Sundry Print Report

Page 1 of 50

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

Well Name: POKER LAKE UNIT 15

TWR

Well Location: T24S / R31E / SEC 22 /

NWNW / 32.208748 / -103.77255

County or Parish/State: EDDY /

NM

Well Number: 115H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0506A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001554169

Operator: XTO PERMIAN OPERATING

LLC

Notice of Intent

Sundry ID: 2823640

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/20/2024

Time Sundry Submitted: 01:41

Date proposed operation will begin: 12/18/2024

Procedure Description: Poker Lake Unit 15 TWR 115H SUNDRY LANGUAGE XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, Proposed total Depth, and Pool Code. There is no new surface disturbance. There is a dedicated acreage change. FROM: TO: SHL: 490' FNL & 520' FWL OF SECTION 22-T24S-R31E 510' FNL & 520' FWL OF SECTION 22-T24S-R31E 616' FSL & 984' FWL OF SECTION 22-T24S-R31E KOP: 490' FNL & 520' FWL OF SECTION 22-T24S-R31E 100' FNL & 985' FWL OF SECTION 15-T24S-R31E FTP: 330' FNL & 990' FWL OF SECTION 22-T24S-R31E 100' FNL & 985' FWL OF SECTION 22-T24S-R31E LTP: 2540' FNL & 990' FWL OF SECTION 34-T24S-R31E 2592' FNL & 982' FWL OF SECTION 34-T24S-R31E BHL: 2590' FNL & 990' FWL OF SECTION 34-T24S-R31E 2592' FNL & 982' FWL OF SECTION 34-T24S-R31E The proposed total depth is changing from 24027' MD; 10855' TVD (3rd Bone Spring Shale) to 22517' MD; 8911' TVD (Avalon). There is a Pool Code change from 96403/Wildcat; Bone Spring to 96546/ Cotton Draw; Bone Spring, South A saturated salt brine will be utilized while drilling through the salt formations.

NOI Attachments

Procedure Description

PLU 15 TWR 115H Sundry Attachments 20241210105435.pdf

Received by OCD: WHIND FOR PAKE UNIT 15

Well Location: T24S / R31E / SEC 22 / NWNW / 32.208748 / -103.77255

County or Parish/State: EDDY /

Well Number: 115H Type of Well: OIL WELL Allottee or Tribe Name:

Page 2 of 50

Lease Number: NMNM0506A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001554169

Operator: XTO PERMIAN OPERATING

LLC

Conditions of Approval

Additional

PLU_15_TRW_115H_COA_20241211104557.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: SAMANTHA WEIS Signed on: DEC 10, 2024 10:55 AM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Advisor

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (832) 625-7361

Email address: SAMANTHA.R.BARTNIK@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Title: Petroleum Engineer **BLM POC Name: CHRISTOPHER WALLS**

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Approved Disposition Date: 02/04/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES

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

(June 2019)	DEP	PARTMENT OF THE INTI	ERIOR		Ex	pires: October 31, 2021
	BURI	EAU OF LAND MANAG	EMENT		5. Lease Serial No.	NMNM0506A
	ot use this f	IOTICES AND REPORT form for proposals to d Use Form 3160-3 (APD)	rill or to re-	enter an	6. If Indian, Allottee or Tribe	Name
	SUBMIT IN	TRIPLICATE - Other instruction	ns on page 2		7. If Unit of CA/Agreement, POKER LAKE UNIT/NMNM71016	
1. Type of Well		<u>_</u>			8. Well Name and No.	^
✓ Oil W		_			POKER LAKE UNIT 15 TWR/115H	
2. Name of Operator	XTO PERMIAN	OPERATING LLC			9. API Well No. 300155416	9
3a. Address 6401 H	OLIDAY HILL R	0, 10 DLD 0 0, 1111DL, 111D,	Phone No. <i>(inclu</i> 2) 683-2277	ide area code)	10. Field and Pool or Explora Wildcat; Bone Spring	ntory Area
4. Location of Well (A SEC 22/T24S/R3		R.,M., or Survey Description)			11. Country or Parish, State EDDY/NM	
	12. CHE	CK THE APPROPRIATE BOX(I	ES) TO INDICA	TE NATURE (OF NOTICE, REPORT OR OT	HER DATA
TYPE OF SUI	BMISSION			TYPE	E OF ACTION	
✓ Notice of Inter	nt	Acidize	Deepen	[Production (Start/Resume)	Water Shut-Off
Notice of filter	ıt	Alter Casing	Hydraulic	Fracturing [Reclamation	Well Integrity
Subsequent Re	eport	Casing Repair	New Cons	truction [Recomplete	Other
subsequent re	port	✓ Change Plans	Plug and A	Abandon [Temporarily Abandon	
Final Abandor	ment Notice	Convert to Injection	Plug Back	[Water Disposal	
is ready for final Poker Lake U SUNDRY LAN XTO Permian	inspection.) nit 15 TWR 115H NGUAGE Operating, LLC.		al to make the fo	ollowing chan	ges to the approved APD. C	·
KOP: 490 FNI FTP: 330' FNI LTP: 2540' FN	L & 520 FWL OF L & 990' FWL OF	F SECTION 22-T24S-R31E 51 SECTION 22-T24S-R31E 610 SECTION 22-T24S-R31E 10 OF SECTION 34-T24S-R31E 2 I information	6 FSL & 984 F\ 0' FNL & 985' F	WL OF SECT FWL OF SEC	ION 15-T24S-R31E TION 22-T24S-R31E	
14. I hereby certify the	at the foregoing is	true and correct. Name (Printed)	/Typed)	Downsitting /	A division m	
SAMANTHA WEIS	/ Ph: (832) 625-	-7361	Title	Permitting A	Advisor	
Signature (Elec	tronic Submissic	on)	Date	2	12/10/2	2024
		THE SPACE FO	OR FEDERA	L OR STA	TE OFICE USE	
Approved by						
CHRISTOPHER V		5) 234-2234 / Approved		Petrole Title	eum Engineer	02/04/2025 Date
certify that the applica	ant holds legal or e	hed. Approval of this notice does equitable title to those rights in the iduct operations thereon.		Office CAR	LSBAD	
Title 18 U.S.C Section	n 1001 and Title 43	3 U.S.C Section 1212, make it a c	crime for any per	son knowingly	and willfully to make to any d	epartment 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

BHL: 2590' FNL & 990' FWL OF SECTION 34-T24S-R31E 2592' FNL & 982' FWL OF SECTION 34-T24S-R31E

The proposed total depth is changing from 24027 MD; 10855 TVD (3rd Bone Spring Shale) to 22517 MD; 8911 TVD (Avalon).

There is a Pool Code change from 96403/Wildcat; Bone Spring to 96546/ Cotton Draw; Bone Spring, South

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

Location of Well

0. SHL: NWNW / 490 FNL / 520 FWL / TWSP: 24S / RANGE: 31E / SECTION: 22 / LAT: 32.208748 / LONG: -103.77255 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 330 FNL / 990 FWL / TWSP: 24S / RANGE: 31E / SECTION: 22 / LAT: 32.209191 / LONG: -103.771031 (TVD: 10833 feet, MD: 11300 feet)
PPP: NWNW / 330 FNL / 990 FWL / TWSP: 24S / RANGE: 31E / SECTION: 27 / LAT: 32.203215 / LONG: -103.770991 (TVD: 10842 feet, MD: 16600 feet)
BHL: SWNW / 2590 FNL / 990 FWL / TWSP: 24S / RANGE: 31E / SECTION: 34 / LAT: 32.173943 / LONG: -103.770969 (TVD: 10855 feet, MD: 24027 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
LEASE NO.: NMNM0506A
LOCATION: Sec. 22, T.24 S, R 31 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Poker Lake Unit 15 TWR 115H
SURFACE HOLE FOOTAGE: 510'/N & 520'/W
BOTTOM HOLE FOOTAGE: 2592'/N & 982'/W

Changes approved through engineering via **Sundry 2823640** on 12-11-2024_. Any previous COAs not addressed within the updated COAs still apply.

COA

H_2S	•	No	0	Yes
Potash /	None	Secretary	C R-111-Q	Open Annulus
WIPP	Choose	e an option (including bla	nk option.)	■ WIPP
Cave / Karst	C Low	Medium	் High	Critical
Wellhead	Conventional	Multibowl	Both	Diverter
Cementing	Primary Squeeze	Cont. Squeeze	Echo Meter	DV Tool
Special Req	Capitan Reef	Water Disposal	□ COM	Unit
Waste Prev.	C Self-Certification	C Waste Min. Plan	• APD Submitted p	rior 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 775 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 <u>8 hours</u> or <u>500 pounds compressive strength</u>, 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 7001'
 - b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

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

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

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
 - 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

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

Casing Clearance

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

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 12/11/2024 575-234-5998 / zstevens@blm.gov

