

Lease Number: NMLC0068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553228

Operator: XTO PERMIAN OPERATING
LLC

Notice of Intent

Sundry ID: 2784123

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024

Time Sundry Submitted: 01:12

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 SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: SHL: 396' FNL & 2186' FWL OF SECTION 21-T24S-R30E 396' FNL & 2187' FWL OF SECTION 21-T24S-R30E FTP: 387' FNL & 2092' FWL OF SECTION 21-T24S-R30E 100' FNL & 2373' FWL OF SECTION 21-T24S-R30E LTP: 330' FNL & 2171' FWL OF SECTION 33-T23S-R30E 2540' FNL & 2373' FWL OF SECTION 33-T24S-R30E BHL: 200' FNL & 2171' FWL OF SECTION 33-T23S-R30E 2630' FNL & 2373' FWL OF SECTION 33-T24S-R30E The proposed total depth is changing from 32609' MD; 10918' TVD (Wolfcamp) to 24545' MD; 11752' TVD (Wolfcamp C). A saturated salt brine will be utilized while drilling through the salt formations. See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance, Well Control Plan, 5M choke manifold, & a BOP diagram with 3 rams rated 10M each.

NOI Attachments

Procedure Description

PLU_21_DTD_103H_Sundry_Attachments_20240816114818.pdf

US Well Number: 3001553228

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

Poker_Lake_Unit_21_DTD_103H_COA_20240905084700.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 11:48 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:** 09/09/2024**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/103H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 3001553228
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 recompletion 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 SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool).

FROM: TO:
SHL: 396' FNL & 2186' FWL OF SECTION 21-T24S-R30E 396' FNL & 2187' FWL OF SECTION 21-T24S-R30E
FTP: 387' FNL & 2092' FWL OF SECTION 21-T24S-R30E 100' FNL & 2373' FWL OF SECTION 21-T24S-R30E
LTP: 330' FNL & 2171' FWL OF SECTION 33-T23S-R30E 2540' FNL & 2373' FWL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 2171' FWL OF SECTION 33-T23S-R30E 2630' FNL & 2373' FWL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 32609 MD; 10918 TVD (Wolfcamp) to 24545 MD; 11752 TVD (Wolfcamp C).

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
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, Well Control Plan, 5M choke manifold, & a BOP diagram with 3 rams rated 10M each.

Location of Well

0. SHL: NENW / 396 FNL / 2186 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209384 / LONG: -103.887816 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 396 FNL / 2092 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209407 / LONG: -103.88812 (TVD: 10918 feet, MD: 11265 feet)

BHL: NENW / 200 FNL / 2171 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.26808 / LONG: -103.88786 (TVD: 10918 feet, MD: 32609 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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 103H SURFACE HOLE FOOTAGE: 396'/N & 2187'/W BOTTOM HOLE FOOTAGE: 2630'/N & 2373'/W

Changes approved through engineering via **Sundry 2784123** on 9-5-2024 ___. 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 **932** 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 6265'**
- 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 **Intermediate 1 X Intermediate 2** 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 2 casing to tieback requirements listed above after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

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

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

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

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

Offline Cementing

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

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

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for 2nd 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 9/5/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 53228	² Pool Code 98220	³ Pool Name PURPLE SAGE;WOLFCAMP (GAS)
⁴ Property Code 333571	⁵ Property Name POKER LAKE UNIT 21 DTD	⁶ Well Number 103H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,343'

