

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

Sundry Print Report of 45

Well Name: POKER LAKE UNIT 22

Lease Number: NMNM068905

DTD

Well Location: T24S / R30E / SEC 22 /

NWNE / 32.20942 / -103.86806

County or Parish/State: EDDY /

NM

Well Number: 174H Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549880

Operator: XTO PERMIAN OPERATING

LLC

Notice of Intent

Sundry ID: 2786005

Type of Submission: Notice of Intent

Date Sundry Submitted: 04/19/2024

Date proposed operation will begin: 05/03/2024

Type of Action: APD Change

Time Sundry Submitted: 02:02

Procedure Description: POKER LAKE UNIT 22 DTD 174H 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 & 2610' FEL OF SECTION 15-T24S-R30E 100' FNL & 2371' FWL OF SECTION 22-T24S-R30E LTP: 327' FNL & 2610' FEL OF SECTION 3-T24S-R30E 2537' FNL & 2371' FWL OF SECTION 34-T24S-R30E BHL: 198' FNL & 2610' FEL OF SECTION 3-T24S-R30E 2627' FNL & 2371' FWL OF SECTION 34-T24S-R30E The proposed total depth is changing from 27098' MD; 11233' TVD (Jennings/WOLFCAMP (GAS)) to 24784' MD; 11957' TVD (Wolfcamp C). A saturated salt brine will be utilized while drilling through the salt formations. See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS

NOI Attachments

Procedure Description

PLU 22 DTD 174H Sundry Documents 20240822153124.pdf

Released to Imaging: 10/3/2024 8:12:53 AM

DTD

Well Number: 174H

Well Location: T24S / R30E / SEC 22 /

NWNE / 32.20942 / -103.86806

Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Zip:

Unit or CA Name: Lease Number: NMNM068905

Unit or CA Number:

County or Parish/State: EDD Page

US Well Number: 3001549880 Operator: XTO PERMIAN OPERATING

LLC

Conditions of Approval

Additional

Poker_Lake_Unit_22_DTD_174H_COA_20240913103204.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 03:31 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

State:

City: SPRING State: TX

Phone: (432) 236-3808

Email address: ADRIAN.BAKER@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:

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 Date: 09/23/2024 **Disposition:** Approved

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUR	EAU OF LAND MANAGEMENT		5. Lease Serial No.	NMLC068905
Do not use this t	NOTICES AND REPORTS ON W form for proposals to drill or to Use Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee	or Tribe Name
SUBMIT IN	TRIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agre	eement, Name and/or No.
1. Type of Well Oil Well Gas V	Well Other		8. Well Name and No	O. POKER LAKE UNIT 22 DTD/174H
2. Name of Operator XTO PERMIAN	OPERATING LLC		9. API Well No. 300	 1549880
3a. Address 6401 HOLIDAY HILL R		(include area code) 77	10. Field and Pool or Jennings/BONE S	Exploratory Area
4. Location of Well <i>(Footage, Sec., T.,I)</i> SEC 22/T24S/R30E/NMP	R.,M., or Survey Description)		11. Country or Parish EDDY/NM	n, State
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF N	OTICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
Notice of Intent		aulic Fracturing 🔲 F	Production (Start/Resume) Reclamation	Well Integrity
Subsequent Report		=	Recomplete Temporarily Abandon	Other
Final Abandonment Notice	Convert to Injection Plug	Back V	Vater Disposal	
completion of the involved operatic completed. Final Abandonment No is ready for final inspection.) POKER LAKE UNIT 22 DTD 2 SUNDRY LANGUAGE XTO Permian Operating, LLC. LTP, BHL, Casing sizes, Cem FROM: TO: FTP: 100' FSL & 2610' FEL O LTP: 327' FNL & 2610' FEL O BHL: 198' FNL & 2610' FEL C Continued on page 3 additional	respectfully requests approval to make ent, Proposed total Depth, and formation F SECTION 15-T24S-R30E 100' FNL & F SECTION 3-T24S-R30E 2537' FNL & F SECTION 3-T24S-R30E 2627' FNL &	the following changes to (Pool). 2371' FWL OF SECTION 2371' FWL OF SECT	n a new interval, a Form have been completed and to the approved APD. CODN 22-T24S-R30E	3160-4 must be filed once testing has been the operator has detennined that the site
ADRIAN BAKER / Ph: (432) 236-3		Regulatory Anal	yst	
(Electronic Submission	on)	Date	08/22/2	2024
	THE SPACE FOR FEDI	ERAL OR STATE	OFICE USE	
Approved by				
CHRISTOPHER WALLS / Ph: (57	5) 234-2234 / Approved	Petroleum Title	Engineer	09/23/2024 Date
	hed. Approval of this notice does not warran equitable title to those rights in the subject le iduct operations thereon.		AD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

The proposed total depth is changing from 27098 MD; 11233 TVD (Jennings/WOLFCAMP (GAS)) to 24784 MD; 11957 TVD (Wolfcamp C).

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

See attached Drilling Plan for updated cement and casing program.

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

Location of Well

0. SHL: NWNE / 414 FNL / 2406 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.20942 / LONG: -103.86806 (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: 11233 feet, MD: 13298 feet) PPP: SWSE / 100 FSL / 2610 FEL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210829 / LONG: -103.868716 (TVD: 11233 feet, MD: 11562 feet) PPP: NWNE / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 10 / LAT: 32.253158 / LONG: -103.876545 (TVD: 11233 feet, MD: 15938 feet) BHL: LOT 2 / 198 FNL / 2610 FEL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.25536 / LONG: -103.86869 (TVD: 11233 feet, MD: 27098 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
LEASE NO.: NMNM068905
LOCATION: Sec. 22, T.24 S, R 30 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Poker Lake Unit 22 DTD 174H

SURFACE HOLE FOOTAGE: 414'/S & 2406'/E
BOTTOM HOLE FOOTAGE: 2627'/N & 2371'/W

Changes approved through engineering via **Sundry 2786005** on _9-13-2024__. Any previous COAs not addressed within the updated COAs still apply.

