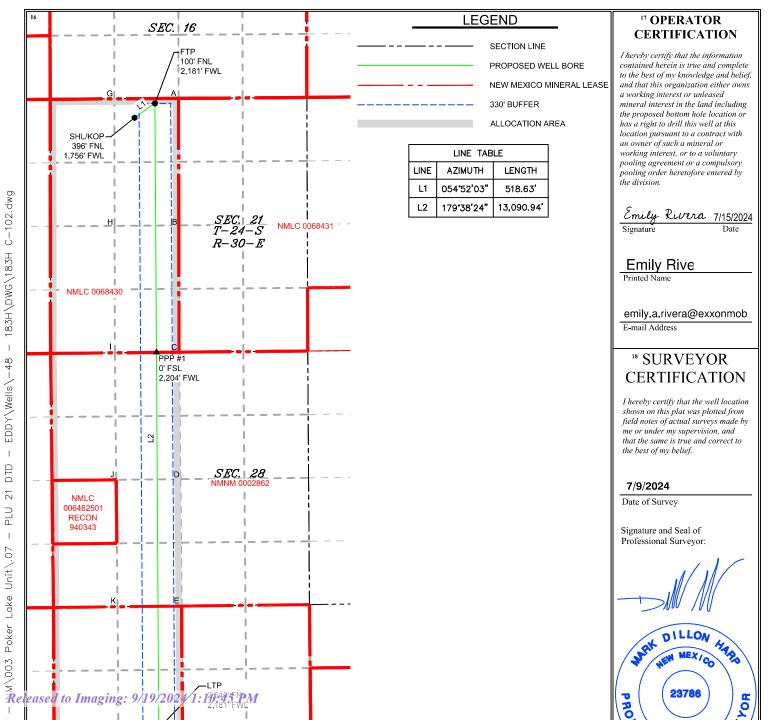
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	21	24S	30E		396	NORTH	1,756	WEST	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	24S	30E		2,630	NORTH	2,181	WEST	EDDY
12 Dedicated Acres	¹³ Joint or	Infill 14C	onsolidation (Code 15 Ore	der No.				
800.00									

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.



Inten	L	As Dril	led [
API #														
	rator Na	me:				Prop	perty N	lame	:					Well Number
XTO) PERM	IAIN OPI	ERATIN	IG, LL	.C.	POŁ	KER L	_AK	E UN	IIT 21	DT	D		183H
Kick (Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	N/S	Feet		Fron	n E/W	County	
Latit	ude				Longitu	ude							NAD	
First	Take Poir	nt (FTP)												
UL C	Section 21	Township 24S	Range 30E	Lot	Feet 100		From NOR		Feet 2 ,18		From	n E/W	County	
Latit		243	30E		Longitu	ude	NON	<u> </u>	2,10) I	VV E	<u> </u>	NAD	
32.	210197	7			-103	.887	832						83	
Last T	Гake Poin	t (LTP)												
UL F	Section 33	Township 24S	Range 30E	Lot	Feet 2,540		m N/S RTH	Fee 2,1		From WES		Count	•	
Latit		243	30E		Longitu		пп	۷, ۱۰	01	VVES) I	NAD	<u> </u>	
32.	174459	9			-103	.887	741					83		
Is thi	s well the	defining v	vell for th	ne Hori	zontal S _l	pacing	g Unit?	•						
Is thi	s well an	infill well?			7									
					_									
lf infi	ll ic vac n	lease prov	ida ADI if	availak	nla Onai	rator	Name	and v	n llau	umhai	r for I) of ini	ng well fo	r Horizontal
	ng Unit.	iease prov	ide Ari ii	avalla	ne, Opei	iatori	INAIIIE	anu v	well II	umbei	101 1	Jennin	ig weii io	THOTIZOTICAL
API #	ŧ		7											
Ope	rator Na	me:				Prop	oerty N	lame	:					Well Number
														K7 06/29/2018

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

XTO Energy Inc.

POKER LAKE UNIT 21 DTD SOUTH 183H

Projected TD: 23965' MD / 11149' TVD

SHL: 396' FNL & 1756' FWL , Section 21, T24S, R30E

BHL: 2630' FNL & 2181' FWL , Section 33, T23S, R30E

EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

915' 318' 3511' 3705' 3251' '575'	Water Water Water Water Water/Oil/Gas Water
3705' 3251'	Water Water Water/Oil/Gas Water
3705' 3251'	Water Water/Oil/Gas Water
3251'	Water/Oil/Gas Water
	Water
7575'	
3268'	Water/Oil/Gas
3284'	Water/Oil/Gas
3869'	Water/Oil/Gas
9695'	Water/Oil/Gas
0880'	Water/Oil/Gas
0901'	Water/Oil/Gas
00001	Water/Oil/Gas
0982	Water/Oil/Gas
	Water/Oil/Gas
	0901' 0982' 1029' 1149'

^{***} Hydrocarbons @ Brushy Canyon

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 @ 1015' (303' 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 10266' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23965 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9966 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1015'	9.625	40	J-55	втс	New	1.62	6.20	15.52
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.24	2.92	1.83
8.75	4000' – 10266'	7.625	29.7	HC L-80	Flush Joint	New	1.63	2.33	2.18
6.75	0' – 10166'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.83	2.01
6.75	10166' - 23965'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.66	2.01

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

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

 $[\]cdot$ 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

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 +/- 1015'

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

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

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10266'

st Stage

Optional Lead: 340 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 370 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6251

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: 700 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 (6251') 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 +/- 23965'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9966 feet
Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10466 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.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nippling 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 week.

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.

6. Proposed Mud Circulation System

INTERVAL	Hole Size
0' - 1015'	12.25
1015' - 10266'	8.75
10266' - 23965'	6.75

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. Cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 175 to 195 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6667 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 - Poker Lake Unit 21 DTD South 183H

Well Plan Report

Measured Depth:	23965.31 ft
IVD RKB:	11149.00 ft
-ocation	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	440131.40 ft
Easting:	637514.40 ft
RKB:	3360.00 ft
Ground Level:	3328.00 ft
North Reference:	Grid
Convergence Angle:	0.24 Deg