<u>C-10</u>	2				Minerals & Natu	ew Mexico ral Resources Departmen SION DIVISION	nt		Re	evised July, 09 2024
	electronically D Permitting			OII	_ CONVENC	TON DIVISION			1	
								Submital	☐Initial Sub	mittal
								Type:	Amended I	Report
									☐ As Drilled	
			1		WELL LOCA	ATION INFORMATION				
API Nu		5- 54169	Pool Code	96546	3	Pool Name COTTO	N DRAW;	BONE SF	PRING, SOU	ГН
Propert	y Code		Property N	ame		<u> </u>			Well Number	
OGRID	N-		Operator N	r	POKER I	AKE UNIT 15 TWR			_	115H
OGKID	37307	' 5	Operator N	ame	XTO PERMI	AN OPERATING, LL	C.		Ground Level	3,522'
Surface	Owner:	State Fee	Tribal 🛮 Fe	deral		Mineral Owner:	State □Fee	□Tribal 🛛	Federal	
UL	Section	Township	Range	Lot	Surfa Ft. from N/S	ce Hole Location Ft. from E/W	Latitude		Longitude	County
D	22	248	31E		510 FNL		32.208		103.772550	EDDY
			0.2		Joint	3201 WE	02.200	,030	100,772000	
UL	Section	Township	Range	Lot	Ft. from N/S	m Hole Location Ft. from E/W	Latitude		Longitude	County
Е	34	248	31E		2,592 FN	982 FWL	32.173		103,770994	EDDY
			0.2		2,002111	3321112	021176			2551
Dedicat	ted Acres	Infill or Defi	ning Well	Defining	g Well API	Overlapping Spacing	Unit (Y/N)	Consolidat	ion Code	
80	00.00	INF	ILL	30	-015-54173	N			U	
Order N	Numbers.			ļ		Well Setbacks are un	der Common C)wnership:	⊠Yes □No	
								•		
111	G	T 1.	D	1		Off Point (KOP)	Trace to		r	Compte
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
М	15	24S	31E		616 FSL	984 FWL	32.211	792 -	103.771050	EDDY
UL	Section	Township	Panga	Lot	Ft. from N/S	Ft. from E/W	Latitude	Ι,	Longitudo	County
			Range	Lot					Longitude	
D	22	24S	31E		100 FNL	985 FWL	32,209	-	103.771047	EDDY
UL	Section	Township	Damas	Lot	Last T	Ft. from E/W	T asianda	Ι,	rin.d.	Country
	34	Township	Range	Lot			Latitude		Longitude	County
E	34	24S	31E		2,542 FN	982 FWL	32.174	1076 -	103.770994	EDDY
Unitize	d Area of Are	ea of Interest					Grou	nd Elevation		
		1105422429)	Spacing U	nit Type : Hor	izontal			3,522'	
				-		T				
		FICATIONS				SURVEYOR CERTIFIC				
best of i	my knowledg	e and belief, and	l, if the well is	vertical or a	nd complete to the directional well,	I hereby certify that the actual surveys made by	me or under m			
					ed mineral interes a right to drill thi		belief			
		iant to a contra erest, or a volur							DILLON	
		etofore entered						150	MEX/CO	EARS .
		ontal well, I fur of at least one l								
unlease	d mineral int	erest in each tro well's complete	ict (in the targ	et pool or in	formation) in			72	23786) &
		order from the a					1/	Orm		14/
_		, ,				//	///	0	SONAL S	UR/
Sax	nanth	a Wei	11/1	5/2024			<u>///</u>		23786	
Signatu	re		Date			Signature and Seal of Pr	ofessional Surv	eyor		
Sama	antha We	eis				MARK DILLON HARP 23'	786		10/31/2024	
Printed						Certificate Number		f Survey	15,51,2024	
		artnik@exx	onmobil.c	om		_				
Email A	Address									

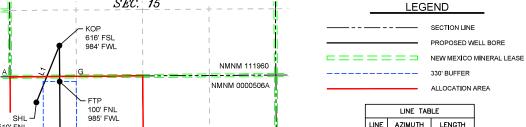
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

\618.013 XTO Energy - NM\003 Poker Lake Unit\.14 - PLU 15 TWR - EDDY\Wells\-18 - 115H\DWG\115H C-102.dwg

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 tract.

ions will be in reference to the New Mexico Principal Meridian. If the land in



	LINE TAB	LE
LINE	AZIMUTH	LENGTH
L1	022*04'11"	1,218.89
L2	179*37'40"	13,770.79

	COOR	TINI 4	TE TAP		
CI II (TE TAB		`
	NAD 83 NME	_		NAD 27 NME	
Υ=	440,109.2	N	Y=	440,050.4	N
X =	714,780.0	E	X =	673,596.0	E
LAT. =	32.208693	°N	LAT. =	32.208570	°N
LONG. =				103.772066	°۷
	NAD 83 NME	<u> </u>		NAD 27 NME	<u> </u>
Y=	441,238.8	N	Υ=	441,179.9	N
X =	715,238.0	E	X =	674,054.0	E
LAT. =	32.211792	°N	LAT. =	32.211668	°N
	103.771050	°W	LONG. =	103.770567	°۷
FTP (NAD 83 NME)	FTP (NAD 27 NME)
Υ=	440,522.7	N	Υ=	440,463.8	N
X =	715,242.6	E	X =	674,058.6	Ε
LAT. =	32.209823	°N	LAT. =	32.209700	°N
LONG. =	103.771047	°W	LONG. =	103.770564	°۷۸
PPP #1	(NAD 83 NM	E)	PPP #1	(NAD 27 NM	E)
Υ=	435,342.1	Ń	Υ=	435,283.4	ĺΝ
X =	715,274.7	E	X =	674,090.5	E
LAT. =	32.195583	°N	LAT. =	32.195459	°N
	103.771031	°W			°W
					_
	(NAD 83 NM			(NAD 27 NM	r –
Υ=	430,060.2	N	Υ=	430,001.7	N
X =	715,307.9	E	X =	674,123.5	Е
LAT. =	32.181063	*N	LAT. =	32.180939	*N
LONG. =	103.771013	°W		103.770531	°۷۸
LTP (NAD 83 NME)	LTP (NAD 27 NME)
Υ=	427,518.3	N	Υ=	427,459.8	N
X =	715,327.0	E	X =	674,142.5	Е
LAT	32.174076	°N	LAT	32.173952	٩N
LONG. =	103.770994	°W	LONG. =	103.770512	۰N
	NAD 83 NME			NAD 27 NME	1
Y=	427,468.3	N	Y=	427,409.8	N
X =	715,327.4	E	X=	674,142.9	E
		°N	LAT. =	32.173814	°N
		I N	La	32.173014	13
LAT. =	32.173938	ο\Λ/		103 770513	οιΛ
LONG. =	103.770994		LONG. =		٩Ν
LONG. = COI	103.770994 RNER COOF	DIN	LONG. = ATES (NA	AD 83 NME)	
LONG. = COI A Y=	103.770994 RNER COOF 440,615.7	NIDS	LONG. = ATES (NA A X =	AD 83 NME) 714,257.0	Е
LONG. = COI A Y= B-Y=	103.770994 RNER COOF 440,615.7 437,975.6	N N	LONG. = ATES (NA A X = B - X =	714,257.0 714,270.8	E
COI A Y= B-Y= C-Y=	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0	N N N	LONG. = ATES (NA A X = B - X = C - X =	714,257.0 714,270.8 714,291.7	E E
COI A Y = B - Y = C - Y = D - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6	N N N N	LONG. = ATES (NA A X = B - X = C - X = D - X =	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,308.9	E E E
COI A Y= B-Y= C-Y=	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9	N N N	LONG. = ATES (N) A X = B - X = C - X = D - X = E - X =	714,257.0 714,270.8 714,291.7 714,308.9 714,327.6	E E
COI A Y = B - Y = C - Y = D - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6	N N N N	LONG. = ATES (N) A X = B - X = C - X = D - X = E - X = F - X =	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,308.9 714,327.6 714,345.3	E E E
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COI A Y= B-Y= C-Y= D-Y= E-Y= F-Y=	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5	N N N N N	LONG. = ATES (N) A X = B - X = C - X = D - X = E - X = F - X =	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,308.9 714,327.6 714,345.3	EEE
CONG. = COI A Y = B - Y = C - Y = D - Y = E - Y = F - Y = G - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5 440,625.1 437,984.2	N N N N N N N N N N N N N N N N N N N	LONG. = ATES (N) A X = B - X = C - X = D - X = E - X = F - X = G - X =	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,308.9 714,327.6 714,345.3 715,576.6	
CONG. = COI A Y = B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = H - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5 440,625.1	N N N N N N	LONG. = ATES (N) A X = B - X = C - X = D - X = E - X = F - X = G - X = H - X = I - X =	714,257.0 714,270.8 714,291.7 714,308.9 714,327.6 714,345.3 715,576.6 715,592.6 715,612.1	
CONG. = COI A Y = B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = H - Y = J - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5 440,625.1 437,984.2 435,344.2	N N N N N N N N	LONG. = ATES (N) A X = B - X = C - X = D - X = E - X = F - X = G - X = H - X = J - X =	14,257.0 714,270.8 714,291.7 714,308.9 714,327.6 714,345.3 715,576.6 715,592.6 715,612.1 715,629.4	
CONG. = COI A Y = B - Y = C - Y = D - Y = E - Y = G - Y = H - Y = J - Y = K - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5 440,625.1 437,984.2 435,344.2 432,702.2	N N N N N N N N	LONG. = ATES (N) A X = B - X = C - X = D - X = E - X = F - X = G - X = H - X = J - X = K - X =	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,308.9 714,327.6 714,345.3 715,576.6 715,592.6 715,612.1 715,629.4 715,647.5	
CONG. = COI A Y = B - Y = C - Y = D - Y = E - Y = G - Y = I - Y = J - Y = L - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5 440,625.1 437,984.2 435,344.2 432,702.2 430,062.2	N N N N N N N N N N N N N N N N N N N	LONG. = ATES (N/A x = B - X = C - X = D - X = E - X = F - X = H - X = J - X = L - X = L - X =	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,308.9 714,327.6 715,576.6 715,592.6 715,612.1 715,642.5 715,647.5 715,642.6	
CONG. = COI A Y- B-Y= C-Y= D-Y= E-Y= G-Y= I-Y= J-Y= L-Y= COI	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5 440,625.1 437,984.2 435,344.2 432,702.2 430,062.2 427,420.1 RNER COOF	RDIN N N N N N N N N N N N N N N N N N N	LONG. = ATES (N) A X = B - X = C - X = D - X = E - X = F - X = G - X = I - X = J - X = L - X = ATES (N)	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,308.9 714,327.6 715,576.6 715,592.6 715,612.1 715,662.4 715,662.6 AD 27 NME)	
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CONC. = COI A Y = B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = I - Y = J - Y = L - Y = B - Y = B - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5 440,625.1 437,984.2 432,702.2 430,062.2 427,420.1 RNER COOF 440,556.9 437,916.8	RDIN N N N N N N N N N N N N N N N N N N	LONG. = ATES (N/ A X = B - X = C - X = D - X = E - X = F - X = H - X = J - X = K - X = L - X = B - X = B - X =	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,393.9 714,327.6 714,345.3 715,576.6 715,692.6 715,647.5 715,662.6 715,662.6 715,662.6 715,662.6 715,662.6 715,662.6 715,662.6 715,662.6 715,662.6 715,662.6	
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CONC. = COI A Y = B - Y = C - Y = F - Y = G - Y = I - Y = K - Y = L - Y = C - Y = B - Y = C - Y =	103.770994 RNER COOF 440,615.7 437,975.6 435,336.0 432,694.6 430,053.9 427,412.5 440,625.1 437,984.2 432,702.2 430,062.2 427,420.1 RNER COOF 440,556.9 437.916.8 435,277.3 432,636.0 429,995.3 427,353.9	RDIN N N N N N N N N N N N N N N N N N N	LONG. = ATES (N/ A X = B - X = C - X = D - X = E - X = F - X = G - X = I - X = J - X = K - X = L - X = ATES (N/ A - X = B - X = C - X = D - X = E - X = G - X = G - X = G - X = G - X =	AD 83 NME) 714,257.0 714,270.8 714,291.7 714,308.9 714,327.6 714,345.3 715,576.6 715,562.6 715,647.5 715,662.6 715,662.6 715,662.6 673,073.0 673,086.7 673,107.5 673,124.6 673,143.2 673,160.8 674,392.6	
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	20 15 1WR - EDDY, Wells, -18 - 115H (DWG, 115H C-102.0Wg	510' FNL 520' FWL	510' FNL 520' FWL	B	618 FSL 984 FWL SHL 510 FNL 985 FWL 510 FNL 985 FWL 520 FWL SEC. 22 T-24-S R-31-E SEC. 27 SEC. 27 LTP 2.542 FNL 982 FWL 982 FWL SEC. 34 F BHL 2.592 FNL 982 FWL

