

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

Sundry Print Report of 45

Well Name: POKER LAKE UNIT 22

DTD

Well Location: T24S / R30E / SEC 22 /

NWNE / 32.209422 / -103.867769

County or Parish/State: EDDY /

NM

Well Number: 186H Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Lease Number: NMNM068905

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549889

Operator: XTO PERMIAN OPERATING

LLC

Notice of Intent

Sundry ID: 2786004

Type of Submission: Notice of Intent

Date Sundry Submitted: 04/19/2024

Type of Action: APD Change

Time Sundry Submitted: 01:57

Date proposed operation will begin: 05/03/2024

Procedure Description: POKER LAKE UNIT 22 DTD 186H SUNDRY LANGUAGE 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: 100' FSL & 1650' FWL OF SECTION 15-T24S-R30E 100' FNL & 2282' FEL OF SECTION 22-T24S-R30E LTP: 330' FNL & 1650' FEL OF SECTION 3-T24S-R30E 2537' FNL & 2281' FEL OF SECTION 34-T24S-R30E BHL: 200' FNL & 1650' FEL OF SECTION 3-T24S-R30E 2627' FNL & 2281' FEL OF SECTION 34-T24S-R30E The proposed total depth is changing from 27465' MD; 11585' TVD (Jennings/WOLFCAMP (GAS)) to 24134' MD; 11363' TVD (Wolfcamp A). 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 Plan, MBS

NOI Attachments

Procedure Description

PLU_22_DTD_186H_Sundry_Documents_20240822153915.pdf

Released to Imaging: 11/1/2024 9:39:41 AM

DTD

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Unit or CA Name:

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US Well Number: 3001549889

Operator: XTO PERMIAN OPERATING

LLC

Conditions of Approval

Additional

Poker_Lake_Unit_22_DTD_186H_COA_20241023070700.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: ADRIAN BAKER Signed on: AUG 22, 2024 03:39 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (432) 236-3808

Email address: ADRIAN.BAKER@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: 10/24/2024 Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

	Expires. October 51, 2
Lease Serial No.	NMLC068905

DEI	THE THE LETTERS	MON				*
BUR	EAU OF LAND MANAGE	5. Lease Serial No. NMLC068905				
Do not use this t	IOTICES AND REPORTS form for proposals to dri Use Form 3160-3 (APD)	ill or to re-e	enter an	6. If Indian, Allottee or Tril	be Name	
SUBMIT IN	TRIPLICATE - Other instructions	s on page 2		7. If Unit of CA/Agreemen	t, Name a	nd/or No.
1. Type of Well				8. Well Name and No.		
Oil Well Gas W	_		POKER LAKE UNIT 22 DTD/186H			
2. Name of Operator XTO PERMIAN	OPERATING LLC		9. API Well No. 30015498	389		
3a. Address 6401 HOLIDAY HILL R		le area code)	10. Field and Pool or Explo Jennings/BONE SPRING	oratory Ai	ea	
4. Location of Well (Footage, Sec., T., R SEC 22/T24S/R30E/NMP	R.,M., or Survey Description)	11. Country or Parish, State	e			
12. CHE	CK THE APPROPRIATE BOX(ES	S) TO INDICAT	E NATURE C	OF NOTICE, REPORT OR (THER D	ATA
TYPE OF SUBMISSION			ТҮРЕ	OF ACTION		
Notice of Intent	Acidize	Deepen		Production (Start/Resum	ne)	Water Shut-Off
Totale of Intent	Alter Casing [Hydraulic F	racturing	Reclamation		Well Integrity
Subsequent Report	Casing Repair	New Constr	ruction	Recomplete		Other
	Change Plans	Plug and Al	oandon [Temporarily Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal		
LTP, BHL, Casing sizes, Cemer FROM: TO: FTP: 100' FSL & 1650' FWL C LTP: 330' FNL & 1650' FEL O BHL: 200' FNL & 1650' FEL O Continued on page 3 additiona	tices must be filed only after all requires must be filed only after all requires approval to the second of the se	to make the fo formation (Poo D' FNL & 2282' " FNL & 2281'	llowing chang	cion, have been completed and ges to the approved APD. CTION 22-T24S-R30E CTION 34-T24S-R30E	nd the ope	erator has detennined that the site
14. I hereby certify that the foregoing is		yped)	Regulatory /	Analyst		
ADRIAN BAKER / Ph: (432) 236-38	508	Title				
Signature (Electronic Submission	on)	Date		08/22	2/2024	
	THE SPACE FOR	R FEDERA	L OR STA	TE OFICE USE		
Approved by						40/04/555
CHRISTOPHER WALLS / Ph: (575	5) 234-2234 / Approved		Petrole Title	eum Engineer	Date	10/24/2024
Conditions of approval, if any, are attacl certify that the applicant holds legal or ϵ which would entitle the applicant to con	equitable title to those rights in the		Office CARI	LSBAD		
Title 19 H S C Section 1001 and Title 4	2 II S.C. Spotion 1212, make it a ami	ma far anti nara	on Imorringly	and willfully to make to any	. donortm	ant ar aganay of the United States

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

The proposed total depth is changing from 27465 MD; 11585 TVD (Jennings/WOLFCAMP (GAS)) to 24134 MD; 11363 TVD (Wolfcamp A).

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 Plan, MBS

Location of Well

0. SHL: NWNE / 414 FNL / 2316 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.209422 / LONG: -103.867769 (TVD: 0 feet, MD: 0 feet) PPP: SWNE / 100 FSL / 1577 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210805 / LONG: -103.872488 (TVD: 11585 feet, MD: 14575 feet) PPP: SWSE / 100 FSL / 1650 FEL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210849 / LONG: -103.865612 (TVD: 11585 feet, MD: 11935 feet) PPP: NWNE / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 10 / LAT: 32.253158 / LONG: -103.865645 (TVD: 11585 feet, MD: 17215 feet) BHL: LOT 2 / 199 FNL / 1650 FEL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.25354 / LONG: -103.865585 (TVD: 11585 feet, MD: 27465 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
LEASE NO.: NMLC068905
LOCATION: Sec. 22, T.24 S, R 30 E

COUNTY: Eddy County, New Mexico ▼

WELL NAME & NO.: Poker Lake Unit 22 DTD 186 H

SURFACE HOLE FOOTAGE: 414'/N & 2316'/E
BOTTOM HOLE FOOTAGE: 2627'/N & 2281'/E

Changes approved through engineering via **Sundry 2786004** on _9-13-2024__. Any previous COAs not addressed within the updated COAs still apply.

COA

H_2S	•	No	O Yes		
Potash /	None	Secretary	O R-111-Q	☐ Open Annulus	
WIPP	Choose	e an option (including bla	nk option.)	□ WIPP	
Cave / Karst	• Low	O Medium	O High	Critical	
Wellhead	Conventional	Multibowl	O Both	O Diverter	
Cementing	Primary Squeeze	☐ Cont. Squeeze	EchoMeter	☐ DV Tool	
Special Req	☐ Capitan Reef	☐ Water Disposal	\square COM	Unit	
Waste Prev.	O Self-Certification	O Waste Min. Plan	• APD Submitted 1	prior to 06/10/2024	
Additional	✓ Flex Hose	Casing Clearance	☐ Pilot Hole	Break Testing	
Language	\square 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 894 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 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 6466'
 - 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 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.

Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- a. 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.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. 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.
- d. 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**; (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 10/23/2024 575-234-5998 / zstevens@blm.gov

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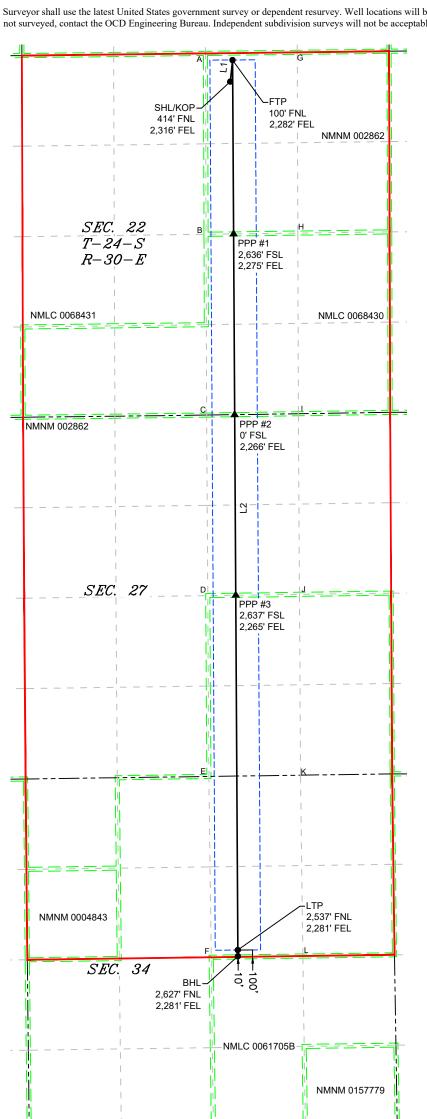
Sumbit electronically Energy, Minerals & Nat OIL CONVER						l Resources Department	i		Re	evised July, 09 2024	
Via OCI	D Permitting								☐Initial Sub	nittal	
								Submital Type:	Amended I	Report	
									☐ As Drilled		
					WELL LOCAT	TION INFORMATION			•		
API Nur	mber 30-01	5-	Pool Code	98220	1	Pool Name	PLE SAGE	; WOLFC	AMP (GAS)		
Property	Code		Property N	ame	POKER LA	AKE UNIT 22 DTD			Well Number	186H	
OGRID	No. 37307	5	Operator N		XTO PERMIA	N OPERATING, LLO	C.		Ground Level	Elevation 8,412'	
Surface (Owner: S	tate Fee	Tribal ⊠Fe	deral		Mineral Owner:	tate Fee	□Tribal 🛛 F	ederal	_	
					Surface	e Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
В	22	24\$	30E		414 FNL	2,316 FEL	32.209	422 -1	03.867769	EDDY	
					Bottom	Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
G	34	248	30E		2,627 FNL	2,281 FEL	32.174	360 -1	03.867585	EDDY	
 Dedicate	ed Acres	Infill or Defir	ning Well	Defining	Well API	Overlapping Spacing	Unit (Y/N)	Consolidation	on Code		
1,6	00.00	INF	ILL	30-	015-49881	Υ			U		
Order N	umbers.					Well Setbacks are und	er Common O	wnership:	ip: ⊠Yes □No		
					W. L. O	ern : ((ZOD)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
В	22	248	30E		414 FNL	2,316 FEL	32.209		03.867769	EDDY	
					First Ta	ake Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
В	22	248	30E		100 FNL	2,282 FEL	32.210	286 -1	03.867657	EDDY	
		l			Last Ta	ke Point (LTP)	<u> </u>				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County	
G	34	24\$	30E		2,537 FNL	2,281 FEL	32.174	608 -1	03.867586	EDDY	
Unitized	l Area of Are	a of Interest		Spacing Un	it Type: ⊠Horiz	ontal □Vertical	Grour	nd Elevation	3,412'		
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFIC	ATIONS				
I hereby best of n that this in the lan at this lo unleased pooling If this we received unleased which ar	certify that to the control of the c	he information of and belief, and either owns a v	, if the well is working interestom hole locate with an own tary pooling on the division her certify the cassee or ownect (in the targed interval will appear to the cary with the targed interval will appear to the targed to the targed the targed to the targed the	vertical or d est or unlease eation or has ear of a worki agreement or e t this organi er of a workin et pool or inf	d mineral interest a right to drill this ng interest or a compulsory cation has g interest or formation) in	I hereby certify that the v actual surveys made by n correct to the best of my	vell location sh ie or under my	supervision,	and that the sam	te is true and	
Signatur			10/29 Date	0/2024		Signature and Seal of Pro	fessional Surv	eyor		80,	
Printed 1		ian tian@exxo	onmobil.	com		MARK DILLON HARP 2378 Certificate Number		Survey	618.01300	2 09 E0	

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

ACREAGE DEDICATION PLATS

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 a 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 then the First Take Point and Last Take Point) that is closest to any outer boundary of the treet. Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



	LEGEND							
		SECTION LINE						
		PROPOSED WELL BORE						
=	====	NEW MEXICO MINERAL LEASE						
		330' BUFFER						
		ALLOCATION AREA						

LINE TABLE						
LINE	AZIMUTH	LENGTH				
L1	006°02'06"	316.19'				
L2	179*39'14"	13,069.37				

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		N		440,174.6	
		E	X =		E
	32.209422		LAT. =	32.209298	°N
	103.867769			103.867282	°W
	IAD 83 NME	:)		NAD 27 NME	:)
Y=	440,548.1	Ν	Y =	440,489.0	N
X =	685,361.8	E	X =	644,178.1	Е
LAT. =	32.210286	°N	LAT. =	32.210162	°N
	103.867657	°W	LONG. =	103.867171	°W
	(NAD 83 NM			(NAD 27 NM	E)
	•	N.	Y =		N.
		E	X =		E
		°N		32.203189	
	103.867643		LONG. =		
	(NAD 83 NM	_		(NAD 27 NM	_
		N		435,316.7	Ν
		E	X =		E
	32.196067	°N		32.195943	°N
LONG. =	103.867629	°W	LONG. =	103.867143	°W
PPP #3	(NAD 83 NM	E)	PPP #3	(NAD 27 NM	E)
Y =	432,742.9	N	Y =	432,684.0	N
X =	685,408.8	E	X =	644,224.8	E
	32.188830			32.188706	°N
	103.867615			103.867129	°W
	IAD 83 NME			NAD 27 NME	
		_		427,510.2	_
		N			N
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LAT. =		°N	LAT. =	32.174483	°N
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LONG. =	103.867585	°W	LONG. =	103.867100	°W
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		N		684,984.2	E
	432,737.2	N		685,000.6	E
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NMNM 0030452

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

XTO Energy Inc.

POKER LAKE UNIT 22 DTD 186H

Projected TD: 24134' MD / 11363' TVD

SHL: 414' FNL & 2316' FEL , Section 22, T24S, R30E

BHL: 2627' FNL & 2281' FEL , Section 34, T24S, R30E

EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1129'	Water
Top of Salt	1532'	Water
Base of Salt	3725'	Water
Delaware	3919'	Water
Brushy Canyon	6465'	Water/Oil/Gas
Bone Spring	7789'	Water
Avalon	8482'	Water/Oil/Gas
1st Bone Spring	8498'	Water/Oil/Gas
2nd Bone Spring	9083'	Water/Oil/Gas
3rd Bone Spring	9909'	Water/Oil/Gas
Wolfcamp	11094'	Water/Oil/Gas
Wolfcamp X	11115'	Water/Oil/Gas
Wolfcamp Y	11196'	Water/Oil/Gas
Wolfcamp A	11243'	Water/Oil/Gas
Target/Land Curve	11363'	Water/Oil/Gas
_	·	

^{***} 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 @ 1229' (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 10456' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24134 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10156 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1229'	9.625	40	J-55	втс	New	1.59	5.12	12.82
8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.20	2.92	1.80
8.75	4000' – 10456'	7.625	29.7	HC L-80	Flush Joint	New	1.60	2.29	2.12
6.75	0' – 10356'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.79	1.99
6.75	10356' - 24134'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.63	1.99

[•] 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).

^{· 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:

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

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1229'

Lead: 310 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 +/- 10456'

st Stage

Optional Lead: 350 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 @ 6465

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: 730 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 (6465') 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 +/- 24134'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10156 feet
Tail: 960 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10656 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 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Pipe Ram BOP and 10M Blind Ram. 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 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.

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).