 \mathbf{COA}

H_2S	•	No	0	Yes
Potash /	None	Secretary	○ R-111-Q	Open Annulus
WIPP	Choose	e an option (including bla	nk option.)	☐ WIPP
Cave / Karst	Low	Medium	C High	Critical
Wellhead	Conventional	• Multibowl	C Both	Diverter
Cementing	Primary Squeeze	Cont. Squeeze	EchoMeter	DV Tool
Special Req	Capitan Reef	Water Disposal	COM	Unit
Waste Prev.	© Self-Certification	C Waste Min. Plan	• APD Submitted p	prior to 06/10/2024
Additional	Flex Hose	Casing Clearance	Pilot Hole	Break Testing
Language	Four-String	Offline Cementing	Fluid-Filled	

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 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 6471'
 - 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 <u>Intermediate 1</u> annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Intermediate 1 casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

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

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **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 9/13/2024 575-234-5998 / zstevens@blm.gov

District I

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

District II

District III

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

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, NM 87505

-					
Ī	¹ API Number	•	² Pool Code	³ Pool Name	
	30-015-	49880	98220	PURPLE SAGE;WOLFCAMP	(GAS)
Ī	⁴ Property Code		⁵ P	roperty Name	⁶ Well Number
	333192		POKER L	AKE UNIT 22 DTD	174H
Ī	⁷ OGRID No.		8 O	perator Name	⁹ Elevation
	373075		XTO PERMI	AN OPERATING, LLC	3,418'

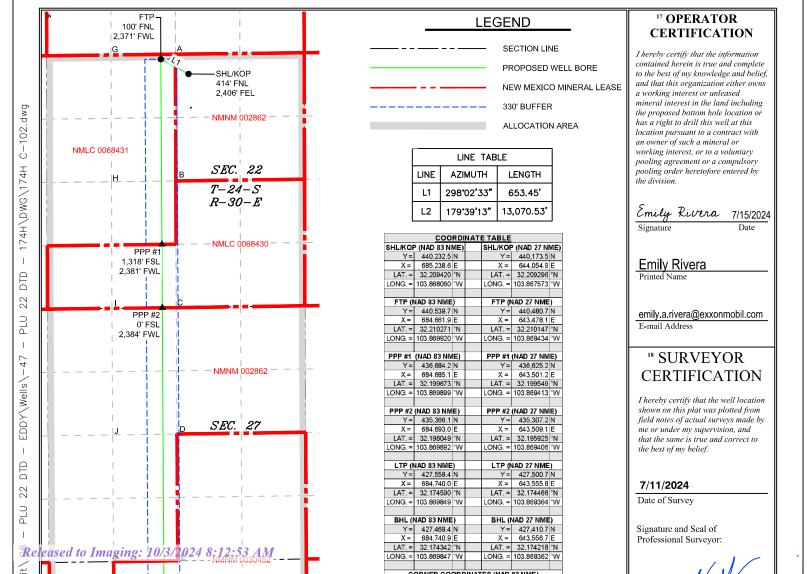
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	22	24\$	30E		414	NORTH	2,406	EAST	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	34	24S	30E		2,627	NORTH	2,371	WEST	EDDY
12 Dedicated Acres	¹³ Joint or	Infill 14Co	onsolidation C	Code 15 Ord	ler No.		•		
1,600.00									

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



Intent	X	As Dril	ed										
API#	15-												
Oper	ator Nar	ne: IIAN OPE	ERATIN	G, LL	С	Property POKER			IIT 22	2 DT	D		Well Number 174H
Kick C	off Point ((KOP)											
UL	Section	Township	Range	Lot	Feet	Fror	n N/S	Feet		Fron	n E/W	County	
Latitu	de		<u> </u>		Longitu	de						NAD	
First T	ake Poin	t (FTP)											
C	Section 22	Township 24S	Range 30E	Lot	Feet 100	Fror Nor	n N/S th	Feet 2,3		Fron Wes	n E/W t	County Eddy	
Latitu 32.	^{de} 21027	71			Longitude -103	de 3.8699	20					NAD 83	
Last T	ake Poin	t (LTP)											
UL F	Section 34	Township 24S	Range 30E	Lot	Feet 2,537	From N/S North	Fee 2,3		From West	E/W	Count Eddy	ty	
Latitu 32.	^{de} 17459	90			Longitude -103	de 8.8698	49				NAD 83		
Is this	well the	defining v	vell for th	e Horiz	contal Sp	pacing Uni	t? [
ls this	well an i	infill well?											
Spacir	l is yes pl ng Unit.	ease provi	de API if a	availab	le, Oper	ator Nam	e and v	well n	umbei	r for I	Definir	ng well fo	r Horizontal
API#													
Ope	rator Nar	me:				Property	Name	:					Well Number

KZ 06/29/2018

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

XTO Energy Inc.
POKER LAKE UNIT 22 DTD 174H
Projected TD: 24784' MD / 11957' TVD
SHL: 414' FNL & 2406' FEL , Section 22, T24S, R30E
BHL: 2627' FNL & 2371' FWL , 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	1135'	Water
Top of Salt	1538'	Water
Base of Salt	3731'	Water
Delaware	3925'	Water
Brushy Canyon	6471'	Water/Oil/Gas
Bone Spring	7795'	Water
Avalon	8488'	Water/Oil/Gas
1st Bone Spring	8504'	Water/Oil/Gas
2nd Bone Spring	9089'	Water/Oil/Gas
3rd Bone Spring	9915'	Water/Oil/Gas
Wolfcamp	11100'	Water/Oil/Gas
Wolfcamp X	11121'	Water/Oil/Gas
Wolfcamp Y	11202'	Water/Oil/Gas
Wolfcamp A	11249'	Water/Oil/Gas
Wolfcamp B	11632'	Water/Oil/Gas
Wolfcamp C	11837'	Water/Oil/Gas
Target/Land Curve	11957'	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 @ 1235' (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 11105' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24784 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10805 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1235'	9.625	40	J-55	втс	New	1.50	5.10	12.75
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.09	2.92	1.69
8.75	4000' – 11105'	7.625	29.7	HC L-80	Flush Joint	New	1.52	2.15	1.92
6.75	0' – 11005'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.69	1.91
6.75	11005' - 24784'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.55	1.91

[•] 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.

^{· 7.625} 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 +/- 1235'

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 +/- 11105'

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

TOC: Brushy Canyon @ 6471

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 (6471') 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 +/- 24784'

Lead: 20 sxs NeoCem (mixed at 13.2 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement:

Tail: 960 sxs VersaCem (mixed at 14.5 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:

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 and 10M Blind Ram BOP. XTO will use a Multi-Bowl system which is attached.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When 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' - 1235'	12.25	FW/Native	8.7-9.2	35-40	NC	Fresh Water or Native Water
1235'-3925'		Salt Saturated	10.5-11			Fully Saturated salt across salado / /salt
3925' - 11105'	8.75	BDE / OBM	9-9.5	30-32	NC	N/A
11105' - 24784'	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 185 to 205 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 7150 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.