¹⁰ Surface Location

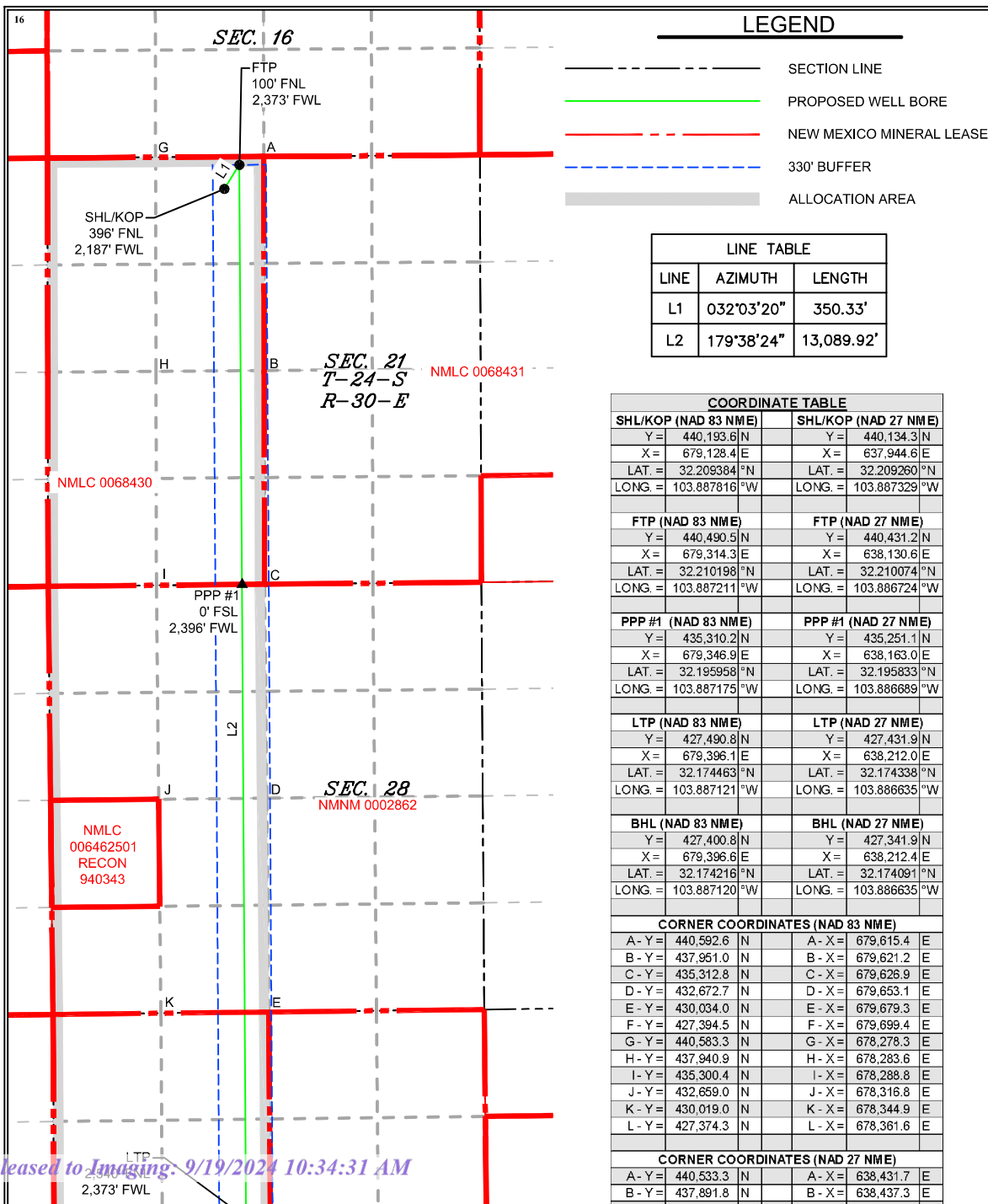
UL or lot no. C	Section 21	Township 24S	Range 30E	Lot Idn	Feet from the 396	North/South line NORTH	Feet from the 2,187	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. F	Section 33	Township 24S	Range 30E	Lot Idn	Feet from the 2,630	North/South line NORTH	Feet from the 2,373	East/West line WEST	County EDDY
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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.