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 1229'	12.25	FW/Native	8.7-9.2	35-40	and the second	Fresh Water or Native Water
1229'-3919'		Salt Saturated	10.5-11			Fully Saturated salt across salado / /salt
3919' - 10456'	8.75	BDE / OBM	9-9.5	30-32	NC	N/A
10456' - 24134'	6.75	ОВМ	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 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 6795 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 22 DTD South 186H

3/2		Well Plan Report
	Well Plan Keport - Poker Lake Unit 22 DTD South 186H	
Measured Depth:	24133.74 ft	
	11363.00 ft	
Cartographic Reference System:	New Mexico East - NAD 27	
Northing:	440174.60 ft	
Easting:	644144.90 ft	
RKB:	3444.00 ft	
Ground Level:	3412.00 ft	
North Reference:	Grid	
Convergence Angle:	0.25 Deg	

Plan Sections	Po	Poker Lake Unit 22 DTD South 186H	OTD South 186H					
Measured			TVD			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(#)	(Ded)	(Deg)	(#)	(#)	(#)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
00.00	00.00	00.00	00.00	00.00	00.00	0.00	00.00	0.00
1100.00	00.00	00.00	1100.00	00.00	00.00	0.00	0.00	0.00
1266.50	3.33	6.03	1266.41	4.81	0.51	2.00	0.00	2.00
6542.59	3.33	6.03	6533.59	309.59	32.69	0.00	0.00	0.00
6709.10	00.00	00.00	6700.00	314.40	33.20	-2.00	0.00	2.00
10655.90	00.00	00.00	10646.80	314.40	33.20	0.00	0.00	0.00
11780.90	00.06	179.66	11363.00	-401.78	37.49	8.00	0.00	8.00
24043.73	00.06	179.66	11363.00	-12664.40	110.90	0.00	0.00	0.00 LTP 15
24133.74	00.06	179.66	11363.00	-12754.40	111.44	0.00	00.0	0.00 BHL 15

	Tool	Used
	Semi- Semi- Semi- Tool major minor	Azimuth
	Semi- minor	Error
	Semi- major	Error
	Magnitude	of Bias
		Bias
	Vertical	Error Bias
ï		Error Bias
South 186	Lateral	Error
2 DTD §		Bias
ake Unit 22 DTD South 186H	TVD Highside	Error Bias
Poker Lak	ΔΛΣ	RKB
Position Uncertainty	Measured	Depth Inclination Azimuth

	(ft) (°)	0.000 0.000 MWD+IFR1+MS	0.220 112.264 MWD+IFR1+MS	0.627 122.711 MWD+IFR1+MS	0.986 125.469 MWD+IFR1+MS	1.344 126.713 MWD+IFR1+MS	1.701 127.419 MWD+IFR1+MS	2.059 127.873 MWD+IFR1+MS	2.417 128.190 MWD+IFR1+MS	2.775 128.423 MWD+IFR1+MS	3.133 128.602 MWD+IFR1+MS	3.491 128.744 MWD+IFR1+MS	3.849 128.859 MWD+IFR1+MS	4.215 125.550 MWD+IFR1+MS	4.462 123.152 MWD+IFR1+MS	4.581 122.971 MWD+IFR1+MS	4.937 123.116 MWD+IFR1+MS	5.298 123.767 MWD+IFR1+MS	5.657 124.351 MWD+IFR1+MS	6.017 124.877 MWD+IFR1+MS	6.376 125.353 MWD+IFR1+MS	6.736 125.784 MWD+IFR1+MS	7.095 126.175 MWD+IFR1+MS	7.454 126.532 MWD+IFR1+MS	7.812 126.857 MWD+IFR1+MS	8.171 127.155 MWD+IFR1+MS	8.530 127.428 MWD+IFR1+MS	8.889 127.679 MWD+IFR1+MS	9.248 127.910 MWD+IFR1+MS	9.606 128.123 MWD+IFR1+MS	9.965 128.319 MWD+IFR1+MS	10.324 128.500 MWD+IFR1+MS	10.683 128.668 MWD+IFR1+MS	11.042 128.823 MWD+IFR1+MS
	(#)	0.000	0.751	1.259	1.698	2 108	2.503	2.888	3.267	3.642	4.014	4.384	4.752	5.289	5.633	5.737	6.052	6.400	6.750	7.101	7.453	7.805	8 159	8.513	8.867	9.222	9.578	9.934	10.290	10.646	11.003	11.360 10	11.717 10	12.074
Well Plan Report	(#)	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	(ff) (ft)	0.000 0.000	2.300 0.000	2.310 0.000	2.325 0.000	2.347 0.000	2.374 0.000	2.407 0.000	2.444 0.000	2.486 0.000	2.532 0.000	2.582 0.000	2.636 0.000	2.692 0.000	2.731 0.000	2.750 0.000	2.813 0.000	2.879 0.000	2.947 0.000	3.017 0.000	3.090 0.000	3.164 0.000	3.241 0.000	3.319 0.000	3.399 0.000	3.481 0.000	3.564 0.000	3.648 0.000	3.734 0.000	3.821 0.000	3.910 0.000	4.000 0.000	4.091 0.000	4.183 0.000
	(#) (#)	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	4.499 0.000	4.729 0.000	4.841 0.000	5.188 0.000	5.555 0.000	5.921 0.000	6.286 0.000	0.000 059.9	7.014 0.000	7.377 0.000	7.740 0.000	8.103 0.000	8.465 0.000	8.827 0.000	9.188 0.000	9.550 0.000	9.911 0.000	10.272 0.000	10.633 0.000	10.994 0.000	11.354 0.000
	(#) (#)	0.000 0.000	0.700 0.000	1.112 0.000	1.497 0.000	1.871 0.000	2.240 0.000	2.607 0.000	2.971 0.000	3.334 0.000	3.696 0.000	4.058 0.000	4.419 0.000	5.047 0.000	5.403 0.000	5.512 0.000	5.831 0.000	6.172 0.000	6.514 0.000	000.0 658.9	7.205 0.000	7.552 0.000	7.901 0.000	8.250 0.000	8.601 0.000	8.952 0.000	9.304 0.000	9.657 0.000	10.010 0.000	10.364 0.000	10.719 0.000	11.073 0.000	11.429 0.000	11.784 0.000
	(#)	0.000	100.000	200.000	300,000	400.000	200,000	000.009	700,000	800.000	000.006	1000.000	1100.000	1199.980	1266.408	1299.850	1399.681	1499 512	1599 343	1699 174	1799.005	1898.837	1998.668	2098.499	2198.330	2298.161	2397.992	2497.824	2597 655	2697.486	2797.317	2897.148	2996.979	3096.810
	0	0.000	0.000	0.000	0.000	0.000	000.0	0.000	0.000	0.000	0.000	0.000	0.000	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028
	0)	0.000	0.000	0.000	0.000	0.000	0000	0.000	0000	0.000	0.000	0.000	0.000	2.000	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330
3/4/24, 9:46 PM	(#)	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	1266.501	1300.000	1400.000	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	3000.000	3100.000
	leas	ed t	o In	nagi	ing:	11/	1/20	024	9:39	0:41	AM	ſ																						