1/9

Well Plan Report - Poker Lake Unit 22 DTD South 174H

Well Plan Report

	200 07		11 80
307.20 307.20 -408.98 -12672.81	4209.66 4800.00 11240.80 11957.00 11957.00	298.04 4209.56 0.00 4800.00 0.00 11240.80 179.66 11957.00 179.66 11957.00	

	Tool	Used
	Semi- minor	Error Azimuth
	Semi- minor	Error
	Semi- major	Error
	Magnitude	of Bias
		Bias
	Vertical	Error
Τ̈́		Bias
South 174	Lateral	Error
2 DTD §		Bias
Poker Lake Unit 22 DTD South 174H	TVD Highside	Error
Poker L	TVD	RKB
		Azimuth
ncertainty		Depth Inclination Azimuth
Position Uncertainty	Measured	Depth

file:///C:/Users/arsriva/Landmark/DecisionSpace/WellPlanning/Reports/PokerLakeUnit22DTDSouth174H.HTML

		MWD+IFR1+MS																																
	©	0.000 MWI				_	_											47.315 MWI	46.552 MWI		47.098 MWI	48.190 MWI				52.256 MWI		54.095 MWI	54.966 MWI			57.385 MWI	58.130 MWI	
			112.264	122.711	125,469	126.713	127.419	127.873	128,190	128.423	128.602	128.744	128.859	123.449	96.130	55.225	49.238			46.541			49.253	50.285	51.287		53.192			55.804	56.610			58.844
	(£)	0.000	0.220	0.627	0.986	1.344	1.701	2.059	2.417	2.775	3.133	3.491	3.849	4.351	5.209	5.633	5.953	6.273	6.578	6.596	6.925	7.265	7.608	7.954	8.301	8,651	9.002	9.355	9.710	10.065	10.422	10,779	11.138	11.498
	(£)	000.0	0.751	1.259	1.698	2.108	2.503	2.888	3,267	3.642	4.014	4.384	4.752	5.075	5.431	6.110	6.822	7.486	8.043	8.059	8.336	8.644	8.960	9.281	6.607	9.938	10.273	10.612	10.954	11.300	11.648	11.999	12,352	12.707
Well Plan Report	(#)	000'0	0.000	0.000	0.000	0000	0.000	0000	0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0 000	0.000	0000	0.000	000.0	0.000	0.000	0000	0.000	0.000
Well	(#	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	000'0	0.000	0.000	0.000	0.000	000'0	0.000	0000	0.000
	Œ	0.000	2.300 0	2.310 0	2.326 0	2.347 0	2.375 0	2.407 0	2.444 0	2.486 0	2.532 0	2.582 0	2.636 0	2.692 0	2.752 0	2.818 0	2.891 0	2.974 0	3.060	3.059 0	3.135 0	3.217 0	3.302 0	3 390 0	3.481 0	3.575 0	3.670 0	3.768 0	3.868 0	3.970 0	4.074 0	4.180 0	4.288 0	4.397 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	0.000	0.000	0.000	0.000	0.000	0.000	000.0	0.000
	(£)	0000	0.350	0.861	1.271	1.658	2.034	2.405	2.773	3.138	3.502	3.865	4.228	5.069	5.401	5.736	6.074	6.416	6.740	6.757	7.088	7.442	7.798	8.157	8.518	8.881	9.245	9.610	9.977	10.345	10.715	11.085	11.455	11.827
	Œ	0.000	0.000	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	000'0	000.0	0.000	0.000	0.000	0.000	0000	. 0000	0.000
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Well Plan Report	0.000 13.064 11.858	0.000 13.423 12.220	0.000 13.784 12.582	0.000 14.146 12.944	0.000 14.509 13.308	0.000 14.873 13.672	0.000 15.239 14.036	0.000 15.606 14.401	0.000 15.974 14.767	0.000 16.342 15.133	0.000 16.712 15.499	0.000 16.960 15.753	0.000 17.069 15.865	0.000 17.475 16.239	0.000 17.956 16.619	0.000 18.430 16.989	0.000 18.897 17.351	0.000 19.355 17.705	0.000 19.582 17.921	0.000 19.695 18.044	0.000 20.003 18.387	0.000 20.313 18.741	0.000 20.625 19.095	0.000 20.939 19.449	0.000 21.254 19.803	0.000 21.571 20.157	0.000 21.889 20.511	0.000 22.208 20.865	0.000 22.529 21.219	0.000 22.851 21.573	0.000 23.174 21.927	0.000 23.498 22.282	0.000 23.823 22.636	0.000 24.149 22.990
Well	4.508 0.000	4.620 0.000	4.734 0.000	4.850 0.000	4.967 0.000	5.086 0.000	5.206 0.000	5.328 0.000	5.451 0.000	5.576 0.000	5.702 0.000	5.790 0.000	5.830 0.000	5.963 0.000	000.0 760.9	6.222 0.000	6.339 0.000	6.451 0.000	6.520 0.000	6.559 0.000	6.668 0.000	6.778 0.000	000'0 068'9	7.005 0.000	7.122 0.000	7.241 0.000	7.362 0.000	7.485 0.000	7.611 0.000	7.739 0.000	7.869 0.000	8,002 0,000	8.137 0.000	8.275 0.000
	12.789 0.000 12.199 0.000	13.144 0.000 12.572 0.000	13.500 0.000 12.946 0.000	13.858 0.000 13.319 0.000	14.218 0.000 13.694 0.000	14.579 0.000 14.069 0.000	14.941 0.000 14.444 0.000	15.305 0.000 14.820 0.000	15.669 0.000 15.196 0.000	16.035 0.000 15.572 0.000	16.402 0.000 15.949 0.000	16.652 0.000 16.205 0.000	16.772 0.000 16.318 0.000	17.212 0.000 16.685 0.000	17.712 0.000 17.052 0.000	18.180 0.000 17.413 0.000	18.616 0.000 17.768 0.000	19.020 0.000 18.117 0.000	19.123 0.000 18.411 0.000	19.240 0.000 18.527 0.000	19.564 0.000 18.853 0.000	19.893 0.000 19.186 0.000	20.224 0.000 19.519 0.000	20.555 0.000 19.854 0.000	20.888 0.000 20.189 0.000	21,221 0,000 20,525 0,000	21.555 0.000 20.861 0.000	21.890 0.000 21.199 0.000	22.225 0.000 21.537 0.000	22.562 0.000 21.875 0.000	22.898 0.000 22.215 0.000	23.236 0.000 22.554 0.000	23.574 0.000 22.895 0.000	23.913 0.000 23.236 0.000
	3163,431	3261.285	3359.138	3456.992	3554.846	3652,700	3750.554	3848.407	3946,261	4044.115	4141.969	4209,660	4239.856	4338.247	4437.201	4536.597	4636.313	4736.229	4800.000	4836.224	4936.224	5036.224	5136.224	5236.224	5336.224	5436,224	5536.224	5636.224	5736.224	5836.224	5936.224	6036,224	6136,224	6236.224
	298.039	298 039	298 039	298 039	298 039	298.039	298.039	298.039	298,039	298.039	298.039	298,039	298.039	298.039	298.039	298.039	298.039	298.039	0.000	0.000	0.000	0.000	0000	0.000	0.000	0.000	0000	0000	0.000	0.000	0.000	0.000	0.000	0.000
	11.892	11.892	11.892	11.892	11.892	11.892	11.892	11.892	11.892	11.892	11.892	11.892	11.276	9.276	7.276	5.276	3.276	1.276	0.000	0.000	0.000	0.000	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, 9:38 PM	3200,000	3300 000	3400,000	3500 000	3600.000	3700,000	3800.000	3900,000	4000,000	4100.000	4200.000	4269.176	4300.000	4400.000	4500.000	4600.000	4700.000	4800.000	4863.776	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
	eleas	ed t	o In	nagi	ng:	10/.	3/20	24 8	8:12	:53	AM	7																						