LEGEND

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

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	032°03'20"	350.33'
L2	179°38'24"	13,089.92'

COORDINATE TABLE

SHL/KOP (NAD 83 NME)	SHL/KOP (NAD 27 NME)
Y = 440,193.6 N	Y = 440,134.3 N
X = 679,128.4 E	X = 637,944.6 E
LAT. = 32.209384° N	LAT. = 32.209260° N
LONG. = 103.887816° W	LONG. = 103.887329° W
FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y = 440,490.5 N	Y = 440,431.2 N
X = 679,314.3 E	X = 638,130.6 E
LAT. = 32.210198° N	LAT. = 32.210074° N
LONG. = 103.887211° W	LONG. = 103.886724° W
PPP #1 (NAD 83 NME)	PPP #1 (NAD 27 NME)
Y = 435,310.2 N	Y = 435,251.1 N
X = 679,346.9 E	X = 638,163.0 E
LAT. = 32.195958° N	LAT. = 32.195833° N
LONG. = 103.887175° W	LONG. = 103.886689° W
LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y = 427,490.8 N	Y = 427,431.9 N
X = 679,396.1 E	X = 638,212.0 E
LAT. = 32.174463° N	LAT. = 32.174338° N
LONG. = 103.887121° W	LONG. = 103.886635° W
BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y = 427,400.8 N	Y = 427,341.9 N
X = 679,396.6 E	X = 638,212.4 E
LAT. = 32.174216° N	LAT. = 32.174091° N
LONG. = 103.887120° W	LONG. = 103.886635° W
CORNER COORDINATES (NAD 83 NME)	
A - Y = 440,592.6 N	A - X = 679,615.4 E
B - Y = 437,951.0 N	B - X = 679,621.2 E
C - Y = 435,312.8 N	C - X = 679,626.9 E
D - Y = 432,672.7 N	D - X = 679,653.1 E
E - Y = 430,034.0 N	E - X = 679,679.3 E
F - Y = 427,394.5 N	F - X = 679,699.4 E
G - Y = 440,583.3 N	G - X = 678,278.3 E
H - Y = 437,940.9 N	H - X = 678,283.6 E
I - Y = 435,300.4 N	I - X = 678,288.8 E
J - Y = 432,659.0 N	J - X = 678,316.8 E
K - Y = 430,019.0 N	K - X = 678,344.9 E
L - Y = 427,374.3 N	L - X = 678,361.6 E
CORNER COORDINATES (NAD 27 NME)	
A - Y = 440,533.3 N	A - X = 638,431.7 E
B - Y = 437,891.8 N	B - X = 638,437.3 E

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 103H

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 2,373	From E/W WEST	County EDDY
Latitude 32.210198					Longitude -103.887211				NAD 83

Last Take Point (LTP)

UL F	Section 33	Township 24S	Range 30E	Lot	Feet 2,540	From N/S NORTH	Feet 2,373	From E/W WEST	County EDDY
Latitude 32.174463					Longitude -103.887121				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 103H
Projected TD: 24545' MD / 11752' TVD
SHL: 396' FNL & 2187' FWL , Section 21, T24S, R30E
BHL: 2630' FNL & 2373' 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	930'	Water
Top of Salt	1333'	Water
Base of Salt	3526'	Water
Delaware	3720'	Water
Brushy Canyon	6266'	Water/Oil/Gas
Bone Spring	7590'	Water
Avalon	8283'	Water/Oil/Gas
1st Bone Spring	8299'	Water/Oil/Gas
2nd Bone Spring	8884'	Water/Oil/Gas
3rd Bone Spring	9710'	Water/Oil/Gas
Wolfcamp	10895'	Water/Oil/Gas
Wolfcamp X	10916'	Water/Oil/Gas
Wolfcamp Y	10997'	Water/Oil/Gas
Wolfcamp A	11044'	Water/Oil/Gas
Wolfcamp B	11427'	Water/Oil/Gas
Wolfcamp C	11632'	Water/Oil/Gas
Target/Land Curve	11752'	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 13.375 inch casing @ 1030' (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 9.625 inch casing at 10847' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 24545 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10547 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 1030'	13.375	54.5	J-55	BTC	New	1.06	2.51	16.19
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	1.78	2.31	2.92
12.25	4000' – 10847'	9.625	40	HC L-80	BTC	New	1.29	1.61	3.34
8.5	0' – 10747'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.73	1.94
8.5	10747' - 24545'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.58	1.94