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

XTO Energy Inc.

POKER LAKE UNIT 15 TWR 115H

Projected TD: 22516.67' MD / 8911' TVD

SHL: 510' FNL & 520' FWL , Section 22, T24S, R31E

BHL: 2592' FNL & 982' FWL , Section 34, T24S, R31E

EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	649'	Water
Top of Salt	974'	Water
Base of Salt	4211'	Water
Delaware	4434'	Water
Brushy Canyon	7001'	Water/Oil/Gas
Bone Spring	8274'	Water
Ava l on	8411'	Water/Oil/Gas
Target/Land Curve	8911'	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 @ 749' (225' 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 8137.23' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22516.67 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 7837.23 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 749'	9.625	40	J-55	втс	New	1.62	8.41	21.03
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	4.28	2.57	2.31
8.75	4000' – 8137.23'	7.625	29.7	HC L-80	F l ush Joint	New	3.11	2.34	3.30
6.75	0' - 8037.23'	5.5	20	RY P-110	Semi-Premium / Freedom	New	1.26	2.95	2.28
6.75	8037.23' - 22516.67'	5.5	20	RY P-110	Semi-F l ush / Ta l on	New	1.26	2.66	2.28

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

Wellhead:

Operator will utilize Multi-Bowl System - See Attached

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

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 749'

Lead: 150 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

Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 8137.23'

1st Stage

Optional Lead: 380 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 100 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 7001

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: 790 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 (7001') 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 / Talon, RY P-110 casing to be set at +/- 22516.67'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 7837.23 feet
Tail: 1010 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 8337.23 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 5M Hydril Annular and 10M Triple Ram BOP.

All BOP testing will be done by an independent service company. Operator will test as per BLM CFR43-3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. .

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production

hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. We will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss	Additional
		J.	(ppg)	(sec/qt)	(cc)	Comments
0' - 749'			8.4-8.9	35-40	NC	Fresh water or native water
749' - 4434'	8.75	Saturated brine	10.0-10.5	30-32	NC	Fully saturated salt across salado / salt
4434' - 8137.23'	8.75	Brine or Direct Emu l sion	10-10.5	30-32	NC	Depending on well conditions
8137.23' - 22516.67'	6.75	ОВМ	9-9.5	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. A saturated salt brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 155 to 175 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.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - PLU 15 Twin Wells Ranch-115H

	.								
Pad	PLU 15 Twin Wells	Kancn-115F							
Site:	Slot:								
22516.67 ft	8911.00 ft		New Mexico East - NAD 27	440050.40 ft	673596.00 ft	3554.00 ft	3522.00 ft	Grid	0.30 Deg
Measured Depth:	TVD RKB:	Location	Cartographic Reference System:	Northing:	Easting:	RKB:	Ground Level:	North Reference:	Convergence Angle:
	Jepth: 22516.67 ft	Jepth: Site: 8911.00 ft Slot:	Jepth: 22516.67 ft Site: 8911.00 ft Slot:	Jepth: 22516.67 ft Site: 8911.00 ft Slot: phic New Mexico East - e System: NAD 27	Pepth: 22516.67 ft Site: 8911.00 ft Slot: phic New Mexico East - NAD 27 A40050.40 ft	bepth: 22516.67 ft Site: 8911.00 ft Slot: phic New Mexico East - e System: NAD 27 440050.40 ft 673596.00 ft	bepth: 22516.67 ft Site: 8911.00 ft Slot: phic New Mexico East -	22516.67 ft Site: 8911.00 ft Slot: New Mexico East - NAD 27 440050.40 ft 673596.00 ft 3554.00 ft 3522.00 ft	bepth: 22516.67 ft Site: 8911.00 ft Slot: phic New Mexico East - A40050.40 ft e System: 440050.40 ft : 673596.00 ft 3554.00 ft 3554.00 ft evel: 3522.00 ft ference: Grid

Plan Sections	PLI	PLU 15 Twin Wells Ranch	Ranch-115H					
Measured			ΔΛΙ			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(#)	(ft)	(#)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	00.0	00.00	00.00	00.00	00.00	0.00	00.00	0.00
1100.00	00.0	00.00	1100.00	00.00	0.00	0.00	00.00	0.00
1798.76	13.98	22.07	1791.85	78.58	31.86	2.00	00.00	2.00
6143.66	13.98	22.07	6008.15	1051.00	426.12	0.00	00.00	0.00
6842.42	00.0	00.00	00.0079	1129.58	457.98	-2.00	00.00	2.00
8337.23	00.0	00.00	8194.80	1129.58	457.98	00.00	00.00	0.00
9462.23	00.06	179.63	8911.00	413.40	462.60	8.00	00:00	8.00 FTP 11
22466.50	00'06	179.63	8911.00	-12590.60	546.50	00.00	00.00	0.00 LTP 11
22516.67	00.06	179.63	8911.00	-12640.77	546.82	0.00	00.00	0.00 BHL 11