	63.289 MWD+IFR1+MS	63.719 MWD+IFR1+MS	64.156 MWD+IFR1+MS	64.601 MWD+IFR1+MS	65.054 MWD+IFR1+MS	65.514 MWD+IFR1+MS	65.982 MWD+IFR1+MS	66.457 MWD+IFR1+MS	66.940 MWD+IFR1+MS	67.430 MWD+IFR1+MS	67.927 MWD+IFR1+MS	68,432 MWD+IFR1+MS	68.943 MWD+IFR1+MS	69.461 MWD+IFR1+MS	69.985 MWD+IFR1+MS	70.516 MWD+IFR1+MS	71.053 MWD+IFR1+MS	71.595 MWD+IFR1+MS	72.143 MWD+IFR1+MS	72.696 MWD+IFR1+MS	73.253 MWD+IFR1+MS	73.815 MWD+IFR1+MS	74.381 MWD+IFR1+MS	74.951 MWD+IFR1+MS	75.523 MWD+IFR1+MS	76,099 MWD+IFR1+MS	76.676 MWD+IFR1+MS	77.256 MWD+IFR1+MS	77.837 MWD+IFR1+MS	78.418 MWD+IFR1+MS	79.001 MWD+IFR1+MS	79.583 MWD+IFR1+MS	80.164 MWD+IFR1+MS	80.745 MWD+IFR1+MS
Well Plan Report	0.000 24.477 23.344	0.000 24.805 23.699	0.000 25.135 24.053	0.000 25.465 24.407	0.000 25.796 24.761	0.000 26.128 25.115	0.000 26.461 25.470	0.000 26.794 25.824	0.000 27.128 26.178	0.000 27.463 26.532	0.000 27.799 26.886	0.000 28.136 27.240	0.000 28.473 27.594	0.000 28.811 27.948	0.000 29.149 28.302	0.000 29.488 28.656	0.000 29.828 29.010	0.000 30.168 29.364	0.000 30.509 29.718	0.000 30.850 30.072	0.000 31.192 30.426	0.000 31.534 30.779	0.000 31.877 31.133	0.000 32.221 31.487	0.000 32.564 31.840	0.000 32.909 32.194	0.000 33.253 32.547	0.000 33.599 32.901	0.000 33.944 33.254	0.000 34.290 33.608	0.000 34.636 33.961	0.000 34.983 34.315	0.000 35.330 34.668	0.000 35.678 35.021
Well	8.415 0.000	8.558 0.000	8.703 0.000	8.851 0.000	9.001 0.000	9.154 0.000	9.310 0.000	9.468 0.000	9.629 0.000	9.792 0.000	9.959 0.000	10.128 0.000	10.300 0.000	10.474 0.000	10.652 0.000	10.832 0.000	11.015 0.000	11.201 0.000	11.389 0.000	11.581 0.000	11.776 0.000	11.973 0.000	12.173 0.000	12.377 0.000	12.583 0.000	12.792 0.000	13.004 0.000	13.219 0.000	13.437 0.000	13.658 0.000	13.882 0.000	14.109 0.000	14.339 0.000	14.572 0.000
	24.252 0.000 23.577 0.000	24.592 0.000 23.920 0.000	24.933 0.000 24.262 0.000	25.273 0.000 24.605 0.000	25.615 0.000 24.948 0.000	25.957 0.000 25.292 0.000	26.299 0.000 25.636 0.000	26.642 0.000 25.981 0.000	26.985 0.000 26.326 0.000	27.328 0.000 26.671 0.000	27.672 0.000 27.017 0.000	28.016 0.000 27.363 0.000	28.361 0.000 27.709 0.000	28.706 0.000 28.056 0.000	29.051 0.000 28.403 0.000	29.397 0.000 28.750 0.000	29.743 0.000 29.097 0.000	30.089 0.000 29.445 0.000	30.435 0.000 29.793 0.000	30.782 0.000 30.141 0.000	31.129 0.000 30.490 0.000	31.476 0.000 30.839 0.000	31.824 0.000 31.188 0.000	32.172 0.000 31.537 0.000	32.520 0.000 31.886 0.000	32,868 0,000 32,236 0,000	33.216 0.000 32.585 0.000	33.565 0.000 32.935 0.000	33.914 0.000 33.285 0.000	34.263 0.000 33.636 0.000	34.612 0.000 33.986 0.000	34.962 0.000 34.337 0.000	35,311 0,000 34,687 0,000	35.661 0.000 35.038 0.000
	6336.224	6436.224	6536.224	6636.224	6736.224	6836.224	6936.224	7036.224	7136.224	7236.224	7336.224	7436.224	7536.224	7636.224	7736.224	7836.224	7936.224	8036.224	8136.224	8236.224	8336.224	8436.224	8536.224	8636.224	8736.224	8836.224	8936.224	9036.224	9136.224	9236.224	9336.224	9436.224	9536.224	9636.224
	0.000	0.000	0.000	0.000	0.000	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	0000	0.000	0.000	0.000	0.000	0000	0000	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
3/4/24, 9:38 PM	6400.000	000'0059	000'0099	6700.000	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	9600,000	9700.000
	eleas	ed t	o In	nagi	ng:	10/.	3/20	24 8	8:12	:53	AM	r																						