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

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

· 9.625 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: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 1030'

Lead: 540 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 300 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: 9.625, 40 New casing to be set at +/- 10847'

1st Stage

Optional Lead: 1060 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 1320 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6266

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: 2210 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 (6266') 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-Premium, RY P-110 casing to be set at +/- 24545'

Lead: 50 sxs NeoCem (mixed at 13.2 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10547 feet

Tail: 2660 sxs VersaCem (mixed at 14.5 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 11047 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 13.375, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 9.625, 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' - 1030'	17.5	FW/Native	8.5-9	35-40	NC	Fresh water or native water
1030' - 10847'	12.25	Saturated brine for salt interval / Direct emulsion	10-10.5	30-32	NC	Fully saturated salt across salado / salt
10847' - 24545'	8.5	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 13.375 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 180 to 200 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 7028 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 103H

Measured Depth:

24545.35 ft

TVD RKB:

11752.00 ft

Location

New Mexico East -
NAD 27

Cartographic
Reference System:

440134.30 ft

Northing:

637944.60 ft

Easting:

3375.00 ft

RKB:

3343.00 ft

Ground Level:

Grid

North Reference:

0.24 Deg

Convergence Angle:

Plan SectionsPoker Lake Unit 21 DTD South 103H

Measured	TVD				Build		Turn		Dogleg	
	Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)
0.00	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	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1285.10	3.70	32.07	1284.97	1284.97	5.07	3.17	2.00	0.00	2.00	2.00
6526.09	3.70	32.07	6515.03	6515.03	291.83	182.83	0.00	0.00	0.00	0.00
6711.19	0.00	0.00	6700.00	6700.00	296.90	186.00	-2.00	0.00	2.00	2.00
11046.99	0.00	0.00	11035.80	11035.80	296.90	186.00	0.00	0.00	0.00	0.00
12171.99	90.00	179.64	11752.00	11752.00	-419.28	190.49	8.00	0.00	8.00	8.00
24455.33	90.00	179.64	11752.00	11752.00	-12702.38	267.45	0.00	0.00	0.00	LTP 16
24545.35	90.00	179.64	11752.00	11752.00	-12792.40	268.02	0.00	0.00	0.00	BHL 16

