

Lease Number: NMLC0068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553260

Operator: XTO PERMIAN OPERATING
LLC**Notice of Intent**

Sundry ID: 2784396

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/10/2024

Time Sundry Submitted: 02:49

Date proposed operation will begin: 04/30/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: FTP: 386' FNL & 1772' FWL OF SECTION 21-T24S-R30E 100' FNL & 2246' FWL OF SECTION 21-T24S-R30E LTP: 329' FNL & 1769' FWL OF SECTION 33-T23S-R30E 2540' FNL & 2246' FWL OF SECTION 33-T24S-R30E BHL: 200' FNL & 1769' FWL OF SECTION 33-T23S-R30E 2630' FNL & 2246' FWL OF SECTION 33-T24S-R30E The proposed total depth is changing from 32679' MD; 10988' TVD (Wolfcamp) to 22278' MD; 9458' TVD (Bone Spring 2 Sand). A saturated salt brine will be utilized while drilling through the salt formations. See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

NOI Attachments**Procedure Description**

PLU_21_DTD_173H_Sundry_Attachments_20240816115315.pdf

US Well Number: 3001553260

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

Poker_Lake_Unit_21_DTD_173H_COA_20240911153132.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: TERRA SEBASTIAN

Signed on: AUG 16, 2024 09:05 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND

State: TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 09/13/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	NMLC068430
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X
1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		8. Well Name and No. POKER LAKE UNIT 21 DTD/173H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 3001553260
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code) (432) 683-2277	10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 21/T24S/R30E/NMP		11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool).

FROM: TO:

FTP: 386' FNL & 1772' FWL OF SECTION 21-T24S-R30E 100' FNL & 2246' FWL OF SECTION 21-T24S-R30E
LTP: 329' FNL & 1769' FWL OF SECTION 33-T23S-R30E 2540' FNL & 2246' FWL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 1769' FWL OF SECTION 33-T23S-R30E 2630' FNL & 2246' FWL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 32679 MD; 10988 TVD (Wolfcamp) to 22278 MD; 9458 TVD (Bone Spring 2 Sand).

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

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) TERRA SEBASTIAN / Ph: (432) 999-3107	Title Regulatory Advisor
Signature (Electronic Submission)	Date 08/16/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/13/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

See attached Drilling Plan for updated cement and casing program.

Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

Location of Well

- 0. SHL: NENW / 396 FNL / 1786 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209381 / LONG: -103.88911 (TVD: 0 feet, MD: 0 feet)
- PPP: NENW / 386 FNL / 1772 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209406 / LONG: -103.889156 (TVD: 10988 feet, MD: 11334 feet)
- BHL: NENW / 200 FNL / 1769 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268082 / LONG: -103.889161 (TVD: 10988 feet, MD: 32679 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

EI

OPERATOR'S NAME: XTO LEASE NO.: NMLC068430 LOCATION: Sec. 21, T.24 S, R 30 E COUNTY: Eddy County, New Mexico ▼
WELL NAME & NO.: Poker Lake Unit 21 DTD 173H SURFACE HOLE FOOTAGE: 396'/N & 1786'/W BOTTOM HOLE FOOTAGE: 2630'/N & 2246'/W

Changes approved through engineering via **Sundry 2784396** on 9-11-2024. Any previous COAs not addressed within the updated COAs still apply.

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **900** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be

notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6251'**
- b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

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

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

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

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

Offline Cementing

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

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

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for 1st Intermediate casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Approved by Zota Stevens on 9/11/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 53260		² Pool Code 97798		³ Pool Name WILDCAT G-06 S243026M;BONE SPRING	
⁴ Property Code 333571		⁵ Property Name POKER LAKE UNIT 21 DTD			⁶ Well Number 173H
⁷ OGRID No. 373075		⁸ Operator Name XTO PERMIAN OPERATING, LLC.			⁹ Elevation 3,328'

¹⁰ Surface Location

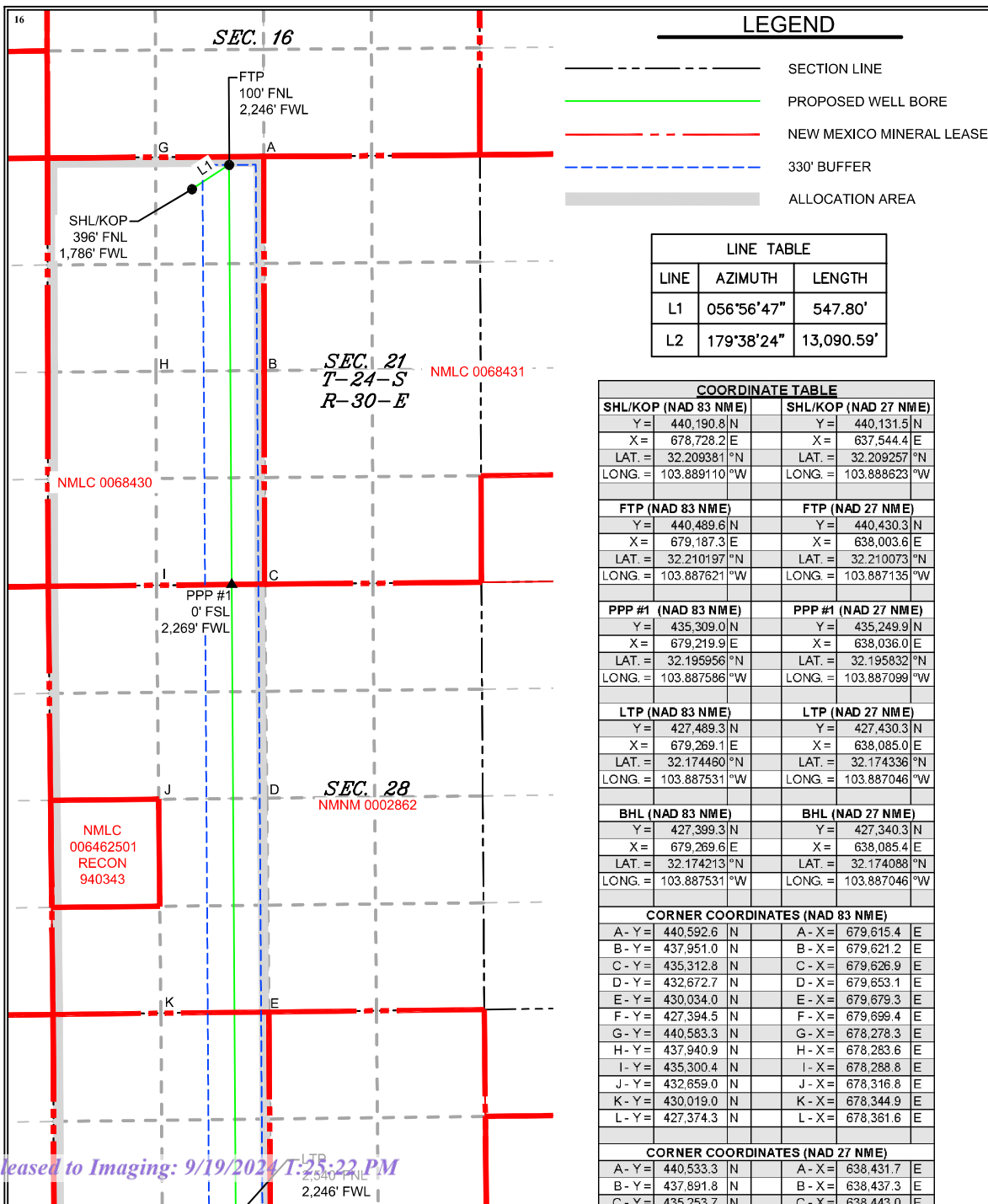
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	24S	30E		396	NORTH	1,786	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	24S	30E		2,630	NORTH	2,246	WEST	EDDY

¹² Dedicated Acres 800.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

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

Emily Rivera 7/15/2024
Signature Date

Emily Rivera
Printed Name

emily.a.rivera@exxonmobil.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

7/11/2024

Date of Survey

Signature and Seal of Professional Surveyor:



Intent ☒ As Drilled ☐

API # 30-15-		
Operator Name: XTO PERMAIN OPERATING, LLC.	Property Name: POKER LAKE UNIT 21 DTD	Well Number 173H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL C	Section 21	Township 24S	Range 30E	Lot	Feet 100	From N/S NORTH	Feet 2,246	From E/W WEST	County EDDY
Latitude 32.210197					Longitude -103.887621				NAD 83

Last Take Point (LTP)

UL F	Section 33	Township 24S	Range 30E	Lot	Feet 2,540	From N/S NORTH	Feet 2,246	From E/W WEST	County EDDY
Latitude 32.174460					Longitude -103.887531				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc.
POKER LAKE UNIT 21 DTD 173H
Projected TD: 22278' MD / 9458' TVD
SHL: 396' FNL & 1786' FWL , Section 21, T24S, R30E
BHL: 2630' FNL & 2246' FWL , Section 33, T23S, R30E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	915'	Water
Top of Salt	1318'	Water
Base of Salt	3511'	Water
Delaware	3705'	Water
Brushy Canyon	6251'	Water/Oil/Gas
Bone Spring	7575'	Water
Avalon	8268'	Water/Oil/Gas
1st Bone Spring	8284'	Water/Oil/Gas
2nd Bone Spring	8869'	Water/Oil/Gas
Target/Land Curve	9458'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 1015' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 8579' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22278 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8279 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1015'	9.625	40	J-55	BTC	New	1.94	6.20	15.52
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.07	2.92	2.19
8.75	4000' – 8579'	7.625	29.7	HC L-80	Flush Joint	New	2.23	2.79	2.99
6.75	0' – 8479'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.40	2.25
6.75	8479' - 22278'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.15	2.25

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

· 7.625 Collapse analyzed using 50% evacuation based on regional experience.

· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 20" 10M top flange x 9-5/8" bottom

B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top

flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1015'

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

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

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 8579'

1st Stage

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

TOC: Surface

Tail: 210 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6251

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)

Tail: 700 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6251') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 22278'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8279 feet

Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 8779 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril and a 10M Double Ram BOP.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

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

hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 1015'	12.25	FW/Native	8.5-9	35-40	NC	Fresh water or native water
1015' - 8579'	8.75	Saturated brine for salt interval / Direct emulsion	10-10.5	30-32	NC	Fully saturated salt across salado / salt
8579' - 22278'	6.75	OBM	13-13.5	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 solution. Saturated Salt mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system."

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5164 psi.

10. Anticipated Starting Date and Duration of Operations

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

Well Plan Report - Poker Lake Unit 21 DTD South 173H

Measured Depth: 22277.85 ft
TVD RKB: 9458.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440131.50 ft
Easting: 637544.40 ft
RKB: 3360.00 ft
Ground Level: 3328.00 ft
North Reference: Grid
Convergence Angle: 0.24 Deg

Plan Sections Poker Lake Unit 21 DTD South 173H

Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD		Y Offset (ft)	X Offset (ft)	Build		Turn Rate (Deg/100ft)	Dogleg	
				RKB	(ft)			Rate (Deg/100ft)	Semi-minor		Rate (Deg/100ft)	Target
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
	1100.00	0.00	0.00	1100.00		0.00	0.00	0.00		0.00	0.00	
	1499.87	8.00	56.95	1498.57		15.20	23.35	2.00		0.00	2.00	
	5037.13	8.00	56.95	5001.43		283.60	435.85	0.00		0.00	0.00	
	5437.00	0.00	0.00	5400.00		298.80	459.20	-2.00		0.00	2.00	
	8778.80	0.00	0.00	8741.80		298.80	459.20	0.00		0.00	0.00	
	9903.80	90.00	179.64	9458.00		-417.38	463.69	8.00		0.00	8.00	
	22187.79	90.00	179.64	9458.00		-12701.14	540.66	0.00		0.00	0.00	LTP 22
	22277.85	90.00	179.64	9458.00		-12791.19	541.22	0.00		0.00	0.00	BHL 22

Position Uncertainty Poker Lake Unit 21 DTD South 173H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	Error	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.000	0.220	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	1.259	0.000	0.627	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	1.698	0.000	0.986	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	2.108	0.000	1.344	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	2.503	0.000	1.701	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	2.888	0.000	2.059	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.443	0.000	3.267	0.000	2.417	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	3.642	0.000	2.775	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.531	0.000	4.014	0.000	3.133	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.580	0.000	4.384	0.000	3.491	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.634	0.000	4.752	0.000	3.849	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	56.948	1199.980	5.210	0.000	4.300	0.000	2.690	0.000	5.255	0.000	4.248	4.248	134.479	MWD+IFR1+MS
1300.000	4.000	56.948	1299.838	5.962	0.000	4.686	0.000	2.750	0.000	5.974	0.000	4.682	4.682	-35.900	MWD+IFR1+MS
1400.000	6.000	56.948	1399.452	6.642	0.000	5.068	0.000	2.815	0.000	6.664	0.000	5.065	5.065	-31.088	MWD+IFR1+MS
1499.870	7.997	56.948	1498.573	7.266	0.000	5.446	0.000	2.888	0.000	7.312	0.000	5.431	5.431	-28.367	MWD+IFR1+MS
1600.000	7.997	56.948	1597.729	7.666	0.000	5.824	0.000	2.960	0.000	7.716	0.000	5.799	5.799	-26.943	MWD+IFR1+MS
1700.000	7.997	56.948	1696.756	7.951	0.000	6.200	0.000	3.033	0.000	8.002	0.000	6.171	6.171	-26.331	MWD+IFR1+MS
1800.000	7.997	56.948	1795.784	8.244	0.000	6.575	0.000	3.108	0.000	8.295	0.000	6.543	6.543	-25.728	MWD+IFR1+MS
1900.000	7.997	56.948	1894.811	8.542	0.000	6.950	0.000	3.186	0.000	8.594	0.000	6.914	6.914	-25.134	MWD+IFR1+MS
2000.000	7.997	56.948	1993.839	8.846	0.000	7.323	0.000	3.266	0.000	8.899	0.000	7.284	7.284	-24.548	MWD+IFR1+MS
2100.000	7.997	56.948	2092.866	9.155	0.000	7.696	0.000	3.349	0.000	9.208	0.000	7.654	7.654	-23.972	MWD+IFR1+MS
2200.000	7.997	56.948	2191.894	9.469	0.000	8.069	0.000	3.434	0.000	9.522	0.000	8.023	8.023	-23.405	MWD+IFR1+MS
2300.000	7.997	56.948	2290.921	9.786	0.000	8.441	0.000	3.520	0.000	9.839	0.000	8.392	8.392	-22.848	MWD+IFR1+MS
2400.000	7.997	56.948	2389.949	10.108	0.000	8.812	0.000	3.608	0.000	10.161	0.000	8.760	8.760	-22.301	MWD+IFR1+MS
2500.000	7.997	56.948	2488.976	10.432	0.000	9.184	0.000	3.699	0.000	10.486	0.000	9.128	9.128	-21.764	MWD+IFR1+MS
2600.000	7.997	56.948	2588.003	10.760	0.000	9.555	0.000	3.790	0.000	10.813	0.000	9.496	9.496	-21.239	MWD+IFR1+MS
2700.000	7.997	56.948	2687.031	11.091	0.000	9.926	0.000	3.884	0.000	11.144	0.000	9.864	9.864	-20.724	MWD+IFR1+MS
2800.000	7.997	56.948	2786.058	11.424	0.000	10.296	0.000	3.979	0.000	11.476	0.000	10.231	10.231	-20.220	MWD+IFR1+MS
2900.000	7.997	56.948	2885.086	11.759	0.000	10.667	0.000	4.076	0.000	11.812	0.000	10.599	10.599	-19.728	MWD+IFR1+MS
3000.000	7.997	56.948	2984.113	12.097	0.000	11.037	0.000	4.174	0.000	12.149	0.000	10.966	10.966	-19.246	MWD+IFR1+MS