	128.966 MWD+IFR1+MS	129.100 MWD+IFR1+MS	129,223 MWD+IFR1+MS	129.338 MWD+IFR1+MS	129,444 MWD+IFR1+MS	129.543 MWD+IFR1+MS	129,634 MWD+IFR1+MS	129.719 MWD+IFR1+MS	129.798 MWD+IFR1+MS	129.871 MWD+IFR1+MS	129.939 MWD+IFR1+MS	130.002 MWD+IFR1+MS	130.060 MWD+IFR1+MS	130.114 MWD+IFR1+MS	130.164 MWD+IFR1+MS	130.210 MWD+IFR1+MS	130.252 MWD+IFR1+MS	130.291 MWD+IFR1+MS	130.326 MWD+IFR1+MS	130.359 MWD+IFR1+MS	130.388 MWD+IFR1+MS	130.415 MWD+IFR1+MS	130,439 MWD+IFR1+MS	130,461 MWD+IFR1+MS	130.480 MWD+IFR1+MS	130.497 MWD+IFR1+MS	130.512 MWD+IFR1+MS	130.525 MWD+IFR1+MS	130,536 MWD+IFR1+MS	130.545 MWD+IFR1+MS	130,553 MWD+IFR1+MS	130.558 MWD+IFR1+MS	130.563 MWD+IFR1+MS	130.565 MWD+IFR1+MS
	12.431 11.400	12.789 11.759	13.147 12.118	13.505 12.477	13.862 12.836	14.220 13.194	14.579 13.553	14.937 13.912	15.295 14.271	15.653 14.630	16.012 14.989	16.370 15.348	16.729 15.707	17.087 16.065	17.446 16.424	17.805 16.783	18.164 17.142	18.522 17.501	18.881 17.860	19.240 18.219	19.599 18.578	19.958 18.937	20.317 19.296	20.676 19.655	21.035 20.014	21.394 20.373	21.753 20.732	22.112 21.091	22.471 21.450	22.830 21.809	23.190 22.168	23.549 22.527	23.908 22.886	24.267 23.246
Well Plan Report	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	0.000
Well	4.277 0.000	4.373 0.000	4.469 0.000	4.567 0.000	4.666 0.000	4.767 0.000	4.869 0.000	4.972 0.000	5.077 0.000	5.184 0.000	5.292 0.000	5.401 0.000	5.512 0.000	5.625 0.000	5.739 0.000	5.855 0.000	5.973 0.000	6.093 0.000	6.214 0.000	6.337 0.000	6.462 0.000	6.589 0.000	6.718 0.000	6.849 0.000	6.982 0.000	7.117 0.000	7.255 0.000	7.394 0.000	7.535 0.000	7.679 0.000	7.825 0.000	7.973 0.000	8.123 0.000	8.276 0.000
	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	00000	0.000	0.000	0.000	0.000	0.000	0.000	00000	0.000	0.000	0.000	0.000	0.000
	11,715	12.075	12.435	12.795	13 155	13.515	13.875	14.235	14.595	14.955	15.315	15.674	16.034	16.393	16.753	17.112	17.472	17.831	18.191	18.550	18.909	19.269	19.628	19 987	20.346	20.706	21.065	21.424	21.783	22.142	22.501	22.861	23.220	23.579
	12.140 0.000	12.496 0.000	12,852 0,000	13.209 0.000	13.566 0.000	13.923 0.000	14.280 0.000	14.637 0.000	14.995 0.000	15.352 0.000	15.710 0.000	16.068 0.000	16.426 0.000	16.785 0.000	17.143 0.000	17.501 0.000	17.860 0.000	18.219 0.000	18.577 0.000	18.936 0.000	19.295 0.000	19.654 0.000	20.013 0.000	20.372 0.000	20.731 0.000	21.090 0.000	21.450 0.000	21.809 0.000	22.168 0.000	22.528 0.000	22.887 0.000	23.247 0.000	23.606 0.000	23.966 0.000
	3196.642	3296.473	3396.304	3496 135	3595 966	3695 797	3795.628	3895.460	3995,291	4095.122	4194 953	4294.784	4394.615	4494.447	4594 278	4694.109	4793.940	4893.771	4993.602	5093.433	5193.265	5293.096	5392.927	5492.758	5592.589	5692.420	5792.252	5892.083	5991.914	6091.745	6191.576	6291.407	6391.238	6491.070
	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028	6.028
	3.330	3.330	3,330	3.330	3.330	3.330	3.330	3.330	3,330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3,330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3.330	3,330	3.330	3.330	3.330	3.330	3.330
3/4/24, 9:46 PM	3200.000	3300.000	3400,000	3500.000	3600.000	3700.000	3800,000	3900.000	4000,000	4100.000	4200.000	4300.000	4400.000	4500.000	4600.000	4700.000	4800.000	4900.000	2000.000	5100.000	5200.000	5300.000	5400.000	5500.000	2600.000	5700.000	2800.000	2900.000	000.0009	6100.000	6200.000	6300.000	6400.000	6500.000
	leas	ed t	o In	nagi	ing:	11/	1/20	024	9:39	0:41	AM	1																						

	130,515 MWD+IFR1+MS	130.370 MWD+IFR1+MS	128,317 MWD+IFR1+MS	127.561 MWD+IFR1+MS	127,560 MWD+IFR1+MS	127.568 MWD+IFR1+MS	127.575 MWD+IFR1+MS	127.583 MWD+IFR1+MS	127.590 MWD+IFR1+MS	127.597 MWD+IFR1+MS	127.604 MWD+IFR1+MS	127.610 MWD+IFR1+MS	127.617 MWD+IFR1+MS	127.623 MWD+IFR1+MS	127.629 MWD+IFR1+MS	127.635 MWD+IFR1+MS	127.641 MWD+IFR1+MS	127.647 MWD+IFR1+MS	127.652 MWD+IFR1+MS	127.658 MWD+IFR1+MS	127.663 MWD+IFR1+MS	127.668 MWD+IFR1+MS	127.673 MWD+IFR1+MS	127.678 MWD+IFR1+MS	127.683 MWD+IFR1+MS	127.688 MWD+IFR1+MS	127.693 MWD+IFR1+MS	127.697 MWD+IFR1+MS	127.702 MWD+IFR1+MS	127.706 MWD+IFR1+MS	127.710 MWD+IFR1+MS	127.715 MWD+IFR1+MS	127.719 MWD+IFR1+MS	127.723 MWD+IFR1+MS
	24.415 23.398	24.618 23.604	25.073 24.008	25.425 24.336	25.779 24.692	26.135 25.048	26.490 25.404	26.846 25.760	27.202 26.116	27.558 26.473	27.914 26.829	28.270 27.185	28.626 27.542	28.982 27.898	29.338 28.255	29.694 28.612	30.050 28.968	30.407 29.325	30.763 29.682	31.119 30.039	31.476 30.395	31.832 30.752	32.189 31.109	32.546 31.466	32.902 31.823	33.259 32.180	33.616 32.537	33.972 32.894	34.329 33.251	34.686 33.609	35.043 33.966	35.400 34.323	35.757 34.680	36.113 35.037
Well Plan Report	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	0.000
Well	8.342 0.000	8.431 0.000	8.602 0.000	8.745 0.000	8.905 0.000	9.068 0.000	9.233 0.000	9.400 0.000	9.570 0.000	9.743 0.000	9.918 0.000	10.096 0.000	10.277 0.000	10.460 0.000	10.647 0.000	10.835 0.000	11.027 0.000	11.221 0.000	11.419 0.000	11.619 0.000	11.821 0.000	12.027 0.000	12.235 0.000	12.447 0.000	12.661 0.000	12.878 0.000	13.098 0.000	13.320 0.000	13.546 0.000	13.775 0.000	14.006 0.000	14.241 0.000	14.478 0.000	14.718 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	0.000	0.000
	23.729	23.931	24.423	24.746	25.101	25.457	25.813	26.169	26.525	26.882	27.238	27.594	27.951	28.307	28.663	29.020	29.377	29.733	30.090	30.446	30.803	31.160	31.517	31.874	32.231	32.588	32.944	33.301	33,658	34.016	34.373	34.730	35.087	35.444
	24.116 0.000	24 323 0 000	24.669 0.000	25.026 0.000	25.381 0.000	25.736 0.000	26.092 0.000	26.447 0.000	26.803 0.000	27.159 0.000	27.515 0.000	27.871 0.000	28.227 0.000	28.583 0.000	28.939 0.000	29.295 0.000	29.651 0.000	30.008 0.000	30.364 0.000	30.720 0.000	31.077 0.000	31.433 0.000	31.790 0.000	32.147 0.000	32.503 0.000	32.860 0.000	33.217 0.000	33.573 0.000	33.930 0.000	34.287 0.000	34.644 0.000	35.001 0.000	35.357 0.000	35.714 0.000
	6533,592	6590.930	6700.000	6790.904	6890.904	6990.904	7090.904	7190.904	7290.904	7390.904	7490.904	7590.904	7690.904	7790.904	7890.904	7990.904	8090.904	8190.904	8290.904	8390.904	8490.904	8590.904	8690.904	8790.904	8890.904	8990.904	9090.904	9190.904	9290.904	9390.904	9490.904	9590.904	9690.904	9790.904
	6.028	6.028	0000	0.000	0.000	0.000	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	0.000	0.000	0.000
	3.330	2.182	0000	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	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
3/4/24, 9:46 PM	6542,595	000 0099	960'6029	000.0089	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	9400.000	9200.000	000'0096	9700.000	9800.000
	leas	ed t	o In	nagi	ing:	11/	1/20	024	9:39	9:41	AM	ſ																						