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	81.323 MWD+IFR1+MS	81.900 MWD+IFR1+MS	82.475 MWD+IFR1+MS	83.047 MWD+IFR1+MS	83.615 MWD+IFR1+MS	84.179 MWD+IFR1+MS	84.740 MWD+IFR1+MS	85.296 MWD+IFR1+MS	85.847 MWD+IFR1+MS	86.393 MWD+IFR1+MS	86.933 MWD+IFR1+MS	87.468 MWD+IFR1+MS	87.997 MWD+IFR1+MS	88.519 MWD+IFR1+MS	89.034 MWD+IFR1+MS	89.607 MWD+IFR1+MS	89.642 MWD+IFR1+MS	91.836 MWD+IFR1+MS	92.549 MWD+IFR1+MS	92.948 MWD+IFR1+MS	93.239 MWD+IFR1+MS	93.477 MWD+IFR1+MS	93.677 MWD+IFR1+MS	93.832 MWD+IFR1+MS	93.922 MWD+IFR1+MS	93.916 MWD+IFR1+MS	93.769 MWD+IFR1+MS	93.686 MWD+IFR1+MS	93.481 MWD+IFR1+MS	93.195 MWD+IFR1+MS	92.910 MWD+IFR1+MS	92.622 MWD+IFR1+MS	92.331 MWD+IFR1+MS	92.032 MWD+IFR1+MS
Well Plan Report	0.000 36.026 35.375	0.000 36.374 35.728	0.000 36.722 36.081	0.000 37.071 36.434	0.000 37.420 36.787	0.000 37.769 37.141	0.000 38.119 37.494	0.000 38.469 37.847	0.000 38.819 38.200	0.000 39.170 38.553	0.000 39.521 38.906	0.000 39.872 39.259	0.000 40.223 39.612	0.000 40.574 39.965	0.000 40.926 40.318	0.000 41.294 40.688	0.000 41.789 41.002	0.000 43.017 41.305	0.000 44.164 41.590	0.000 45.157 41.854	0.000 45.981 42.096	0.000 46.628 42.313	0.000 47.104 42.504	0.000 47.424 42.669	0.000 47.610 42.806	0,000 47,695 42,916	0.000 47.718 42.997	0.000 47.719 43.013	0.000 47.720 43.054	0.000 47.723 43.127	0.000 47.727 43.214	0.000 47.731 43.314	0.000 47.736 43.427	0.000 47.742 43.553
Well	14.808 0.000	15.047 0.000	15.289 0.000	15.534 0.000	15.782 0.000	16.033 0.000	16.288 0.000	16.545 0.000	16.805 0.000	17.069 0.000	17.335 0.000	17.605 0.000	17.877 0.000	18.153 0.000	18.432 0.000	18.726 0.000	19.003 0.000	19.364 0.000	19.868 0.000	20.561 0.000	21.469 0.000	22.590 0.000	23.900 0.000	25.360 0.000	26.919 0.000	28.523 0.000	30.120 0.000	30.214 0.000	30.338 0.000	30.506 0.000	30.695 0.000	30.903 0.000	31,129 0,000	31.373 0.000
	35.390 0.000	35.741 0.000	36.092 0.000	36.444 0.000	36.795 0.000	37.147 0.000	37.499 0.000	37.851 0.000	38.203 0.000	38.555 0.000	38.908 0.000	39.260 0.000	39.613 0.000	39.966 0.000	40.318 0.000	40.688 0.000	41.002 -0.000	41.307 -0.000	41.597 -0.000	41.866 -0.000	42.112 -0.000	42.333 -0.000	42.528 -0.000	42.695 -0.000	42.834 -0.000	42.943 -0.000	43.022 -0.000	43.038 -0.000	43.076 -0.000	43.145 -0.000	43.229 -0.000	43.326 -0.000	43.437 -0.000	43.560 -0.000
	36.011 0.000	36.361 0.000	36.711 0.000	37.062 0.000	37.412 0.000	37.763 0.000	38.114 0.000	38.465 0.000	38.816 0.000	39.167 0.000	39.519 0.000	39.870 0.000	40.222 0.000	40.574 0.000	40.926 0.000	41.294 0.000	41.347 0.000	41.566 0.000	41.225 0.000	40.338 0.000	38.993 0.000	37.310 0.000	35.448 0.000	33.602 0.000	32.005 0.000	30.909 0.000	30.533 0.000	30.214 0.000	30.338 0.000	30.506 0.000	30.695 0.000	30.903 0.000	31 129 0 000	31.373 0.000
	9736.224	9836.224	9936.224	10036.224	10136.224	10236.224	10336.224	10436.224	10536.224	10636.224	10736.224	10836.224	10936.224	11036.224	11136.224	11240.800	11335.942	11433.808	11527.917	11616.438	11697.648	11769.965	11831.983	11882.495	11920.516	11945.308	11956.387	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997
	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	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.634	15.634	23.634	31.634	39.634	47.634	55.634	63.634	71.634	79.634	87.634	90.000	90.000	90.000	90.000	90.000	90.000	90.000
3/4/24, 9:38 PM	9800 000	000 0066	10000 000	10100.000	10200.000	10300.000	10400.000	10500,000	10600.000	10700.000	10800.000	10900.000	11000.000	11100.000	11200.000	11304.576	11400.000	11500.000	11600.000	11700.000	11800.000	11900.000	12000.000	12100.000	12200.000	12300.000	12400 000	12429 576	12500.000	12600 000	12700.000	12800,000	12900.000	13000.000
	eleas	ed t	o In	nagi	ng:	10/.	3/20	24 8	8:12	:53	AM	r																						