Position UncertaintyPoker Lake Unit 21 DTD South 103H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (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	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	0.000	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	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	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	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	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	2.406	0.000	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	2.443	0.000	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	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	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	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	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	32.066	1199.980	5.278	0.000	4.234	0.000	2.690	0.000	0.000	5.300	4.209	130.340	MWD+IFR1+MS
1285.100	3.702	32.066	1284.971	5.815	0.000	4.557	0.000	2.740	0.000	0.000	5.858	4.514	131.675	MWD+IFR1+MS
1300.000	3.702	32.066	1299.840	5.859	0.000	4.609	0.000	2.748	0.000	0.000	5.902	4.567	131.637	MWD+IFR1+MS
1400.000	3.702	32.066	1399.631	6.153	0.000	4.970	0.000	2.811	0.000	0.000	6.194	4.929	131.805	MWD+IFR1+MS
1500.000	3.702	32.066	1499.423	6.472	0.000	5.353	0.000	2.876	0.000	0.000	6.519	5.306	132.875	MWD+IFR1+MS
1600.000	3.702	32.066	1599.214	6.795	0.000	5.734	0.000	2.944	0.000	0.000	6.848	5.680	133.901	MWD+IFR1+MS
1700.000	3.702	32.066	1699.005	7.122	0.000	6.112	0.000	3.015	0.000	0.000	7.180	6.051	134.882	MWD+IFR1+MS
1800.000	3.702	32.066	1798.797	7.452	0.000	6.488	0.000	3.088	0.000	0.000	7.516	6.421	-44.182	MWD+IFR1+MS
1900.000	3.702	32.066	1898.588	7.785	0.000	6.862	0.000	3.163	0.000	0.000	7.854	6.788	-43.291	MWD+IFR1+MS
2000.000	3.702	32.066	1998.380	8.121	0.000	7.234	0.000	3.239	0.000	0.000	8.195	7.155	-42.442	MWD+IFR1+MS
2100.000	3.702	32.066	2098.171	8.458	0.000	7.605	0.000	3.318	0.000	0.000	8.538	7.520	-41.636	MWD+IFR1+MS
2200.000	3.702	32.066	2197.962	8.798	0.000	7.975	0.000	3.398	0.000	0.000	8.882	7.884	-40.870	MWD+IFR1+MS
2300.000	3.702	32.066	2297.754	9.139	0.000	8.344	0.000	3.480	0.000	0.000	9.228	8.248	-40.144	MWD+IFR1+MS
2400.000	3.702	32.066	2397.545	9.481	0.000	8.713	0.000	3.563	0.000	0.000	9.575	8.611	-39.455	MWD+IFR1+MS
2500.000	3.702	32.066	2497.336	9.825	0.000	9.080	0.000	3.648	0.000	0.000	9.924	8.973	-38.802	MWD+IFR1+MS
2600.000	3.702	32.066	2597.128	10.171	0.000	9.447	0.000	3.734	0.000	0.000	10.273	9.335	-38.183	MWD+IFR1+MS
2700.000	3.702	32.066	2696.919	10.517	0.000	9.813	0.000	3.822	0.000	0.000	10.624	9.697	-37.597	MWD+IFR1+MS
2800.000	3.702	32.066	2796.710	10.864	0.000	10.179	0.000	3.911	0.000	0.000	10.975	10.058	-37.041	MWD+IFR1+MS
2900.000	3.702	32.066	2896.502	11.212	0.000	10.545	0.000	4.002	0.000	0.000	11.327	10.419	-36.514	MWD+IFR1+MS

