

Lease Number: NMLC061634B

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number:

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

Sundry ID: 2830604

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/07/2025

Time Sundry Submitted: 04:22

Date proposed operation will begin: 01/21/2025

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, Proposed total Depth, Pool. There is no new surface disturbance. The API number for this well is 30-015-55946. FROM: TO: KOP: 2435' FNL & 629' FEL OF SECTION 30-T25S-R31E 1584' FNL & 670' FEL OF SECTION 30-T25S-R31E FTP: 2435' FNL & 770' FEL OF SECTION 30-T25S-R31E 2300' FNL & 665' FEL OF SECTION 30-T25S-R31E LTP: 100' FSL & 770' FEL OF SECTION 6-T26S-R31E 100' FSL & 665' FEL OF SECTION 6-T26S-R31E BHL: 50' FSL & 770' FEL OF SECTION 6-T26S-R31E 10' FSL & 665' FEL OF SECTION 6-T26S-R31E The proposed total depth is changing from 23622' MD; 9807' TVD to 22877' MD; 8749' TVD. Pool Code is changing FROM 97975 / WC-015 G-06 S243119C; Bone Spring TO 97913 / WILDCAT G-06 S253002O; BONE SPRING There will be no changes required to the facilities/surface usage that was approved along with the APD. See attached drilling program for the updated casing design, cement program & mud circulation system. Attachments: C-102, Drilling Program, Directional Drilling Plan, Choke Manifold Diagram, BOP Diagram, Non-API Spec documents for Intermediate & Production Casing, Flex Hose Variance, Spudder Rig Request

NOI Attachments**Procedure Description**

Sundry_Attachments_PLU_30_BS_409H_20250107162201.pdf

US Well Number:

Operator: XTO PERMIAN OPERATING
LLC**Conditions of Approval****Additional**

PLU_30_BS_409H_COA_20250131074617.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: VISHAL RAJAN**Signed on:** JAN 07, 2025 04:22 PM**Name:** XTO PERMIAN OPERATING LLC**Title:** Regulatory Clerk**Street Address:** 6401 HOLIDAY HILL ROAD BLDG 5**City:** MIDLAND**State:** TX**Phone:** (432) 620-6704**Email address:** VISHAL.RAJAN@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:** 01/31/2025**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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMLC061634B
		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 30 BS/409H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No.
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 WC-015 G-06 S243119C/BONE SPRING
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 30/T25S/R31E/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 recompleat 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 KOP, FTP, LTP, BHL, Proposed total Depth, Pool. There is no new surface disturbance. The API number for this well is 30-015-55946.

FROM: TO:
KOP: 2435' FNL & 629 FEL OF SECTION 30-T25S-R31E 1584 FNL & 670 FEL OF SECTION 30-T25S-R31E
FTP: 2435' FNL & 770' FEL OF SECTION 30-T25S-R31E 2300' FNL & 665' FEL OF SECTION 30-T25S-R31E
LTP: 100' FSL & 770' FEL OF SECTION 6-T26S-R31E 100' FSL & 665' FEL OF SECTION 6-T26S-R31E
BHL: 50' FSL & 770' FEL OF SECTION 6-T26S-R31E 10' FSL & 665' FEL OF SECTION 6-T26S-R31E

The proposed total depth is changing from 23622 MD; 9807 TVD to 22877 MD; 8749 TVD.

Pool Code is changing FROM 97975 / WC-015 G-06 S243119C; Bone Spring TO 97913 / WILDCAT G-06 S253002O; BONE SPRING

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) VISHAL RAJAN / Ph: (432) 620-6704	Title Regulatory Clerk
Signature (Electronic Submission)	Date 01/07/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 01/31/2025
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

There will be no changes required to the facilities/surface usage that was approved along with the APD.

See attached drilling program for the updated casing design, cement program & mud circulation system.

Attachments: C-102, Drilling Program, Directional Drilling Plan, Choke Manifold Diagram, BOP Diagram, Non-API Spec documents for Intermediate & Production Casing, Flex Hose Variance, Spudder Rig Request

Location of Well

0. SHL: SENE / 2435 FNL / 629 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101851 / LONG: -103.81092 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 2656 FNL / 770 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101243 / LONG: -103.811376 (TVD: 9807 feet, MD: 10500 feet)

PPP: NESE / 2655 FNL / 755 FEL / TWSP: 25S / RANGE: 31E / SECTION: 31 / LAT: 32.086638 / LONG: -103.811403 (TVD: 9807 feet, MD: 15800 feet)

PPP: SENE / 2435 FNL / 770 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101851 / LONG: -103.811375 (TVD: 9807 feet, MD: 10200 feet)

BHL: SESE / 50 FSL / 770 FEL / TWSP: 26S / RANGE: 31E / SECTION: 6 / LAT: 32.06484 / LONG: -103.811443 (TVD: 9807 feet, MD: 23622 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO LEASE NO.: NMLC061634B LOCATION: Sec. 30, T.25 S, R 31 E COUNTY: Eddy County, New Mexico ▼
WELL NAME & NO.: Poker Lake Unit 30 BS 409H SURFACE HOLE FOOTAGE: 2435'N & 629'E BOTTOM HOLE FOOTAGE: 10'S & 665'E

*Changes approved through engineering via **Sundry 2830604** on 1-30-2025. 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 9-5/8 inch surface casing shall be set at approximately **1084** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be

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

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

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 7847'**.
- 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 **200 feet** into the previous casing. 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)**

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

Casing Clearance

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

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.

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 1/31/2025
575-234-5998 / zstevens@blm.gov

WELL LOCATION INFORMATION

API Number 30-015	Pool Code 97913	Pool Name WILDCAT G-06 S2530020;BONE SPRING
Property Code	Property Name POKER LAKE UNIT 30 BS	Well Number 409H
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,366'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL H	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,435' FNL	Ft. from E/W 629' FEL	Latitude 32.101851	Longitude -103.810920	County EDDY
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Bottom Hole Location

UL P	Section 6	Township 26 S	Range 31 E	Lot	Ft. from N/S 10' FSL	Ft. from E/W 665' FEL	Latitude 32.064731	Longitude -103.811104	County EDDY
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Dedicated Acres 440	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL H	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 1,584' FNL	Ft. from E/W 670' FEL	Latitude 32.104191	Longitude -103.811029	County EDDY
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First Take Point (FTP)

UL H	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,300' FNL	Ft. from E/W 665' FEL	Latitude 32.102222	Longitude -103.811032	County EDDY
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Last Take Point (LTP)

UL P	Section 6	Township 26 S	Range 31 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 665' FEL	Latitude 32.064979	Longitude -103.811104	County EDDY
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Unitized Area or Area of Uniform Interest NMNM-071016X	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,366'
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OPERATOR CERTIFICATIONS

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.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.

Terra Sebastian

1/06/2025

Signature

Date

Terra Sebastian

Printed Name

terra.b.sebastian@exxonmobil.com

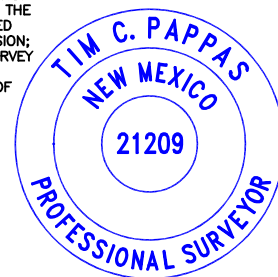
Email Address

SURVEYOR CERTIFICATIONS

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.

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209



Signature and Seal of Professional Surveyor

Certificate Number

TIM C. PAPPAS 21209

Date of Survey

01/05/2025

Note: 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.

LEGEND

SECTION LINE

PROPOSED WELLBORE

NEW MEXICO MINERAL LEASE LINE

330' BUFFER

DEDICATED ACREAGE

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	357° 27'06"	851.73'
L2	179° 49'02"	716.18'
L3	179° 48'55"	13,638.52'

COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	401,182.0	N	Y =	387,768.3	N
X =	703,101.2	E	X =	703,109.0	E
LAT. =	32.101851	°N	LAT. =	32.064979	°N
LONG. =	103.810920	°W	LONG. =	103.811104	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	402,032.9	N	Y =	387,678.3	N
X =	703,063.3	E	X =	703,109.6	E
LAT. =	32.104191	°N	LAT. =	32.064731	°N
LONG. =	103.811029	°W	LONG. =	103.811104	°W
FTP (NAD 27 NME)					
Y =	401,316.7	N			
X =	703,065.6	E			
LAT. =	32.102222	°N			
LONG. =	103.811032	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	401,124.1	N	Y =	387,710.7	N
X =	661,915.6	E	X =	661,922.9	E
LAT. =	32.101727	°N	LAT. =	32.064085	°N
LONG. =	103.810441	°W	LONG. =	103.810627	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	401,975.0	N	Y =	387,620.7	N
X =	661,877.7	E	X =	661,923.5	E
LAT. =	32.104066	°N	LAT. =	32.064607	°N
LONG. =	103.810550	°W	LONG. =	103.810627	°W
FTP (NAD 27 NME)					
Y =	401,258.8	N			
X =	661,880.0	E			
LAT. =	32.102098	°N			
LONG. =	103.810554	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	400,961.1	N	Y =	400,903.2	N
X =	703,066.8	E	X =	661,881.2	E
LAT. =	32.101244	°N	LAT. =	32.101120	°N
LONG. =	103.811034	°W	LONG. =	103.810556	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	398,303.1	N	Y =	398,245.3	N
X =	703,075.3	E	X =	661,889.6	E
LAT. =	32.093938	°N	LAT. =	32.093813	°N
LONG. =	103.811048	°W	LONG. =	103.810570	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 27 NME)		
Y =	392,991.0	N	Y =	392,933.3	N
X =	703,092.3	E	X =	661,906.4	E
LAT. =	32.079336	°N	LAT. =	32.079211	°N
LONG. =	103.811077	°W	LONG. =	103.810599	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	403,621.2	N	A - X =	703,737.8	E
B - Y =	400,966.5	N	B - X =	703,729.5	E
C - Y =	398,308.0	N	C - X =	703,719.7	E
D - Y =	395,652.0	N	D - X =	703,732.0	E
E - Y =	392,996.2	N	E - X =	703,742.0	E
F - Y =	390,335.7	N	F - X =	703,758.2	E
G - Y =	387,674.7	N	G - X =	703,774.6	E
H - Y =	403,612.5	N	H - X =	702,410.4	E
I - Y =	400,955.6	N	I - X =	702,400.1	E
J - Y =	398,298.0	N	J - X =	702,389.1	E
K - Y =	395,642.9	N	K - X =	702,401.5	E
L - Y =	392,985.5	N	L - X =	702,412.9	E
M - Y =	390,323.9	N	M - X =	702,428.8	E
N - Y =	387,661.9	N	N - X =	702,444.8	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	403,563.2	N	A - X =	662,552.3	E
B - Y =	400,908.6	N	B - X =	662,543.9	E
C - Y =	398,250.2	N	C - X =	662,534.0	E
D - Y =	395,594.2	N	D - X =	662,546.2	E
E - Y =	392,938.5	N	E - X =	662,556.1	E
F - Y =	390,278.1	N	F - X =	662,572.2	E
G - Y =	387,617.1	N	G - X =	662,588.5	E
H - Y =	403,554.5	N	H - X =	661,224.9	E
I - Y =	400,897.7	N	I - X =	661,214.5	E
J - Y =	398,240.2	N	J - X =	661,203.4	E
K - Y =	395,585.1	N	K - X =	661,215.7	E
L - Y =	392,927.8	N	L - X =	661,227.0	E
M - Y =	390,266.2	N	M - X =	661,242.8	E
N - Y =	387,605.2	N	N - X =	661,258.5	E

XTO Energy Inc.
PLU 30 BS 409H
Projected TD: 22877' MD / 8749' TVD
SHL: 2435' FNL & 629' FEL , Section 30, T25S, R31E
BHL: 10' FSL & 665' FEL , Section 6, T26S, R31E
Eddy County, NM

A. Quaternary

[illegible]

*** Deepest Expected Groundwater Depth: 40' (per NM State Engineers Office).

No other formations are expected to give up oil, gas or fresh water in measurable quantities.

Surface fresh water sands will be protected by setting 9-5/8" inch casing at 1237' and circulating cement back to surface.

[illegible]

The planned kick off point is located at: 8114' MD / 8033' TVD.

Wellhead:

A multi-bowl wellhead system will be utilized. The well design chosen is: 3-String Slim Non-Potash

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Primary Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft ³ /sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	278	12.4	2.11	0	1237	100%	Surface Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	937	1237	100%	Surface Class C Tail Cement
Intermediate 1	Lead				0			
Intermediate 1	Tail	6	14.8	1.45	7847	7914	35%	Intermediate Class C Tail Cement
Production 1	Lead							
Production 1	Tail	1166	13.2	1.44	7414	22877	30%	Production Class C Tail Cement
Remedial Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft ³ /sack)	Cemented Interval	Excess (%)	Slurry Description	
Intermediate 1	Bradenhead Squeeze	816	14.8	1.45	0 - 7847'	50%	Intermediate Class C Bradenhead Squeeze Cement	

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment

Section 5 Summary:

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

All BOP testing will be done by an independent service company. Operator will Test as per BLM 43CFR-3172

Requested Variances**4A) Offline Cementing Variance**

XOM 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. XOM 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. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5A) Break Test Variance

A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated Surface hole pressure at the deepest intermediate casing point is less than 4800psi.

5B) Flex Hose Variance

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.

5C) 5M Annular Variance

XOM requests a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables attached along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

8A) Open Hole Logging Variance

Open hole logging will not be done on this well.

10A) Spudder Rig Variance

XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

10B) Batch Drilling Variance

XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM 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, XOM will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss	Comments
			(ppg)	(sec/qt)	(cc)	
0' – 1237'	12.25"	FW/Native	8.3 – 8.7	35-40	NC	Fresh Water or Native Water
1237' – 7914'	8.75"	BDE/OBM or FW/Brine	9.5 – 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
7914' – 22877'	6.75"	OBM	9 – 9.6	50-60	NC – 20	

Section 6 Summary:

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 a fully saturated brine 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. An EDR (Electronic Drilling Recorder) 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**Section 7 Summary:**

A Kelly cock will be in the drill string at all times.

A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.

H2S monitors will be on location when drilling below the 9-5/8" casing.

8. Logging, Coring and Testing Program**Section 8 Summary:**

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards**Section 9 Summary:**

The estimated bottom hole temperature of 154F to 174F. 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 is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations**Section 10 Summary:**

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 30 BS 409H

Measured Depth:	22877.13 ft	Site:	B
TVD RKB:	8749.00 ft	Slot:	Poker Lake Unit 30 BS 409H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	401124.10 ft		
Easting:	661915.60 ft		
RKB:	3398.00 ft		
Ground Level:	3366.00 ft		
North Reference:	Grid		
Convergence Angle:	0.28 Deg		

Plan Sections

Measured		Inclination		Azimuth		RKB	TVD
Depth	(ft)	(Deg)	(Deg)				
0.00		0.00	0.00	0.00	0.00	0.00	
1100.00		0.00	0.00	0.00	0.00	1100.00	
1669.40		11.39		357.45		1665.66	
5411.76		11.39		357.45		5334.34	
5981.16		0.00		0.00	0.00	5900.00	
8113.96		0.00		0.00	0.00	8032.80	
9238.96		90.00		179.82		8749.00	
22787.13		90.00		179.82		8749.00	
22877.13		90.00		179.82		8749.00	

Position Uncertainty

Measured	Poker Lake Unit 30 BS 409H
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	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	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	1.259	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	0.986	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	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	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	3.267	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	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	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.581	0.000	4.384	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	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	357.452	1199.980	4.922	0.000	4.627	0.000	2.691	0.000	5.271	4.227	124.131	MWD+IFR1+MS
1300.000	4.000	357.452	1299.838	5.727	0.000	4.983	0.000	2.751	0.000	6.018	4.637	115.842	MWD+IFR1+MS
1400.000	6.000	357.452	1399.452	6.444	0.000	5.338	0.000	2.816	0.000	6.723	5.007	111.803	MWD+IFR1+MS
1500.000	8.000	357.452	1498.702	7.100	0.000	5.692	0.000	2.889	0.000	7.382	5.363	109.512	MWD+IFR1+MS
1600.000	10.000	357.452	1597.465	7.708	0.000	6.046	0.000	2.972	0.000	8.004	5.715	108.065	MWD+IFR1+MS
1669.399	11.388	357.452	1665.657	7.990	0.000	6.282	0.000	3.024	0.000	8.302	5.956	107.643	MWD+IFR1+MS
1700.000	11.388	357.452	1695.656	8.077	0.000	6.383	0.000	3.043	0.000	8.386	6.062	107.604	MWD+IFR1+MS
1800.000	11.388	357.452	1793.687	8.361	0.000	6.726	0.000	3.120	0.000	8.662	6.416	107.742	MWD+IFR1+MS
1900.000	11.388	357.452	1891.718	8.664	0.000	7.087	0.000	3.202	0.000	8.965	6.777	108.138	MWD+IFR1+MS
2000.000	11.388	357.452	1989.750	8.974	0.000	7.450	0.000	3.287	0.000	9.273	7.140	108.523	MWD+IFR1+MS
2100.000	11.388	357.452	2087.781	9.290	0.000	7.815	0.000	3.374	0.000	9.586	7.505	108.897	MWD+IFR1+MS
2200.000	11.388	357.452	2185.812	9.610	0.000	8.181	0.000	3.464	0.000	9.904	7.871	109.261	MWD+IFR1+MS
2300.000	11.388	357.452	2283.844	9.935	0.000	8.549	0.000	3.557	0.000	10.227	8.237	109.615	MWD+IFR1+MS
2400.000	11.388	357.452	2381.875	10.264	0.000	8.917	0.000	3.652	0.000	10.553	8.605	109.959	MWD+IFR1+MS
2500.000	11.388	357.452	2479.906	10.597	0.000	9.286	0.000	3.749	0.000	10.882	8.974	110.293	MWD+IFR1+MS
2600.000	11.388	357.452	2577.937	10.934	0.000	9.656	0.000	3.848	0.000	11.215	9.343	110.619	MWD+IFR1+MS
2700.000	11.388	357.452	2675.969	11.273	0.000	10.027	0.000	3.949	0.000	11.551	9.713	110.937	MWD+IFR1+MS
2800.000	11.388	357.452	2774.000	11.616	0.000	10.399	0.000	4.052	0.000	11.889	10.083	111.246	MWD+IFR1+MS
2900.000	11.388	357.452	2872.031	11.961	0.000	10.771	0.000	4.156	0.000	12.230	10.454	111.547	MWD+IFR1+MS