	91.723 MWD+IFR1+MS	91.399 MWD+IFR1+MS	91.057 MWD+IFR1+MS	90.690 MWD+IFR1+MS	90.292 MWD+IFR1+MS	89.852 MWD+IFR1+MS	89.359 MWD+IFR1+MS	88.797 MWD+IFR1+MS	88.140 MWD+IFR1+MS	87.355 MWD+IFR1+MS	86.391 MWD+IFR1+MS	85.165 MWD+IFR1+MS	83.543 MWD+IFR1+MS	81.287 MWD+IFR1+MS	77.949 MWD+IFR1+MS	72.650 MWD+IFR1+MS	63.801 MWD+IFR1+MS	50.231 MWD+IFR1+MS	35.809 MWD+IFR1+MS	25.754 MWD+IFR1+MS	19.732 MWD+IFR1+MS	16.013 MWD+IFR1+MS	13.553 MWD+IFR1+MS	11.822 MWD+IFR1+MS	10.540 MWD+IFR1+MS	9,553 MWD+IFR1+MS	8.769 MWD+IFR1+MS	8.129 MWD+IFR1+MS	7.596 MWD+IFR1+MS	7.144 MWD+IFR1+MS	6.755 MWD+IFR1+MS	6,416 MWD+IFR1+MS	6.118 MWD+IFR1+MS	5.853 MWD+IFR1+MS
Well Plan Report	0.000 47.749 43.691	0.000 47.757 43.843	0.000 47.766 44.006	0.000 47.775 44.183	0.000 47.786 44.371	0.000 47.797 44.571	0.000 47.810 44.784	0.000 47.824 45.007	0.000 47.838 45.242	0.000 47.855 45.488	0.000 47.873 45.744	0.000 47.893 46.009	0.000 47.916 46.284	0.000 47.943 46.566	0.000 47.977 46.851	0.000 48.025 47.135	0.000 48.100 47.402	0.000 48.232 47.623	0.000 48.448 47.770	0.000 48.736 47.856	0.000 49.064 47.911	0.000 49.416 47.952	0.000 49.784 47.986	0.000 50.166 48.017	0.000 50.558 48.046	0,000 50.960 48.074	0.000 51.372 48.102	0.000 51.792 48.129	0.000 52.221 48.157	0.000 52.658 48.184	0.000 53.102 48.212	0.000 53.554 48.241	0.000 54.013 48.270	0.000 54.479 48.299
Well	31.635 0.000	31.914 0.000	32.209 0.000	32.521 0.000	32.849 0.000	33.192 0.000	33.550 0.000	33.922 0.000	34.308 0.000	34.708 0.000	35.120 0.000	35.545 0.000	35.983 0.000	36.431 0.000	36.891 0.000	37.362 0.000	37.844 0.000	38.335 0.000	38.836 0.000	39.346 0.000	39.866 0.000	40.393 0.000	40.929 0.000	41.473 0.000	42.025 0.000	42,584 0,000	43.150 0.000	43.722 0.000	44.301 0.000	44.887 0.000	45.478 0.000	46.076 0.000	46.678 0.000	47.286 0.000
	5 0.000 43.697 -0.000	4 0.000 43.846 -0.000	00 0.000 44.009 -0.000	1 0.000 44.184 -0.000	9 0.000 44.372 -0.000	00.000 44.571 -0.000	00.000 44.784 -0.000	2 0.000 45.008 -0.000	0.000 45.244 -0.000	0.000 45.492 -0.000	00.000 45.751 -0.000	5 0.000 46.021 -0.000	3 0.000 46.303 -0.000	11 0.000 46.595 -0.000	10.000 46.898 -0.000	52 0.000 47.212 -0.000	4 0.000 47.536 -0.000	5 0.000 47.869 -0.000	6 0.000 48.213 -0.000	6 0.000 48.567 -0.000	6 0.000 48.929 -0.000	0.000 49.301 -0.000	9 0.000 49.682 -0.000	3 0.000 50.072 -0.000	5 0.000 50.471 -0.000	4 0.000 50.877 -0.000	00.000 51.292 -0.000	2 0.000 51.716 -0.000	11 0.000 52.146 -0.000	17 0.000 52.585 -0.000	8 0.000 53.031 -0.000	6 0.000 53.484 -0.000	8 0.000 53.944 -0.000	6 0.000 54.411 -0.000
	97 31.635	97 31.914	97 32.209	97 32.521	97 32.849	97 33.192	97 33.550	97 33,922	97 34,308	97 34.708	97 35.120	97 35,545	97 35.983	97 36.431	97 36.891	97 37.362	97 37.844	97 38.335	97 38.836	97 39.346	97 39.866	97 40.393	97 40.929	97 41.473	97 42.025	97 42,584	97 43.150	97 43.722	97 44 301	97 44.887	97 45.478	97 46.076	97 46.678	97 47.286
	11956.997	11956.997	11956.997	11956 997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956 997	11956.997	11956.997	11956 997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956 997	11956.997	11956 997	11956.997	11956.997	11956.997
	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
	000'06	000'06	000'06	90.000	000'06	90,000	90.000	000'06	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	000'06	90.000	90.000	90.000	000'06	000'06	90.000	90.000	90.000	90.000	90.000	90.000	90.000
3/4/24, 9:38 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	ng:	10/.	3/20	24 8	8:12	:53	AM	r																						