Well Plan Report

3/20/24, 9:53 AM	3000.000	3.702	32.066	2996.293	11.561	0.000	10.909	0.000	4.093	0.000	0.000	11.679	10.780	-36.015	MWD+IFR1+MS
	3100.000	3.702	32.066	3096.084	11.911	0.000	11.274	0.000	4.187	0.000	0.000	12.032	11.140	-35.542	MWD+IFR1+MS
	3200.000	3.702	32.066	3195.876	12.261	0.000	11.638	0.000	4.281	0.000	0.000	12.386	11.501	-35.094	MWD+IFR1+MS
	3300.000	3.702	32.066	3295.667	12.612	0.000	12.002	0.000	4.377	0.000	0.000	12.740	11.861	-34.669	MWD+IFR1+MS
	3400.000	3.702	32.066	3395.458	12.964	0.000	12.366	0.000	4.474	0.000	0.000	13.095	12.221	-34.266	MWD+IFR1+MS
	3500.000	3.702	32.066	3495.250	13.316	0.000	12.729	0.000	4.573	0.000	0.000	13.450	12.581	-33.884	MWD+IFR1+MS
	3600.000	3.702	32.066	3595.041	13.669	0.000	13.092	0.000	4.673	0.000	0.000	13.805	12.941	-33.521	MWD+IFR1+MS
	3700.000	3.702	32.066	3694.832	14.022	0.000	13.455	0.000	4.775	0.000	0.000	14.160	13.301	-33.177	MWD+IFR1+MS
	3800.000	3.702	32.066	3794.624	14.375	0.000	13.818	0.000	4.877	0.000	0.000	14.516	13.660	-32.850	MWD+IFR1+MS
	3900.000	3.702	32.066	3894.415	14.729	0.000	14.181	0.000	4.982	0.000	0.000	14.872	14.020	-32.540	MWD+IFR1+MS
	4000.000	3.702	32.066	3994.206	15.083	0.000	14.543	0.000	5.088	0.000	0.000	15.229	14.380	-32.245	MWD+IFR1+MS
	4100.000	3.702	32.066	4093.998	15.438	0.000	14.905	0.000	5.195	0.000	0.000	15.585	14.739	-31.965	MWD+IFR1+MS
	4200.000	3.702	32.066	4193.789	15.792	0.000	15.267	0.000	5.304	0.000	0.000	15.942	15.099	-31.699	MWD+IFR1+MS
	4300.000	3.702	32.066	4293.580	16.148	0.000	15.629	0.000	5.414	0.000	0.000	16.299	15.458	-31.447	MWD+IFR1+MS
	4400.000	3.702	32.066	4393.372	16.503	0.000	15.991	0.000	5.527	0.000	0.000	16.656	15.818	-31.206	MWD+IFR1+MS
	4500.000	3.702	32.066	4493.163	16.859	0.000	16.353	0.000	5.640	0.000	0.000	17.013	16.178	-30.978	MWD+IFR1+MS
	4600.000	3.702	32.066	4592.954	17.214	0.000	16.714	0.000	5.756	0.000	0.000	17.370	16.537	-30.760	MWD+IFR1+MS
	4700.000	3.702	32.066	4692.746	17.571	0.000	17.076	0.000	5.873	0.000	0.000	17.728	16.897	-30.554	MWD+IFR1+MS
	4800.000	3.702	32.066	4792.537	17.927	0.000	17.437	0.000	5.992	0.000	0.000	18.086	17.256	-30.357	MWD+IFR1+MS
	4900.000	3.702	32.066	4892.328	18.283	0.000	17.798	0.000	6.113	0.000	0.000	18.443	17.616	-30.170	MWD+IFR1+MS
	5000.000	3.702	32.066	4992.120	18.640	0.000	18.160	0.000	6.235	0.000	0.000	18.801	17.975	-29.992	MWD+IFR1+MS
	5100.000	3.702	32.066	5091.911	18.997	0.000	18.521	0.000	6.360	0.000	0.000	19.159	18.335	-29.823	MWD+IFR1+MS
	5200.000	3.702	32.066	5191.702	19.354	0.000	18.882	0.000	6.486	0.000	0.000	19.517	18.694	-29.662	MWD+IFR1+MS
	5300.000	3.702	32.066	5291.494	19.711	0.000	19.243	0.000	6.614	0.000	0.000	19.875	19.054	-29.509	MWD+IFR1+MS
	5400.000	3.702	32.066	5391.285	20.069	0.000	19.604	0.000	6.744	0.000	0.000	20.233	19.413	-29.364	MWD+IFR1+MS
	5500.000	3.702	32.066	5491.076	20.426	0.000	19.965	0.000	6.877	0.000	0.000	20.592	19.773	-29.225	MWD+IFR1+MS
	5600.000	3.702	32.066	5590.868	20.784	0.000	20.325	0.000	7.011	0.000	0.000	20.950	20.132	-29.093	MWD+IFR1+MS
	5700.000	3.702	32.066	5690.659	21.142	0.000	20.686	0.000	7.147	0.000	0.000	21.308	20.492	-28.968	MWD+IFR1+MS
	5800.000	3.702	32.066	5790.450	21.500	0.000	21.047	0.000	7.286	0.000	0.000	21.667	20.851	-28.849	MWD+IFR1+MS
	5900.000	3.702	32.066	5890.242	21.858	0.000	21.407	0.000	7.426	0.000	0.000	22.025	21.211	-28.736	MWD+IFR1+MS
	6000.000	3.702	32.066	5990.033	22.216	0.000	21.768	0.000	7.569	0.000	0.000	22.384	21.570	-28.629	MWD+IFR1+MS
	6100.000	3.702	32.066	6089.824	22.574	0.000	22.128	0.000	7.714	0.000	0.000	22.743	21.930	-28.527	MWD+IFR1+MS
	6200.000	3.702	32.066	6189.616	22.932	0.000	22.489	0.000	7.861	0.000	0.000	23.101	22.289	-28.430	MWD+IFR1+MS