3000.000	11.388	357,452	2970.062	12.308	0.000	11.143	0.000	4.263	0.000	0.000	12.573	10.826	111.841	MWD+IFR1+MS
3100.000	11.388	357,452	3068.094	12.657	0.000	11.516	0.000	4.371	0.000	0.000	12.918	11.198	112.127	MWD+IFR1+MS
3200.000	11.388	357,452	3166.125	13.009	0.000	11.889	0.000	4.481	0.000	0.000	13.265	11.570	112.406	MWD+IFR1+MS
3300.000	11.388	357,452	3264.156	13.362	0.000	12.263	0.000	4.592	0.000	0.000	13.614	11.943	112.678	MWD+IFR1+MS
3400.000	11.388	357,452	3362.187	13.717	0.000	12.637	0.000	4.705	0.000	0.000	13.964	12.316	112.944	MWD+IFR1+MS
3500.000	11.388	357,452	3460.219	14.074	0.000	13.012	0.000	4.819	0.000	0.000	14.316	12.689	113.204	MWD+IFR1+MS
3600.000	11.388	357,452	3558.250	14.432	0.000	13.386	0.000	4.935	0.000	0.000	14.669	13.062	113.458	MWD+IFR1+MS
3700.000	11.388	357,452	3656.281	14.791	0.000	13.761	0.000	5.053	0.000	0.000	15.024	13.436	113.705	MWD+IFR1+MS
3800.000	11.388	357,452	3754.312	15.152	0.000	14.136	0.000	5.172	0.000	0.000	15.380	13.810	113.947	MWD+IFR1+MS
3900.000	11.388	357,452	3852.344	15.514	0.000	14.512	0.000	5.292	0.000	0.000	15.736	14.184	114.184	MWD+IFR1+MS
4000.000	11.388	357,452	3950.375	15.877	0.000	14.888	0.000	5.414	0.000	0.000	16.094	14.559	114.415	MWD+IFR1+MS
4100.000	11.388	357,452	4048.406	16.241	0.000	15.263	0.000	5.538	0.000	0.000	16.453	14.934	114.641	MWD+IFR1+MS
4200.000	11.388	357,452	4146.438	16.605	0.000	15.639	0.000	5.663	0.000	0.000	16.813	15.308	114.862	MWD+IFR1+MS
4300.000	11.388	357,452	4244.469	16.971	0.000	16.016	0.000	5.790	0.000	0.000	17.173	15.683	115.078	MWD+IFR1+MS
4400.000	11.388	357,452	4342.500	17.338	0.000	16.392	0.000	5.918	0.000	0.000	17.535	16.059	115.290	MWD+IFR1+MS
4500.000	11.388	357,452	4440.531	17.705	0.000	16.768	0.000	6.047	0.000	0.000	17.897	16.434	115.497	MWD+IFR1+MS
4600.000	11.388	357,452	4538.563	18.073	0.000	17.145	0.000	6.179	0.000	0.000	18.260	16.809	115.700	MWD+IFR1+MS
4700.000	11.388	357,452	4636.594	18.442	0.000	17.522	0.000	6.311	0.000	0.000	18.624	17.185	115.898	MWD+IFR1+MS
4800.000	11.388	357,452	4734.625	18.811	0.000	17.899	0.000	6.446	0.000	0.000	18.988	17.561	116.092	MWD+IFR1+MS
4900.000	11.388	357,452	4832.656	19.181	0.000	18.276	0.000	6.582	0.000	0.000	19.353	17.937	116.282	MWD+IFR1+MS
5000.000	11.388	357,452	4930.688	19.552	0.000	18.653	0.000	6.719	0.000	0.000	19.718	18.312	116.469	MWD+IFR1+MS
5100.000	11.388	357,452	5028.719	19.923	0.000	19.030	0.000	6.859	0.000	0.000	20.084	18.688	116.651	MWD+IFR1+MS
5200.000	11.388	357,452	5126.750	20.295	0.000	19.407	0.000	7.000	0.000	0.000	20.450	19.065	116.830	MWD+IFR1+MS
5300.000	11.388	357,452	5224.781	20.667	0.000	19.784	0.000	7.143	0.000	0.000	20.817	19.441	117.005	MWD+IFR1+MS
5400.000	11.388	357,452	5322.813	21.040	0.000	20.162	0.000	7.287	0.000	0.000	21.184	19.817	117.176	MWD+IFR1+MS
5411.762	11.388	357,452	5334.343	21.082	0.000	20.205	0.000	7.304	0.000	0.000	21.226	19.861	117.174	MWD+IFR1+MS
5500.000	9.623	357,452	5421.099	21.443	0.000	20.530	0.000	7.434	0.000	0.000	21.555	20.191	116.939	MWD+IFR1+MS
5600.000	7.623	357,452	5519.963	21.910	0.000	20.898	0.000	7.585	0.000	0.000	22.008	20.565	115.736	MWD+IFR1+MS
5700.000	5.623	357,452	5619.291	22.356	0.000	21.261	0.000	7.729	0.000	0.000	22.469	20.933	114.545	MWD+IFR1+MS
5800.000	3.623	357,452	5718.960	22.768	0.000	21.616	0.000	7.866	0.000	0.000	22.923	21.292	113.505	MWD+IFR1+MS
5900.000	1.623	357,452	5818.850	23.143	0.000	21.965	0.000	7.999	0.000	0.000	23.368	21.643	112.599	MWD+IFR1+MS
5981.160	0.000	0.000	5900.000	23.446	0.000	22.182	0.000	8.103	0.000	0.000	23.690	21.921	112.187	MWD+IFR1+MS
6000.000	0.000	0.000	5918.840	23.507	0.000	22.244	0.000	8.127	0.000	0.000	23.751	21.984	112.174	MWD+IFR1+MS