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

PLU 15 Twin Wells Ranch-115H

Position Uncertainty

	Azimuth Used	(,)	0.000 MWD+IFR1+MS	112.264 MWD+IFR1+MS	122.711 MWD+IFR1+MS	125.469 MWD+IFR1+MS	126.713 MWD+IFR1+MS	127.419 MWD+IFR1+MS	127.873 MWD+IFR1+MS	128.190 MWD+IFR1+MS	128.423 MWD+IFR1+MS	128.602 MWD+IFR1+MS	128.744 MWD+IFR1+MS	128.859 MWD+IFR1+MS	128.463 MWD+IFR1+MS	127.511 MWD+IFR1+MS	127.047 MWD+IFR1+MS	126.769 MWD+IFR1+MS	126.586 MWD+IFR1+MS	126.461 MWD+IFR1+MS	126.375 MWD+IFR1+MS	126.360 MWD+IFR1+MS	126.350 MWD+IFR1+MS	126.637 MWD+IFR1+MS	126.921 MWD+IFR1+MS	127.201 MWD+IFR1+MS	127.479 MWD+IFR1+MS	127.754 MWD+IFR1+MS	128.027 MWD+IFR1+MS	128.297 MWD+IFR1+MS	128.566 MWD+IFR1+MS	128.833 MWD+IFR1+MS	129.098 MWD+IFR1+MS
	Error	(#)	0.000	0.220	0.627	0.986	1.344	1.701	2.059	2.417	2.775	3.133	3 491	3.849	4.205	4.560	4 914	5.269	5.624	5.981	6.336	6.341	6.708	7 087	7.468	7 851	8.234	8.619	9.004	9.390	9.776	10.164	10.551
	Error	(ff)	0.000	0.751	1.259	1.698	2.108	2.503	2.888	3.267	3.642	4.014	4 384	4.752	5.303	6.088	008 9	7.458	8.076	8.660	9.204	9.209	9.465	9.750	10.041	10.338	10.641	10.950	11.263	11.581	11.903	12.228	12.557
ort	of Bias	(ft)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	Error Bias	(ft) (ft)	0.000 0.000	2.300 0.000	2.310 0.000	2.326 0.000	2.348 0.000	2.375 0.000	2.408 0.000	2.446 0.000	2.488 0.000	2.534 0.000	2.585 0.000	2.638 0.000	2.695 0.000	2.756 0.000	2.822 0.000	2.895 0.000	2.978 0.000	3.073 0.000	3.178 0.000	3.173 0.000	3.254 0.000	3.342 0.000	3.433 0.000	3.527 0.000	3.625 0.000	3.725 0.000	3.828 0.000	3.933 0.000	4.040 0.000	4.150 0.000	4.262 0.000
	Bias	(#)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Error	(H)	0.000	0.350	0.861	1.271	1.658	2.034	2.405	2.773	3.138	3.502	3.865	4.228	4.303	4.685	5.062	5.436	5.809	6.180	6.547	6.552	6.907	7.285	7.664	8.045	8.427	8.810	9.194	9.579	9.965	10.351	10.738
	Error Bias	(ft) (ft)	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	5.222 0.000	5.983 0.000	6.670 0.000	7.302 0.000	7.891 0.000	8.444 0.000	8.955 0.000	8.959 0.000	9.226 0.000	9.516 0.000	9.814 0.000	10.118 0.000	10.429 0.000	10.746 0.000	11.068 0.000	11.394 0.000	11.725 0.000	12.060 0.000	12.399 0.000
	RKB	(ff)	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	1299.838	1399 452	1498 702	1597.465	1695.623	1791.850	1793.055	1890.095	1987 135	2084.175	2181.215	2278.255	2375 296	2472.336	2569.376	2666.416	2763.456	2860.496
	Azimuth	©	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070
	Inclination	()	0.000	000'0	0.000	000'0	0.000	000'0	0.000	0.000	0.000	0.000	0.000	0.000	2.000	4.000	000'9	8.000	10.000	12.000	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13,975	13.975	13.975	13.975
10/18/24, 9:41 AM	Depth	(#)	0.000	100.000	200.000	300.000	400.000	200,000	000.009	700.000	800.000	900.000	1000.000	1100.000	1200.000	1300.000	1400.000	1500.000	1600.000	1700.000	1798.758	1800.000	1900.000	2000.000	2100.000	2200.000	2300.000	2400.000	2500.000	2600.000	2700.000	2800.000	2900.000
	leas	ed to	o Im	agii	ng:	3/17	//202	25 1.	1:20):14	AM	,																					

	129.362 MWD+IFR1+MS	129.625 MWD+IFR1+MS	129.887 MWD+IFR1+MS	130.148 MWD+IFR1+MS	130.409 MWD+IFR1+MS	130.670 MWD+IFR1+MS	130.930 MWD+IFR1+MS	131.191 MWD+IFR1+MS	131.451 MWD+IFR1+MS	131.712 MWD+IFR1+MS	131.973 MWD+IFR1+MS	132.235 MWD+IFR1+MS	132,498 MWD+IFR1+MS	132.762 MWD+IFR1+MS	133.027 MWD+IFR1+MS	133.294 MWD+IFR1+MS	133.561 MWD+IFR1+MS	133.831 MWD+IFR1+MS	134.102 MWD+IFR1+MS	134.375 MWD+IFR1+MS	134.651 MWD+IFR1+MS	134.928 MWD+IFR1+MS	-44.792 MWD+IFR1+MS	-44.510 MWD+IFR1+MS	-44.225 MWD+IFR1+MS	-43.937 MWD+IFR1+MS	-43.646 MWD+IFR1+MS	-43.352 MWD+IFR1+MS	-43.054 MWD+IFR1+MS	-42.754 MWD+IFR1+MS	-42.449 MWD+IFR1+MS	-42.141 MWD+IFR1+MS	-42.106 MWD+IFR1+MS
	10.939	11.328	11.717	12.106	12.495	12.885	13.275	13,665	14.055	14.446	14.837	15.228	15.619	16.010	16.401	16.793	17 184	17.576	17.968	18.360	18.752	19.144	19.536	19.928	20.320	20.713	21.105	21.497	21.890	22.282	22.675	23.067	23.238
	12.890	13.225	13.563	13.904	14.247	14.592	14.940	15.289	15.640	15.993	16.347	16.703	17 060	17.418	17.778	18.139	18.501	18.864	19.228	19.592	19.958	20.325	20 692	21 060	21.429	21.799	22.169	22.539	22.911	23.283	23.655	24 028	24.187
oort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	4.376 0.000	4.491 0.000	4.609 0.000	4.728 0.000	4.849 0.000	4.971 0.000	5.095 0.000	5.221 0.000	5.348 0.000	5.477 0.000	5.607 0.000	5.739 0.000	5.872 0.000	0000 0000	6.143 0.000	6.281 0.000	6.420 0.000	6.561 0.000	6.703 0.000	6.847 0.000	6.992 0.000	7.139 0.000	7.288 0.000	7.438 0.000	7.589 0.000	7.743 0.000	7.898 0.000	8.054 0.000	8.212 0.000	8.372 0.000	8.534 0.000	8.698 0.000	8.769 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	0000	0000	0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11.125	11.513	11.902	12.290	12.679	13.069	13.458	13.848	14.239	14.629	15.020	15.410	15.801	16.193	16.584	16.975	17.367	17.759	18.151	18.542	18.934	19.327	19.719	20.111	20.504	20.896	21.289	21.681	22.074	22.467	22.859	23.252	23.421
	12.741 0.000	13.086 0.000	13.434 0.000	13.784 0.000	14.138 0.000	14.493 0.000	14.851 0.000	15.210 0.000	15.572 0.000	15.935 0.000	16.299 0.000	16.666 0.000	17.033 0.000	17.402 0.000	17.772 0.000	18.143 0.000	18.516 0.000	18.889 0.000	19.264 0.000	19.639 0.000	20.015 0.000	20.392 0.000	20.769 0.000	21.148 0.000	21.527 0.000	21.907 0.000	22.287 0.000	22.668 0.000	23.049 0.000	23.431 0.000	23.814 0.000	24.197 0.000	24.362 0.000
	70 2957.536	70 3054.576	70 3151.616	70 3248.656	70 3345.696	70 3442.736	70 3539.776	70 3636.816	70 3733.856	70 3830.896	70 3927.936	70 4024.976	70 4122.016	70 4219.056	70 4316.097	70 4413.137	70 4510.177	70 4607.217	70 4704.257	70 4801.297	70 4898.337	70 4995.377	70 5092.417	70 5189.457	70 5286.497	70 5383,537	70 5480.577	70 5577,617	70 5674.657	70 5771.697	70 5868.737	70 5965.777	70 6008.150
	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22 070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22.070	22 070	22.070
	13.975	13.975	13.975	13 975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13 975	13.975	13.975	13.975	13 975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13.975	13 975	13 975
10/18/24, 9:41 AM	3000.000	3100.000	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	5000.000	5100.000	5200.000	5300.000	5400.000	5500.000	5600.000	5700.000	5800.000	5900.000	000.0009	6100.000	6143.665
	leas	ed to	o Im	agii	ng: .	3/17	//202	25 1	1:20):14	AM	-																					