	7 MWD+IFR1+MS	1 MWD+IFR1+MS	5 MWD+IFR1+MS	8 MWD+IFR1+MS	2 MWD+IFR1+MS	6 MWD+IFR1+MS	9 MWD+IFR1+MS	3 MWD+IFR1+MS	1 MWD+IFR1+MS	1 MWD+IFR1+MS	0 MWD+IFR1+MS	0 MWD+IFR1+MS	4 MWD+IFR1+MS	1 MWD+IFR1+MS	5 MWD+IFR1+MS	4 MWD+IFR1+MS	7 MWD+IFR1+MS	9 MWD+IFR1+MS	5 MWD+IFR1+MS	4 MWD+IFR1+MS	6 MWD+IFR1+MS	7 MWD+IFR1+MS	2 MWD+IFR1+MS	6 MWD+IFR1+MS	7 MWD+IFR1+MS	6 MWD+IFR1+MS	9 MWD+IFR1+MS	2 MWD+IFR1+MS	0 MWD+IFR1+MS	3 MWD+IFR1+MS	:0 MWD+IFR1+MS	5 MWD+IFR1+MS	4 MWD+IFR1+MS	7 MWD+IFR1+MS
	127.727	127.731	127.735	127.738	127.742	127.746	127.749	127.753	127.731	127.481	116.300	106.640	102.904	101.151	100.275	99.874	99.767	99.849	100.045	100.274	100.406	100.427	100.572	100.756	100.977	101.236	101.539	101.892	102.300	102.773	103.320	103.955	104.694	105.557
	36.470 35.395	36.827 35.752	37 184 36 109	37.542 36.467	37.899 36.824	38.256 37.181	38 613 37 539	38.970 37.896	39 166 38 096	39.317 38.248	40.049 38.686	41.231 39.072	42.321 39.380	43.256 39.647	44.016 39.882	44.599 40.087	45.012 40.263	45.275 40.410	45.418 40.528	45.475 40.617	45.486 40.668	45.488 40.677	45.495 40.737	45.504 40.814	45.514 40.904	45.525 41.008	45.537 41.125	45.551 41.255	45.566 41.398	45.583 41.553	45.602 41.720	45.622 41.899	45.645 42.089	45.671 42.290
Well Plan Report	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	0.000
Well	14.962 0.000	15.208 0.000	15.457 0.000	15.710 0.000	15.965 0.000	16.223 0.000	16.484 0.000	16.748 0.000	16.897 0.000	17.015 0.000	17.308 0.000	17.729 0.000	18.334 0.000	19.162 0.000	20.222 0.000	21.499 0.000	22.953 0.000	24.535 0.000	26.189 0.000	27.856 0.000	28.771 0.000	28.805 0.000	28.945 0.000	29.111 0.000	29.296 0.000	29.501 0.000	29.726 0.000	29.969 0.000	30.231 0.000	30.510 0.000	30.808 0.000	31.122 0.000	31.452 0.000	31.799 0.000
	35.801 0.000	36.158 0.000	36.516 0.000	36.873 0.000	37.230 0.000	37.588 0.000	37.945 0.000	38.302 0.000	38.500 0.000	38.653 -0.000	38.963 -0.000	39.261 -0.000	39.540 -0.000	39.797 -0.000	40.030 -0.000	40.237 -0.000	40.418 -0.000	40.571 -0.000	40.696 -0.000	40.792 -0.000	40.845 -0.000	40.855 -0.000	40.918 -0.000	40.998 -0.000	41.092 -0.000	41.200 -0.000	41.322 -0.000	41.457 -0.000	41.607 -0.000	41.770 -0.000	41.946 -0.000	42.135 -0.000	42.338 -0.000	42.553 -0.000
	36.071 0.000	36.428 0.000	36.785 0.000	37.142 0.000	37.500 0.000	37.857 0.000	38.214 0.000	38.571 0.000	38.769 0.000	38.799 0.000	38.975 0.000	39.081 0.000	38.622 0.000	37.667 0.000	36.311 0.000	34.683 0.000	32.948 0.000	31.308 0.000	29.996 0.000	29.246 0.000	28.771 0.000	28.805 0.000	28.945 0.000	29.111 0.000	29.296 0.000	29.501 0.000	29.726 0.000	29.969 0.000	30.231 0.000	30.510 0.000	30.808 0.000	31.122 0.000	31.452 0.000	31.799 0.000
	9890.904	9990.904	10090.904	10190.904	10290 904	10390.904	10490.904	10590.904	10646.800	10690.876	10789.934	10886.205	10977.817	11062.986	11140.054	11207.522	11264.076	11308.615	11340.273	11358.433	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997
	0.000	0.000	0000	0.000	0.000	0.000	0000	0.000	0000	179.657	179.657	179.657	179,657	179.657	179.657	179.657	179.657	179,657	179.657	179.657	179.657	179.657	179,657	179.657	179.657	179.657	179,657	179.657	179,657	179.657	179,657	179.657	179.657	179.657
	0.000	0.000	000'0	0.000	0.000	0.000	0000	0.000	000'0	3.528	11.528	19.528	27.528	35.528	43.528	51.528	59.528	67.528	75.528	83.528	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
3/4/24, 9:46 PM	000'0066	10000.000	10100,000	10200.000	10300.000	10400.000	10500,000	10600.000	10655,896	10700.000	10800.000	10900.000	11000.000	11100.000	11200.000	11300.000	11400.000	11500,000	11600.000	11700.000	11780.896	11800.000	11900.000	12000.000	12100.000	12200.000	12300.000	12400.000	12500.000	12600.000	12700.000	12800.000	12900.000	13000.000
	leas	ed t	o In	nagi	ing:	11/	1/20	024	9:39	9:41	AM	1																						