6100.000	0.000	0.000	6018.840	23.830	0.000	22.580	0.000	8.256	0.000	0.000	24.071	22.322	112.182	MWD+IFR1+MS
6200.000	0.000	0.000	6118.840	24.158	0.000	22.921	0.000	8.387	0.000	0.000	24.401	22.662	112.308	MWD+IFR1+MS
6300.000	0.000	0.000	6218.840	24.487	0.000	23.262	0.000	8.521	0.000	0.000	24.731	23.003	112.431	MWD+IFR1+MS
6400.000	0.000	0.000	6318.840	24.817	0.000	23.604	0.000	8.657	0.000	0.000	25.062	23.344	112.552	MWD+IFR1+MS
6500.000	0.000	0.000	6418.840	25.148	0.000	23.947	0.000	8.796	0.000	0.000	25.394	23.685	112.671	MWD+IFR1+MS
6600.000	0.000	0.000	6518.840	25.479	0.000	24.290	0.000	8.938	0.000	0.000	25.727	24.027	112.788	MWD+IFR1+MS
6700.000	0.000	0.000	6618.840	25.811	0.000	24.633	0.000	9.082	0.000	0.000	26.060	24.370	112.904	MWD+IFR1+MS
6800.000	0.000	0.000	6718.840	26.144	0.000	24.977	0.000	9.229	0.000	0.000	26.394	24.713	113.017	MWD+IFR1+MS
6900.000	0.000	0.000	6818.840	26.478	0.000	25.322	0.000	9.378	0.000	0.000	26.729	25.056	113.129	MWD+IFR1+MS
7000.000	0.000	0.000	6918.840	26.812	0.000	25.666	0.000	9.530	0.000	0.000	27.064	25.400	113.239	MWD+IFR1+MS
7100.000	0.000	0.000	7018.840	27.147	0.000	26.011	0.000	9.685	0.000	0.000	27.400	25.744	113.347	MWD+IFR1+MS
7200.000	0.000	0.000	7118.840	27.482	0.000	26.357	0.000	9.843	0.000	0.000	27.737	26.089	113.454	MWD+IFR1+MS
7300.000	0.000	0.000	7218.840	27.818	0.000	26.702	0.000	10.003	0.000	0.000	28.074	26.434	113.559	MWD+IFR1+MS
7400.000	0.000	0.000	7318.840	28.155	0.000	27.048	0.000	10.166	0.000	0.000	28.411	26.779	113.662	MWD+IFR1+MS
7500.000	0.000	0.000	7418.840	28.492	0.000	27.395	0.000	10.332	0.000	0.000	28.749	27.124	113.763	MWD+IFR1+MS
7600.000	0.000	0.000	7518.840	28.829	0.000	27.742	0.000	10.501	0.000	0.000	29.088	27.470	113.864	MWD+IFR1+MS
7700.000	0.000	0.000	7618.840	29.167	0.000	28.089	0.000	10.673	0.000	0.000	29.427	27.817	113.962	MWD+IFR1+MS
7800.000	0.000	0.000	7718.840	29.506	0.000	28.436	0.000	10.847	0.000	0.000	29.766	28.163	114.059	MWD+IFR1+MS
7900.000	0.000	0.000	7818.840	29.845	0.000	28.783	0.000	11.025	0.000	0.000	30.106	28.510	114.155	MWD+IFR1+MS
8000.000	0.000	0.000	7918.840	30.185	0.000	29.131	0.000	11.205	0.000	0.000	30.447	28.857	114.249	MWD+IFR1+MS
8100.000	0.000	0.000	8018.840	30.524	0.000	29.479	0.000	11.388	0.000	0.000	30.788	29.204	114.342	MWD+IFR1+MS
8113.963	0.000	0.000	8032.803	30.571	0.000	29.527	0.000	11.414	0.000	0.000	30.834	29.253	114.336	MWD+IFR1+MS
8200.000	6.883	179.819	8118.633	30.476	0.000	29.808	-0.000	11.576	0.000	0.000	31.258	29.554	112.225	MWD+IFR1+MS
8300.000	14.883	179.819	8216.754	30.869	0.000	30.101	-0.000	11.860	0.000	0.000	32.577	29.918	104.717	MWD+IFR1+MS
8400.000	22.883	179.819	8311.296	30.950	0.000	30.372	-0.000	12.380	0.000	0.000	33.932	30.215	101.323	MWD+IFR1+MS
8500.000	30.883	179.819	8400.417	30.591	0.000	30.617	-0.000	13.201	0.000	0.000	35.094	30.469	99.769	MWD+IFR1+MS
8600.000	38.883	179.819	8482.382	29.873	0.000	30.836	-0.000	14.345	0.000	0.000	36.044	30.689	98.987	MWD+IFR1+MS
8700.000	46.883	179.819	8555.597	28.902	0.000	31.031	-0.000	15.785	0.000	0.000	36.781	30.880	98.613	MWD+IFR1+MS
8800.000	54.883	179.819	8618.637	27.813	0.000	31.202	-0.000	17.464	0.000	0.000	37.315	31.046	98.485	MWD+IFR1+MS
8900.000	62.883	179.819	8670.274	26.767	0.000	31.351	-0.000	19.309	0.000	0.000	37.667	31.188	98.518	MWD+IFR1+MS
9000.000	70.883	179.819	8709.503	25.945	0.000	31.479	-0.000	21.247	0.000	0.000	37.867	31.309	98.652	MWD+IFR1+MS
9100.000	78.883	179.819	8735.561	25.525	0.000	31.587	-0.000	23.209	0.000	0.000	37.955	31.410	98.828	MWD+IFR1+MS
9200.000	86.883	179.819	8747.940	25.649	0.000	31.674	-0.000	25.135	0.000	0.000	37.976	31.493	98.982	MWD+IFR1+MS

9238.963	90.000	179.819	8749.000	25.327	0.000	31.699	-0.000	25.327	0.000	37.977	31.518	99.008	MWD+IFR1+MS
9300.000	90.000	179.819	8749.000	25.468	0.000	31.741	-0.000	25.468	0.000	37.979	31.559	99.051	MWD+IFR1+MS
9400.000	90.000	179.819	8749.000	25.674	0.000	31.835	-0.000	25.674	0.000	37.981	31.652	99.156	MWD+IFR1+MS
9500.000	90.000	179.819	8749.000	25.904	0.000	31.955	-0.000	25.904	0.000	37.985	31.770	99.299	MWD+IFR1+MS
9600.000	90.000	179.819	8749.000	26.156	0.000	32.098	-0.000	26.156	0.000	37.990	31.911	99.480	MWD+IFR1+MS
9700.000	90.000	179.819	8749.000	26.429	0.000	32.265	-0.000	26.429	0.000	37.997	32.075	99.703	MWD+IFR1+MS
9800.000	90.000	179.819	8749.000	26.721	0.000	32.455	-0.000	26.721	0.000	38.004	32.261	99.975	MWD+IFR1+MS
9900.000	90.000	179.819	8749.000	27.034	0.000	32.668	-0.000	27.034	0.000	38.013	32.469	100.302	MWD+IFR1+MS
10000.000	90.000	179.819	8749.000	27.365	0.000	32.903	-0.000	27.365	0.000	38.024	32.698	100.694	MWD+IFR1+MS
10100.000	90.000	179.819	8749.000	27.715	0.000	33.159	-0.000	27.715	0.000	38.036	32.948	101.162	MWD+IFR1+MS
10200.000	90.000	179.819	8749.000	28.083	0.000	33.437	-0.000	28.083	0.000	38.051	33.217	101.723	MWD+IFR1+MS
10300.000	90.000	179.819	8749.000	28.467	0.000	33.736	-0.000	28.467	0.000	38.067	33.506	102.397	MWD+IFR1+MS
10400.000	90.000	179.819	8749.000	28.867	0.000	34.055	-0.000	28.867	0.000	38.087	33.812	103.212	MWD+IFR1+MS
10500.000	90.000	179.819	8749.000	29.283	0.000	34.393	-0.000	29.283	0.000	38.110	34.134	104.206	MWD+IFR1+MS
10600.000	90.000	179.819	8749.000	29.714	0.000	34.750	-0.000	29.714	0.000	38.138	34.472	105.433	MWD+IFR1+MS
10700.000	90.000	179.819	8749.000	30.159	0.000	35.126	-0.000	30.159	0.000	38.172	34.822	106.967	MWD+IFR1+MS
10800.000	90.000	179.819	8749.000	30.618	0.000	35.520	-0.000	30.618	0.000	38.213	35.183	108.914	MWD+IFR1+MS
10900.000	90.000	179.819	8749.000	31.090	0.000	35.931	-0.000	31.090	0.000	38.266	35.551	111.423	MWD+IFR1+MS
11000.000	90.000	179.819	8749.000	31.574	0.000	36.359	-0.000	31.574	0.000	38.336	35.919	114.701	MWD+IFR1+MS
11100.000	90.000	179.819	8749.000	32.071	0.000	36.802	-0.000	32.071	0.000	38.429	36.280	119.008	MWD+IFR1+MS
11200.000	90.000	179.819	8749.000	32.578	0.000	37.262	-0.000	32.578	0.000	38.558	36.621	124.581	MWD+IFR1+MS
11300.000	90.000	179.819	8749.000	33.097	0.000	37.736	-0.000	33.097	0.000	38.739	36.926	131.425	MWD+IFR1+MS
11400.000	90.000	179.819	8749.000	33.625	0.000	38.225	-0.000	33.625	0.000	38.985	37.181	-40.988	MWD+IFR1+MS
11500.000	90.000	179.819	8749.000	34.164	0.000	38.727	-0.000	34.164	0.000	39.302	37.379	-33.643	MWD+IFR1+MS
11600.000	90.000	179.819	8749.000	34.712	0.000	39.243	-0.000	34.712	0.000	39.684	37.526	-27.362	MWD+IFR1+MS
11700.000	90.000	179.819	8749.000	35.269	0.000	39.772	-0.000	35.269	0.000	40.118	37.634	-22.396	MWD+IFR1+MS
11800.000	90.000	179.819	8749.000	35.834	0.000	40.313	-0.000	35.834	0.000	40.591	37.716	-18.592	MWD+IFR1+MS
11900.000	90.000	179.819	8749.000	36.408	0.000	40.866	-0.000	36.408	0.000	41.094	37.780	-15.686	MWD+IFR1+MS
12000.000	90.000	179.819	8749.000	36.989	0.000	41.430	-0.000	36.989	0.000	41.621	37.832	-13.439	MWD+IFR1+MS
12100.000	90.000	179.819	8749.000	37.578	0.000	42.005	-0.000	37.578	0.000	42.167	37.877	-11.674	MWD+IFR1+MS
12200.000	90.000	179.819	8749.000	38.173	0.000	42.591	-0.000	38.173	0.000	42.730	37.915	-10.263	MWD+IFR1+MS
12300.000	90.000	179.819	8749.000	38.776	0.000	43.187	-0.000	38.776	0.000	43.308	37.949	-9.116	MWD+IFR1+MS
12400.000	90.000	179.819	8749.000	39.385	0.000	43.792	-0.000	39.385	0.000	43.898	37.981	-8.169	MWD+IFR1+MS