	5.615 MWD+IFR1+MS	5.400 MWD+IFR1+MS	5.205 MWD+IFR1+MS	5.027 MWD+IFR1+MS	4.863 MWD+IFR1+MS	4.712 MWD+IFR1+MS	4.571 MWD+IFR1+MS	4.441 MWD+IFR1+MS	4.319 MWD+IFR1+MS	4.205 MWD+IFR1+MS	4.098 MWD+IFR1+MS	3.997 MWD+IFR1+MS	3.902 MWD+IFR1+MS	3.811 MWD+IFR1+MS	3.726 MWD+IFR1+MS	3.645 MWD+IFR1+MS	3.567 MWD+IFR1+MS	3.494 MWD+IFR1+MS	3.423 MWD+IFR1+MS	3.356 MWD+IFR1+MS	3.291 MWD+IFR1+MS	3.230 MWD+IFR1+MS	3.170 MWD+IFR1+MS	3.113 MWD+IFR1+MS	3.058 MWD+IFR1+MS	3.005 MWD+IFR1+MS	2.954 MWD+IFR1+MS	2.905 MWD+IFR1+MS	2.858 MWD+IFR1+MS	2.812 MWD+IFR1+MS	2.767 MWD+IFR1+MS	2.724 MWD+IFR1+MS	2.683 MWD+IFR1+MS	2.642 MWD+IFR1+MS
Well Plan Report	0.000 54.952 48.328	0.000 55.432 48.358	0.000 55.918 48.389	0.000 56.410 48.420	0.000 56.908 48.452	0.000 57.412 48.484	0.000 57.922 48.517	0.000 58.438 48.550	0.000 58.959 48.584	0.000 59.486 48.619	0.000 60.017 48.654	0.000 60.554 48.689	0.000 61.095 48.725	0.000 61.641 48.762	0.000 62.192 48.799	0.000 62.748 48.837	0.000 63.307 48.876	0.000 63.871 48.915	0.000 64.440 48.954	0.000 65.012 48.994	0.000 65.588 49.035	0.000 66.168 49.076	0.000 66.752 49.118	0.000 67.339 49.160	0.000 67.930 49.203	0.000 68.525 49.247	0.000 69.122 49.291	0.000 69.724 49.335	0.000 70.328 49.380	0.000 70.935 49.426	0.000 71.546 49.472	0.000 72.159 49.519	0.000 72.775 49.566	0.000 73.394 49.614
Well	47.900 0.000	48.518 0.000	49.141 0.000	49.768 0.000	50.400 0.000	51.036 0.000	51.677 0.000	52.321 0.000	52.969 0.000	53.620 0.000	54.276 0.000	54.934 0.000	55.596 0.000	56.261 0.000	56.929 0.000	57.600 0.000	58.274 0.000	58.950 0.000	59.630 0.000	60.311 0.000	000.0 966.09	61.682 0.000	62.371 0.000	63.063 0.000	63.756 0.000	64,451 0,000	65.149 0.000	65.848 0.000	66.550 0.000	67.253 0.000	67.958 0.000	68.665 0.000	69.373 0.000	70.083 0.000
	47.900 0.000 54.885 -0.000	48.518 0.000 55.365 -0.000	49.141 0.000 55.852 -0.000	49.768 0.000 56.345 -0.000	50.400 0.000 56.844 -0.000	51.036 0.000 57.348 -0.000	51.677 0.000 57.859 -0.000	52.321 0.000 58.375 -0.000	52,969 0.000 58,897 -0.000	53.620 0.000 59.423 -0.000	54.276 0.000 59.955 -0.000	54.934 0.000 60.492 -0.000	55.596 0.000 61.034 -0.000	56.261 0.000 61.581 -0.000	56.929 0.000 62.132 -0.000	57.600 0.000 62.688 -0.000	58.274 0.000 63.248 -0.000	58.950 0.000 63.812 -0.000	59.630 0.000 64.381 -0.000	60.311 0.000 64.953 -0.000	60.996 0.000 65.530 -0.000	61.682 0.000 66.110 -0.000	62.371 0.000 66.694 -0.000	63.063 0.000 67.282 -0.000	63.756 0.000 67.873 -0.000	64,451 0,000 68,468 -0,000	65.149 0.000 69.066 -0.000	65.848 0.000 69.668 -0.000	66.550 0.000 70.272 -0.000	67.253 0.000 70.880 -0.000	67.958 0.000 71.491 -0.000	68.665 0.000 72.104 -0.000	69.373 0.000 72.721 -0.000	70.083 0.000 73.340 -0.000
	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956,997	11956.997	11956.997	11956.997	11956,997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956 997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997	11956.997
	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	90.000	90.000	90.000	90.000	90.000	90.000	900'06	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	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, 9:38 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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3/4/24, 9:38 PM					Well P	Well Plan Report	Ac
23300,000	90.000	179.657	90.000 179.657 11956.997	88.006 0.000 91.148 -0.000	-0.000 88.006 0.000	0.000 91.210 58.010	2.402 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
23400,000	90.000		179.657 11956.997	88.032 0.000 91.350 -0.000	88.032 0.000	0.000 91.413 58.095	2.397 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
23500,000	000'06		179.657 11956.997	88,060 0,000 91,556 -0,000	88.060 0.000	0.000 91.618 58.180	2.391 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
23600,000	90.000	179.657	179.657 11956.997	88.091 0.000 91.764 -0.000	88.091 0.000	0.000 91.826 58.266	2.384 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
23700,000	90.000	179.657	90.000 179.657 11956.997	88.124 0.000 91.976 -0.000	-0.000 88.124 0.000	0.000 92.038 58.353	2.378 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
23800,000	90.000	179.657	90.000 179.657 11956.997	88.159 0.000 92.191 -0.000	-0.000 88.159 0.000	0.000 92.253 58.439	2.371 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
23900.000	90.000	179 657	90.000 179.657 11956.997	88.196 0.000 92.409 -0.000	-0.000 88.196 0.000	0.000 92.471 58.526	2.364 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24000.000	90.000	179.657	90.000 179.657 11956.997	88,236 0,000 92,631 -0,000	88.236 0.000	0.000 92.692 58.614	2.356 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24100.000	90.000	179.657	90.000 179.657 11956.997	88.278 0.000 92.855 -0.000	88.278 0.000	0.000 92.917 58.702	2.349 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24200.000	90.000	179 657	179.657 11956.997	88.323 0.000 93.082 -0.000	88.323 0.000	0.000 93.144 58.790	2.341 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24300.000	90.000	179 657	179.657 11956.997	88.369 0.000 93.313 -0.000	88.369 0.000	0.000 93.374 58.879	2.333 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24400.000	90.000	179.657	179.657 11956.997	88.418 0.000 93.547 -0.000	88.418 0.000	0.000 93.608 58.968	2.325 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24500.000	90.000	179.657	90.000 179.657 11956.997	88.470 0.000 93.783 -0.000	-0.000 88.470 0.000	0.000 93.844 59.057	2.316 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24600.000	90.000	179.657	90.000 179.657 11956.997	88.523 0.000 94.023 -0.000	-0.000 88.523 0.000	0.000 94.084 59.147	2.308 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24693.619	90.000	179.657	90.000 179.657 11956.997	88.576 0.000 94.250 -0.000	-0.000 88.576 0.000	0.000 94.310 59.231	2.300 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24700.000	90.000	179.657	90.000 179.657 11956.997	88.579 0.000 94.265 -0.000	88.579 0.000	0.000 94.326 59.237	2.299 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22
24783.599	90.000	179.657	90.000 179.657 11956.997	88.628 0.000 94.470 -0.000	-0.000 88.628 0.000	0.000 94.531 59.313	2.292 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22

Plan Targets	Poker Lake Unit 22 DTD South 174H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(#t)	(ft)	(ft)	(#)
FTP 10	12199.23	440480.70	643478.10	8507.00 RECTANGLE
SHL 22	12686.63	440560.22	642804.06	8574.01 RECTANGLE
LTP 10	24693.61	427500.70	643555.80	8507.00 RECTANGLE
BHL 10	24783.96	427410.70	643556.70	8507.00 RECTANGLE

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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U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall

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

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

Notes

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

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

2. Well Control Procedures

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

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Production Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA Through Stack

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

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



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NEW CHOKE HOSE

INSTAUED 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:								
CH	CT.	200	rn.	n	-			

NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA

CUSTOMER P.O.#:

15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)