Well Plan Report														
3100.000	7.997	56.948	3083.141	12.436	0.000	11.407	0.000	4.273	0.000	0.000	12.488	11.333	-18.776	MWD+IFR1+MS
3200.000	7.997	56.948	3182.168	12.777	0.000	11.776	0.000	4.374	0.000	0.000	12.828	11.700	-18.317	MWD+IFR1+MS
3300.000	7.997	56.948	3281.195	13.120	0.000	12.146	0.000	4.477	0.000	0.000	13.171	12.067	-17.869	MWD+IFR1+MS
3400.000	7.997	56.948	3380.223	13.465	0.000	12.516	0.000	4.581	0.000	0.000	13.515	12.434	-17.432	MWD+IFR1+MS
3500.000	7.997	56.948	3479.250	13.811	0.000	12.885	0.000	4.687	0.000	0.000	13.860	12.801	-17.007	MWD+IFR1+MS
3600.000	7.997	56.948	3578.278	14.158	0.000	13.254	0.000	4.793	0.000	0.000	14.206	13.168	-16.592	MWD+IFR1+MS
3700.000	7.997	56.948	3677.305	14.506	0.000	13.623	0.000	4.902	0.000	0.000	14.554	13.535	-16.189	MWD+IFR1+MS
3800.000	7.997	56.948	3776.333	14.856	0.000	13.993	0.000	5.012	0.000	0.000	14.902	13.902	-15.796	MWD+IFR1+MS
3900.000	7.997	56.948	3875.360	15.206	0.000	14.362	0.000	5.123	0.000	0.000	15.252	14.269	-15.414	MWD+IFR1+MS
4000.000	7.997	56.948	3974.388	15.558	0.000	14.731	0.000	5.236	0.000	0.000	15.602	14.635	-15.043	MWD+IFR1+MS
4100.000	7.997	56.948	4073.415	15.911	0.000	15.099	0.000	5.350	0.000	0.000	15.953	15.002	-14.682	MWD+IFR1+MS
4200.000	7.997	56.948	4172.442	16.264	0.000	15.468	0.000	5.466	0.000	0.000	16.305	15.369	-14.331	MWD+IFR1+MS
4300.000	7.997	56.948	4271.470	16.618	0.000	15.837	0.000	5.583	0.000	0.000	16.658	15.736	-13.991	MWD+IFR1+MS
4400.000	7.997	56.948	4370.497	16.973	0.000	16.206	0.000	5.702	0.000	0.000	17.012	16.103	-13.660	MWD+IFR1+MS
4500.000	7.997	56.948	4469.525	17.329	0.000	16.574	0.000	5.823	0.000	0.000	17.366	16.470	-13.339	MWD+IFR1+MS
4600.000	7.997	56.948	4568.552	17.685	0.000	16.943	0.000	5.945	0.000	0.000	17.721	16.837	-13.028	MWD+IFR1+MS
4700.000	7.997	56.948	4667.580	18.042	0.000	17.311	0.000	6.069	0.000	0.000	18.076	17.204	-12.727	MWD+IFR1+MS
4800.000	7.997	56.948	4766.607	18.400	0.000	17.680	0.000	6.195	0.000	0.000	18.432	17.571	-12.434	MWD+IFR1+MS
4900.000	7.997	56.948	4865.634	18.758	0.000	18.048	0.000	6.322	0.000	0.000	18.788	17.938	-12.151	MWD+IFR1+MS
5000.000	7.997	56.948	4964.662	19.116	0.000	18.417	0.000	6.451	0.000	0.000	19.145	18.305	-11.877	MWD+IFR1+MS
5037.126	7.997	56.948	5001.427	19.247	0.000	18.550	0.000	6.500	0.000	0.000	19.273	18.440	-11.927	MWD+IFR1+MS
5100.000	6.740	56.948	5063.780	19.483	0.000	18.776	0.000	6.582	0.000	0.000	19.495	18.668	-12.069	MWD+IFR1+MS
5200.000	4.740	56.948	5163.274	19.916	0.000	19.137	0.000	6.716	0.000	0.000	19.928	19.028	-12.936	MWD+IFR1+MS
5300.000	2.740	56.948	5263.056	20.365	0.000	19.497	0.000	6.846	0.000	0.000	20.404	19.385	-13.870	MWD+IFR1+MS
5400.000	0.740	56.948	5363.005	20.782	0.000	19.853	0.000	6.973	0.000	0.000	20.871	19.736	-14.564	MWD+IFR1+MS
5436.996	0.000	0.000	5400.000	19.939	0.000	20.925	0.000	7.019	0.000	0.000	20.996	19.864	-14.704	MWD+IFR1+MS
5500.000	0.000	0.000	5463.004	20.159	0.000	21.128	0.000	7.097	0.000	0.000	21.199	20.084	-14.850	MWD+IFR1+MS
5600.000	0.000	0.000	5563.004	20.508	0.000	21.455	0.000	7.223	0.000	0.000	21.528	20.432	-15.159	MWD+IFR1+MS
5700.000	0.000	0.000	5663.004	20.861	0.000	21.785	0.000	7.352	0.000	0.000	21.862	20.781	-15.598	MWD+IFR1+MS
5800.000	0.000	0.000	5763.004	21.214	0.000	22.117	0.000	7.482	0.000	0.000	22.196	21.130	-16.035	MWD+IFR1+MS
5900.000	0.000	0.000	5863.004	21.566	0.000	22.449	0.000	7.615	0.000	0.000	22.532	21.480	-16.470	MWD+IFR1+MS
6000.000	0.000	0.000	5963.004	21.919	0.000	22.782	0.000	7.751	0.000	0.000	22.868	21.830	-16.903	MWD+IFR1+MS
6100.000	0.000	0.000	6063.004	22.273	0.000	23.116	0.000	7.888	0.000	0.000	23.205	22.180	-17.334	MWD+IFR1+MS

6200.000	0.000	0.000	6163.004	22.626	0.000	23.451	0.000	8.028	0.000	0.000	23.543	22.530	-17.762	MWD+IFR1+MS
6300.000	0.000	0.000	6263.004	22.980	0.000	23.786	0.000	8.171	0.000	0.000	23.882	22.880	-18.188	MWD+IFR1+MS
6400.000	0.000	0.000	6363.004	23.333	0.000	24.122	0.000	8.316	0.000	0.000	24.221	23.231	-18.611	MWD+IFR1+MS
6500.000	0.000	0.000	6463.004	23.687	0.000	24.459	0.000	8.463	0.000	0.000	24.561	23.581	-19.030	MWD+IFR1+MS
6600.000	0.000	0.000	6563.004	24.041	0.000	24.796	0.000	8.613	0.000	0.000	24.901	23.932	-19.447	MWD+IFR1+MS
6700.000	0.000	0.000	6663.004	24.395	0.000	25.134	0.000	8.765	0.000	0.000	25.243	24.283	-19.860	MWD+IFR1+MS
6800.000	0.000	0.000	6763.004	24.750	0.000	25.472	0.000	8.920	0.000	0.000	25.584	24.634	-20.270	MWD+IFR1+MS
6900.000	0.000	0.000	6863.004	25.104	0.000	25.811	0.000	9.078	0.000	0.000	25.926	24.985	-20.677	MWD+IFR1+MS
7000.000	0.000	0.000	6963.004	25.458	0.000	26.150	0.000	9.238	0.000	0.000	26.269	25.336	-21.079	MWD+IFR1+MS
7100.000	0.000	0.000	7063.004	25.813	0.000	26.490	0.000	9.401	0.000	0.000	26.612	25.687	-21.478	MWD+IFR1+MS
7200.000	0.000	0.000	7163.004	26.168	0.000	26.831	0.000	9.566	0.000	0.000	26.956	26.038	-21.874	MWD+IFR1+MS
7300.000	0.000	0.000	7263.004	26.522	0.000	27.172	0.000	9.734	0.000	0.000	27.300	26.390	-22.265	MWD+IFR1+MS
7400.000	0.000	0.000	7363.004	26.877	0.000	27.513	0.000	9.905	0.000	0.000	27.645	26.741	-22.652	MWD+IFR1+MS
7500.000	0.000	0.000	7463.004	27.232	0.000	27.855	0.000	10.079	0.000	0.000	27.990	27.093	-23.035	MWD+IFR1+MS
7600.000	0.000	0.000	7563.004	27.587	0.000	28.197	0.000	10.255	0.000	0.000	28.336	27.445	-23.414	MWD+IFR1+MS
7700.000	0.000	0.000	7663.004	27.943	0.000	28.539	0.000	10.434	0.000	0.000	28.681	27.797	-23.789	MWD+IFR1+MS
7800.000	0.000	0.000	7763.004	28.298	0.000	28.882	0.000	10.616	0.000	0.000	29.028	28.149	-24.159	MWD+IFR1+MS
7900.000	0.000	0.000	7863.004	28.653	0.000	29.226	0.000	10.800	0.000	0.000	29.374	28.501	-24.525	MWD+IFR1+MS
8000.000	0.000	0.000	7963.004	29.009	0.000	29.569	0.000	10.987	0.000	0.000	29.721	28.853	-24.887	MWD+IFR1+MS
8100.000	0.000	0.000	8063.004	29.364	0.000	29.913	0.000	11.178	0.000	0.000	30.069	29.205	-25.244	MWD+IFR1+MS
8200.000	0.000	0.000	8163.004	29.720	0.000	30.258	0.000	11.371	0.000	0.000	30.416	29.557	-25.597	MWD+IFR1+MS
8300.000	0.000	0.000	8263.004	30.075	0.000	30.602	0.000	11.566	0.000	0.000	30.764	29.910	-25.946	MWD+IFR1+MS
8400.000	0.000	0.000	8363.004	30.431	0.000	30.948	0.000	11.765	0.000	0.000	31.112	30.262	-26.290	MWD+IFR1+MS
8500.000	0.000	0.000	8463.004	30.787	0.000	31.293	0.000	11.966	0.000	0.000	31.461	30.615	-26.629	MWD+IFR1+MS
8600.000	0.000	0.000	8563.004	31.142	0.000	31.638	0.000	12.171	0.000	0.000	31.810	30.967	-26.964	MWD+IFR1+MS
8700.000	0.000	0.000	8663.004	31.498	0.000	31.984	0.000	12.378	0.000	0.000	32.159	31.320	-27.294	MWD+IFR1+MS
8778.796	0.000	0.000	8741.800	31.777	0.000	32.255	0.000	12.543	0.000	0.000	32.431	31.598	-27.487	MWD+IFR1+MS
8800.000	1.696	179.641	8763.000	31.803	0.000	32.329	-0.000	12.588	0.000	0.000	32.500	31.669	-27.502	MWD+IFR1+MS
8900.000	9.696	179.641	8862.426	32.105	0.000	32.638	-0.000	12.820	0.000	0.000	32.996	32.274	134.701	MWD+IFR1+MS
9000.000	17.696	179.641	8959.503	32.723	0.000	32.937	-0.000	13.200	0.000	0.000	34.279	32.797	107.362	MWD+IFR1+MS
9100.000	25.696	179.641	9052.344	32.823	0.000	33.220	-0.000	13.813	0.000	0.000	35.568	33.113	101.463	MWD+IFR1+MS
9200.000	33.696	179.641	9139.139	32.460	0.000	33.482	-0.000	14.714	0.000	0.000	36.680	33.383	99.383	MWD+IFR1+MS
9300.000	41.696	179.641	9218.201	31.710	0.000	33.724	-0.000	15.910	0.000	0.000	37.587	33.624	98.491	MWD+IFR1+MS