12500.000	90.000	179.819	8749.000	40.000	0.000	44.406	-0.000	40.000	0.000	44.501	38.011	-7.377	MWD+IFR1+MS
12600.000	90.000	179.819	8749.000	40.621	0.000	45.029	-0.000	40.621	0.000	45.114	38.039	-6.706	MWD+IFR1+MS
12700.000	90.000	179.819	8749.000	41.247	0.000	45.661	-0.000	41.247	0.000	45.737	38.066	-6.132	MWD+IFR1+MS
12800.000	90.000	179.819	8749.000	41.879	0.000	46.301	-0.000	41.879	0.000	46.369	38.092	-5.636	MWD+IFR1+MS
12900.000	90.000	179.819	8749.000	42.516	0.000	46.949	-0.000	42.516	0.000	47.011	38.118	-5.204	MWD+IFR1+MS
13000.000	90.000	179.819	8749.000	43.158	0.000	47.604	-0.000	43.158	0.000	47.660	38.143	-4.825	MWD+IFR1+MS
13100.000	90.000	179.819	8749.000	43.804	0.000	48.266	-0.000	43.804	0.000	48.318	38.168	-4.490	MWD+IFR1+MS
13200.000	90.000	179.819	8749.000	44.455	0.000	48.936	-0.000	44.455	0.000	48.983	38.193	-4.193	MWD+IFR1+MS
13300.000	90.000	179.819	8749.000	45.110	0.000	49.611	-0.000	45.110	0.000	49.655	38.218	-3.927	MWD+IFR1+MS
13400.000	90.000	179.819	8749.000	45.770	0.000	50.294	-0.000	45.770	0.000	50.333	38.243	-3.688	MWD+IFR1+MS
13500.000	90.000	179.819	8749.000	46.433	0.000	50.982	-0.000	46.433	0.000	51.019	38.269	-3.472	MWD+IFR1+MS
13600.000	90.000	179.819	8749.000	47.100	0.000	51.676	-0.000	47.100	0.000	51.710	38.294	-3.277	MWD+IFR1+MS
13700.000	90.000	179.819	8749.000	47.770	0.000	52.376	-0.000	47.770	0.000	52.407	38.320	-3.100	MWD+IFR1+MS
13800.000	90.000	179.819	8749.000	48.444	0.000	53.081	-0.000	48.444	0.000	53.110	38.346	-2.938	MWD+IFR1+MS
13900.000	90.000	179.819	8749.000	49.121	0.000	53.791	-0.000	49.121	0.000	53.819	38.372	-2.789	MWD+IFR1+MS
14000.000	90.000	179.819	8749.000	49.802	0.000	54.507	-0.000	49.802	0.000	54.532	38.398	-2.653	MWD+IFR1+MS
14100.000	90.000	179.819	8749.000	50.485	0.000	55.227	-0.000	50.485	0.000	55.250	38.425	-2.528	MWD+IFR1+MS
14200.000	90.000	179.819	8749.000	51.171	0.000	55.951	-0.000	51.171	0.000	55.974	38.452	-2.412	MWD+IFR1+MS
14300.000	90.000	179.819	8749.000	51.861	0.000	56.680	-0.000	51.861	0.000	56.701	38.479	-2.305	MWD+IFR1+MS
14400.000	90.000	179.819	8749.000	52.552	0.000	57.414	-0.000	52.552	0.000	57.433	38.507	-2.205	MWD+IFR1+MS
14500.000	90.000	179.819	8749.000	53.247	0.000	58.151	-0.000	53.247	0.000	58.170	38.535	-2.113	MWD+IFR1+MS
14600.000	90.000	179.819	8749.000	53.943	0.000	58.892	-0.000	53.943	0.000	58.910	38.564	-2.026	MWD+IFR1+MS
14700.000	90.000	179.819	8749.000	54.643	0.000	59.638	-0.000	54.643	0.000	59.654	38.593	-1.946	MWD+IFR1+MS
14800.000	90.000	179.819	8749.000	55.344	0.000	60.386	-0.000	55.344	0.000	60.402	38.622	-1.871	MWD+IFR1+MS
14900.000	90.000	179.819	8749.000	56.048	0.000	61.139	-0.000	56.048	0.000	61.153	38.652	-1.801	MWD+IFR1+MS
15000.000	90.000	179.819	8749.000	56.754	0.000	61.895	-0.000	56.754	0.000	61.908	38.682	-1.735	MWD+IFR1+MS
15100.000	90.000	179.819	8749.000	57.462	0.000	62.654	-0.000	57.462	0.000	62.667	38.712	-1.673	MWD+IFR1+MS
15200.000	90.000	179.819	8749.000	58.172	0.000	63.416	-0.000	58.172	0.000	63.428	38.743	-1.614	MWD+IFR1+MS
15300.000	90.000	179.819	8749.000	58.883	0.000	64.181	-0.000	58.883	0.000	64.193	38.775	-1.559	MWD+IFR1+MS
15400.000	90.000	179.819	8749.000	59.597	0.000	64.949	-0.000	59.597	0.000	64.960	38.806	-1.507	MWD+IFR1+MS
15500.000	90.000	179.819	8749.000	60.312	0.000	65.720	-0.000	60.312	0.000	65.731	38.839	-1.458	MWD+IFR1+MS
15600.000	90.000	179.819	8749.000	61.029	0.000	66.494	-0.000	61.029	0.000	66.504	38.871	-1.412	MWD+IFR1+MS
15700.000	90.000	179.819	8749.000	61.748	0.000	67.270	-0.000	61.748	0.000	67.279	38.904	-1.368	MWD+IFR1+MS

15800.000	90.000	179.819	8749.000	62.468	0.000	68.049	-0.000	62.468	0.000	68.058	38.938	-1.327	MWD+IFR1+MS
15900.000	90.000	179.819	8749.000	63.190	0.000	68.830	-0.000	63.190	0.000	68.839	38.972	-1.287	MWD+IFR1+MS
16000.000	90.000	179.819	8749.000	63.914	0.000	69.614	-0.000	63.914	0.000	69.622	39.006	-1.250	MWD+IFR1+MS
16100.000	90.000	179.819	8749.000	64.638	0.000	70.400	-0.000	64.638	0.000	70.408	39.041	-1.214	MWD+IFR1+MS
16200.000	90.000	179.819	8749.000	65.365	0.000	71.188	-0.000	65.365	0.000	71.195	39.076	-1.180	MWD+IFR1+MS
16300.000	90.000	179.819	8749.000	66.092	0.000	71.978	-0.000	66.092	0.000	71.985	39.112	-1.148	MWD+IFR1+MS
16400.000	90.000	179.819	8749.000	66.821	0.000	72.771	-0.000	66.821	0.000	72.777	39.148	-1.118	MWD+IFR1+MS
16500.000	90.000	179.819	8749.000	67.551	0.000	73.565	-0.000	67.551	0.000	73.572	39.184	-1.088	MWD+IFR1+MS
16600.000	90.000	179.819	8749.000	68.282	0.000	74.361	-0.000	68.282	0.000	74.368	39.221	-1.060	MWD+IFR1+MS
16700.000	90.000	179.819	8749.000	69.015	0.000	75.160	-0.000	69.015	0.000	75.166	39.259	-1.034	MWD+IFR1+MS
16800.000	90.000	179.819	8749.000	69.748	0.000	75.960	-0.000	69.748	0.000	75.965	39.297	-1.008	MWD+IFR1+MS
16900.000	90.000	179.819	8749.000	70.483	0.000	76.762	-0.000	70.483	0.000	76.767	39.335	-0.984	MWD+IFR1+MS
17000.000	90.000	179.819	8749.000	71.219	0.000	77.565	-0.000	71.219	0.000	77.570	39.374	-0.960	MWD+IFR1+MS
17100.000	90.000	179.819	8749.000	71.955	0.000	78.370	-0.000	71.955	0.000	78.375	39.413	-0.938	MWD+IFR1+MS
17200.000	90.000	179.819	8749.000	72.693	0.000	79.177	-0.000	72.693	0.000	79.182	39.452	-0.916	MWD+IFR1+MS
17300.000	90.000	179.819	8749.000	73.432	0.000	79.986	-0.000	73.432	0.000	79.990	39.492	-0.896	MWD+IFR1+MS
17400.000	90.000	179.819	8749.000	74.172	0.000	80.795	-0.000	74.172	0.000	80.800	39.533	-0.876	MWD+IFR1+MS
17500.000	90.000	179.819	8749.000	74.912	0.000	81.607	-0.000	74.912	0.000	81.611	39.574	-0.857	MWD+IFR1+MS
17600.000	90.000	179.819	8749.000	75.654	0.000	82.420	-0.000	75.654	0.000	82.424	39.615	-0.839	MWD+IFR1+MS
17700.000	90.000	179.819	8749.000	76.396	0.000	83.234	-0.000	76.396	0.000	83.238	39.657	-0.821	MWD+IFR1+MS
17800.000	90.000	179.819	8749.000	77.139	0.000	84.049	-0.000	77.139	0.000	84.053	39.699	-0.804	MWD+IFR1+MS
17900.000	90.000	179.819	8749.000	77.883	0.000	84.866	-0.000	77.883	0.000	84.870	39.741	-0.788	MWD+IFR1+MS
18000.000	90.000	179.819	8749.000	78.628	0.000	85.684	-0.000	78.628	0.000	85.688	39.784	-0.772	MWD+IFR1+MS
18100.000	90.000	179.819	8749.000	79.374	0.000	86.503	-0.000	79.374	0.000	86.507	39.828	-0.757	MWD+IFR1+MS
18200.000	90.000	179.819	8749.000	80.120	0.000	87.324	-0.000	80.120	0.000	87.327	39.872	-0.743	MWD+IFR1+MS
18300.000	90.000	179.819	8749.000	80.867	0.000	88.146	-0.000	80.867	0.000	88.149	39.916	-0.729	MWD+IFR1+MS
18400.000	90.000	179.819	8749.000	81.615	0.000	88.968	-0.000	81.615	0.000	88.972	39.961	-0.715	MWD+IFR1+MS
18500.000	90.000	179.819	8749.000	82.364	0.000	89.792	-0.000	82.364	0.000	89.795	40.006	-0.702	MWD+IFR1+MS
18600.000	90.000	179.819	8749.000	83.113	0.000	90.617	-0.000	83.113	0.000	90.620	40.051	-0.690	MWD+IFR1+MS
18700.000	90.000	179.819	8749.000	83.862	0.000	91.443	-0.000	83.862	0.000	91.446	40.097	-0.678	MWD+IFR1+MS
18800.000	90.000	179.819	8749.000	84.613	0.000	92.270	-0.000	84.613	0.000	92.273	40.144	-0.666	MWD+IFR1+MS
18900.000	90.000	179.819	8749.000	85.364	0.000	93.098	-0.000	85.364	0.000	93.101	40.191	-0.655	MWD+IFR1+MS
19000.000	90.000	179.819	8749.000	86.116	0.000	93.927	-0.000	86.116	0.000	93.930	40.238	-0.644	MWD+IFR1+MS