Azimuth Kate A Offset A Offset Kate Rate Cheg/100ff Cheg	Plan Sections Measured		Poker Lake Unit 21 DTD South 183H TVD	DTD South 183F TVD	ŕ		Build	Turn	Dogleg
0.000.000.000.000.000.001100.000.000.000.0054.871475.53144.2320.222.000.0054.875024.47284.27403.980.000.000.005400.00298.50424.200.000.00179.6411149.00-417.68428.690.000.00179.6411149.00-12701.84506.220.000.00	_	Inclination (Deg)	Azimuth (Deg)	KKB (#)	Y Offiset (ff.)	X Offiset (ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft) Target
0.001100.000.000.000.000.0054.871475.5314.2320.222.000.0054.875024.47284.27403.980.000.000.005400.00298.50424.200.000.00179.6411149.00-417.68428.698.000.00179.6411149.00-12701.84506.220.000.00		00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
54.871475.5314.2320.222.000.0054.875024.47284.27403.980.000.000.005400.00298.50424.200.000.00179.6411149.00-417.68428.698.000.00179.6411149.00-12701.84506.220.000.00		00.00	0.00	1100.00	00.00	0.00	00.00	00.00	00.00
54.87 5024.47 284.27 403.98 0.00 0.00 0.00 0.00 5400.00 298.50 424.20 -2.00 0.00 0.00 179.64 11149.00 -417.68 428.69 8.00 0.00 0.00 179.64 11149.00 -12701.84 506.22 0.00 0.00 0.00		7.53	54.87	1475.53	14.23	20.22	2.00	00.00	2.00
0.00 5400.00 298.50 424.20 -2.00 0.00 0.00 10432.80 298.50 424.20 0.00 0.00 0 179.64 11149.00 -12701.84 505.66 0.00 0.00 0 179.64 11149.00 -12791.89 506.22 0.00 0 0		7.53	54.87	5024.47	284.27	403.98	00.00	00.00	00.00
0.00 10432.80 298.50 424.20 0.00 0.00 179.64 11149.00 -12701.84 505.66 0.00 0.00 0.00 179.64 11149.00 -12791.89 506.22 0.00 0.00 0.00		00.00	00.00	5400.00	298.50	424.20	-2.00	00.00	2.00
179.64 11149.00 -417.68 428.69 8.00 0.00 179.64 11149.00 -12701.84 506.22 0.00 0.00 0.00		00.00	00.00	10432.80	298.50	424.20	00.00	00.00	00.00
179.6411149.00-12701.84505.660.000.00179.6411149.00-12791.89506.220.000.00		00'06	179.64	11149.00	-417.68	428.69	8.00	00.00	8.00
179.64 11149.00 -12791.89 506.22 0.00 0.00		90.00	179.64	11149.00	-12701.84	505.66	00.00	00.00	0.00 LTP 24
		00'06	179.64	11149.00	-12791.89	506.22	00.00	00.00	0.00 BHL 24

ude Semi-major Semi-minor Semi-minor Tool	
Magnitude	
Vertical	
Lateral	
TVD Highside	
Measured	

Poker Lake Unit 21 DTD South 183H

Position Uncertainty

file:///C:/Users/arsriva/Landmark/DecisionSpace/WellPlanning/Reports/PokerLakeUnit21DTDSouth183H.HTML

3/20/24, 11:21 AM Released to Imaging: 9/19/2024 1:10:45 PM

	Azimuth Used	(,)	0.000 MWD+IFR1+MS	112.264 MWD+IFR1+MS	122.711 MWD+IFR1+MS	125.469 MWD+IFR1+MS	126.713 MWD+IFR1+MS	127.419 MWD+IFR1+MS	127.873 MWD+IFR1+MS	128.190 MWD+IFR1+MS	128.423 MWD+IFR1+MS	128.602 MWD+IFR1+MS	128.744 MWD+IFR1+MS	128.859 MWD+IFR1+MS	134.187 MWD+IFR1+MS	-36.879 MWD+IFR1+MS	-32.449 MWD+IFR1+MS	-31.203 MWD+IFR1+MS	-31.220 MWD+IFR1+MS	-31.065 MWD+IFR1+MS	-30.332 MWD+IFR1+MS	-29.606 MWD+IFR1+MS	-28.889 MWD+IFR1+MS	-28.182 MWD+IFR1+MS	-27.485 MWD+IFR1+MS	-26.800 MWD+IFR1+MS	-26.127 MWD+IFR1+MS	-25.467 MWD+IFR1+MS	-24.821 MWD+IFR1+MS	-24.188 MWD+IFR1+MS	-23.569 MWD+IFR1+MS	-22.965 MWD+IFR1+MS	-22.376 MWD+IFR1+MS
	Error	(£)	0.000	0.220	0.627	0.986	1.344	1.701	2.059	2.417	2.775	3.133	3.491	3.849	4.243	4.668	5.048	5.323	5.405	5.765	6.141	6.515	6.888	7.260	7.631	8.001	8.370	8,739	9.107	9.475	9.843	10.210	10.577
	Error	(£)	000'0	0.751	1.259	1.698	2.108	2.503	2.888	3.267	3.642	4.014	4.384	4.752	5.261	5.988	089'9	7.062	7.127	7.400	7.697	8.000	8.309	8.623	8.942	9.264	9.590	9.919	10.251	10.585	10.922	11.261	11.602
ort	of Bias	(#)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	Error Bias	(ft) (ft)	0.000 0.000	2.300 0.000	2.309 0.000	2.325 0.000	2.347 0.000	2.374 0.000	2.406 0.000	2.443 0.000	2.485 0.000	2.531 0.000	2.580 0.000	2.634 0.000	2.690 0.000	2.750 0.000	2.815 0.000	2.865 0.000	2.878 0.000	2.948 0.000	3.020 0.000	3.096 0.000	3.173 0.000	3.253 0.000	3.335 0.000	3.420 0.000	3.506 0.000	3.594 0.000	3.683 0.000	3,775 0,000	3.867 0.000	3.962 0.000	4.058 0.000
	Error Bias	(ft) (ft)	0.000 0.000	0.350 0.000	0.861 0.000	1.271 0.000	1.658 0.000	2.034 0.000	2.405 0.000	2.773 0.000	3.138 0.000	3.502 0.000	3.865 0.000	4.228 0.000	4.282 0.000	4.669 0.000	5.052 0.000	5.333 0.000	5.414 0.000	5.774 0.000	6.153 0.000	6.530 0.000	000.0 906.9	7.282 0.000	7.656 0.000	8.029 0.000	8.402 0.000	8.774 0.000	9.146 0.000	9.518 0.000	000.0 688.6	10.259 0.000	10.629 0.000
	Error Bias Er	(#) (#)	0.000 0.000 0.00	0.700 0.000 0.	1.112 0.000 0.	1.497 0.000 1.	1.871 0.000 1.	2.240 0.000 2.	2.607 0.000 2.	2.971 0.000 2.	3.334 0.000 3.	3.696 0.000 3.	4.058 0.000 3.	4.419 0.000 4.	5.227 0.000 4.	5.977 0.000 4.	6.656 0.000 5.	7.020 0.000 5.	7.085 0.000 5.	7.360 0.000 5.	7.657 0.000 6.	7.961 0.000 6.	8.270 0.000 6.	8.583 0.000 7.	8.902 0.000 7.	9.224 0.000 8.	9.549 0.000 8.	9.878 0.000 8.8	10.210 0.000 9.	10.544 0.000 9.	10.880 0.000 9.	11.219 0.000 10.	11.560 0.000 10.
	RKB	(#J	000'0	100.000	200.000	300.000	400.000	200.000	000.009	700.000	800.000	000'006	1000.000	1100.000	1199.980	1299.838	1399.452	1475.528	1498.714	1597.851	1696.989	1796.126	1895.263	1994.400	2093.537	2192.674	2291.811	2390.948	2490.086	2589.223	2688.360	2787.497	2886.634
	Azimuth	(.)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0000	0.000	54 867	54 867	54.867	54.867	54.867	54.867	54 867	54 867	54 867	54 867	54 867	54.867	54.867	54.867	54.867	54 867	54 867	54.867	54.867
	Inclination	(.)	000'0	0.000	0.000	000'0	0.000	0.000	0.000	0.000	0.000	000'0	0.000	0.000	2.000	4.000	000'9	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532	7.532
3/20/24, 11:21 AM	Depth II	(#)	0.000	100.000	200.000	300.000	400.000	200.000	000'009	700.000	800.000	900,000	1000.000	1100 000	1200.000	1300.000	1400.000	1476.612	1500.000	1600.000	1700.000	1800 000	1900 000	2000 000	2100 000	2200 000	2300.000	2400.000	2500.000	2600.000	2700.000	2800.000	2900.000
	eleas	ed to	o In	ıagi	ng:	9/19)/202	24 1	:10:	45 1	PM																						