	-42.116 MWD+IFR1+MS	-42.911 MWD+IFR1+MS	-44.077 MWD+IFR1+MS	134.907 MWD+IFR1+MS	134.027 MWD+IFR1+MS	133.270 MWD+IFR1+MS	132.623 MWD+IFR1+MS	132.486 MWD+IFR1+MS	132.371 MWD+IFR1+MS	132.257 MWD+IFR1+MS	132.155 MWD+IFR1+MS	132.054 MWD+IFR1+MS	131.955 MWD+IFR1+MS	131.857 MWD+IFR1+MS	131.760 MWD+IFR1+MS	131.664 MWD+IFR1+MS	131.570 MWD+IFR1+MS	131.477 MWD+IFR1+MS	131.385 MWD+IFR1+MS	131.294 MWD+IFR1+MS	131.204 MWD+IFR1+MS	131.116 MWD+IFR1+MS	131.028 MWD+IFR1+MS	130.985 MWD+IFR1+MS	129.972 MWD+IFR1+MS	115.760 MWD+IFR1+MS	106.594 MWD+IFR1+MS	102.946 MWD+IFR1+MS	101.209 MWD+IFR1+MS	100.344 MWD+IFR1+MS	99.967 MWD+IFR1+MS	99.904 MWD+IFR1+MS	100.057 MWD+IFR1+MS
	23.457	23.841	24.217	24.584	24 941	25.287	25.624	25.764	25.953	26.281	26.610	26.940	27.271	27.602	27.934	28.267	28 600	28.934	29.268	29.603	29.939	30.275	30.612	30.737	30.955	31.446	31.812	32.081	32.301	32,483	32.633	32.756	32.852
	24.394	24.815	25.273	25.723	26.165	26.597	27.020	27.160	27.340	27.656	27.978	28.301	28 624	28.949	29.274	29.600	29.927	30.255	30.583	30.912	31.242	31.572	31.903	32.023	32.238	33 144	34.425	35.569	36.520	37.265	37.811	38.177	38.392
oort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	000'0	0.000
Well Plan Report	8.863 0.000	9.032 0.000	9.198 0.000	9.355 0.000	9.505 0.000	9.648 0.000	9.787 0.000	9.845 0.000	9.923 0.000	10.060 0.000	10.201 0.000	10.344 0.000	10.491 0.000	10.640 0.000	10.792 0.000	10.947 0.000	11.104 0.000	11.265 0.000	11.429 0.000	11.596 0.000	11.766 0.000	11.939 0.000	12.115 0.000	12.181 0.000	12.291 0.000	12.522 0.000	12.958 0.000	13.672 0.000	14.701 0.000	16.035 0.000	17.626 0.000	19.408 0.000	21.307 0.000
	23.637 0.000	24.018 0.000	24.393 0.000	24.759 0.000	25.115 0.000	25.462 0.000	25.800 0.000	26.410 0.000	26.592 0.000	26.911 0.000	27.235 0.000	27.559 0.000	27.884 0.000	28.210 0.000	28.536 0.000	28.864 0.000	29.192 0.000	29.521 0.000	29.850 0.000	30.180 0.000	30.511 0.000	30.843 0.000	31.175 0.000	31.296 0.000	31.499 -0.000	31.783 -0.000	32.043 -0.000	32.276 -0.000	32.481 -0.000	32.660 -0.000	32.813 -0.000	32.942 -0.000	33.049 -0.000
	24.596 0.000	25.045 0.000	25.498 0.000	25.912 0.000	26.286 0.000	26.620 0.000	26.915 0.000	26.532 0.000	26.719 0.000	27.043 0.000	27.370 0.000	27.699 0.000	28.028 0.000	28.357 0.000	28.688 0.000	29.019 0.000	29.350 0.000	29.683 0.000	30.016 0.000	30.349 0.000	30.683 0.000	31.018 0.000	31.353 0.000	31.476 0.000	31.252 0.000	31.290 0.000	31.295 0.000	30.859 0.000	30.070 0.000	29.040 0.000	27.911 0.000	26.851 0.000	26.049 0.000
	6062.948	6160.812	6259.333	6358.392	6457.866	6557,635	6657.578	000.0079	6757.577	6857,577	6957,577	7057.577	7157.577	7257.577	7357.577	7457.577	7557,577	7657.577	7757.577	7857.577	7957,577	8057.577	8157.577	8194.803	8257.496	8356.179	8451.721	8542,262	8626.040	8701.424	8766.948	8821.336	8863.529
	22.070	22.070	22.070	22.070	22.070	22.070	22.070	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	179.630	179 630	179.630	179.630	179 630	179.630	179.630	179 630	179.630
	12.848	10.848	8.848	6.848	4.848	2.848	0.848	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	5.022	13.022	21.022	29.022	37.022	45.022	53.022	61.022	69.022
10/18/24, 9:41 AM	6200.000	6300.000	6400.000	6500.000	000.0099	6700.000	000.0089	6842.423	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	8337.226	8400.000	8500.000	8600.000	8700.000	8800.000	8900.000	000.0006	9100.000	9200.000
	leas	ed to	o In	agi	ng: .	3/17	//202	25 1	1:20):14	AM	-																					

18/24, 9:41 AM						Well Plan Report	rt.			
9300.000	77.022	179.630	8892.706	25.685 0.000	33.134 -0.000	23.252 0.000	0.000	38.492	32.926	100.350 MWD+IFR1+MS
9400.000	85.022	179.630	8908.298	25.895 0.000	33.199 -0.000	25.180 0.000	0.000	38.523	32.978	100.702 MWD+IFR1+MS
9462.226	000 06	179.630	8911.000	25.735 0.000	33.224 -0.000	25.735 0.000	0.000	38.528	32.997	100.887 MWD+IFR1+MS
9200.000	000.06	179.630	8911.000	25.838 0.000	33.238 -0.000	25.838 0.000	0.000	38,532	33.006	100.996 MWD+IFR1+MS
9600.000	90.000	179.630	8911.000	26.062 0.000	33.297 -0.000	26.062 0.000	0.000	38.542	33.053	101.329 MWD+IFR1+MS
9700.000	000.06	179.630	8911.000	26.312 0.000	33.381 -0.000	26.312 0.000	0.000	38.554	33.125	101.717 MWD+IFR1+MS
9800.000	90.000	179.630	8911.000	26.582 0.000	33.489 -0.000	26.582 0.000	0.000	38.568	33.218	102.160 MWD+IFR1+MS
000.0066	000.06	179.630	8911.000	26.872 0.000	33.619 -0.000	26.872 0.000	0.000	38.584	33.332	102.666 MWD+IFR1+MS
10000.000	90.000	179.630	8911.000	27.183 0.000	33.772 -0.000	27.183 0.000	0.000	38.603	33.467	103.241 MWD+IFR1+MS
10100.000	000.06	179.630	8911.000	27.512 0.000	33.947 -0.000	27.512 0.000	0.000	38.624	33.622	103.898 MWD+IFR1+MS
10200.000	90.000	179.630	8911.000	27.859 0.000	34.143 -0.000	27.859 0.000	0.000	38.648	33.796	104.649 MWD+IFR1+MS
10300.000	90.000	179.630	8911.000	28.223 0.000	34.362 -0.000	28.223 0.000	0.000	38.676	33.989	105.509 MWD+IFR1+MS
10400.000	000 06	179.630	8911.000	28.605 0.000	34.601 -0.000	28.605 0.000	0.000	38.708	34 199	106.498 MWD+IFR1+MS
10500.000	90.000	179.630	8911.000	29.003 0.000	34.861 -0.000	29.003 0.000	0.000	38.745	34.425	107.640 MWD+IFR1+MS
10600.000	000 06	179.630	8911.000	29.416 0.000	35.141 -0.000	29.416 0.000	0.000	38.788	34.665	108.964 MWD+IFR1+MS
10700.000	90.000	179.630	8911.000	29.845 0.000	35.440 -0.000	29.845 0.000	0.000	38.838	34.919	110.505 MWD+IFR1+MS
10800.000	90.000	179.630	8911.000	30.287 0.000	35.759 -0.000	30.287 0.000	0.000	38.898	35.183	112.306 MWD+IFR1+MS
10900.000	90.000	179.630	8911.000	30.744 0.000	36.097 -0.000	30.744 0.000	0.000	38.969	35.454	114.414 MWD+IFR1+MS
11000.000	90.000	179.630	8911.000	31.213 0.000	36.452 -0.000	31.213 0.000	0.000	39.055	35.730	116.882 MWD+IFR1+MS
11100.000	90.000	179.630	8911.000	31.695 0.000	36.826 -0.000	31.695 0.000	0.000	39.159	36.006	119.757 MWD+IFR1+MS
11200.000	90.000	179.630	8911.000	32.188 0.000	37.216 -0.000	32.188 0.000	0.000	39.286	36.277	123.068 MWD+IFR1+MS
11300.000	90.000	179.630	8911.000	32.694 0.000	37.623 -0.000	32.694 0.000	0.000	39.440	36.537	126.810 MWD+IFR1+MS
11400.000	90.000	179.630	8911.000	33.210 0.000	38.046 -0.000	33.210 0.000	0.000	39.627	36.781	130.915 MWD+IFR1+MS
11500.000	90.000	179.630	8911.000	33.736 0.000	38.485 -0.000	33.736 0.000	0.000	39.853	37.002	-44.753 MWD+IFR1+MS
11600.000	90.000	179.630	8911.000	34.272 0.000	38.938 -0.000	34.272 0.000	0.000	40.119	37.199	-40.385 MWD+IFR1+MS
11700.000	90.000	179.630	8911.000	34.818 0.000	39.406 -0.000	34.818 0.000	0.000	40.426	37.370	-36.183 MWD+IFR1+MS
11800.000	90.000	179.630	8911.000	35.372 0.000	39.888 -0.000	35.372 0.000	0.000	40.773	37.515	-32.303 MWD+IFR1+MS
11900.000	90.000	179.630	8911.000	35.936 0.000	40.383 -0.000	35.936 0.000	0.000	41.156	37.638	-28.836 MWD+IFR1+MS
12000.000	90.000	179.630	8911.000	36.507 0.000	40.892 -0.000	36.507 0.000	0.000	41.571	37.742	-25.806 MWD+IFR1+MS
12100.000	90.000	179.630	8911.000	37.086 0.000	41.413 -0.000	37.086 0.000	0.000	42.015	37.831	-23.193 MWD+IFR1+MS
12200.000	90.000	179.630	8911.000	37.673 0.000	41.945 -0.000	37.673 0.000	0.000	42.484	37.907	-20.953 MWD+IFR1+MS
12300.000	90.000	179.630	8911.000	38.267 0.000	42.490 -0.000	38.267 0.000	0.000	42.975	37.973	-19.035 MWD+IFR1+MS
12400.000	90.000	179.630	8911.000	38.867 0.000	43.045 -0.000	38.867 0.000	0.000	43.486	38.032	-17.388 MWD+IFR1+MS