Well Plan Report

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19100.000	90.000	179.819	8749.000	86.868	0.000	94.757	-0.000	86.868	0.000	0.000	94.760	40.286	-0.633	MWD+IFR1+MS
19200.000	90.000	179.819	8749.000	87.621	0.000	95.588	-0.000	87.621	0.000	0.000	95.590	40.334	-0.623	MWD+IFR1+MS
19300.000	90.000	179.819	8749.000	88.374	0.000	96.420	-0.000	88.374	0.000	0.000	96.422	40.382	-0.613	MWD+IFR1+MS
19400.000	90.000	179.819	8749.000	89.128	0.000	97.252	-0.000	89.128	0.000	0.000	97.255	40.431	-0.603	MWD+IFR1+MS
19500.000	90.000	179.819	8749.000	89.882	0.000	98.086	-0.000	89.882	0.000	0.000	98.088	40.480	-0.594	MWD+IFR1+MS
19600.000	90.000	179.819	8749.000	90.637	0.000	98.920	-0.000	90.637	0.000	0.000	98.922	40.530	-0.585	MWD+IFR1+MS
19700.000	90.000	179.819	8749.000	91.393	0.000	99.755	-0.000	91.393	0.000	0.000	99.757	40.580	-0.576	MWD+IFR1+MS
19800.000	90.000	179.819	8749.000	92.149	0.000	100.591	-0.000	92.149	0.000	0.000	100.593	40.631	-0.568	MWD+IFR1+MS
19900.000	90.000	179.819	8749.000	92.905	0.000	101.428	-0.000	92.905	0.000	0.000	101.429	40.682	-0.559	MWD+IFR1+MS
20000.000	90.000	179.819	8749.000	93.662	0.000	102.265	-0.000	93.662	0.000	0.000	102.267	40.733	-0.551	MWD+IFR1+MS
20100.000	90.000	179.819	8749.000	94.419	0.000	103.103	-0.000	94.419	0.000	0.000	103.105	40.785	-0.544	MWD+IFR1+MS
20200.000	90.000	179.819	8749.000	95.177	0.000	103.942	-0.000	95.177	0.000	0.000	103.943	40.837	-0.536	MWD+IFR1+MS
20300.000	90.000	179.819	8749.000	95.935	0.000	104.781	-0.000	95.935	0.000	0.000	104.783	40.889	-0.529	MWD+IFR1+MS
20400.000	90.000	179.819	8749.000	96.694	0.000	105.621	-0.000	96.694	0.000	0.000	105.623	40.942	-0.522	MWD+IFR1+MS
20500.000	90.000	179.819	8749.000	97.453	0.000	106.462	-0.000	97.453	0.000	0.000	106.464	40.996	-0.515	MWD+IFR1+MS
20600.000	90.000	179.819	8749.000	98.212	0.000	107.303	-0.000	98.212	0.000	0.000	107.305	41.050	-0.508	MWD+IFR1+MS
20700.000	90.000	179.819	8749.000	98.972	0.000	108.145	-0.000	98.972	0.000	0.000	108.147	41.104	-0.502	MWD+IFR1+MS
20800.000	90.000	179.819	8749.000	99.733	0.000	108.988	-0.000	99.733	0.000	0.000	108.989	41.158	-0.495	MWD+IFR1+MS
20900.000	90.000	179.819	8749.000	100.493	0.000	109.831	-0.000	100.493	0.000	0.000	109.833	41.213	-0.489	MWD+IFR1+MS
21000.000	90.000	179.819	8749.000	101.254	0.000	110.675	-0.000	101.254	0.000	0.000	110.676	41.268	-0.483	MWD+IFR1+MS
21100.000	90.000	179.819	8749.000	102.016	0.000	111.520	-0.000	102.016	0.000	0.000	111.521	41.324	-0.477	MWD+IFR1+MS
21200.000	90.000	179.819	8749.000	102.777	0.000	112.365	-0.000	102.777	0.000	0.000	112.366	41.380	-0.472	MWD+IFR1+MS
21300.000	90.000	179.819	8749.000	103.539	0.000	113.210	-0.000	103.539	0.000	0.000	113.211	41.437	-0.466	MWD+IFR1+MS
21400.000	90.000	179.819	8749.000	104.302	0.000	114.056	-0.000	104.302	0.000	0.000	114.057	41.494	-0.461	MWD+IFR1+MS
21500.000	90.000	179.819	8749.000	105.064	0.000	114.903	-0.000	105.064	0.000	0.000	114.904	41.551	-0.455	MWD+IFR1+MS
21600.000	90.000	179.819	8749.000	105.827	0.000	115.750	-0.000	105.827	0.000	0.000	115.751	41.608	-0.450	MWD+IFR1+MS
21700.000	90.000	179.819	8749.000	106.591	0.000	116.597	-0.000	106.591	0.000	0.000	116.598	41.666	-0.445	MWD+IFR1+MS
21800.000	90.000	179.819	8749.000	107.354	0.000	117.445	-0.000	107.354	0.000	0.000	117.446	41.725	-0.440	MWD+IFR1+MS
21900.000	90.000	179.819	8749.000	108.118	0.000	118.294	-0.000	108.118	0.000	0.000	118.295	41.784	-0.436	MWD+IFR1+MS
22000.000	90.000	179.819	8749.000	108.883	0.000	119.143	-0.000	108.883	0.000	0.000	119.144	41.843	-0.431	MWD+IFR1+MS
22100.000	90.000	179.819	8749.000	109.647	0.000	119.992	-0.000	109.647	0.000	0.000	119.993	41.902	-0.427	MWD+IFR1+MS
22200.000	90.000	179.819	8749.000	110.412	0.000	120.842	-0.000	110.412	0.000	0.000	120.843	41.962	-0.422	MWD+IFR1+MS
22300.000	90.000	179.819	8749.000	111.177	0.000	121.693	-0.000	111.177	0.000	0.000	121.694	42.022	-0.418	MWD+IFR1+MS