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6300.000	3.702	32.066	6289.407	23.291	0.000	22.849	0.000	8.011	0.000	0.000	23.460	22.649	-28.338	MWD+IFR1+MS
6400.000	3.702	32.066	6389.198	23.649	0.000	23.210	0.000	8.162	0.000	0.000	23.819	23.008	-28.251	MWD+IFR1+MS
6500.000	3.702	32.066	6488.990	24.008	0.000	23.570	0.000	8.316	0.000	0.000	24.178	23.368	-28.169	MWD+IFR1+MS
6526.094	3.702	32.066	6515.029	24.100	0.000	23.662	0.000	8.357	0.000	0.000	24.268	23.462	-28.212	MWD+IFR1+MS
6600.000	2.224	32.066	6588.834	24.368	0.000	23.924	0.000	8.473	0.000	0.000	24.533	23.727	-28.500	MWD+IFR1+MS
6700.000	0.224	32.066	6688.807	24.776	0.000	24.281	0.000	8.630	0.000	0.000	24.959	24.088	-30.099	MWD+IFR1+MS
6711.194	0.000	0.000	6700.000	24.350	0.000	24.781	0.000	8.648	0.000	0.000	24.997	24.128	-30.119	MWD+IFR1+MS
6800.000	0.000	0.000	6788.806	24.664	0.000	25.086	0.000	8.789	0.000	0.000	25.302	24.442	-30.309	MWD+IFR1+MS
6900.000	0.000	0.000	6888.806	25.022	0.000	25.434	0.000	8.949	0.000	0.000	25.653	24.797	-30.625	MWD+IFR1+MS
7000.000	0.000	0.000	6988.806	25.381	0.000	25.783	0.000	9.113	0.000	0.000	26.007	25.152	-30.960	MWD+IFR1+MS
7100.000	0.000	0.000	7088.806	25.739	0.000	26.133	0.000	9.278	0.000	0.000	26.360	25.506	-31.286	MWD+IFR1+MS
7200.000	0.000	0.000	7188.806	26.098	0.000	26.482	0.000	9.447	0.000	0.000	26.714	25.861	-31.604	MWD+IFR1+MS
7300.000	0.000	0.000	7288.806	26.457	0.000	26.832	0.000	9.618	0.000	0.000	27.067	26.216	-31.915	MWD+IFR1+MS
7400.000	0.000	0.000	7388.806	26.815	0.000	27.182	0.000	9.791	0.000	0.000	27.421	26.571	-32.218	MWD+IFR1+MS
7500.000	0.000	0.000	7488.806	27.174	0.000	27.533	0.000	9.968	0.000	0.000	27.775	26.926	-32.515	MWD+IFR1+MS
7600.000	0.000	0.000	7588.806	27.533	0.000	27.883	0.000	10.147	0.000	0.000	28.130	27.281	-32.804	MWD+IFR1+MS
7700.000	0.000	0.000	7688.806	27.891	0.000	28.234	0.000	10.328	0.000	0.000	28.484	27.636	-33.086	MWD+IFR1+MS
7800.000	0.000	0.000	7788.806	28.250	0.000	28.585	0.000	10.513	0.000	0.000	28.839	27.991	-33.362	MWD+IFR1+MS
7900.000	0.000	0.000	7888.806	28.609	0.000	28.936	0.000	10.700	0.000	0.000	29.193	28.346	-33.631	MWD+IFR1+MS
8000.000	0.000	0.000	7988.806	28.967	0.000	29.287	0.000	10.889	0.000	0.000	29.548	28.701	-33.894	MWD+IFR1+MS
8100.000	0.000	0.000	8088.806	29.326	0.000	29.639	0.000	11.082	0.000	0.000	29.903	29.057	-34.151	MWD+IFR1+MS
8200.000	0.000	0.000	8188.806	29.685	0.000	29.991	0.000	11.277	0.000	0.000	30.258	29.412	-34.402	MWD+IFR1+MS
8300.000	0.000	0.000	8288.806	30.043	0.000	30.342	0.000	11.476	0.000	0.000	30.613	29.767	-34.647	MWD+IFR1+MS
8400.000	0.000	0.000	8388.806	30.402	0.000	30.694	0.000	11.676	0.000	0.000	30.968	30.123	-34.886	MWD+IFR1+MS
8500.000	0.000	0.000	8488.806	30.761	0.000	31.046	0.000	11.880	0.000	0.000	31.324	30.478	-35.120	MWD+IFR1+MS
8600.000	0.000	0.000	8588.806	31.119	0.000	31.399	0.000	12.087	0.000	0.000	31.679	30.834	-35.349	MWD+IFR1+MS
8700.000	0.000	0.000	8688.806	31.478	0.000	31.751	0.000	12.296	0.000	0.000	32.035	31.189	-35.573	MWD+IFR1+MS
8800.000	0.000	0.000	8788.806	31.836	0.000	32.104	0.000	12.509	0.000	0.000	32.390	31.545	-35.791	MWD+IFR1+MS
8900.000	0.000	0.000	8888.806	32.195	0.000	32.456	0.000	12.724	0.000	0.000	32.746	31.900	-36.005	MWD+IFR1+MS
9000.000	0.000	0.000	8988.806	32.554	0.000	32.809	0.000	12.942	0.000	0.000	33.102	32.256	-36.214	MWD+IFR1+MS
9100.000	0.000	0.000	9088.806	32.912	0.000	33.162	0.000	13.163	0.000	0.000	33.458	32.612	-36.418	MWD+IFR1+MS
9200.000	0.000	0.000	9188.806	33.271	0.000	33.515	0.000	13.387	0.000	0.000	33.814	32.967	-36.618	MWD+IFR1+MS
9300.000	0.000	0.000	9288.806	33.629	0.000	33.868	0.000	13.613	0.000	0.000	34.170	33.323	-36.814	MWD+IFR1+MS