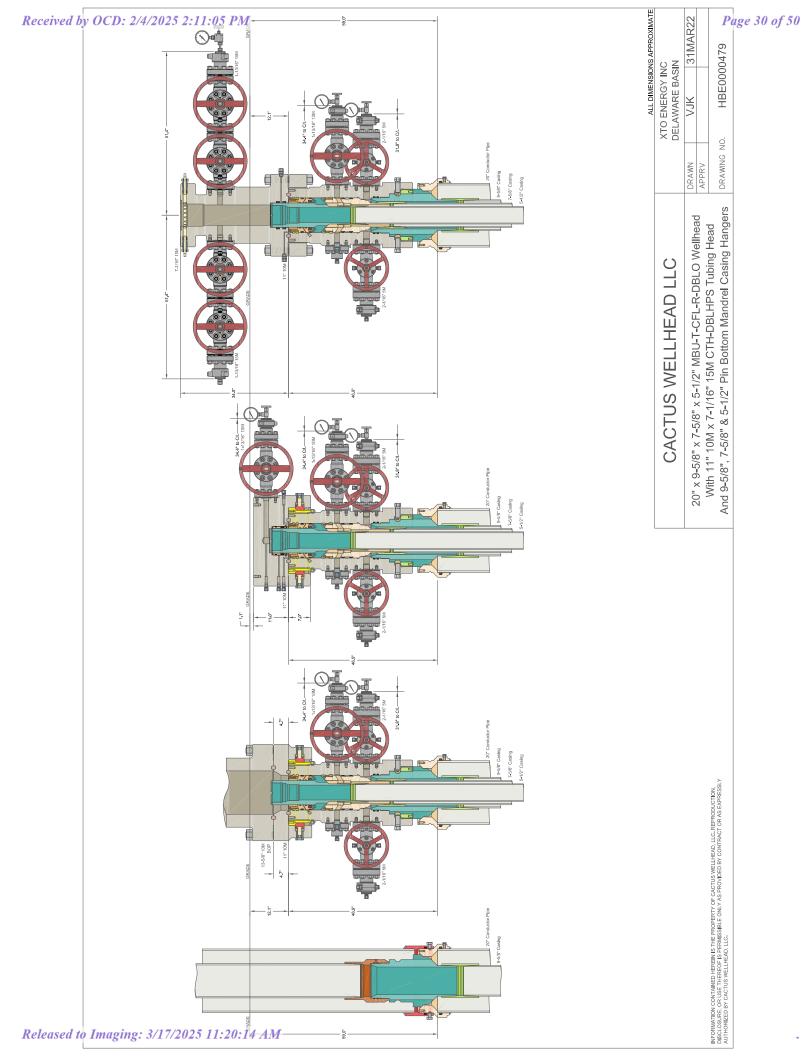
	-15.969 MWD+IFR1+MS	-14.739 MWD+IFR1+MS	-13.667 MWD+IFR1+MS	-12.728 MWD+IFR1+MS	-11.900 MWD+IFR1+MS	-11.166 MWD+IFR1+MS	-10.512 MWD+IFR1+MS	-9.926 MWD+IFR1+MS	-9.399 MWD+IFR1+MS	-8.923 MWD+IFR1+MS	-8.490 MWD+IFR1+MS	-8.096 MWD+IFR1+MS	-7.736 MWD+IFR1+MS	-7.406 MWD+IFR1+MS	-7.102 MWD+IFR1+MS	-6.822 MWD+IFR1+MS	-6.562 MWD+IFR1+MS	-6.321 MWD+IFR1+MS	-6.097 MWD+IFR1+MS	-5.889 MWD+IFR1+MS	-5.694 MWD+IFR1+MS	-5.511 MWD+IFR1+MS	-5.340 MWD+IFR1+MS	-5.180 MWD+IFR1+MS	-5.028 MWD+IFR1+MS	-4.886 MWD+IFR1+MS	-4.751 MWD+IFR1+MS	-4.624 MWD+IFR1+MS	-4.503 MWD+IFR1+MS	4.389 MWD+IFR1+MS	-4.281 MWD+IFR1+MS	4.178 MWD+IFR1+MS	4.080 MWD+IFR1+MS
	38.084	38.132	38.175	38.215	38.253	38.289	38.323	38.356	38.388	38.419	38.449	38.479	38.509	38.538	38.567	38.596	38.625	38.653	38.682	38.711	38.740	38.770	38.799	38.829	38.859	38.889	38.919	38.950	38.981	39.012	39.044	39.076	39.108
	44.013	44.557	45.115	45.686	46.269	46.864	47.469	48.084	48.709	49.342	49 984	50 633	51.290	51.955	52.626	53.303	53 987	54.677	55.373	56.074	56.780	57.491	58.208	58.928	59 654	60 383	61.117	61 854	62.596	63.341	64.089	64 841	65.596
oort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	39.474 0.000	40.088 0.000	40.707 0.000	41.331 0.000	41.962 0.000	42.597 0.000	43.237 0.000	43.882 0.000	44.531 0.000	45.185 0.000	45.842 0.000	46.504 0.000	47.170 0.000	47.839 0.000	48.511 0.000	49.187 0.000	49.866 0.000	50.548 0.000	51.233 0.000	51.921 0.000	52.612 0.000	53.305 0.000	54.001 0.000	54.699 0.000	55.399 0.000	56.102 0.000	56.807 0.000	57.514 0.000	58.223 0.000	58.933 0.000	59.646 0.000	60.361 0.000	61.077 0.000
	43.612 -0.000	44.188 -0.000	44.775 -0.000	45.371 -0.000	45.976 -0.000	46.590 -0.000	47.212 -0.000	47.843 -0.000	48.481 -0.000	49.127 -0.000	49.780 -0.000	50.440 -0.000	51.106 -0.000	51.779 -0.000	52.458 -0.000	53.143 -0.000	53.834 -0.000	54.530 -0.000	55.231 -0.000	55.938 -0.000	56.649 -0.000	57.365 -0.000	58.086 -0.000	58.811 -0.000	59.540 -0.000	60.273 -0.000	61.011 -0.000	61.751 -0.000	62.496 -0.000	63.244 -0.000	63.995 -0.000	64.750 -0.000	65.508 -0.000
	39.474 0.000	40.088 0.000	40.707 0.000	41.331 0.000	41.962 0.000	42.597 0.000	43.237 0.000	43.882 0.000	44.531 0.000	45.185 0.000	45.842 0.000	46.504 0.000	47.170 0.000	47.839 0.000	48.511 0.000	49.187 0.000	49.866 0.000	50.548 0.000	51.233 0.000	51.921 0.000	52.612 0.000	53.305 0.000	54.001 0.000	54.699 0.000	55.399 0.000	56.102 0.000	56.807 0.000	57.514 0.000	58.223 0.000	58.933 0.000	59.646 0.000	60.361 0.000	61.077 0.000
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	90.000	90.000	90.000	000'06	90.000	000'06	90.000	000'06	90.000	000'06	90.000	90.000	000'06	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	90.000	90.000	90.000	90.000	90.000	90.000
10/18/24, 9:41 AM	12500.000	12600.000	12700.000	12800.000	12900.000	13000.000	13100.000	13200.000	13300.000	13400.000	13500.000	13600.000	13700.000	13800.000	13900.000	14000.000	14100.000	14200.000	14300.000	14400.000	14500.000	14600.000	14700.000	14800.000	14900.000	15000.000	15100.000	15200.000	15300.000	15400.000	15500.000	15600.000	15700.000
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	-3.986 MWD+IFR1+MS	-3.897 MWD+IFR1+MS	-3.812 MWD+IFR1+MS	-3.731 MWD+IFR1+MS	-3.653 MWD+IFR1+MS	-3.579 MWD+IFR1+MS	-3.508 MWD+IFR1+MS	-3.440 MWD+IFR1+MS	-3.374 MWD+IFR1+MS	-3.311 MWD+IFR1+MS	-3.251 MWD+IFR1+MS	-3.193 MWD+IFR1+MS	-3.137 MWD+IFR1+MS	-3.083 MWD+IFR1+MS	-3.031 MWD+IFR1+MS	-2.981 MWD+IFR1+MS	-2.933 MWD+IFR1+MS	-2.886 MWD+IFR1+MS	-2.841 MWD+IFR1+MS	-2.798 MWD+IFR1+MS	-2.756 MWD+IFR1+MS	-2.715 MWD+IFR1+MS	-2.676 MWD+IFR1+MS	-2.638 MWD+IFR1+MS	-2.601 MWD+IFR1+MS	-2.565 MWD+IFR1+MS	-2.530 MWD+IFR1+MS	-2.496 MWD+IFR1+MS	-2.464 MWD+IFR1+MS	-2.432 MWD+IFR1+MS	-2.401 MWD+IFR1+MS	-2.371 MWD+IFR1+MS	-2.342 MWD+IFR1+MS
	39.141	39.174	39.207	39.241	39.275	39.309	39.344	39.379	39.415	39,451	39.487	39.524	39.561	39.599	39.637	39.675	39.714	39.753	39.793	39.833	39.873	39.914	39.956	39.997	40.039	40.082	40.125	40.168	40.211	40.256	40.300	40.345	40.390
	66.355	67.116	67.881	68.648	69.418	70.190	70.965	71.743	72.523	73.306	74 090	74.877	75.666	76.457	77.249	78.044	78.841	79.639	80.439	81.241	82.045	82.850	83.656	84.464	85.274	86.085	86.897	87.711	88.526	89.342	90.159	90.978	91.798
oort	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	61.795 0.000	62.514 0.000	63.235 0.000	63.958 0.000	64.682 0.000	65.407 0.000	66.134 0.000	66.862 0.000	67.591 0.000	68.322 0.000	69.053 0.000	000.0 987.69	70.520 0.000	71.255 0.000	71.991 0.000	72.729 0.000	73.467 0.000	74.206 0.000	74.946 0.000	75.687 0.000	76.429 0.000	77.171 0.000	77.915 0.000	78.659 0.000	79.404 0.000	80.150 0.000	80.896 0.000	81.644 0.000	82.392 0.000	83.140 0.000	83.890 0.000	84.640 0.000	85.390 0.000
	66.269 -0.000	67.032 -0.000	000.0- 667.79	68.568 -0.000	69.340 -0.000	70.115 -0.000	70.892 -0.000	71.671 -0.000	72.453 -0.000	73.237 -0.000	74.023 -0.000	74.811 -0.000	75.602 -0.000	76.394 -0.000	77.188 -0.000	77.984 -0.000	78.782 -0.000	79.582 -0.000	80.383 -0.000	81.186 -0.000	81.990 -0.000	82.796 -0.000	83.604 -0.000	84.413 -0.000	85.224 -0.000	86.035 -0.000	86.849 -0.000	87.663 -0.000	88.479 -0.000	89.296 -0.000	90.114 -0.000	90.933 -0.000	91.754 -0.000
	61.795 0.000	62.514 0.000	63.235 0.000	63.958 0.000	64.682 0.000	65.407 0.000	66.134 0.000	66.862 0.000	67.591 0.000	68.322 0.000	69.053 0.000	0000 987.69	70.520 0.000	71.255 0.000	71.991 0.000	72.729 0.000	73.467 0.000	74.206 0.000	74.946 0.000	75.687 0.000	76.429 0.000	77.171 0.000	77.915 0.000	78.659 0.000	79.404 0.000	80.150 0.000	80.896 0.000	81.644 0.000	82.392 0.000	83.140 0.000	83.890 0.000	84.640 0.000	85.390 0.000
	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000	8911.000
	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630	179.630
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	14 MWD+IFR1+MS	36 MWD+IFR1+MS	59 MWD+IFR1+MS	33 MWD+IFR1+MS	38 MWD+IFR1+MS	33 MWD+IFR1+MS	59 MWD+IFR1+MS	36 MWD+IFR1+MS	13 MWD+IFR1+MS	90 MWD+IFR1+MS	38 MWD+IFR1+MS	47 MWD+IFR1+MS	26 MWD+IFR1+MS	36 MWD+IFR1+MS	36 MWD+IFR1+MS	37 MWD+IFR1+MS	48 MWD+IFR1+MS	30 MWD+IFR1+MS	11 MWD+IFR1+MS	94 MWD+IFR1+MS	77 MWD+IFR1+MS	30 MWD+IFR1+MS	43 MWD+IFR1+MS	27 MWD+IFR1+MS	11 MWD+IFR1+MS	96 MWD+IFR1+MS	30 MWD+IFR1+MS	35 MWD+IFR1+MS	51 MWD+IFR1+MS	37 MWD+IFR1+MS	23 MWD+IFR1+MS	39 MWD+IFR1+MS	95 MWD+IFR1+MS
	-2.314	-2.286	-2.259	-2.233	-2.208	-2.183	-2.159	-2.136	-2.113	-2.090	-2.068	2.047	-2.026	-2.006	-1.986	-1.967	-1.948	-1.930	-1.911	-1.894	-1.877	-1.860	-1.843	-1.827	-1.811	-1.796	-1.780	-1.765	-1.751	-1.737	-1.723	-1.709	-1.695
	40.436	40.482	40.529	40.575	40.623	40.670	40.719	40.767	40.816	40.865	40.915	40.965	41.016	41.066	41.118	41.169	41.221	41.274	41.327	41.380	41,434	41.488	41.542	41.597	41.652	41,707	41.763	41.820	41.876	41.933	41.991	42.048	42.106
	92.619	93.441	94.264	92.088	95.913	96.739	97.566	98.394	99.223	100.053	100.883	101.715	102.547	103.380	104.214	105.049	105.884	106.721	107.557	108.395	109.233	110.072	110.912	111.752	112.593	113.434	114.276	115.119	115.962	116.806	117.650	118.495	119.340
oort	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	0.000	0000	0.000	0.000	0.000	0.000	0.000
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\$	86.141	86.893	87.645	88.398	89.152	89.906	90.660	91,415	92.171	92.927	93.683	94.440	95.198	95.956	96.714	97.473	98.232	98.991	99.751	100.511	101.272	102.033	102.795	103.556	104.318	105.081	105.843	106.607	107.370	108.134	108.898	109.662	110.426
	-0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	0.000	-0.000	0.000	-0.000	0.000	-0.000	-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	0.000	0000	-0.000
	92.575	93.398	94.222	95.047	95.872	669'96	97.527	98.355	99.185	100.015	100.846	101.678	102.511	103.345	104.179	105.014	105.850	106.687	107 524	108.362	109.201	110.040	110.880	111.721	112.562	113.404	114.246	115.089	115.933	116.777	117.622	118.467	119.312
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	86.141	86.893	87.645	88.398	89.152	906.68	099.06	91.415	92.171	92.927	93.683	94.440	95 198	95.956	96.714	97.473	98.232	98,991	99.751	100.511	101.272	102.033	102.795	103.556	104 318	105.081	105.843	106.607	107.370	108 134	108.898	109.662	110.426
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22466.497	90.000	179.630	8911.000	111.699 0.000		0000		0.000	0.000	120.748	42.204	-1.674 MWD+IFR1+MS
22500.000	90.000	179.630	179.630 8911.000	111.955 0.000				0.000	0.000	121.031	42.224	-1.669 MWD+IFR1+MS
22516.670	000'06	179.630	179.630 8911.000	112.083 0.000	121.144	0000	-0.000 112.083	0.000	0.000	121.171	42.234	-1.667 MWD+IFR1+MS
Plan Targets			PLU 15 Twin	PLU 15 Twin Wells Ranch-115H	I							
			Ž	Measured Depth		Grio	Grid Northing	_	Grid Easting	asting	TVD MSL 1	TVD MSL Target Shape
Target Name				(ft)			(#)	_		(ft)	(£)	
FTP 11				9462.21			440463.80	0	6740	674058.60	5357.00 CIRCLE	SIRCLE
LTP 11				22466.50			427459.80	0	6741	674142.50	5357.00	CIRCLE
BHL 11				22516.50			427409.80	0	6741	674142.90	5357.00 CIRCLE	JIRCLE