CUSTOMER P/N:

IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION:

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

FLANGES

SALES ORDER #:

529480

QUANTITY:

1

SERIAL #:

74621 H3-012524-1

SIGNATURE: F. OSSAGE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

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

3.0 x 4-1/16 10K

3.0 x 4-1/16 10K

Production description: Sales order #:

529480

74621/66-1531

FG1213

Hose ID:

3" 16C CK

Part number:

TEST INFORMATION

Customer reference:

Test procedure: Test pressure:

Test pressure hold:

Length difference:

Work pressure:

GTS-04-053 15000.00

psi 3600.00

sec

psi

10000.00 900.00

Work pressure hold: Length difference:

0.00 0.00

sec % inch Fitting 1:

Part number:

Description:

Fitting 2:

Part number:

Description:

Length:

45

feet

n. . . . 170

Visual check:

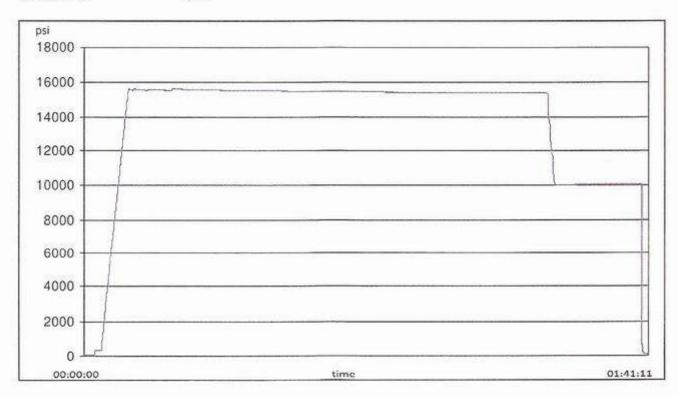
Pressure test result:

PASS

Length measurement result:

Test operator:

Travis



H3-15/16

n--- 1/2

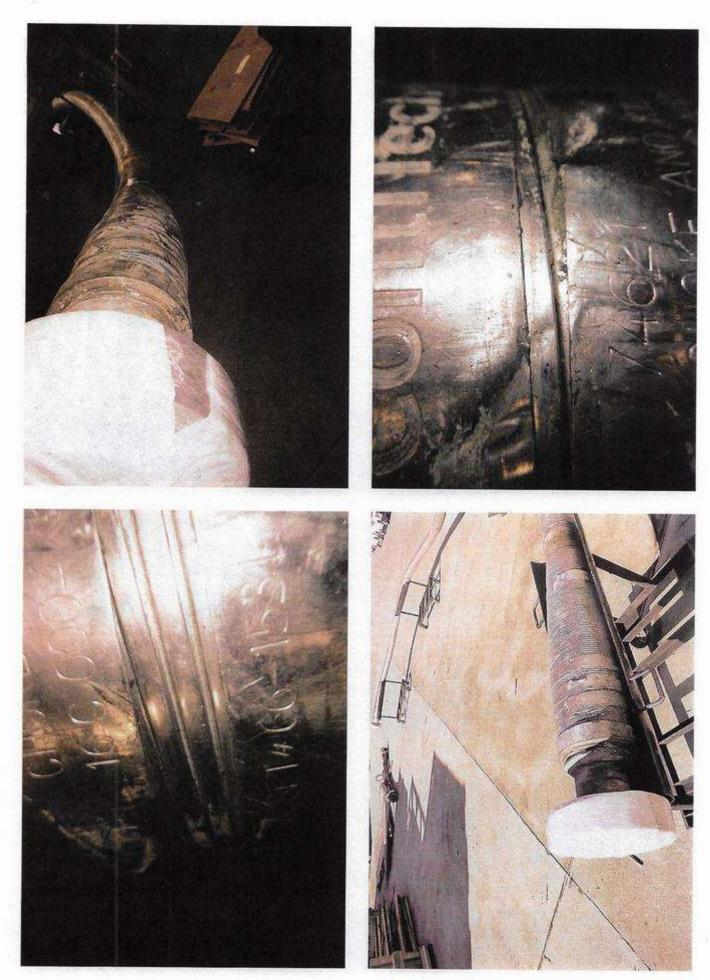


1/25/2024 11:48:06 AM

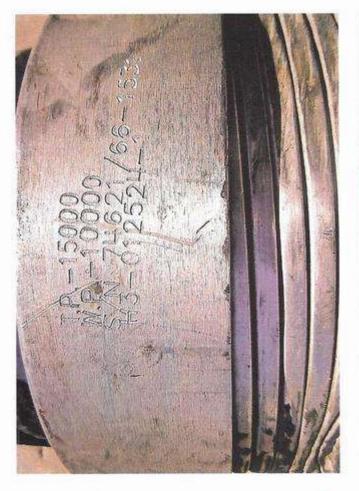
TEST REPORT

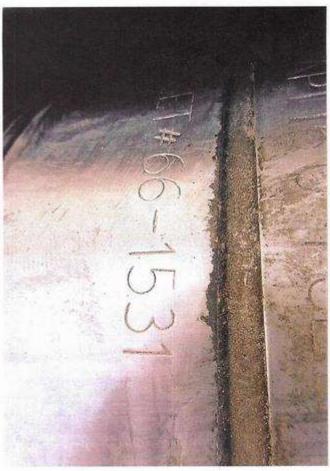
GAUGE TRACEABILITY

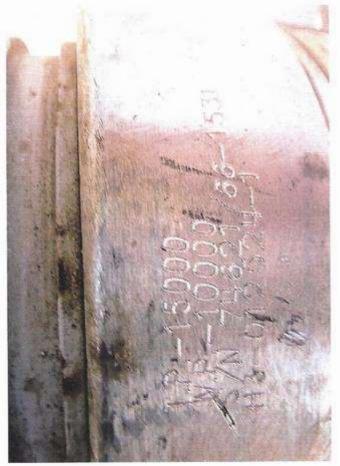
Serial number	Calibration date	Calibration due date	
110D3PHO	2023-06-06	2024-06-06	
110IQWDG	2023-05-16	2024-05-16	
	110D3PHO	110D3PHO 2023-06-06	



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

CONDITIONS

Action 386133

CONDITIONS

Operator:	OGRID:	
XTO PERMIAN OPERATING LLC.	373075	
6401 HOLIDAY HILL ROAD	Action Number:	
MIDLAND, TX 79707	386133	
	Action Type:	
	[C-103] NOI Change of Plans (C-103A)	

CONDITIONS

Created By		Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	10/3/2024