)/24, 11:21 AM							Well Plan Report	+			
3000.000	7.532	54.867	2985.771	11.902 0.000	10.999	0.000	4.155 0.000	0.000	11.944	10.944	-21.801 MWD+IFR1+MS
3100,000	7.532	54.867	3084.908	12.246 0.000	11.369	0.000	4.254 0.000	0.000	12.289	11.311	-21.242 MWD+IFR1+MS
3200.000	7.532	54 867	3184.045	12.592 0.000	11.739	0.000	4.354 0.000	0.000	12.634	11 677	-20.697 MWD+IFR1+MS
3300.000	7.532	54 867	3283.183	12.938 0.000	12.108	0.000	4.456 0.000	0.000	12.981	12.043	-20.168 MWD+IFR1+MS
3400.000	7.532	54 867	3382.320	13.287 0.000	12.477	0.000	4.559 0.000	0.000	13.329	12.410	-19.654 MWD+IFR1+MS
3500.000	7.532	54 867	3481.457	13.636 0.000	12.846	0.000	4.664 0.000	0.000	13.678	12.776	-19.155 MWD+IFR1+MS
3600.000	7.532	54.867	3580.594	13.986 0.000	13.215	0.000	4.770 0.000	0.000	14.028	13.142	-18.670 MWD+IFR1+MS
3700.000	7.532	54.867	3679.731	14.338 0.000	13.584	0.000	4.878 0.000	0.000	14.380	13.508	-18.201 MWD+IFR1+MS
3800.000	7.532	54.867	3778.868	14.690 0.000	13.952	0.000	4.987 0.000	0.000	14.732	13.874	-17.745 MWD+IFR1+MS
3900.000	7.532	54.867	3878.005	15.043 0.000	14.321	0.000	5.097 0.000	0.000	15.084	14.239	-17.304 MWD+IFR1+MS
4000.000	7.532	54.867	3977.142	15.397 0.000	14.689	0.000	5.209 0.000	0.000	15.438	14.605	-16.878 MWD+IFR1+MS
4100.000	7.532	54.867	4076.280	15.752 0.000	15.057	0.000	5.322 0.000	0.000	15.792	14.971	-16.465 MWD+IFR1+MS
4200.000	7.532	54 867	4175.417	16.108 0.000	15.425	0.000	5.437 0.000	0.000	16.147	15 337	-16.065 MWD+IFR1+MS
4300.000	7.532	54 867	4274.554	16.464 0.000	15.793	0.000	5.554 0.000	0.000	16.502	15 703	-15.679 MWD+IFR1+MS
4400.000	7.532	54 867	4373.691	16.820 0.000	16.161	0.000	5.672 0.000	0.000	16.858	16.069	-15.306 MWD+IFR1+MS
4500.000	7.532	54.867	4472.828	17.178 0.000	16.529	0.000	5.792 0.000	0.000	17.215	16.434	-14.946 MWD+IFR1+MS
4600.000	7.532	54.867	4571.965	17.536 0.000	16.897	0.000	5.913 0.000	0.000	17.572	16.800	-14.598 MWD+IFR1+MS
4700.000	7.532	54.867	4671.102	17.894 0.000	17.265	0.000	6.036 0.000	0.000	17.929	17.166	-14.262 MWD+IFR1+MS
4800.000	7.532	54.867	4770.239	18.253 0.000	17.632	0.000	6.161 0.000	0.000	18.287	17.532	-13.938 MWD+IFR1+MS
4900.000	7.532	54.867	4869.377	18.612 0.000	18.000	0.000	6.288 0.000	0.000	18.645	17.898	-13.626 MWD+IFR1+MS
5000.000	7.532	54.867	4968.514	18.972 0.000	18.367	0.000	6.416 0.000	0.000	19.003	18.264	-13.325 MWD+IFR1+MS
5056.445	7.532	54.867	5024.472	19.172 0.000	18.571	0.000	6.489 0.000	0.000	19.200	18.469	-13.361 MWD+IFR1+MS
5100.000	6.661	54.867	5067.693	19.333 0.000	18.727	0.000	6.546 0.000	0.000	19.352	18.627	-13.455 MWD+IFR1+MS
5200,000	4.661	54.867	5167.200	19.752 0.000	19.087	0.000	0.000 879.9	0.000	19.767	18.987	-14.352 MWD+IFR1+MS
5300,000	2.661	54.867	5266.991	20.208 0.000	19.447	0.000	000.0 608.9	0.000	20.245	19.344	-15.520 MWD+IFR1+MS
5400.000	0.661	54.867	5366.944	20.632 0.000	19.803	0.000	0.000 986.9	0.000	20.716	19.695	-16.357 MWD+IFR1+MS
5433.057	0.000	0.000	5400.000	19.894 0.000	20.749	0.000	0.000 876.9	0.000	20.829	19.810	-16.477 MWD+IFR1+MS
5500,000	0.000	0.000	5466,943	20.128 0.000	20.966	0.000	7.061 0.000	0.000	21.047	20.044	-16.655 MWD+IFR1+MS
5600.000	0.000	0.000	5566.943	20.479 0.000	21.297	0.000	7.188 0.000	0.000	21.379	20.393	-17.012 MWD+IFR1+MS
5700.000	0.000	0.000	5666.943	20.832 0.000	21.630	0.000	7.317 0.000	0.000	21.717	20.743	-17.494 MWD+IFR1+MS
5800.000	0.000	0.000	5766.943	21.186 0.000	21.965	0.000	7.449 0.000	0.000	22.055	21.093	-17.973 MWD+IFR1+MS
5900.000	0.000	0.000	5866.943	21.540 0.000	22.300	0.000	7.583 0.000	0.000	22.394	21.443	-18.447 MWD+IFR1+MS
000.0009	0.000	0.000	5966.943	21.894 0.000	22.636	0.000	7.719 0.000	0.000	22.733	21.793	-18.917 MWD+IFR1+MS