	106,572 MWD+IFR1+MS	107.771 MWD+IFR1+MS	109.199 MWD+IFR1+MS	110.910 MWD+IFR1+MS	112.973 MWD+IFR1+MS	115.472 MWD+IFR1+MS	118,499 MWD+IFR1+MS	122.136 MWD+IFR1+MS	126.423 MWD+IFR1+MS	131.296 MWD+IFR1+MS	-43.455 MWD+IFR1+MS	-38.165 MWD+IFR1+MS	-33.183 MWD+IFR1+MS	-28.753 MWD+IFR1+MS	-24.966 MWD+IFR1+MS	-21.800 MWD+IFR1+MS	-19.178 MWD+IFR1+MS	-17.007 MWD+IFR1+MS	-15.201 MWD+IFR1+MS	-13.688 MWD+IFR1+MS	-12.411 MWD+IFR1+MS	-11.322 MWD+IFR1+MS	-10.387 MWD+IFR1+MS	-9.578 MWD+IFR1+MS	-8.872 MWD+IFR1+MS	-8.252 MWD+IFR1+MS	-7.704 MWD+IFR1+MS	-7.217 MWD+IFR1+MS	-6.781 MWD+IFR1+MS	-6.390 MWD+IFR1+MS	-6.037 MWD+IFR1+MS	-5.718 MWD+IFR1+MS	-5.427 MWD+IFR1+MS	-5.161 MWD+IFR1+MS
	45.700 42.501 10	45.733 42.721 10	45.771 42.949 10	45.815 43.183 11	45.866 43.423 11	45.928 43.664 11	46.002 43.905 11	46.094 44.140 12	46.207 44.364 12	46.349 44.572 13	46.523 44.757 -4	46.734 44.918 -3	46.980 45.053 -3	47.260 45.165 -2	47.568 45.259 -2	47.901 45.338 -2	48.255 45.405 -1	48.627 45.464 -1	49.014 45.517 -1	49.415 45.565 -1	49.828 45.609 -1	50.253 45.651 -1	50.688 45.691 -1	51.132 45.730	51.585 45.767	52.047 45.803	52.517 45.839	52.994 45.875	53.480 45.910	53.972 45.945	54.471 45.980	54.976 46.015	55.488 46.050	56.006 46.086
Well Plan Report	0.000	0.000	0.000	0.000	0.000	0.000	000.0	0.000	000.0	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	32.161 0.000	32.537 0.000	32.929 0.000	33.334 0.000	33.752 0.000	34.184 0.000	34.627 0.000	35.083 0.000	35.550 0.000	36.029 0.000	36.517 0.000	37.016 0.000	37.525 0.000	38.044 0.000	38.571 0.000	39.107 0.000	39.651 0.000	40.203 0.000	40.763 0.000	41.330 0.000	41.904 0.000	42.485 0.000	43.072 0.000	43.665 0.000	44.265 0.000	44.870 0.000	45.481 0.000	46.097 0.000	46.717 0.000	47.343 0.000	47.974 0.000	48.609 0.000	49.248 0.000	49.892 0.000
	42,781 -0.000	43.021 -0.000	43.274 -0.000	43.538 -0.000	43.815 -0.000	44.102 -0.000	44.402 -0.000	44.712 -0.000	45.033 -0.000	45.365 -0.000	45.707 -0.000	46.059 -0.000	46.422 -0.000	46.794 -0.000	47.175 -0.000	47.566 -0.000	47.966 -0.000	48.375 -0.000	48.792 -0.000	49.218 -0.000	49.652 -0.000	50.093 -0.000	50.543 -0.000	51.000 -0.000	51.464 -0.000	51.936 -0.000	52.414 -0.000	52.899 -0.000	53.391 -0.000	53.889 -0.000	54.394 -0.000	54.904 -0.000	55.420 -0.000	55.942 -0.000
	32.161 0.000	32.537 0.000	32.929 0.000	33.334 0.000	33.752 0.000	34.184 0.000	34.627 0.000	35.083 0.000	35.550 0.000	36.029 0.000	36.517 0.000	37.016 0.000	37.525 0.000	38.044 0.000	38.571 0.000	39.107 0.000	39.651 0.000	40.203 0.000	40.763 0.000	41.330 0.000	41.904 0.000	42.485 0.000	43.072 0.000	43.665 0.000	44.265 0.000	44.870 0.000	45.481 0.000	46.097 0.000	46.717 0.000	47.343 0.000	47.974 0.000	48.609 0.000	49.248 0.000	49.892 0.000
	11362.997	11362.997	11362,997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362 997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362 997	11362.997
	179.657	179.657	179,657	179.657	179.657	179.657	179,657	179.657	179,657	179.657	179 657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179 657	179.657	179.657	179.657	179.657	179.657	179.657	179 657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657
	90.000	90.000	000'06	90.000	90.000	90.000	000 06	90.000	000 06	90.000	000 06	90.000	000.06	90.000	000 06	90.000	000 06	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
3/4/24, 9:46 PM	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	15800.000	15900.000	16000.000	16100.000	16200.000	16300.000	16400.000
	leas	ed t	o In	nagi	ing:	11/	1/20	024	9:39	9:41	AM	ſ																						