9400.000	49.696	179.641	9287.991	30.673	0.000	33.942	-0.000	17.369	0.000	0.000	38.288	33.838	98.147	MWD+IFR1+MS
9500.000	57.696	179.641	9347.149	29.476	0.000	34.137	-0.000	19.034	0.000	0.000	38.794	34.026	98.127	MWD+IFR1+MS
9600.000	65.696	179.641	9394.525	28.277	0.000	34.307	-0.000	20.838	0.000	0.000	39.126	34.186	98.330	MWD+IFR1+MS
9700.000	73.696	179.641	9429.197	27.257	0.000	34.452	-0.000	22.714	0.000	0.000	39.314	34.320	98.692	MWD+IFR1+MS
9800.000	81.696	179.641	9450.489	26.606	0.000	34.572	-0.000	24.596	0.000	0.000	39.400	34.426	99.154	MWD+IFR1+MS
9903.796	90.000	179.641	9457.997	26.625	0.000	34.668	-0.000	26.625	0.000	0.000	39.428	34.509	99.653	MWD+IFR1+MS
10000.000	90.000	179.641	9457.997	27.228	0.000	34.750	-0.000	27.228	0.000	0.000	39.444	34.579	100.101	MWD+IFR1+MS
10100.000	90.000	179.641	9457.997	27.411	0.000	34.852	-0.000	27.411	0.000	0.000	39.461	34.666	100.612	MWD+IFR1+MS
10200.000	90.000	179.641	9457.997	27.615	0.000	34.970	-0.000	27.615	0.000	0.000	39.480	34.769	101.173	MWD+IFR1+MS
10300.000	90.000	179.641	9457.997	27.840	0.000	35.105	-0.000	27.840	0.000	0.000	39.501	34.887	101.791	MWD+IFR1+MS
10400.000	90.000	179.641	9457.997	28.084	0.000	35.255	-0.000	28.084	0.000	0.000	39.525	35.020	102.474	MWD+IFR1+MS
10500.000	90.000	179.641	9457.997	28.349	0.000	35.422	-0.000	28.349	0.000	0.000	39.551	35.166	103.233	MWD+IFR1+MS
10600.000	90.000	179.641	9457.997	28.633	0.000	35.605	-0.000	28.633	0.000	0.000	39.580	35.325	104.079	MWD+IFR1+MS
10700.000	90.000	179.641	9457.997	28.935	0.000	35.803	-0.000	28.935	0.000	0.000	39.612	35.497	105.026	MWD+IFR1+MS
10800.000	90.000	179.641	9457.997	29.255	0.000	36.016	-0.000	29.255	0.000	0.000	39.648	35.681	106.092	MWD+IFR1+MS
10900.000	90.000	179.641	9457.997	29.592	0.000	36.244	-0.000	29.592	0.000	0.000	39.689	35.876	107.297	MWD+IFR1+MS
11000.000	90.000	179.641	9457.997	29.946	0.000	36.486	-0.000	29.946	0.000	0.000	39.735	36.081	108.664	MWD+IFR1+MS
11100.000	90.000	179.641	9457.997	30.316	0.000	36.743	-0.000	30.316	0.000	0.000	39.788	36.293	110.220	MWD+IFR1+MS
11200.000	90.000	179.641	9457.997	30.702	0.000	37.014	-0.000	30.702	0.000	0.000	39.848	36.513	111.997	MWD+IFR1+MS
11300.000	90.000	179.641	9457.997	31.103	0.000	37.299	-0.000	31.103	0.000	0.000	39.918	36.738	114.029	MWD+IFR1+MS
11400.000	90.000	179.641	9457.997	31.519	0.000	37.597	-0.000	31.519	0.000	0.000	40.000	36.964	116.348	MWD+IFR1+MS
11500.000	90.000	179.641	9457.997	31.948	0.000	37.909	-0.000	31.948	0.000	0.000	40.096	37.191	118.984	MWD+IFR1+MS
11600.000	90.000	179.641	9457.997	32.391	0.000	38.233	-0.000	32.391	0.000	0.000	40.209	37.413	121.950	MWD+IFR1+MS
11700.000	90.000	179.641	9457.997	32.846	0.000	38.569	-0.000	32.846	0.000	0.000	40.342	37.629	125.239	MWD+IFR1+MS
11800.000	90.000	179.641	9457.997	33.314	0.000	38.918	-0.000	33.314	0.000	0.000	40.498	37.833	128.805	MWD+IFR1+MS
11900.000	90.000	179.641	9457.997	33.793	0.000	39.279	-0.000	33.793	0.000	0.000	40.682	38.023	132.564	MWD+IFR1+MS
12000.000	90.000	179.641	9457.997	34.284	0.000	39.651	-0.000	34.284	0.000	0.000	40.894	38.197	-43.604	MWD+IFR1+MS
12100.000	90.000	179.641	9457.997	34.785	0.000	40.034	-0.000	34.785	0.000	0.000	41.136	38.353	-39.834	MWD+IFR1+MS
12200.000	90.000	179.641	9457.997	35.297	0.000	40.428	-0.000	35.297	0.000	0.000	41.407	38.490	-36.247	MWD+IFR1+MS
12300.000	90.000	179.641	9457.997	35.819	0.000	40.833	-0.000	35.819	0.000	0.000	41.706	38.611	-32.932	MWD+IFR1+MS
12400.000	90.000	179.641	9457.997	36.350	0.000	41.248	-0.000	36.350	0.000	0.000	42.031	38.717	-29.937	MWD+IFR1+MS
12500.000	90.000	179.641	9457.997	36.890	0.000	41.673	-0.000	36.890	0.000	0.000	42.379	38.810	-27.273	MWD+IFR1+MS
12600.000	90.000	179.641	9457.997	37.439	0.000	42.107	-0.000	37.439	0.000	0.000	42.749	38.891	-24.927	MWD+IFR1+MS