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

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ $^{ m ext{R}}$		
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 $^{ ext{ iny B}}$		
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	l b	
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.

Legal Notice

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

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1-877-893-9461 connections@uss.com www.usstubular.com

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U. S. Steel Tubular Products 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	l b	
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-Ib	[4]
Maximum Make-Up Torque		20,000	ft-Ib	[4]
Maximum Operating Torque		39,500	ft-Ib	[4]

Notes

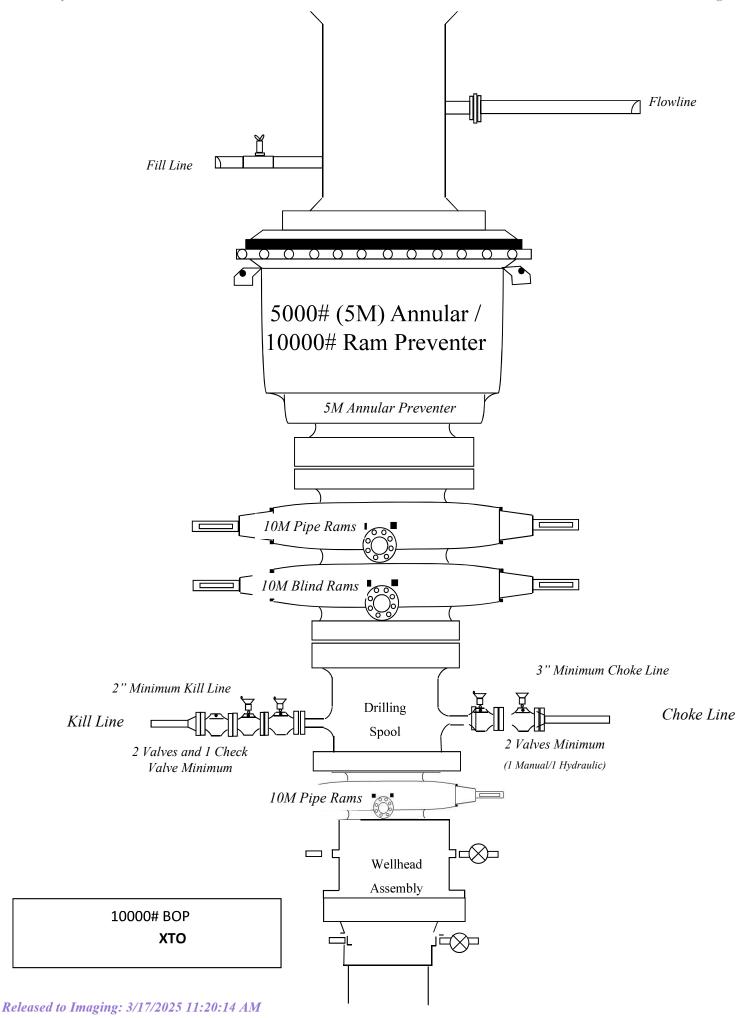
- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield 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.