	-19.384 MWD+IFR1+MS	-19.845 MWD+IFR1+MS	-20.303 MWD+IFR1+MS	-20.755 MWD+IFR1+MS	-21.202 MWD+IFR1+MS	-21.645 MWD+IFR1+MS	-22.082 MWD+IFR1+MS	-22.514 MWD+IFR1+MS	-22.941 MWD+IFR1+MS	-23.362 MWD+IFR1+MS	-23.777 MWD+IFR1+MS	-24.187 MWD+IFR1+MS	-24.592 MWD+IFR1+MS	-24.991 MWD+IFR1+MS	-25.383 MWD+IFR1+MS	-25.771 MWD+IFR1+MS	-26.152 MWD+IFR1+MS	-26.528 MWD+IFR1+MS	-26.898 MWD+IFR1+MS	-27.262 MWD+IFR1+MS	-27.620 MWD+IFR1+MS	-27.973 MWD+IFR1+MS	-28.320 MWD+IFR1+MS	-28.661 MWD+IFR1+MS	-28.997 MWD+IFR1+MS	-29.328 MWD+IFR1+MS	-29.652 MWD+IFR1+MS	-29.972 MWD+IFR1+MS	-30.286 MWD+IFR1+MS	-30.594 MWD+IFR1+MS	-30.897 MWD+IFR1+MS	-31.196 MWD+IFR1+MS	-31.489 MWD+IFR1+MS
	22.143	22.494	22.845	23 195	23.546	23.897	24.249	24.600	24.951	25 303	25.654	26 006	26.358	26.710	27 061	27.414	27 766	28.118	28.470	28.823	29.175	29.528	29.880	30 233	30.586	30 939	31.292	31.645	31 998	32.351	32.704	33 057	33.411
	23.074	23.415	23 757	24 099	24.442	24.785	25.129	25.473	25.818	26 163	26.509	26.855	27.202	27.549	27 896	28.244	28.592	28.940	29.289	29.638	29.987	30.337	30.687	31 037	31 387	31 738	32.088	32,439	32.791	33.142	33.494	33.845	34.197
ort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	7.857 0.000	7.998 0.000	8.141 0.000	8.287 0.000	8.435 0.000	8.585 0.000	8.738 0.000	8.894 0.000	9.052 0.000	9.213 0.000	9.376 0.000	9.542 0.000	9.711 0.000	9.883 0.000	10.057 0.000	10.233 0.000	10.413 0.000	10.595 0.000	10.780 0.000	10.968 0.000	11.159 0.000	11.352 0.000	11.548 0.000	11.748 0.000	11.950 0.000	12.154 0.000	12.362 0.000	12.573 0.000	12.786 0.000	13.003 0.000	13.222 0.000	13.444 0.000	13.670 0.000
	0.000	000'0	000.0	000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	000'0	000'0	0.000	000.0	000.0	0.000	0.000	0.000	000'0	0.000	0.000	000.0	000.0	000.0	0.000	0.000	000'0	0.000	000'0	0.000	000.0	0.000
	22.973	23.311	23.649	23.987	24.326	24.666	25.006	25.347	25.688	26.030	26.372	26.715	27.058	27.401	27.745	28.089	28.433	28.778	29.123	29.469	29.815	30.161	30.507	30.854	31.201	31.548	31.895	32.243	32.591	32,939	33.287	33.636	33.985
	22.248 0.000	22.602 0.000	22.956 0.000	23.311 0.000	23.665 0.000	24.020 0.000	24.375 0.000	24.730 0.000	25.085 0.000	25.440 0.000	25.795 0.000	26.150 0.000	26.506 0.000	26.861 0.000	27.217 0.000	27.572 0.000	27.928 0.000	28.284 0.000	28.640 0.000	28.996 0.000	29.352 0.000	29.708 0.000	30.064 0.000	30.420 0.000	30.776 0.000	31.132 0.000	31.489 0.000	31.845 0.000	32.201 0.000	32.558 0.000	32.914 0.000	33.271 0.000	33.627 0.000
	6066.943	6166.943	6266.943	6366.943	6466.943	6566.943	6666.943	6766.943	6866.943	6966.943	7066.943	7166.943	7266.943	7366.943	7466.943	7566.943	7666.943	7766.943	7866.943	7966.943	8066.943	8166.943	8266.943	8366.943	8466 943	8566.943	8666.943	8766.943	8866.943	8966.943	9066.943	9166.943	9266.943
	0.000	0000	0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0000	0.000	0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	000.0	0000	0000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	00000	0.000	0.000	0.000	0.000	0.000	00000	0.000	0.000	0.000	0.000	0.000
3/20/24, 11:21 AM	6100.000	6200.000	000 0069	6400.000	6500,000	000'0099	000.0079	6800.000	000.0069	7000.000	7100.000	7200,000	7300.000	7400.000	7500.000	7600.000	7700.000	7800.000	7900.000	8000,000	8100.000	8200.000	8300.000	8400,000	8500,000	8600.000	8700.000	8800,000	8900.000	000 0006	9100.000	9200,000	9300.000
	eleas	ed t	o In	agi	ng:	9/19	0/20.	24 1	:10:	45 1	PM																						