12700.000	90.000	179.641	9457.997	37.996	0.000	42.551	-0.000	37.996	0.000	0.000	43.137	38.964	-22.872	MWD+IFR1+MS
12800.000	90.000	179.641	9457.997	38.561	0.000	43.004	-0.000	38.561	0.000	0.000	43.543	39.030	-21.074	MWD+IFR1+MS
12900.000	90.000	179.641	9457.997	39.133	0.000	43.466	-0.000	39.133	0.000	0.000	43.964	39.089	-19.500	MWD+IFR1+MS
13000.000	90.000	179.641	9457.997	39.713	0.000	43.936	-0.000	39.713	0.000	0.000	44.398	39.144	-18.118	MWD+IFR1+MS
13100.000	90.000	179.641	9457.997	40.300	0.000	44.414	-0.000	40.300	0.000	0.000	44.846	39.194	-16.900	MWD+IFR1+MS
13200.000	90.000	179.641	9457.997	40.894	0.000	44.901	-0.000	40.894	0.000	0.000	45.305	39.242	-15.823	MWD+IFR1+MS
13300.000	90.000	179.641	9457.997	41.493	0.000	45.395	-0.000	41.493	0.000	0.000	45.775	39.287	-14.866	MWD+IFR1+MS
13400.000	90.000	179.641	9457.997	42.099	0.000	45.896	-0.000	42.099	0.000	0.000	46.255	39.330	-14.012	MWD+IFR1+MS
13500.000	90.000	179.641	9457.997	42.711	0.000	46.405	-0.000	42.711	0.000	0.000	46.744	39.371	-13.246	MWD+IFR1+MS
13600.000	90.000	179.641	9457.997	43.328	0.000	46.921	-0.000	43.328	0.000	0.000	47.243	39.410	-12.556	MWD+IFR1+MS
13700.000	90.000	179.641	9457.997	43.951	0.000	47.443	-0.000	43.951	0.000	0.000	47.749	39.449	-11.933	MWD+IFR1+MS
13800.000	90.000	179.641	9457.997	44.579	0.000	47.972	-0.000	44.579	0.000	0.000	48.264	39.487	-11.367	MWD+IFR1+MS
13900.000	90.000	179.641	9457.997	45.211	0.000	48.508	-0.000	45.211	0.000	0.000	48.786	39.524	-10.852	MWD+IFR1+MS
14000.000	90.000	179.641	9457.997	45.849	0.000	49.049	-0.000	45.849	0.000	0.000	49.316	39.560	-10.381	MWD+IFR1+MS
14100.000	90.000	179.641	9457.997	46.490	0.000	49.596	-0.000	46.490	0.000	0.000	49.852	39.596	-9.948	MWD+IFR1+MS
14200.000	90.000	179.641	9457.997	47.137	0.000	50.149	-0.000	47.137	0.000	0.000	50.395	39.632	-9.551	MWD+IFR1+MS
14300.000	90.000	179.641	9457.997	47.787	0.000	50.708	-0.000	47.787	0.000	0.000	50.944	39.667	-9.183	MWD+IFR1+MS
14400.000	90.000	179.641	9457.997	48.441	0.000	51.272	-0.000	48.441	0.000	0.000	51.500	39.702	-8.844	MWD+IFR1+MS
14500.000	90.000	179.641	9457.997	49.100	0.000	51.841	-0.000	49.100	0.000	0.000	52.061	39.738	-8.528	MWD+IFR1+MS
14600.000	90.000	179.641	9457.997	49.761	0.000	52.415	-0.000	49.761	0.000	0.000	52.627	39.773	-8.235	MWD+IFR1+MS
14700.000	90.000	179.641	9457.997	50.427	0.000	52.994	-0.000	50.427	0.000	0.000	53.199	39.808	-7.962	MWD+IFR1+MS
14800.000	90.000	179.641	9457.997	51.095	0.000	53.578	-0.000	51.095	0.000	0.000	53.776	39.843	-7.706	MWD+IFR1+MS
14900.000	90.000	179.641	9457.997	51.767	0.000	54.166	-0.000	51.767	0.000	0.000	54.358	39.879	-7.467	MWD+IFR1+MS
15000.000	90.000	179.641	9457.997	52.443	0.000	54.758	-0.000	52.443	0.000	0.000	54.945	39.915	-7.243	MWD+IFR1+MS
15100.000	90.000	179.641	9457.997	53.121	0.000	55.355	-0.000	53.121	0.000	0.000	55.536	39.950	-7.032	MWD+IFR1+MS
15200.000	90.000	179.641	9457.997	53.802	0.000	55.956	-0.000	53.802	0.000	0.000	56.132	39.986	-6.833	MWD+IFR1+MS
15300.000	90.000	179.641	9457.997	54.486	0.000	56.561	-0.000	54.486	0.000	0.000	56.732	40.023	-6.646	MWD+IFR1+MS
15400.000	90.000	179.641	9457.997	55.172	0.000	57.170	-0.000	55.172	0.000	0.000	57.336	40.059	-6.469	MWD+IFR1+MS
15500.000	90.000	179.641	9457.997	55.861	0.000	57.782	-0.000	55.861	0.000	0.000	57.944	40.096	-6.302	MWD+IFR1+MS
15600.000	90.000	179.641	9457.997	56.553	0.000	58.398	-0.000	56.553	0.000	0.000	58.556	40.133	-6.143	MWD+IFR1+MS
15700.000	90.000	179.641	9457.997	57.247	0.000	59.018	-0.000	57.247	0.000	0.000	59.172	40.171	-5.993	MWD+IFR1+MS
15800.000	90.000	179.641	9457.997	57.943	0.000	59.641	-0.000	57.943	0.000	0.000	59.791	40.208	-5.850	MWD+IFR1+MS
15900.000	90.000	179.641	9457.997	58.642	0.000	60.267	-0.000	58.642	0.000	0.000	60.413	40.246	-5.714	MWD+IFR1+MS

16000.000	90.000	179.641	9457.997	59.343	0.000	60.896	-0.000	59.343	0.000	61.039	40.285	-5.584	MWD+IFR1+MS
16100.000	90.000	179.641	9457.997	60.045	0.000	61.529	-0.000	60.045	0.000	61.669	40.323	-5.461	MWD+IFR1+MS
16200.000	90.000	179.641	9457.997	60.750	0.000	62.164	-0.000	60.750	0.000	62.301	40.363	-5.343	MWD+IFR1+MS
16300.000	90.000	179.641	9457.997	61.457	0.000	62.803	-0.000	61.457	0.000	62.936	40.402	-5.231	MWD+IFR1+MS
16400.000	90.000	179.641	9457.997	62.165	0.000	63.444	-0.000	62.165	0.000	63.575	40.442	-5.123	MWD+IFR1+MS
16500.000	90.000	179.641	9457.997	62.876	0.000	64.088	-0.000	62.876	0.000	64.216	40.482	-5.020	MWD+IFR1+MS
16600.000	90.000	179.641	9457.997	63.588	0.000	64.735	-0.000	63.588	0.000	64.860	40.523	-4.921	MWD+IFR1+MS
16700.000	90.000	179.641	9457.997	64.302	0.000	65.384	-0.000	64.302	0.000	65.507	40.564	-4.827	MWD+IFR1+MS
16800.000	90.000	179.641	9457.997	65.017	0.000	66.036	-0.000	65.017	0.000	66.156	40.605	-4.736	MWD+IFR1+MS
16900.000	90.000	179.641	9457.997	65.735	0.000	66.690	-0.000	65.735	0.000	66.808	40.647	-4.649	MWD+IFR1+MS
17000.000	90.000	179.641	9457.997	66.453	0.000	67.346	-0.000	66.453	0.000	67.462	40.689	-4.565	MWD+IFR1+MS
17100.000	90.000	179.641	9457.997	67.173	0.000	68.005	-0.000	67.173	0.000	68.118	40.732	-4.484	MWD+IFR1+MS
17200.000	90.000	179.641	9457.997	67.895	0.000	68.666	-0.000	67.895	0.000	68.777	40.775	-4.407	MWD+IFR1+MS
17300.000	90.000	179.641	9457.997	68.618	0.000	69.329	-0.000	68.618	0.000	69.438	40.818	-4.332	MWD+IFR1+MS
17400.000	90.000	179.641	9457.997	69.342	0.000	69.994	-0.000	69.342	0.000	70.101	40.862	-4.260	MWD+IFR1+MS
17500.000	90.000	179.641	9457.997	70.068	0.000	70.661	-0.000	70.068	0.000	70.767	40.906	-4.191	MWD+IFR1+MS
17600.000	90.000	179.641	9457.997	70.794	0.000	71.331	-0.000	70.794	0.000	71.434	40.951	-4.123	MWD+IFR1+MS
17700.000	90.000	179.641	9457.997	71.522	0.000	72.002	-0.000	71.522	0.000	72.104	40.996	-4.059	MWD+IFR1+MS
17800.000	90.000	179.641	9457.997	72.252	0.000	72.675	-0.000	72.252	0.000	72.775	41.042	-3.996	MWD+IFR1+MS
17900.000	90.000	179.641	9457.997	72.982	0.000	73.350	-0.000	72.982	0.000	73.448	41.087	-3.935	MWD+IFR1+MS
18000.000	90.000	179.641	9457.997	73.714	0.000	74.026	-0.000	73.714	0.000	74.123	41.134	-3.877	MWD+IFR1+MS
18100.000	90.000	179.641	9457.997	74.446	0.000	74.705	-0.000	74.446	0.000	74.800	41.181	-3.820	MWD+IFR1+MS
18200.000	90.000	179.641	9457.997	75.180	0.000	75.385	-0.000	75.180	0.000	75.478	41.228	-3.765	MWD+IFR1+MS
18300.000	90.000	179.641	9457.997	75.914	0.000	76.066	-0.000	75.914	0.000	76.158	41.275	-3.712	MWD+IFR1+MS
18400.000	90.000	179.641	9457.997	76.650	0.000	76.749	-0.000	76.650	0.000	76.840	41.323	-3.661	MWD+IFR1+MS
18500.000	90.000	179.641	9457.997	77.387	0.000	77.434	-0.000	77.387	0.000	77.523	41.372	-3.611	MWD+IFR1+MS
18600.000	90.000	179.641	9457.997	78.124	0.000	78.120	-0.000	78.124	0.000	78.208	41.421	-3.562	MWD+IFR1+MS
18700.000	90.000	179.641	9457.997	78.863	0.000	78.808	-0.000	78.863	0.000	78.895	41.470	-3.515	MWD+IFR1+MS
18800.000	90.000	179.641	9457.997	79.602	0.000	79.497	-0.000	79.602	0.000	79.583	41.520	-3.469	MWD+IFR1+MS
18900.000	90.000	179.641	9457.997	80.342	0.000	80.188	-0.000	80.342	0.000	80.272	41.570	-3.425	MWD+IFR1+MS
19000.000	90.000	179.641	9457.997	81.083	0.000	80.880	-0.000	81.083	0.000	80.962	41.620	-3.381	MWD+IFR1+MS
19100.000	90.000	179.641	9457.997	81.825	0.000	81.573	-0.000	81.825	0.000	81.654	41.671	-3.339	MWD+IFR1+MS
19200.000	90.000	179.641	9457.997	82.568	0.000	82.267	-0.000	82.568	0.000	82.348	41.723	-3.299	MWD+IFR1+MS