	-4.918 MWD+IFR1+MS	-4.695 MWD+IFR1+MS	-4.489 MWD+IFR1+MS	-4.299 MWD+IFR1+MS	-4.124 MWD+IFR1+MS	-3.960 MWD+IFR1+MS	-3.808 MWD+IFR1+MS	-3.667 MWD+IFR1+MS	-3.534 MWD+IFR1+MS	-3.410 MWD+IFR1+MS	-3.294 MWD+IFR1+MS	-3.185 MWD+IFR1+MS	-3.083 MWD+IFR1+MS	-2.986 MWD+IFR1+MS	-2.895 MWD+IFR1+MS	-2.809 MWD+IFR1+MS	-2.728 MWD+IFR1+MS	-2.651 MWD+IFR1+MS	-2.578 MWD+IFR1+MS	-2.508 MWD+IFR1+MS	-2.443 MWD+IFR1+MS	-2.380 MWD+IFR1+MS	-2.320 MWD+IFR1+MS	-2.264 MWD+IFR1+MS	-2.209 MWD+IFR1+MS	-2.158 MWD+IFR1+MS	-2.108 MWD+IFR1+MS	-2.061 MWD+IFR1+MS	-2.016 MWD+IFR1+MS	-1.973 MWD+IFR1+MS	-1.931 MWD+IFR1+MS	-1.891 MWD+IFR1+MS	-1.853 MWD+IFR1+MS	-1.817 MWD+IFR1+MS
eport	0.000 56.530 46.121	0.000 57.059 46.157	0.000 57.595 46.193	0.000 58.135 46.230	0.000 58.681 46.266	0.000 59.231 46.303	0.000 59.787 46.341	0.000 60.347 46.379	0.000 60.912 46.417	0.000 61.481 46.456	0.000 62.055 46.495	0.000 62.633 46.535	0.000 63.214 46.575	0.000 63.800 46.615	0.000 64.390 46.656	0.000 64.983 46.698	0.000 65.580 46.740	0.000 66.181 46.782	0.000 66.784 46.825	0.000 67.392 46.868	0.000 68.002 46.912	0.000 68.616 46.957	0.000 69.232 47.001	0.000 69.852 47.047	0.000 70.475 47.093	0.000 71.100 47.139	0.000 71.728 47.186	0.000 72.359 47.233	0.000 72.992 47.281	0.000 73.628 47.329	0.000 74.266 47.378	0.000 74.907 47.427	0.000 75.550 47.477	0.000 76.196 47.527
Well Plan Report	50.539 0.000 0.0	51.191 0.000 0.0	51.846 0.000 0.0	52.504 0.000 0.0	53.166 0.000 0.0	53.831 0.000 0.0	54.500 0.000 0.0	55.172 0.000 0.0	55.846 0.000 0.0	56.523 0.000 0.0	57.203 0.000 0.0	57.886 0.000 0.0	58.572 0.000 0.0	59.259 0.000 0.0	59.949 0.000 0.0	60.642 0.000 0.0	61.337 0.000 0.0	62.033 0.000 0.0	62.732 0.000 0.0	63.433 0.000 0.0	64.136 0.000 0.0	64.841 0.000 0.0	65.547 0.000 0.0	66.256 0.000 0.0	000.0 996.99	67.677 0.000 0.0	68.391 0.000 0.0	69.105 0.000 0.0	69.822 0.000 0.0	70.540 0.000 0.0	71.259 0.000 0.0	71.979 0.000 0.00	72.701 0.000 0.0	73.424 0.000 0.0
	56.470 -0.000	57.003 -0.000	57.541 -0.000	58.084 -0.000	58.632 -0.000	59.185 -0.000	59.743 -0.000	60.306 -0.000	60.872 -0.000	61.443 -0.000	62.019 -0.000	62.598 -0.000	63.181 -0.000	63.769 -0.000	64.359 -0.000	64.954 -0.000	65.552 -0.000	66.154 -0.000	000'0- 65'29	67.367 -0.000	67.978 -0.000	68.593 -0.000	69.210 -0.000	69.831 -0.000	70.454 -0.000	71.080 -0.000	71.709 -0.000	72.340 -0.000	72.974 -0.000	73.611 -0.000	74.249 -0.000	74.891 -0.000	75.534 -0.000	76.180 -0.000
	50.539 0.000	51.191 0.000	51.846 0.000	52.504 0.000	53.166 0.000	53.831 0.000	54.500 0.000	55.172 0.000	55.846 0.000	56.523 0.000	57.203 0.000	57.886 0.000	58.572 0.000	59.259 0.000	59.949 0.000	60.642 0.000	61.337 0.000	62.033 0.000	62.732 0.000	63.433 0.000	64.136 0.000	64.841 0.000	65.547 0.000	66.256 0.000	000.0 996.99	67.677 0.000	68.391 0.000	69.105 0.000	69.822 0.000	70.540 0.000	71.259 0.000	71.979 0.000	72.701 0.000	73.424 0.000
	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997
	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17	90.000 17
3/4/24, 9:46 PM	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	19100.000	19200.000	19300.000	19400.000	19500,000	19600.000	19700.000	19800.000
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	-1.781 MWD+IFR1+MS	-1.748 MWD+IFR1+MS	-1.715 MWD+IFR1+MS	-1.684 MWD+IFR1+MS	-1.653 MWD+IFR1+MS	-1.624 MWD+IFR1+MS	-1.596 MWD+IFR1+MS	-1.569 MWD+IFR1+MS	-1.543 MWD+IFR1+MS	-1.518 MWD+IFR1+MS	-1.493 MWD+IFR1+MS	-1.470 MWD+IFR1+MS	-1.447 MWD+IFR1+MS	-1.425 MWD+IFR1+MS	-1.404 MWD+IFR1+MS	-1.383 MWD+IFR1+MS	-1.363 MWD+IFR1+MS	-1.344 MWD+IFR1+MS	-1.325 MWD+IFR1+MS	-1.307 MWD+IFR1+MS	-1.289 MWD+IFR1+MS	-1.272 MWD+IFR1+MS	-1.255 MWD+IFR1+MS	-1.239 MWD+IFR1+MS	-1.224 MWD+IFR1+MS	-1.208 MWD+IFR1+MS	-1.194 MWD+IFR1+MS	-1.179 MWD+IFR1+MS	-1.165 MWD+IFR1+MS	-1.152 MWD+IFR1+MS	-1.138 MWD+IFR1+MS	-1.125 MWD+IFR1+MS	-1.113 MWD+IFR1+MS	-1.101 MWD+IFR1+MS
Well Plan Report	0.000 76.843 47.578	0.000 77.493 47.629	0.000 78.145 47.681	0.000 78.799 47.733	0.000 79.455 47.786	0.000 80.113 47.839	0.000 80.772 47.893	0.000 81.434 47.947	0.000 82.097 48.002	0.000 82.763 48.057	0.000 83.430 48.113	0.000 84.098 48.169	0.000 84.769 48.226	0.000 85.441 48.283	0.000 86.114 48.340	0.000 86.789 48.399	0.000 87.466 48.457	0.000 88.144 48.516	0.000 88.823 48.576	0.000 89.504 48.636	0.000 90.186 48.696	0.000 90.869 48.757	0.000 91.554 48.819	0.000 92.240 48.881	0.000 92.928 48.943	0.000 93.616 49.006	0.000 94.306 49.069	0.000 94.997 49.133	0.000 95.689 49.197	0.000 96.382 49.262	0.000 97.076 49.327	0.000 97.772 49.393	0.000 98.468 49.459	0.000 99.165 49.525
Well Pla	74.149 0.000	74.875 0.000	75.601 0.000	76.329 0.000	77.058 0.000	77.789 0.000	78.520 0.000	79.252 0.000	79.985 0.000	80.720 0.000	81.455 0.000	82.191 0.000	82.928 0.000	83.666 0.000	84.404 0.000	85.144 0.000	85.884 0.000	86.625 0.000	87.367 0.000	88.110 0.000	88.853 0.000	89.597 0.000	90.342 0.000	91.087 0.000	91.833 0.000	92.580 0.000	93.328 0.000	94.075 0.000	94.824 0.000	95.573 0.000	96.323 0.000	97.073 0.000	97.824 0.000	98.575 0.000
	76.828 -0.000	77.478 -0.000	78.131 -0.000	78.785 -0.000	79.441 -0.000	80.100 -0.000	80.760 -0.000	81.422 -0.000	82.086 -0.000	82.751 -0.000	83.418 -0.000	84.087 -0.000	84.758 -0.000	85.430 -0.000	86.104 -0.000	86.779 -0.000	87.456 -0.000	88.134 -0.000	88.814 -0.000	89.495 -0.000	90.177 -0.000	90.861 -0.000	91.546 -0.000	92.232 -0.000	92.920 -0.000	93.608 -0.000	94.298 -0.000	94.989 -0.000	95.682 -0.000	96.375 -0.000	000.0- 690.76	97.765 -0.000	98.461 -0.000	99.159 -0.000
	74.149 0.000	74.875 0.000	75.601 0.000	76.329 0.000	77.058 0.000	77.789 0.000	78.520 0.000	79.252 0.000	79.985 0.000	80.720 0.000	81.455 0.000	82.191 0.000	82.928 0.000	83.666 0.000	84.404 0.000	85.144 0.000	85.884 0.000	86.625 0.000	87.367 0.000	88.110 0.000	88.853 0.000	89.597 0.000	90.342 0.000	91.087 0.000	91.833 0.000	92.580 0.000	93.328 0.000	94.075 0.000	94.824 0.000	95.573 0.000	96.323 0.000	97.073 0.000	97.824 0.000	98.575 0.000
	11362,997	11362.997	11362,997	11362 997	11362.997	11362.997	11362,997	11362.997	11362,997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997	11362.997
	179,657	179 657	179,657	179.657	179 657	179.657	179,657	179.657	179,657	179.657	179.657	179.657	179,657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179,657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179,657	179.657	179.657	179.657
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	-1.089 MWD+IFR1+MS	-1.077 MWD+IFR1+MS	-1.066 MWD+IFR1+MS	-1.055 MWD+IFR1+MS	-1.044 MWD+IFR1+MS	-1.034 MWD+IFR1+MS	-1.023 MWD+IFR1+MS	-1.013 MWD+IFR1+MS	-1.077 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22	-1.076 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22	-1.075 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22			TVD MSL Target Shape	(ft)	7919.00 RECTANGLE	7820.12 RECTANGLE	7919.00 RECTANGLE
Well Plan Report	0.000 99.864 49.592	0.000 100.563 49.660	0.000 101.263 49.727	0.000 101.965 49.796	0.000 102.667 49.864	0.000 103.370 49.934	0.000 104.074 50.003	0.000 104.779 50.073	0.000 104.971 56.540	0.000 105.069 56.589	0.000 105.128 56.619			Grid Easting	(#)	644178.10	644161.68	644255.80
Well P	7 -0.000 99.327 0.000	-0.000 100.079 0.000	7 -0.000 100.832 0.000	9 -0.000 101.585 0.000	1 -0.000 102.339 0.000	1 -0.000 103.093 0.000	3 -0.000 103.848 0.000	3 -0.000 104.603 0.000	5 -0.000 104.768 0.000	3 -0.000 104.769 0.000	2 -0.000 104.769 0.000		Ξ	Grid Northing	(ft)	440489.00	440176.11	427510.20
	7 99,327 0,000 99,857	7 100.079 0.000 100.557	7 100,832 0,000 101,257	7 101.585 0.000 101.959	7 102.339 0.000 102.661	7 103.093 0.000 103.364	7 103.848 0.000 104.068	7 104.603 0.000 104.773	7 104,768 0,000 104,965	90.000 179.657 11362.997 104.769 0.000 105.063	90.000 179.657 11362.997 104.769 0.000 105.122		Poker Lake Unit 22 DTD South 186H	Measured Depth	(ft)	11497.47	11372.90	24043.73
	90.000 179.657 11362.997	90.000 179.657 11362.997	90.000 179.657 11362.997	179.657 11362.997	179.657 11362.997	179.657 11362.997	179,657 11362,997	90.000 179.657 11362.997	90.000 179.657 11362.997	79.657 11362.997	79.657 11362.997		Poker L					
	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000							
3/4/24, 9:46 PM	23300,000	23400.000	23500,000	23600.000	23700,000	23800.000	23900,000	24000.000	24043.732	24100.000	24133.735		Plan Targets		Target Name	FTP 15	SHL 15	LTP 15
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U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