	-31.777 MWD+IFR1+MS	-32.060 MWD+IFR1+MS	-32.338 MWD+IFR1+MS	-32.611 MWD+IFR1+MS	-32.879 MWD+IFR1+MS	-33.143 MWD+IFR1+MS	-33.402 MWD+IFR1+MS	-33.657 MWD+IFR1+MS	-33.907 MWD+IFR1+MS	-34.153 MWD+IFR1+MS	-34.395 MWD+IFR1+MS	-34.506 MWD+IFR1+MS	-34.621 MWD+IFR1+MS	126.868 MWD+IFR1+MS	107.529 MWD+IFR1+MS	102,267 MWD+IFR1+MS	100.204 MWD+IFR1+MS	99.279 MWD+IFR1+MS	98.911 MWD+IFR1+MS	98.881 MWD+IFR1+MS	99.082 MWD+IFR1+MS	99,444 MWD+IFR1+MS	99.893 MWD+IFR1+MS	100.288 MWD+IFR1+MS	100.323 MWD+IFR1+MS	100.748 MWD+IFR1+MS	101.223 MWD+IFR1+MS	101,747 MWD+IFR1+MS	102.324 MWD+IFR1+MS	102.964 MWD+IFR1+MS	103.675 MWD+IFR1+MS	104.467 MWD+IFR1+MS	105.353 MWD+IFR1+MS
	33.764	34.118	34.471	34.825	35.179	35.532	35.886	36.240	36.594	36.948	37.302	37.535	37.653	38.197	38.645	38.958	39.228	39.467	39.677	39.858	40.010	40.132	40.224	40.282	40.286	40.342	40.414	40.500	40.598	40.709	40.832	40.967	41.113
	34 549	34 902	35.254	35 607	35.960	36.312	36.666	37.019	37.372	37.725	38.079	38 309	38.421	38.993	40.157	41.285	42.259	43.055	43.668	44 107	44 393	44.552	44.622	44 644	44 645	44.660	44.677	44.696	44.716	44.738	44.763	44 790	44.821
ort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	13.898 0.000	14.129 0.000	14.363 0.000	14.600 0.000	14.840 0.000	15.083 0.000	15.329 0.000	15.578 0.000	15.830 0.000	16.085 0.000	16.343 0.000	16.515 0.000	16.604 0.000	16.887 0.000	17.293 0.000	17.883 0.000	18.700 0.000	19.757 0.000	21.036 0.000	22.502 0.000	24.100 0.000	25.775 0.000	27.468 0.000	28.742 0.000	28.757 0.000	28.906 0.000	29.080 0.000	29.273 0.000	29.486 0.000	29.719 0.000	29.970 0.000	30.239 0.000	30.526 0.000
	34.333 0.000	34.683 0.000	35.032 0.000	35.381 0.000	35.731 0.000	36.081 0.000	36.431 0.000	36.781 0.000	37.132 0.000	37.482 0.000	37.833 0.000	38.062 0.000	38.179 -0.000	38.490 -0.000	38.790 -0.000	39.072 -0.000	39.334 -0.000	39.572 -0.000	39.786 -0.000	39.973 -0.000	40.134 -0.000	40.267 -0.000	40.371 -0.000	40.438 -0.000	40.443 -0.000	40.510 -0.000	40.595 -0.000	40.693 -0.000	40.806 -0.000	40.933 -0.000	41.074 -0.000	41.228 -0.000	41.396 -0.000
	33.984 0.000	34.340 0.000	34.697 0.000	35.054 0.000	35.411 0.000	35.767 0.000	36.124 0.000	36.481 0.000	36.838 0.000	37.195 0.000	37.552 0.000	37.785 0.000	37.817 0.000	38.010 0.000	38.237 0.000	37.906 0.000	37.081 0.000	35.853 0.000	34.343 0.000	32.707 0.000	31.137 0.000	29.852 0.000	29.079 0.000	28.742 0.000	28.757 0.000	28.906 0.000	29.080 0.000	29.273 0.000	29.486 0.000	29.719 0.000	29.970 0.000	30.239 0.000	30.526 0.000
	9366.943	9466.943	9566.943	9666.943	9766.943	9866.943	9966.943	10066.943	10166.943	10266.943	10366.943	10432.800	10466.930	10566.160	10662.794	10754.952	10840.839	10918.785	10987.271	11044.965	11090.744	11123.717	11143.242	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997
	0 000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	179.641	179 641	179.641	179 641	179.641	179.641	179.641	179 641	179.641	179 641	179.641	179 641	179 641	179.641	179.641	179.641	179.641	179.641	179.641	179 641	179.641
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.731	10.731	18.731	26.731	34.731	42.731	50.731	58.731	66.731	74.731	82.731	90.000	90.000	90.000	90.000	000'06	90.000	000'06	90.000	000'06	90.000
3/20/24, 11:21 AM	9400.000	9500.000	000'0096	9700.000	9800.000	000'0066	10000.000	10100.000	10200.000	10300.000	10400.000	10465.857	10500.000	10600.000	10700.000	10800.000	10900.000	11000.000	11100.000	11200.000	11300.000	11400.000	11500.000	11590.857	11600.000	11700.000	11800.000	11900.000	12000.000	12100.000	12200.000	12300.000	12400.000
	eleas	ed t	o In	agi	ng:	9/19	0/202	24 1	:10:	45 I	PM																						