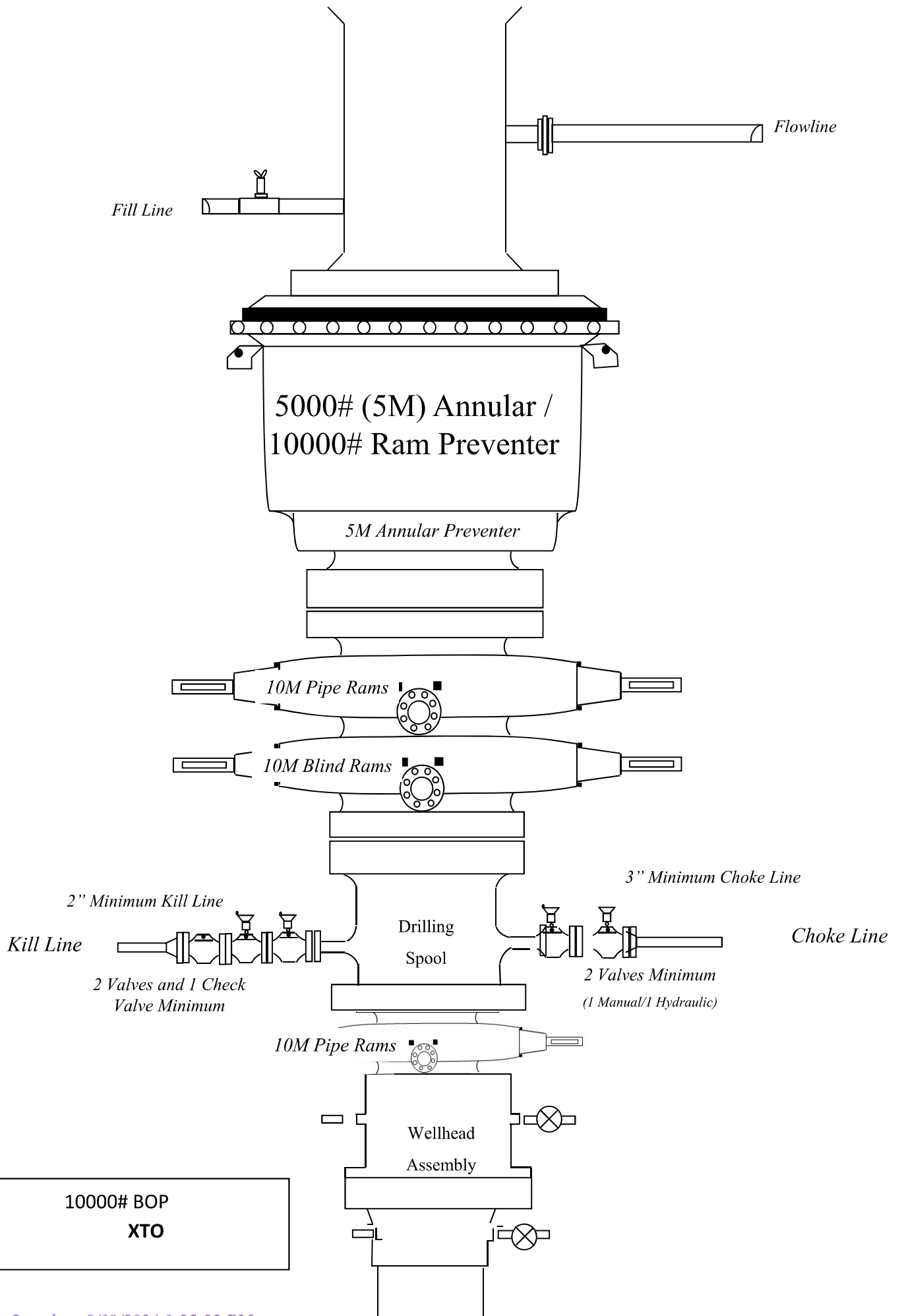
19300.000	90.000	179.641	9457.997	83.311	0.000	82.963	-0.000	83.311	0.000	0.000	83.042	41.774	-3.259	MWD+IFR1+MS
19400.000	90.000	179.641	9457.997	84.056	0.000	83.660	-0.000	84.056	0.000	0.000	83.738	41.827	-3.220	MWD+IFR1+MS
19500.000	90.000	179.641	9457.997	84.801	0.000	84.358	-0.000	84.801	0.000	0.000	84.435	41.879	-3.183	MWD+IFR1+MS
19600.000	90.000	179.641	9457.997	85.546	0.000	85.057	-0.000	85.546	0.000	0.000	85.134	41.932	-3.146	MWD+IFR1+MS
19700.000	90.000	179.641	9457.997	86.293	0.000	85.758	-0.000	86.293	0.000	0.000	85.833	41.986	-3.110	MWD+IFR1+MS
19800.000	90.000	179.641	9457.997	87.040	0.000	86.459	-0.000	87.040	0.000	0.000	86.534	42.040	-3.075	MWD+IFR1+MS
19900.000	90.000	179.641	9457.997	87.787	0.000	87.162	-0.000	87.787	0.000	0.000	87.235	42.094	-3.041	MWD+IFR1+MS
20000.000	90.000	179.641	9457.997	88.536	0.000	87.866	-0.000	88.536	0.000	0.000	87.938	42.149	-3.008	MWD+IFR1+MS
20100.000	90.000	179.641	9457.997	89.285	0.000	88.570	-0.000	89.285	0.000	0.000	88.642	42.204	-2.976	MWD+IFR1+MS
20200.000	90.000	179.641	9457.997	90.034	0.000	89.276	-0.000	90.034	0.000	0.000	89.347	42.260	-2.944	MWD+IFR1+MS
20300.000	90.000	179.641	9457.997	90.784	0.000	89.983	-0.000	90.784	0.000	0.000	90.052	42.316	-2.913	MWD+IFR1+MS
20400.000	90.000	179.641	9457.997	91.535	0.000	90.690	-0.000	91.535	0.000	0.000	90.759	42.372	-2.883	MWD+IFR1+MS
20500.000	90.000	179.641	9457.997	92.286	0.000	91.399	-0.000	92.286	0.000	0.000	91.467	42.429	-2.854	MWD+IFR1+MS
20600.000	90.000	179.641	9457.997	93.038	0.000	92.108	-0.000	93.038	0.000	0.000	92.176	42.486	-2.825	MWD+IFR1+MS
20700.000	90.000	179.641	9457.997	93.790	0.000	92.819	-0.000	93.790	0.000	0.000	92.885	42.543	-2.797	MWD+IFR1+MS
20800.000	90.000	179.641	9457.997	94.543	0.000	93.530	-0.000	94.543	0.000	0.000	93.596	42.601	-2.770	MWD+IFR1+MS
20900.000	90.000	179.641	9457.997	95.297	0.000	94.242	-0.000	95.297	0.000	0.000	94.307	42.660	-2.743	MWD+IFR1+MS
21000.000	90.000	179.641	9457.997	96.051	0.000	94.955	-0.000	96.051	0.000	0.000	95.019	42.719	-2.717	MWD+IFR1+MS
21100.000	90.000	179.641	9457.997	96.805	0.000	95.669	-0.000	96.805	0.000	0.000	95.732	42.778	-2.691	MWD+IFR1+MS
21200.000	90.000	179.641	9457.997	97.560	0.000	96.383	-0.000	97.560	0.000	0.000	96.446	42.838	-2.666	MWD+IFR1+MS
21300.000	90.000	179.641	9457.997	98.315	0.000	97.099	-0.000	98.315	0.000	0.000	97.161	42.898	-2.641	MWD+IFR1+MS
21400.000	90.000	179.641	9457.997	99.071	0.000	97.815	-0.000	99.071	0.000	0.000	97.876	42.958	-2.617	MWD+IFR1+MS
21500.000	90.000	179.641	9457.997	99.828	0.000	98.532	-0.000	99.828	0.000	0.000	98.592	43.019	-2.594	MWD+IFR1+MS
21600.000	90.000	179.641	9457.997	100.584	0.000	99.249	-0.000	100.584	0.000	0.000	99.309	43.080	-2.570	MWD+IFR1+MS
21700.000	90.000	179.641	9457.997	101.341	0.000	99.968	-0.000	101.341	0.000	0.000	100.027	43.142	-2.548	MWD+IFR1+MS
21800.000	90.000	179.641	9457.997	102.099	0.000	100.686	-0.000	102.099	0.000	0.000	100.745	43.204	-2.526	MWD+IFR1+MS
21900.000	90.000	179.641	9457.997	102.857	0.000	101.406	-0.000	102.857	0.000	0.000	101.464	43.266	-2.504	MWD+IFR1+MS
22000.000	90.000	179.641	9457.997	103.615	0.000	102.126	-0.000	103.615	0.000	0.000	102.184	43.329	-2.483	MWD+IFR1+MS
22100.000	90.000	179.641	9457.997	104.374	0.000	102.847	-0.000	104.374	0.000	0.000	102.904	43.392	-2.462	MWD+IFR1+MS
22187.793	90.000	179.641	9457.997	105.040	0.000	103.480	-0.000	105.040	0.000	0.000	103.537	43.448	-2.444	MWD+IFR1+MS
22200.000	90.000	179.641	9457.997	105.133	0.000	103.568	-0.000	105.133	0.000	0.000	103.625	43.455	-2.441	MWD+IFR1+MS
22277.847	90.000	179.641	9457.997	105.723	0.000	104.129	-0.000	105.723	0.000	0.000	104.185	43.505	-2.426	MWD+IFR1+MS