Legal Notice

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Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by- well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

Tal	ole C.4—Initial Pressure Te	esting, Surface BOP Stacks	
Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Pressure Test—High Pressure	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokese	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
	during the evaluation period. The p	pressure shall not decrease below the allest OD drill pipe to be used in well	
	from one wellhead to another within when the integrity of a pressure se	n the 21 days, pressure testing is req	uired for pressure-containing an
For surface offshore operations, the	ne ram BOPs shall be pressure tes land operations, the ram BOPs sha	ted with the ram locks engaged and all be pressure tested with the ram lo	

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 Oand often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

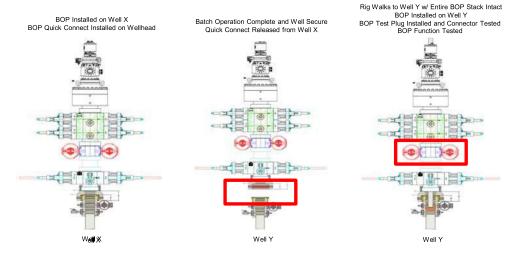
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- XTO Energy will use this document for our break testing plan for New Mexico Delaware basin.
 The summary below will be referenced in the APD or Sundry Notice and receive approval prior
 to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

- 11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



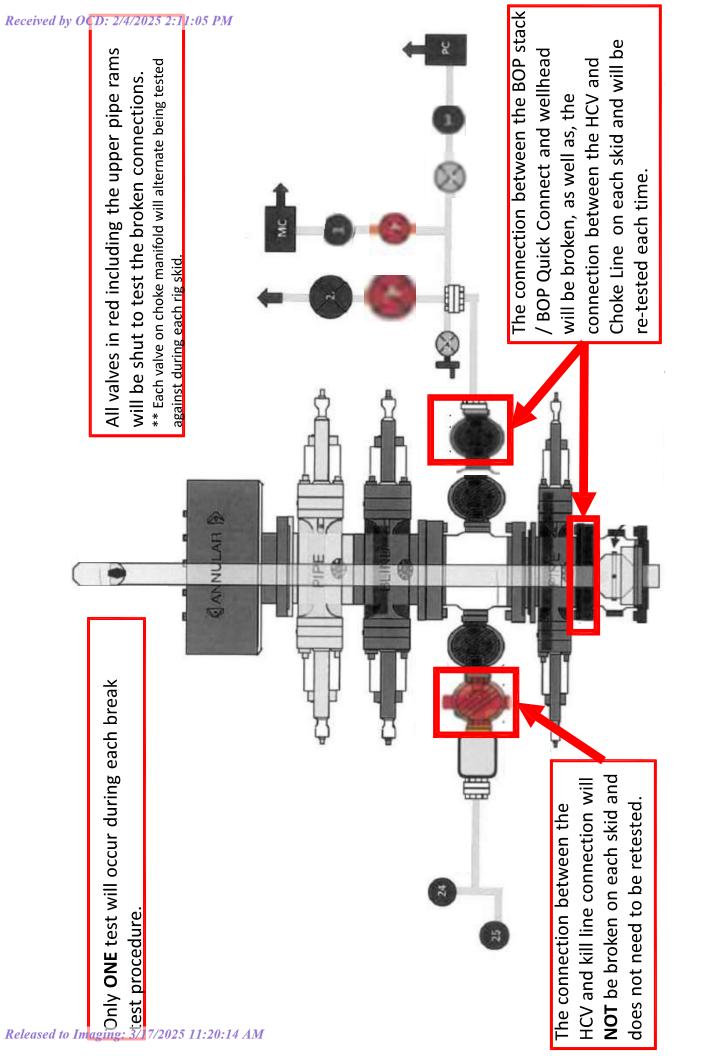
Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1. After a full BOP test is conducted on the first well on the pad.
- 2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
- 3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4. Full BOP test will be required prior to drilling the production hole.



XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

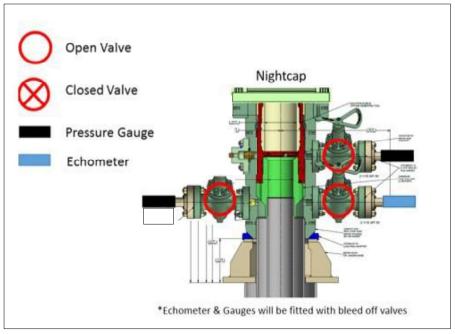
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

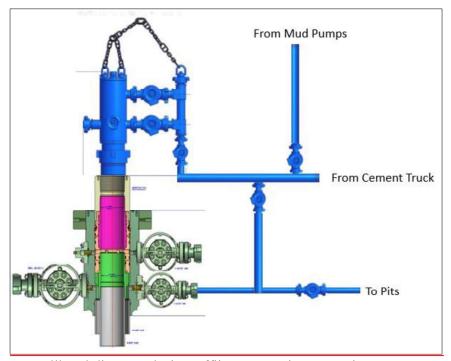
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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

Description of Operations:

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



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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 1/16" 10K

FLANGES

SALES ORDER #:

529480

QUANTITY:

1

SERIAL #:

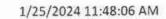
74621 H3-012524-1

SIGNATURE: 7. CUSTUSE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15/16





TEST REPORT

CUSTOMER

Company:

Nabors Industries Inc.

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Production description: 74621/66-1531

529480

Description:

74621/66-1531

Sales order #: Customer reference:

FG1213

Hose ID:

3" 16C CK

TEST INFORMATION

Test procedure:

Work pressure:

GTS-04-053

15000.00 psi

Fitting 1: Part number:

Part number:

3.0 x 4-1/16 10K

Test pressure: Test pressure hold:

3600.00 10000.00

sec

Description:

esciption:

Work pressure hold:

900.00

psi sec

Fitting 2:

3.0 x 4-1/16 10K

Length difference: Length difference: 0.00

% inch

Part number: Description:

Visual check:

Pressure test result:

PASS

Length measurement result:

Length:

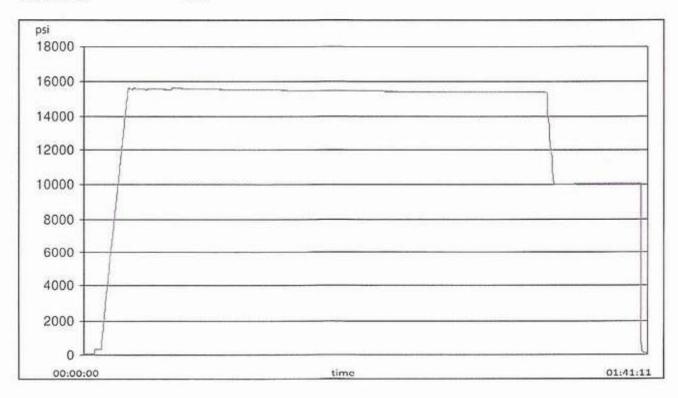
45

feet

D. ... 15

Test operator:

Travis





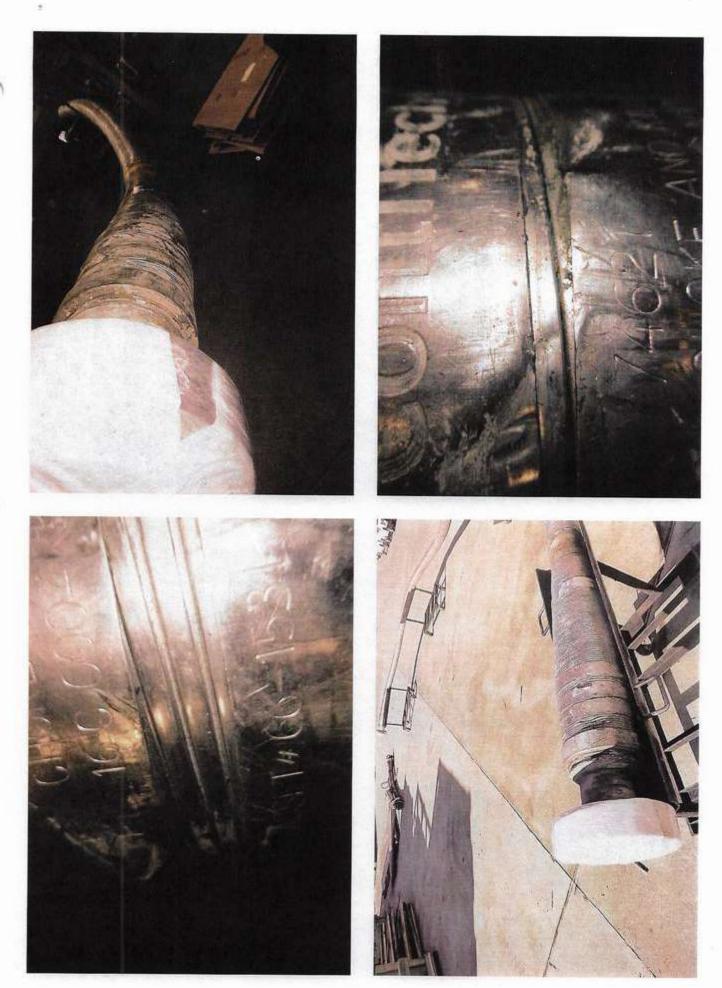
H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

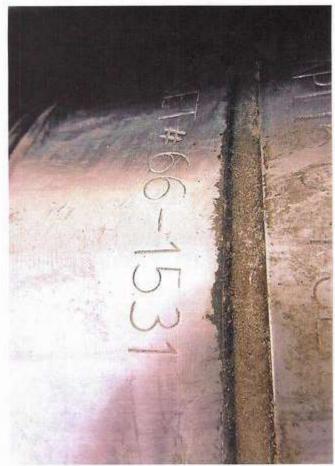
GAUGE TRACEABILITY

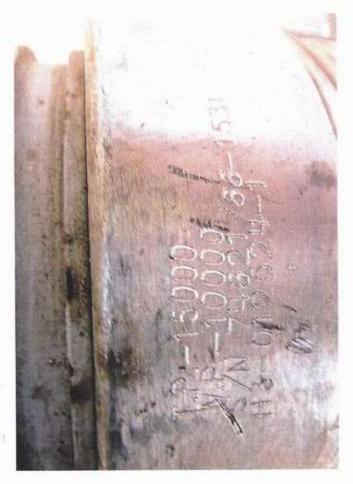
Serial number	Calibration date	Calibration due date
110D3PHO	2023-06-06	2024-06-06
110IQWDG	2023-05-16	2024-05-16
	110D3PHO	110D3PHO 2023-06-06



Released to Imaging: 3/17/2025 11:20:14 AM









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

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

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

CONDITIONS

Action 428184

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	428184
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	3/17/2025