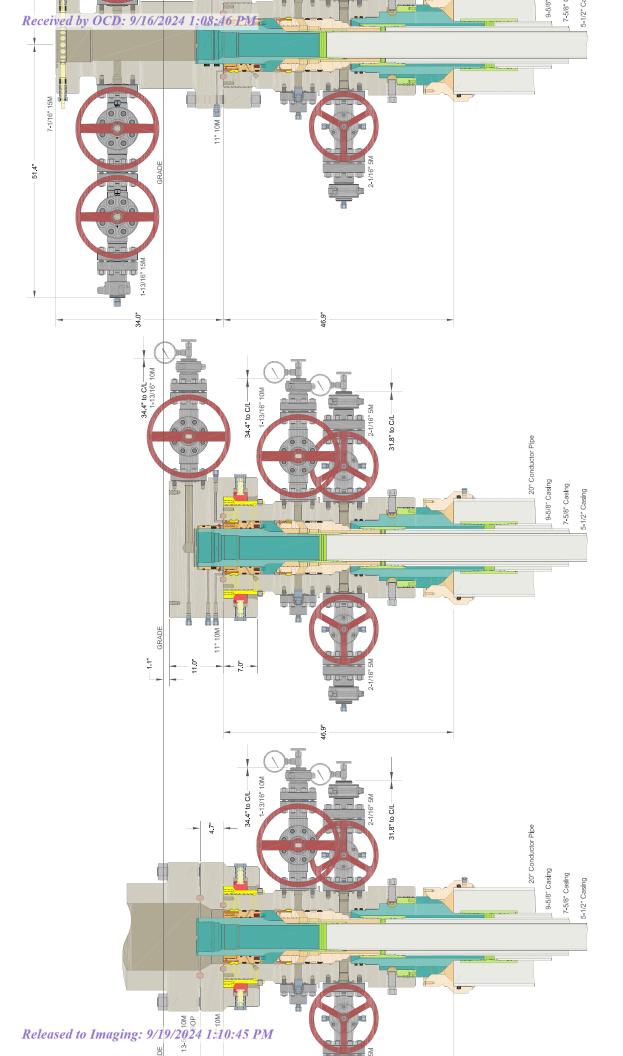
	106.349 MWD+IFR1+MS	107.471 MWD+IFR1+MS	108.742 MWD+IFR1+MS	110.184 MWD+IFR1+MS	111.826 MWD+IFR1+MS	113.698 MWD+IFR1+MS	115.831 MWD+IFR1+MS	118.253 MWD+IFR1+MS	120.985 MWD+IFR1+MS	124.029 MWD+IFR1+MS	127.362 MWD+IFR1+MS	130.922 MWD+IFR1+MS	134.616 MWD+IFR1+MS	-41.675 MWD+IFR1+MS	-38.074 MWD+IFR1+MS	-34.682 MWD+IFR1+MS	-31.567 MWD+IFR1+MS	-28.761 MWD+IFR1+MS	-26.266 MWD+IFR1+MS	-24.066 MWD+IFR1+MS	-22.133 MWD+IFR1+MS	-20.436 MWD+IFR1+MS	-18.944 MWD+IFR1+MS	-17.630 MWD+IFR1+MS	-16.468 MWD+IFR1+MS	-15.437 MWD+IFR1+MS	-14.518 MWD+IFR1+MS	-13.695 MWD+IFR1+MS	-12.955 MWD+IFR1+MS	-12.287 MWD+IFR1+MS	-11.682 MWD+IFR1+MS	-11.132 MWD+IFR1+MS	-10.630 MWD+IFR1+MS
	41.269	41.436	41.612	41.795	41 985	42.181	42.380	42.580	42.779	42.974	43.161	43.338	43.502	43.652	43.787	43.907	44.013	44.107	44.190	44.265	44.333	44.395	44.452	44 505	44.555	44.603	44.648	44.692	44.734	44.776	44.816	44.856	44.896
	44.854	44.892	44 934	44.982	45.036	45.098	45.170	45.253	45.349	45.462	45.595	45 749	45.927	46.132	46.362	46.618	46.898	47.201	47.524	47.866	48.224	48.598	48.985	49.386	49 798	50.221	50.655	51.098	51.550	52.012	52.481	52.959	53.444
ort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	30.831 0.000	31.152 0.000	31.490 0.000	31.843 0.000	32.212 0.000	32.595 0.000	32.993 0.000	33,404 0.000	33.829 0.000	34.266 0.000	34.715 0.000	35.176 0.000	35.649 0.000	36.132 0.000	36.626 0.000	37.130 0.000	37.643 0.000	38.166 0.000	38.698 0.000	39.238 0.000	39.786 0.000	40.342 0.000	40.905 0.000	41.476 0.000	42.054 0.000	42.638 0.000	43.229 0.000	43.825 0.000	44.428 0.000	45.036 0.000	45.649 0.000	46.268 0.000	46.892 0.000
	41.577 -0.000	41.772 -0.000	41.980 -0.000	42.201 -0.000	42.434 -0.000	42.680 -0.000	42.938 -0.000	43.208 -0.000	43.489 -0.000	43.783 -0.000	44.088 -0.000	44.404 -0.000	44.730 -0.000	45.068 -0.000	45.415 -0.000	45.773 -0.000	46.141 -0.000	46.519 -0.000	46.906 -0.000	47.302 -0.000	47.707 -0.000	48.121 -0.000	48.544 -0.000	48.975 -0.000	49.414 -0.000	49.861 -0.000	50.315 -0.000	50.777 -0.000	51.247 -0.000	51.723 -0.000	52.206 -0.000	52.696 -0.000	53.193 -0.000
	30.831 0.000	31.152 0.000	31.490 0.000	31.843 0.000	32.212 0.000	32.595 0.000	32.993 0.000	33.404 0.000	33.829 0.000	34.266 0.000	34.715 0.000	35.176 0.000	35.649 0.000	36.132 0.000	36.626 0.000	37.130 0.000	37.643 0.000	38.166 0.000	38.698 0.000	39.238 0.000	39.786 0.000	40.342 0.000	40.905 0.000	41.476 0.000	42.054 0.000	42.638 0.000	43.229 0.000	43.825 0.000	44.428 0.000	45.036 0.000	45.649 0.000	46.268 0.000	46.892 0.000
	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997
	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641
	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	000'06	90.000	90.000	90.000	90.000	90.000	000'06	90.000	90.000	90.000	90.000	90.000
3/20/24, 11:21 AM	12500.000	12600.000	12700.000	12800.000	12900.000	13000.000	13100.000	13200.000	13300.000	13400.000	13500.000	13600.000	13700.000	13800.000	13900.000	14000.000	14100.000	14200.000	14300.000	14400.000	14500.000	14600.000	14700.000	14800.000	14900.000	15000.000	15100.000	15200,000	15300.000	15400.000	15500.000	15600.000	15700.000
	eleas	ed t	o In	agi	ng:	9/19	0/202	24 1	:10:	45 1	PM																						