Well Plan Report

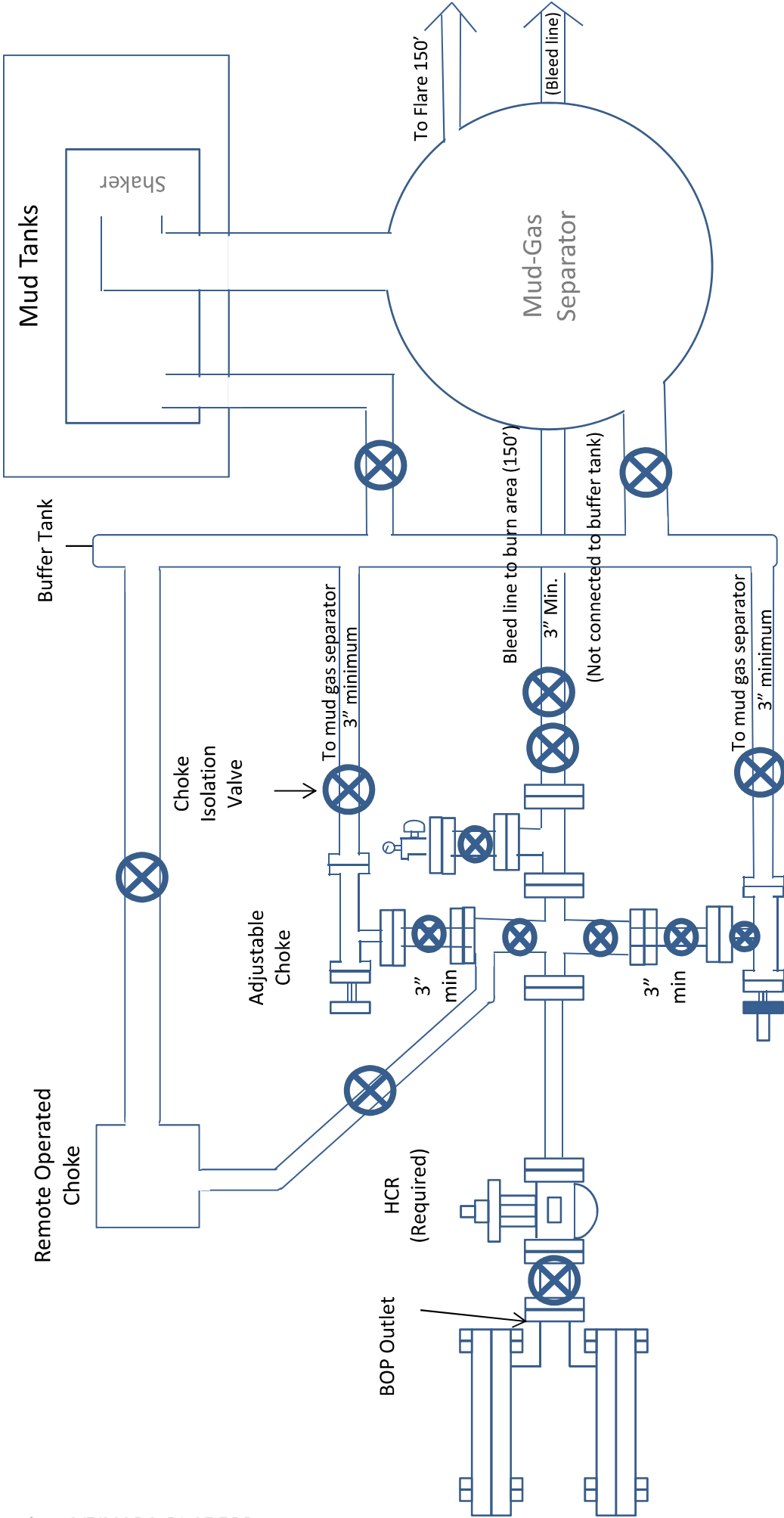
22400.000	90.000	179.819	8749.000	111.943	0.000	122.543	-0.000	111.943	0.000	0.000	122.544	42.083	-0.414	MWD+IFR1+MS
22500.000	90.000	179.819	8749.000	112.708	0.000	123.395	-0.000	112.708	0.000	0.000	123.396	42.144	-0.410	MWD+IFR1+MS
22600.000	90.000	179.819	8749.000	113.474	0.000	124.246	-0.000	113.474	0.000	0.000	124.247	42.205	-0.406	MWD+IFR1+MS
22700.000	90.000	179.819	8749.000	114.240	0.000	125.098	-0.000	114.240	0.000	0.000	125.099	42.267	-0.402	MWD+IFR1+MS
22787.131	90.000	179.819	8749.000	114.908	0.000	125.840	-0.000	114.908	0.000	0.000	125.841	42.321	-0.398	MWD+IFR1+MS
22800.000	90.000	179.819	8749.000	115.006	0.000	125.950	-0.000	115.006	0.000	0.000	125.951	42.329	-0.398	MWD+IFR1+MS
22877.132	90.000	179.819	8749.000	115.597	0.000	126.606	-0.000	115.597	0.000	0.000	126.607	42.377	-0.395	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 30 BS 409H

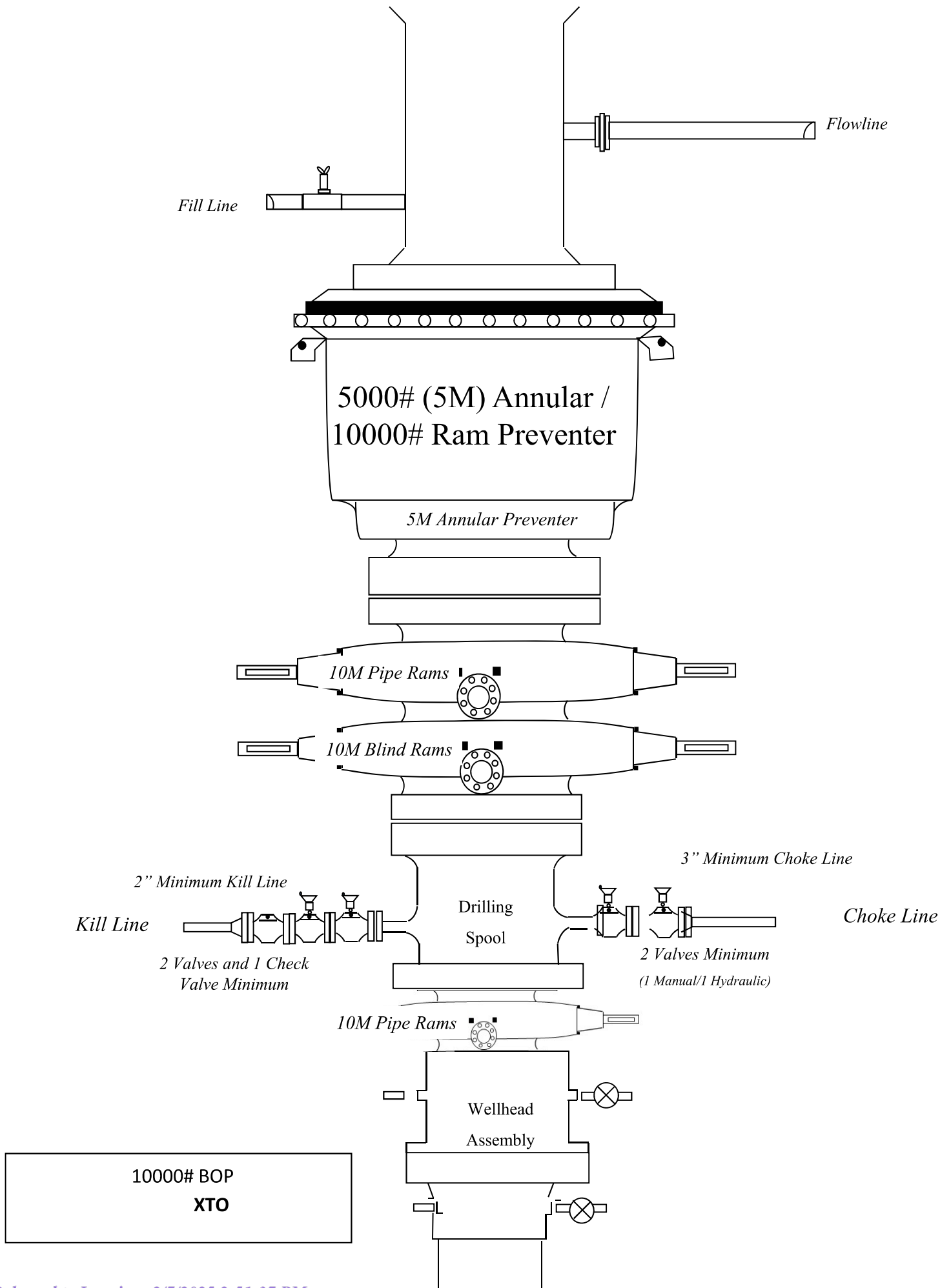
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 6	9238.96	401258.80	661880.00	5351.00	CIRCLE
LTP 6	22787.13	387710.70	661922.90	5351.00	CIRCLE
BHL 6	22877.45	387620.70	661923.50	5351.00	CIRCLE

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



TenarisHydril Wedge
461®



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		
		Body Yield Strength	641 x1000 lb
		Min. Internal Yield Pressure	12,640 psi
		SMYS	110,000 psi
		Collapse Pressure	11,100 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.300 in.	Tension Efficiency	100 %	Minimum	17,000 ft-lb
Coupling Length	7.714 in.	Joint Yield Strength	641 x1000 lb	Optimum	18,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	12,640 psi	Maximum	21,600 ft-lb
Make-up Loss	3.775 in.	Compression Efficiency	100 %		
Threads per inch	3.40	Compression Strength	641 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	92 °/100 ft	Operating Torque	39,000 ft-lb
		External Pressure Capacity	11,100 psi	Yield Torque	46,000 ft-lb
		Coupling Face Load	290,000 lb		
				Buck-On	
				Minimum	21,600 ft-lb
				Maximum	23,100 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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TenarisHydril Wedge

511



Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.	Body Yield Strength	683 x1000 lb
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft	Min. Internal Yield Pressure	6890 psi
Drift	6.750 in.	OD Tolerance	API	SMYS	80,000 psi
Nominal ID	6.875 in.			Collapse Pressure	5900 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	61.10 %	Minimum	5900 ft-lb
Connection ID	6.787 in.	Joint Yield Strength	417 x1000 lb	Optimum	7100 ft-lb
Make-up Loss	3.704 in.	Internal Pressure Capacity	6890 psi	Maximum	10,300 ft-lb
Threads per inch	3.28	Compression Efficiency	73.80 %	Operation Limit Torques	
Connection OD Option	Regular	Compression Strength	504 x1000 lb	Operating Torque	35,000 ft-lb
		Max. Allowable Bending	29.33 °/100 ft	Yield Torque	52,000 ft-lb
		External Pressure Capacity	5900 psi		