Poker Lake Unit 21 DTD South 173H

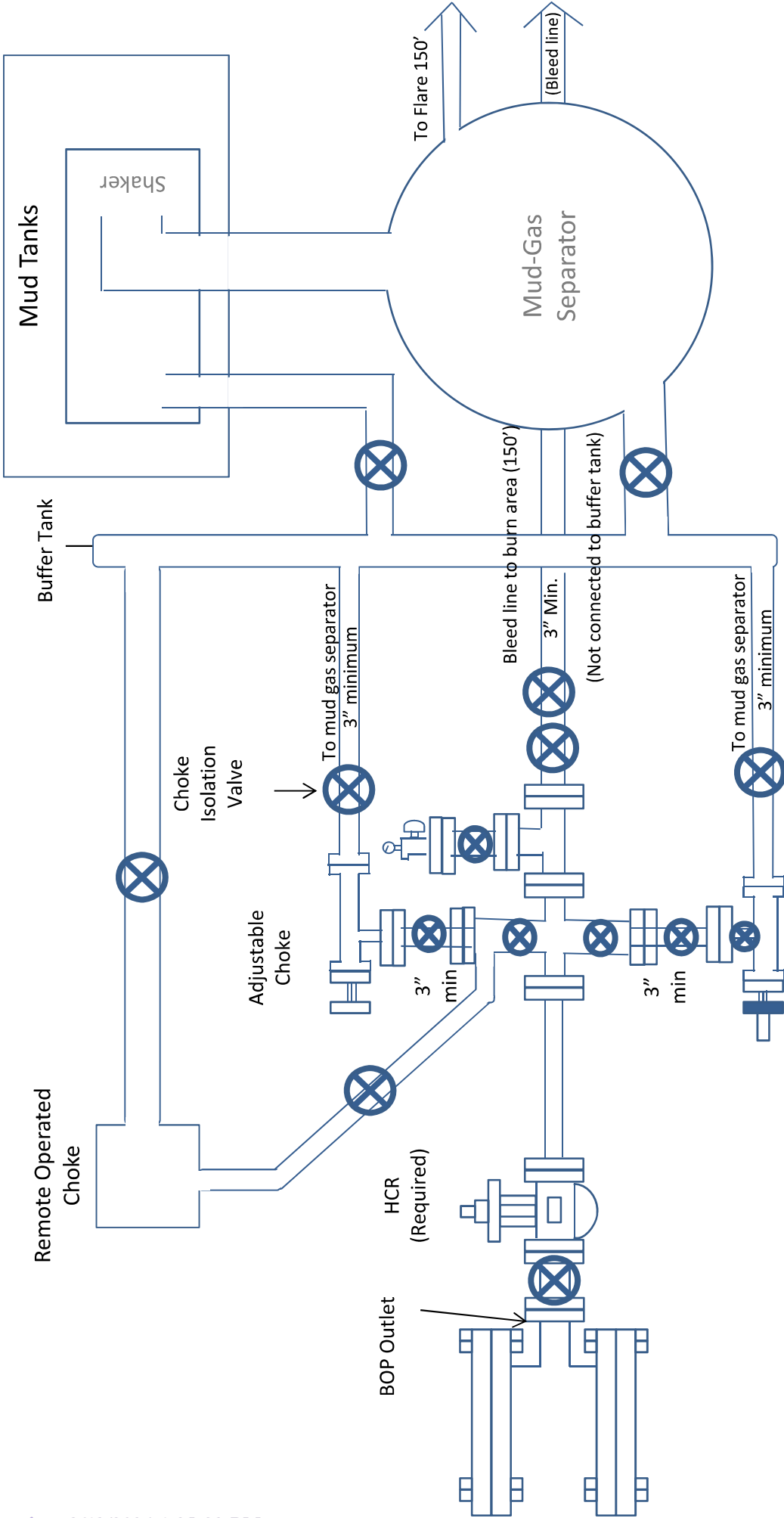
Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 22	9600.70	440430.30	638003.60	6098.00	RECTANGLE
SHL 22	9959.89	440098.61	637546.73	5958.00	RECTANGLE
LTP 22	22187.88	427430.30	638085.00	6098.00	RECTANGLE
BHL 22	22278.07	427340.30	638085.40	6098.00	RECTANGLE





Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



**Drilling Operations
Choke Manifold
10M Service**

10M Choke Manifold Diagram
XTO



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



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

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Notes

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

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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 nipped 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.