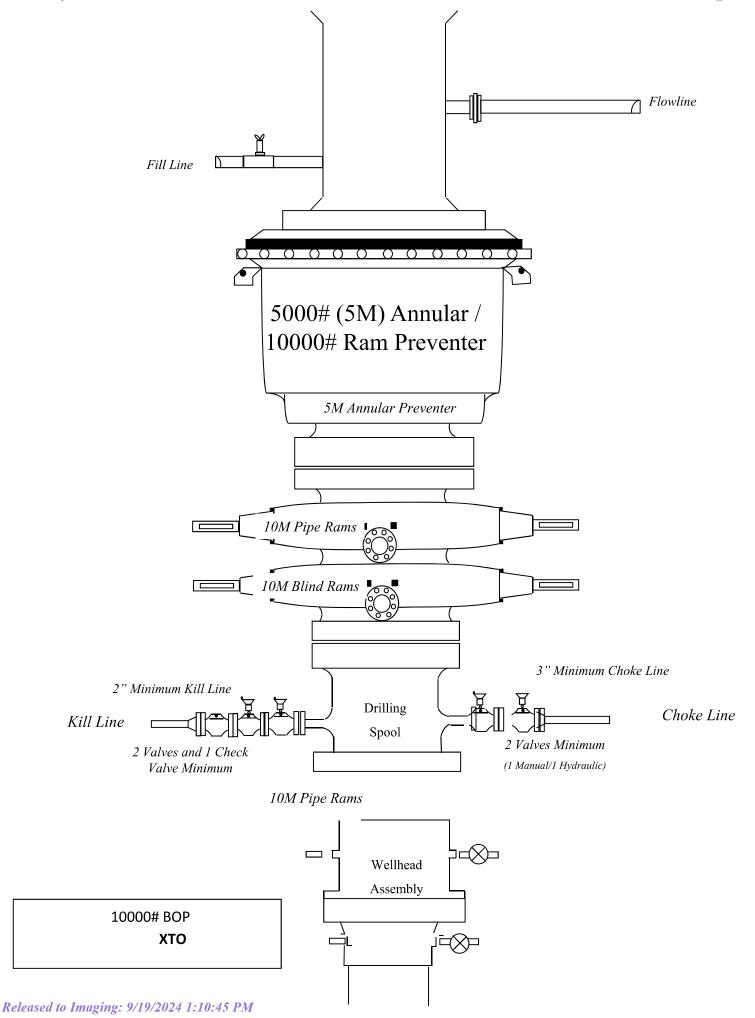
	-10.170 MWD+IFR1+MS	-9.748 MWD+IFR1+MS	-9.359 MWD+IFR1+MS	-9.000 MWD+IFR1+MS	-8.666 MWD+IFR1+MS	-8.357 MWD+IFR1+MS	-8.069 MWD+IFR1+MS	-7.800 MWD+IFR1+MS	-7.549 MWD+IFR1+MS	-7.314 MWD+IFR1+MS	-7.093 MWD+IFR1+MS	-6.885 MWD+IFR1+MS	-6.689 MWD+IFR1+MS	-6.505 MWD+IFR1+MS	-6.330 MWD+IFR1+MS	-6.165 MWD+IFR1+MS	-6.009 MWD+IFR1+MS	-5.860 MWD+IFR1+MS	-5.719 MWD+IFR1+MS	-5.585 MWD+IFR1+MS	-5.458 MWD+IFR1+MS	-5.336 MWD+IFR1+MS	-5.220 MWD+IFR1+MS	-5.108 MWD+IFR1+MS	-5.002 MWD+IFR1+MS	-4.901 MWD+IFR1+MS	-4.803 MWD+IFR1+MS	-4.710 MWD+IFR1+MS	-4.620 MWD+IFR1+MS	-4.534 MWD+IFR1+MS	-4.451 MWD+IFR1+MS	-4.372 MWD+IFR1+MS	-4.295 MWD+IFR1+MS
	44 935	44.974	45.012	45.051	45.089	45.128	45.167	45.206	45.245	45.284	45.324	45.363	45.404	45.444	45.485	45.526	45.567	45.609	45.652	45.694	45.737	45.781	45.825	45.869	45.914	45.959	46.005	46.051	46.097	46.144	46.192	46.240	46.288
	53.936	54.435	54.941	55.454	55.972	56.497	57.027	57.564	58.105	58.652	59.204	59.761	60.322	60.889	61.459	62.034	62.614	63.197	63.784	64.375	64.970	62.569	66.171	922 99	67.385	265.29	68.612	69.231	69.852	70.476	71.103	71.732	72.365
ort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	47.520 0.000	48.153 0.000	48.791 0.000	49.433 0.000	50.078 0.000	50.728 0.000	51.381 0.000	52.039 0.000	52.699 0.000	53.363 0.000	54.030 0.000	54.701 0.000	55.374 0.000	26.050 0.000	56.729 0.000	57.411 0.000	58.095 0.000	58.782 0.000	59.471 0.000	60.163 0.000	00000 258.09	61.553 0.000	62.251 0.000	62.951 0.000	63.653 0.000	64.357 0.000	65.063 0.000	65.771 0.000	66.480 0.000	67.191 0.000	67.904 0.000	68.618 0.000	69.334 0.000
	53.696 -0.000	54.205 -0.000	54.720 -0.000	55.240 -0.000	55.767 -0.000	56.299 -0.000	56.836 -0.000	57.378 -0.000	57.926 -0.000	58.478 -0.000	59.035 -0.000	59.597 -0.000	60.163 -0.000	60.734 -0.000	61.309 -0.000	61.888 -0.000	62.471 -0.000	63.058 -0.000	63.648 -0.000	64.243 -0.000	64.841 -0.000	65.442 -0.000	66.047 -0.000	66.655 -0.000	67.267 -0.000	67.881 -0.000	68.499 -0.000	69.119 -0.000	69.743 -0.000	70.369 -0.000	000.0- 866.07	71.630 -0.000	72.264 -0.000
	47.520 0.000	48.153 0.000	48.791 0.000	49.433 0.000	50.078 0.000	50.728 0.000	51.381 0.000	52.039 0.000	52.699 0.000	53.363 0.000	54.030 0.000 8	54.701 0.000 €	55.374 0.000 6	56.050 0.000	56.729 0.000	57.411 0.000 6	58.095 0.000 6	58.782 0.000 6	59.471 0.000 6	60.163 0.000	60.857 0.000	61.553 0.000 6	62.251 0.000 6	62.951 0.000 6	63.653 0.000	64.357 0.000 6	65.063 0.000	65.771 0.000	66.480 0.000 6	67.191 0.000 7	67.904 0.000 7	68.618 0.000 7	69.334 0.000 7
	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148,997	11148.997	11148.997	11148.997	11148.997	11148.997
	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641
	90.000	90.000	000'06	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	000'06	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	000'06	90.000	000'06	90.000	90.000	90.000
3/20/24, 11:21 AM	15800.000	15900.000	16000.000	16100.000	16200.000	16300.000	16400.000	16500.000	16600.000	16700.000	16800.000	16900.000	17000.000	17100.000	17200.000	17300.000	17400.000	17500.000	17600.000	17700.000	17800.000	17900.000	18000.000	18100.000	18200.000	18300.000	18400.000	18500,000	18600.000	18700.000	18800.000	18900.000	19000.000
	eleas	ed t	o In	agi	ng:	9/19	0/202	24 1	:10:	45 I	PM																						