Notes

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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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:

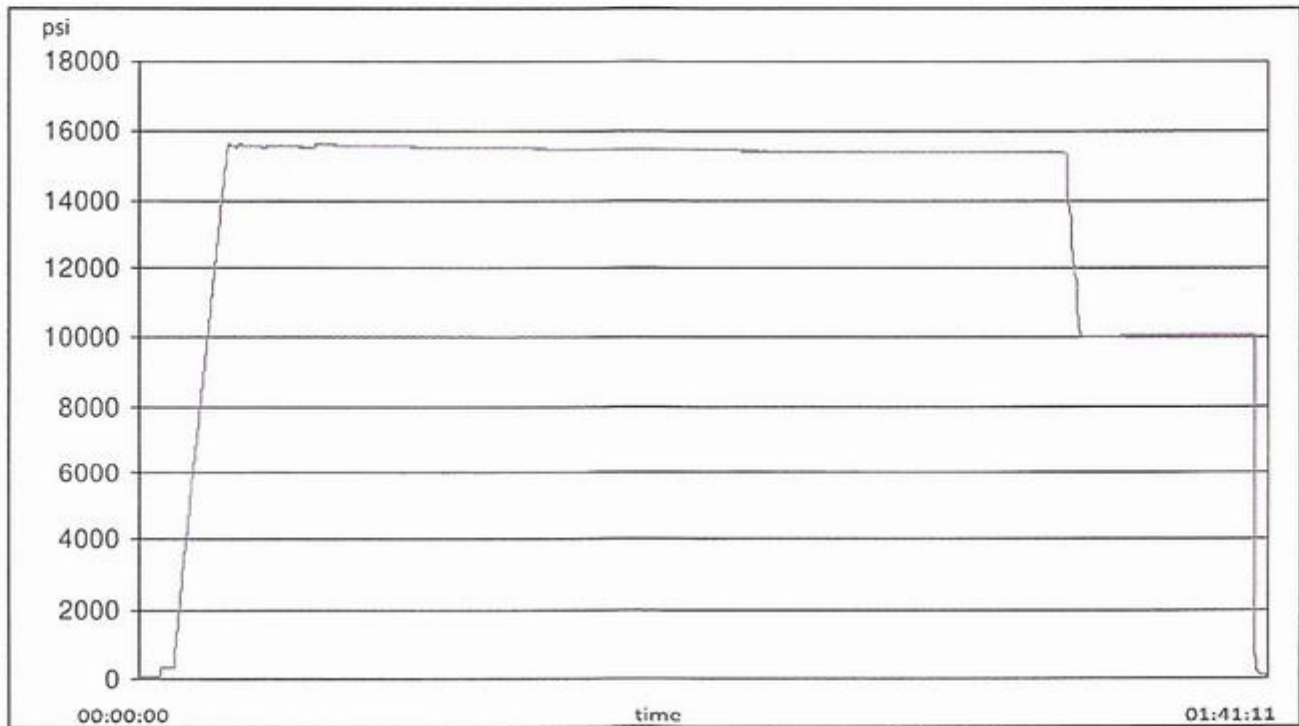
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

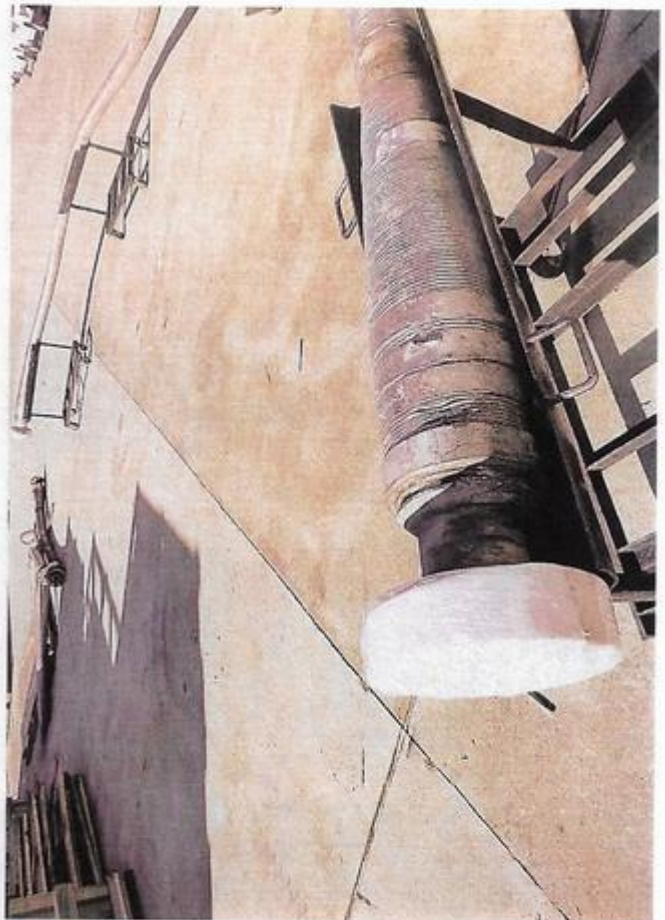
1/25/2024 11:48:06 AM

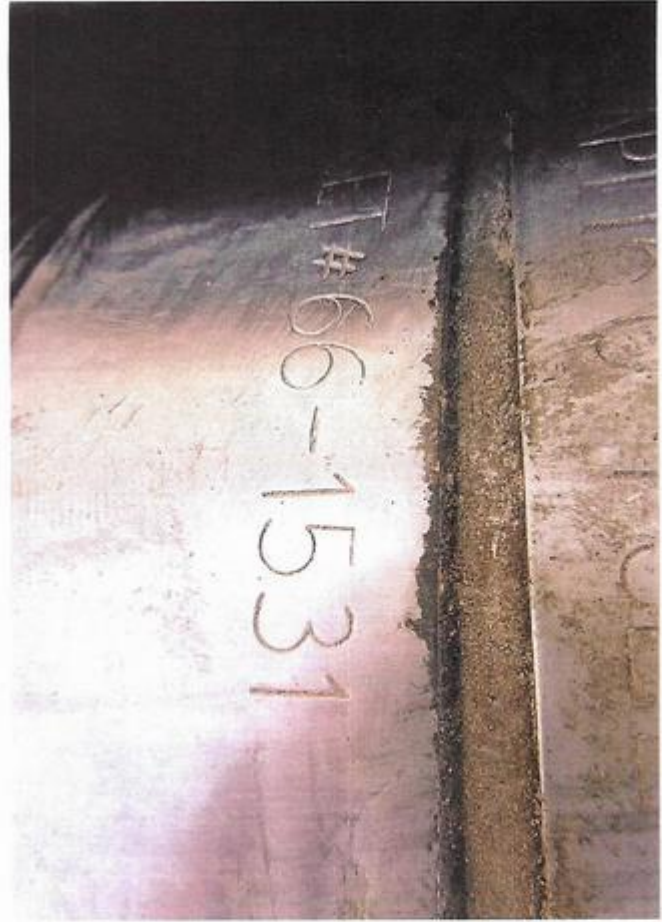
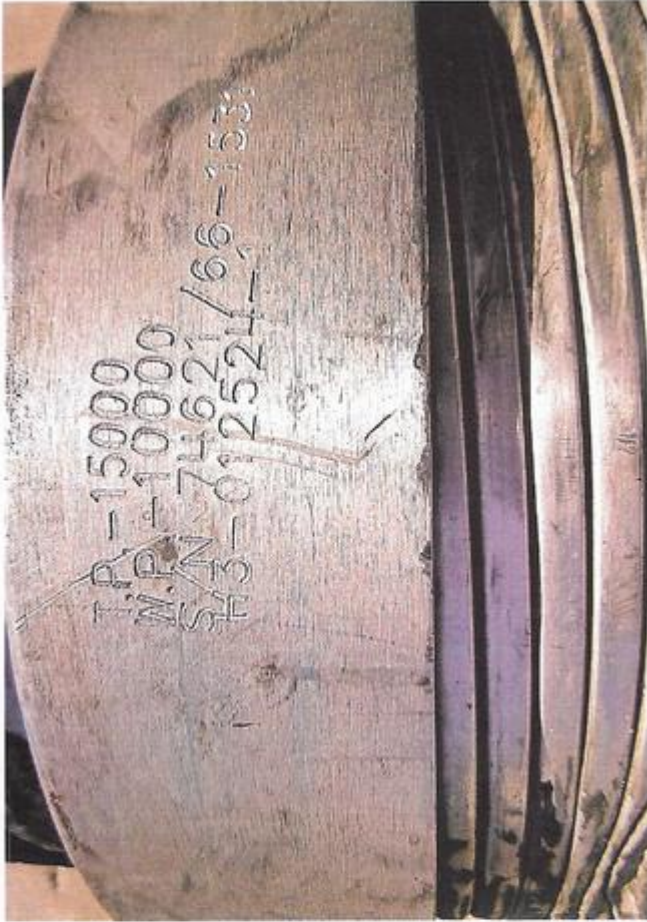
TEST REPORT

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





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.

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 427310

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 427310
	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.	2/7/2025