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	lb	--
Compression Rating	--	641,000	lb	--
Reference Length	--	21,370	ft	[5]
Maximum Uniaxial Bend Rating	--	91.7	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		—
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	17,000	ft-lb	[4]
Maximum Make-Up Torque	--	20,000	ft-lb	[4]
Maximum Operating Torque	--	39,500	ft-lb	[4]

UNCONTROLLED

Notes

- 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).
- Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- Uniaxial bend rating shown is structural only.
- Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

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**BLACK GOLD®**

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NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

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

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

SIGNATURE:*F. Cismos***TITLE:****QUALITY ASSURANCE****DATE:**

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

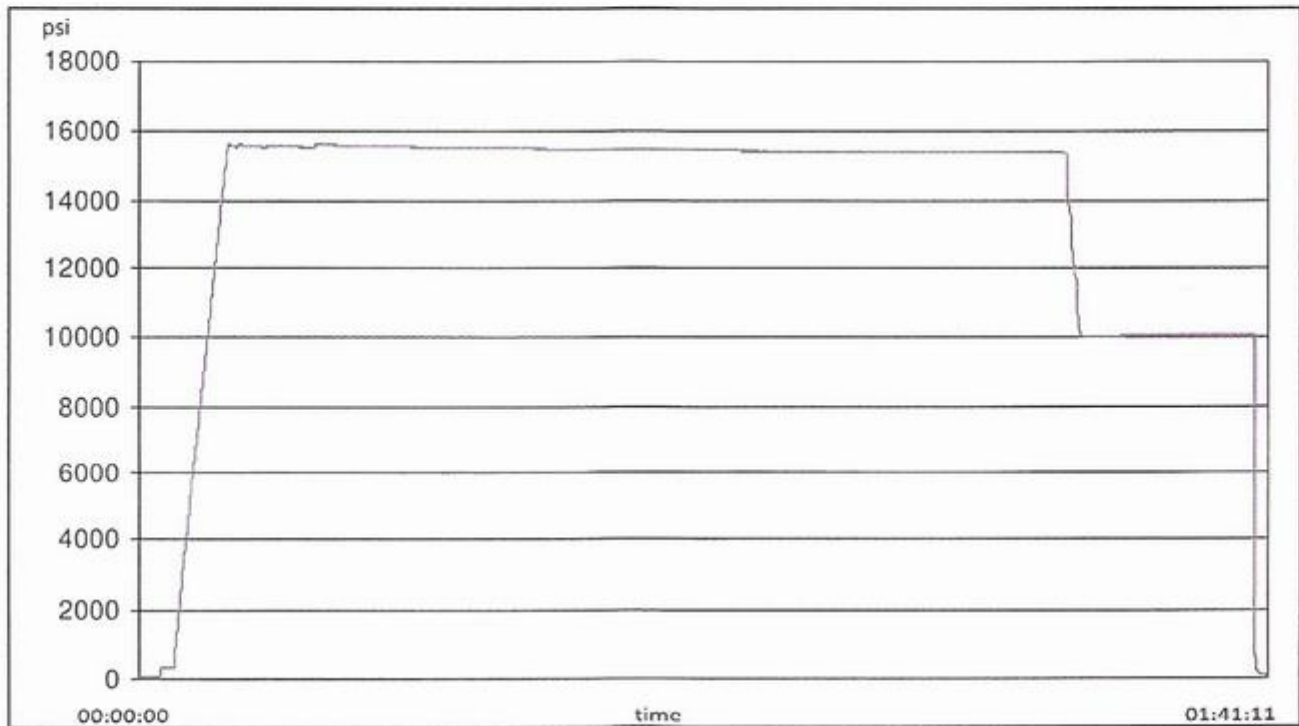
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

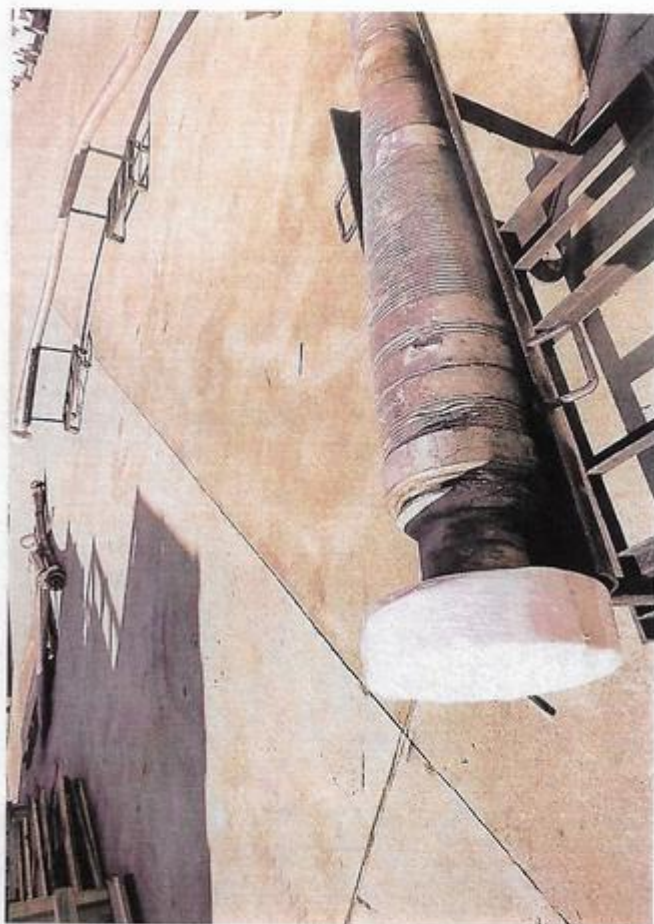
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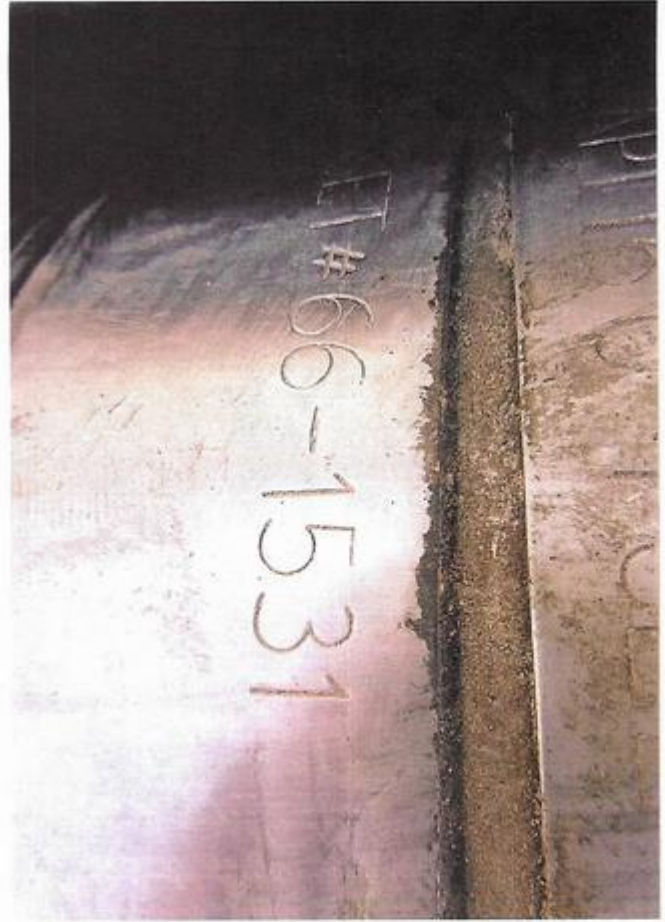
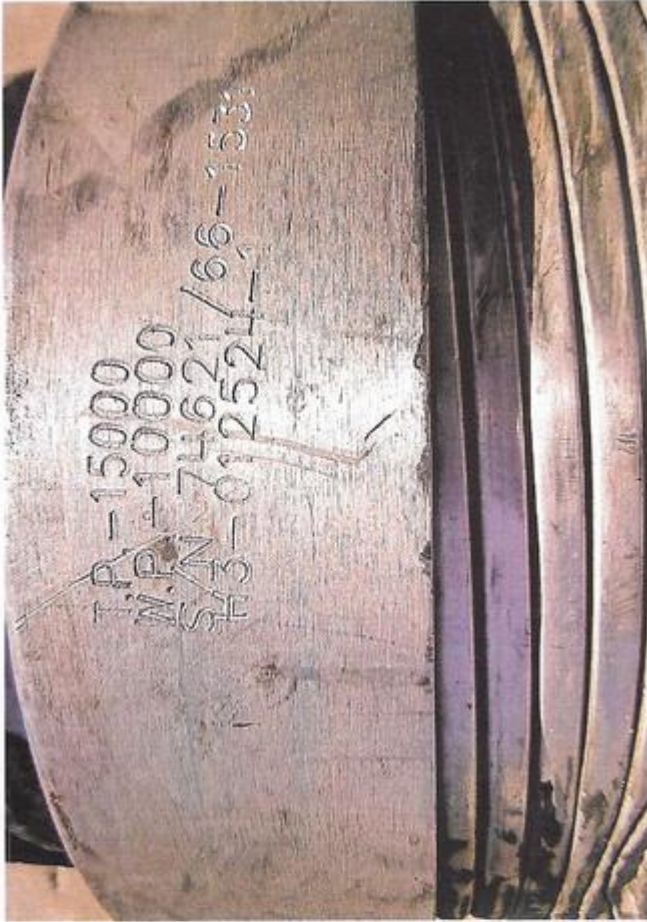
TEST REPORT

GAUGE TRACEABILITY

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

Comment





District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 383393

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 383393
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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