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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	

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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[4]

U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

MECHANICAL PROPERTIES USS-TALON HTQ™ RD **Pipe** [6] Minimum Yield Strength 110.000 psi Maximum Yield Strength 125,000 psi Minimum Tensile Strength 125,000 psi **DIMENSIONS** USS-TALON HTQ™ RD **Pipe** 5.500 Outside Diameter 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 USS-TALON HTQ™ RD SECTION AREA **Pipe** Critical Area 5.828 5.828 sq. in. [2] Joint Efficiency 100.0 % **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 USS-TALON HTQ™ RD **Pipe** Make-Up Loss 5.58 Minimum Make-Up Torque 17,000 ft-lb [4] Maximum Make-Up Torque 20,000 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).

39.500

- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.

Maximum Operating Torque

- 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.).
- Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

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ft-lb

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
 - 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



GATES ENGINEERING & SERVICES NORTH AMERICA

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7603 Prairie Oak Dr. Houston, TX. 77086 EMAIL: gesna.quality@gates.com WEB: www.gates.com/oilandgas

NEW CHOKE HOSE INSTRUED 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 1/3

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

	T 0,00 00	
SIGNATURE:	F. ODIWOY	
TITLE:	QUALITY ASSURANCE	
DATE:	1/25/2024	14,454

H3-15/16



1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc. **TEST OBJECT**

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

74621/66-1531

Production description: Sales order #:

529480

3" 16C CK

Customer reference:

FG1213

Hose ID: Part number:

TEST INFORMATION

Test procedure:

GTS-04-053

Fitting 1:

3.0 x 4-1/16 10K

Test pressure: Test pressure hold: 15000.00 psi 3600.00 sec Part number: Description:

Work pressure:

10000.00

psi

Fitting 2:

3.0 x 4-1/16 10K

Work pressure hold: Length difference:

Length difference:

900.00 0.00

sec % inch

Part number:

Description:

Visual check:

PASS

0.00

Pressure test result: Length measurement result: Length:

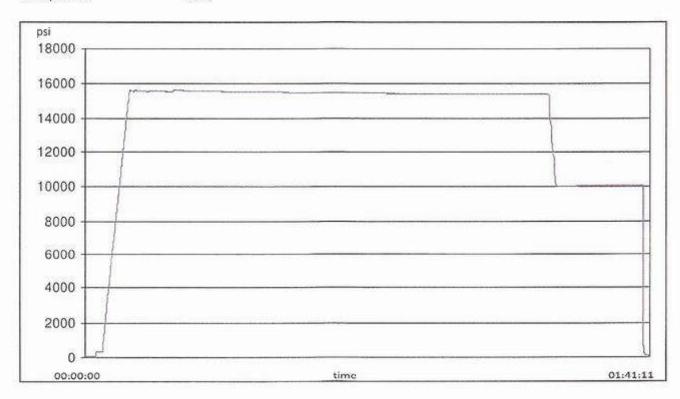
45

feet

n. . . . 175

Test operator:

Travis



H3-15/16

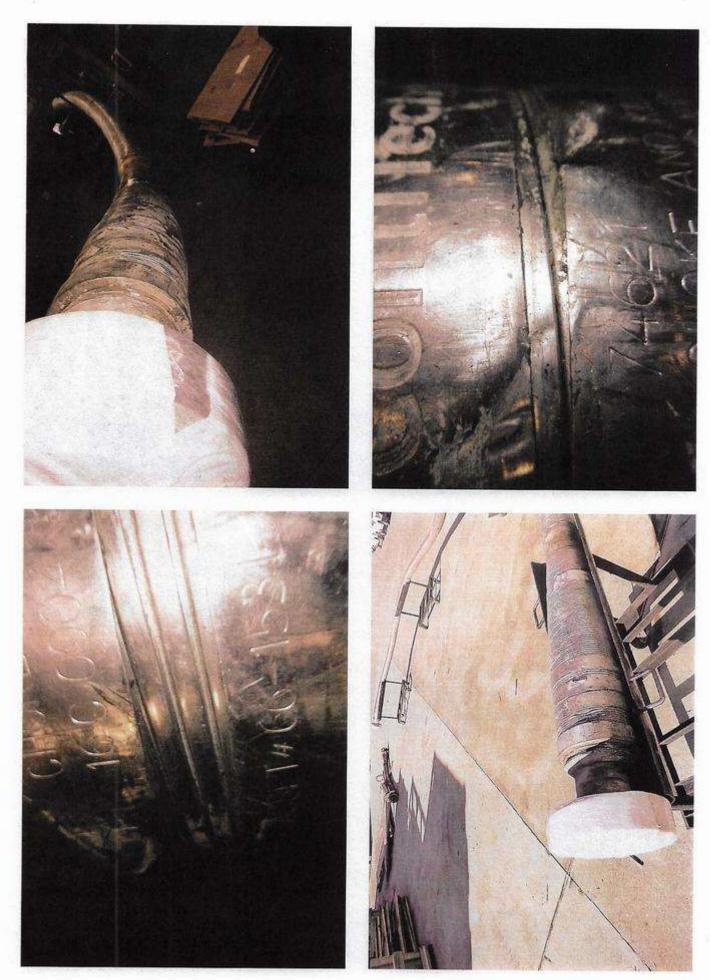


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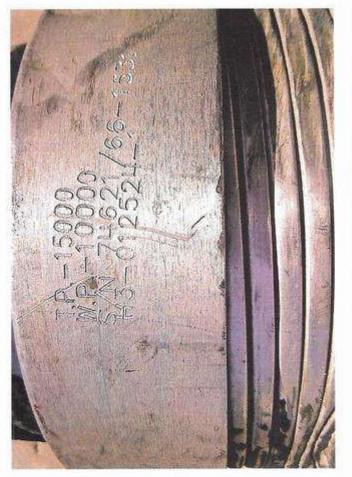
TEST REPORT

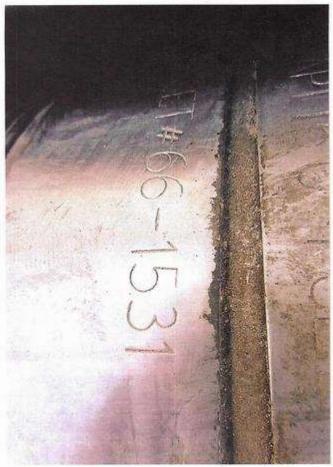
GAUGE TRACEABILITY

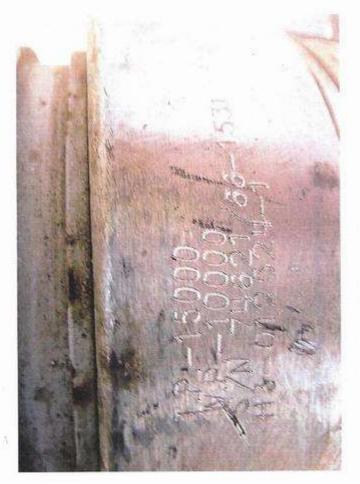
Description	Serial number	Calibration date	date Calibration due date	
S-25-A-W	110D3PHO	2023-06-06	2024-06-06	
S-25-A-W	110IQWDG	2023-05-16	2024-05-16	
Comment				
Comment		*		



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XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

- Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. 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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 396921

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	396921
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Create	ed By	Condition	Condition Date
ward	d.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	11/1/2024
ward	d.rikala	All original COA's still apply.	11/1/2024