	-4.222 MWD+IFR1+MS	-4.150 MWD+IFR1+MS	-4.082 MWD+IFR1+MS	-4.016 MWD+IFR1+MS	-3.952 MWD+IFR1+MS	-3.890 MWD+IFR1+MS	-3.830 MWD+IFR1+MS	-3.773 MWD+IFR1+MS	-3.717 MWD+IFR1+MS	-3.663 MWD+IFR1+MS	-3.610 MWD+IFR1+MS	-3.559 MWD+IFR1+MS	-3.510 MWD+IFR1+MS	-3.462 MWD+IFR1+MS	-3.416 MWD+IFR1+MS	-3.371 MWD+IFR1+MS	-3.327 MWD+IFR1+MS	-3.285 MWD+IFR1+MS	-3.243 MWD+IFR1+MS	-3.203 MWD+IFR1+MS	-3.164 MWD+IFR1+MS	-3.126 MWD+IFR1+MS	-3.089 MWD+IFR1+MS	-3.053 MWD+IFR1+MS	-3.018 MWD+IFR1+MS	-2.984 MWD+IFR1+MS	-2.950 MWD+IFR1+MS	-2.918 MWD+IFR1+MS	-2.886 MWD+IFR1+MS	-2.855 MWD+IFR1+MS	-2.825 MWD+IFR1+MS	-2.795 MWD+IFR1+MS	-2.766 MWD+IFR1+MS
	46.337	46.387	46.436	46.487	46.537	46.589	46.640	46.693	46.745	46.798	46.852	46.906	46.961	47.016	47.071	47.127	47.183	47.240	47.298	47.356	47.414	47.473	47.532	47.592	47.652	47.713	47.774	47.835	47.897	47.960	48.023	48.086	48.150
	73.000	73 637	74.277	74.919	75.564	76.211	76.860	77.511	78.164	78.820	79.477	80.136	80.797	81.460	82.125	82.792	83.460	84.130	84.802	85.475	86.150	86.826	87.504	88.183	88.864	89.546	90.229	90.914	91.600	92.287	92.975	93.665	94.356
ort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	70.052 0.000	70.770 0.000	71.490 0.000	72.212 0.000	72.935 0.000	73.659 0.000	74.384 0.000	75.111 0.000	75.838 0.000	76.567 0.000	77.297 0.000	78.028 0.000	78.760 0.000	79.493 0.000	80.227 0.000	80.962 0.000	81.697 0.000	82.434 0.000	83.172 0.000	83.910 0.000	84.650 0.000	85.390 0.000	86.131 0.000	86.872 0.000	87.615 0.000	88.358 0.000	89.102 0.000	89.846 0.000	90.592 0.000	91.337 0.000	92.084 0.000	92.831 0.000	93.579 0.000
	72.901 -0.000	73.540 -0.000	74.181 -0.000	74.825 -0.000	75.472 -0.000	76.120 -0.000	76.771 -0.000	77.423 -0.000	78.078 -0.000	78.735 -0.000	79.393 -0.000	80.054 -0.000	80.717 -0.000	81.381 -0.000	82.047 -0.000	82.715 -0.000	83.384 -0.000	84.055 -0.000	84.728 -0.000	85.402 -0.000	86.078 -0.000	86.755 -0.000	87.434 -0.000	88.114 -0.000	88.795 -0.000	89.478 -0.000	90.163 -0.000	90.848 -0.000	91.535 -0.000	92.223 -0.000	92.912 -0.000	93.603 -0.000	94.294 -0.000
	70.052 0.000	70.770 0.000	71.490 0.000	72.212 0.000	72.935 0.000	73.659 0.000	74.384 0.000	75.111 0.000	75.838 0.000	76.567 0.000	77.297 0.000	78.028 0.000	78.760 0.000	79.493 0.000	80.227 0.000	80.962 0.000	81.697 0.000	82.434 0.000	83.172 0.000	83.910 0.000	84.650 0.000	85.390 0.000	86.131 0.000	86.872 0.000	87.615 0.000	88.358 0.000	89.102 0.000	89.846 0.000	90.592 0.000	91.337 0.000	92.084 0.000	92.831 0.000	93.579 0.000
	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997	11148.997
	179.641	179 641	179 641	179 641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179 641	179.641	179.641	179.641	179 641	179.641	179.641	179.641	179.641	179.641	179.641	179 641	179.641	179 641	179.641	179.641	179.641	179.641	179.641	179.641	179.641	179.641
	90.000	000 06	000 06	000 06	90.000	000 06	000.06	000.06	90.000	90.000	90.000	000 06	000.06	000.06	000.06	000 06	000 06	90.000	90.000	000.06	90.000	000.06	000 06	90.000	000 06	000 06	000.06	000'06	000 06	000.06	90.000	000.06	000 06
3/20/24, 11:21 AM	19100.000	19200.000	19300.000	19400.000	19500.000	19600.000	19700.000	19800.000	19900.000	20000.000	20100.000	20200.000	20300.000	20400.000	20500.000	20600.000	20700.000	20800.000	20900.000	21000.000	21100.000	21200.000	21300.000	21400.000	21500.000	21600.000	21700.000	21800.000	21900.000	22000.000	22100.000	22200.000	22300.000
	leas	ed t	o In	ıagi	ng:	9/19	0/202	24 1	:10:	45 1	PM																						

3/20/24, 11:21 AM								We	Well Plan Report	_			
22400.000	90.000	179.641	90.000 179.641 11148.997	94.327 0.000	0.000	94 987 -0 000	-0.000	94.327	0.000	0.000	95.048	48.214	-2.738 MWD+IFR1+MS
22500.000	000.06	179.641	11148.997	95.076 0.000	000.0	95.681	-0.000	95.076	0.000	0000	95.741	48.279	-2.710 MWD+IFR1+MS
22600.000	000.06	179.641	11148 <u>.</u> 997	95.826 0.000	0.000	96.376	-0.000	95.826	0.000	0000	96.435	48.344	-2.684 MWD+IFR1+MS
22700.000	90.000	179.641	11148.997	96.576 0.000	0.000	97.072	-0.000	96.576	0.000	0.000	97.130	48.410	-2.657 MWD+IFR1+MS
22800.000	90.000	179.641	11148.997	97.327 0.000	0.000	97.76	-0.000	97.327	0.000	0.000	97.827	48.476	-2.632 MWD+IFR1+MS
22900.000	000 06	179.641	11148.997	98.078	0.000	98.467	-0.000	98 078	0.000	0.000	98.524	48.543	-2.606 MWD+IFR1+MS
23000.000	90.000	179.641	11148.997	98.830 0.000	0.000	99.166	-0.000	98.830	0.000	0.000	99.223	48.610	-2.582 MWD+IFR1+MS
23100.000	90.000	179.641	11148.997	99.582 (0.000	99.866	-0.000	99 582	0.000	0.000	99.922	48.677	-2.558 MWD+IFR1+MS
23200.000	000.06	179.641	11148.997	100.335 0.000	0.000	100.567	-0.000	100.335	0.000	0.000	100.622	48.745	-2.534 MWD+IFR1+MS
23300.000	90.000	179.641	11148.997	101.088 0.000	0.000	101.269	-0.000	101.088	0.000	0.000	101.324	48.813	-2.511 MWD+IFR1+MS
23400.000	000.06	179.641	11148.997	101.842 0.000	0.000	101.972	-0.000	101 842	0.000	0.000	102.026	48.882	-2.488 MWD+IFR1+MS
23500,000	000.06	179.641	11148.997	102.596 0.000	000.0	102.675	-0.000	102.596	0.000	0.000	102.729	48.951	-2.466 MWD+IFR1+MS
23600,000	000.06	179.641	11148.997	103.350 0.000	000.0	103.380	-0.000	103.350	0.000	0.000	103.433	49.021	-2.445 MWD+IFR1+MS
23700.000	000 06	179.641	11148.997	104.106 0.000	000.0	104 086	-0.000	104 106	0.000	0.000	104.138	49.091	-2.423 MWD+IFR1+MS
23800.000	000.06	179.641	11148.997	104.861 0.000	0.000	104 792	-0.000	104 861	0.000	0.000	104.844	49.162	-2.403 MWD+IFR1+MS
23875.256	000 06	179.641	11148.997	105.429 0.000	000.0	105 323	-0.000	105.429	0.000	0.000	105.375	49.215	-2.387 MWD+IFR1+MS
23900.000	90.000	179.641	11148.997	105.616 0.000	000.0	105.498	-0.000	105.616	0.000	0.000	105.549	49.233	-2.382 MWD+IFR1+MS
23965.308	90.000	179.641	11148.997	106.109 0.000	000.0	105.959	-0.000	105.959 -0.000 106.109	0.000	0.000	106.010	49.279	-2.369 MWD+IFR1+MS

Plan Targets	Poker Lake Unit 21 DTD South 183H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(#)	(ft)	(#)	(tt)
FTP 24	11298.57	440429.90	637938.60	7789.00 RECTANGLE
SHL 3	12183.99	440101.36	637947.88	8522.00 RECTANGLE
LTP 24	23875.34	427429.50	638020.00	7789.00 RECTANGLE
BHL 24	23965.53	427339.50	638020.40	7789.00 RECTANGLE





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 $^{ ext{@}}$		_
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-Ib	-
Maximum Operating Torque[3]		29,500	ft-Ib	_

Notes

- 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.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

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]

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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CONDITIONS

Action 383960

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	383960
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created	d By	Condition	Condition Date
ward.	.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	9/19/2024