9400.000	0.000	0.000	9388.806	33.988	0.000	34.221	0.000	13.843	0.000	0.000	34.526	33.679	-37.005	MWD+IFR1+MS
9500.000	0.000	0.000	9488.806	34.347	0.000	34.575	0.000	14.076	0.000	0.000	34.882	34.035	-37.192	MWD+IFR1+MS
9600.000	0.000	0.000	9588.806	34.705	0.000	34.928	0.000	14.311	0.000	0.000	35.238	34.390	-37.376	MWD+IFR1+MS
9700.000	0.000	0.000	9688.806	35.064	0.000	35.282	0.000	14.550	0.000	0.000	35.595	34.746	-37.555	MWD+IFR1+MS
9800.000	0.000	0.000	9788.806	35.422	0.000	35.635	0.000	14.791	0.000	0.000	35.951	35.102	-37.731	MWD+IFR1+MS
9900.000	0.000	0.000	9888.806	35.781	0.000	35.989	0.000	15.036	0.000	0.000	36.307	35.458	-37.903	MWD+IFR1+MS
10000.000	0.000	0.000	9988.806	36.140	0.000	36.343	0.000	15.283	0.000	0.000	36.664	35.814	-38.071	MWD+IFR1+MS
10100.000	0.000	0.000	10088.806	36.498	0.000	36.697	0.000	15.533	0.000	0.000	37.020	36.170	-38.236	MWD+IFR1+MS
10200.000	0.000	0.000	10188.806	36.857	0.000	37.051	0.000	15.787	0.000	0.000	37.377	36.526	-38.398	MWD+IFR1+MS
10300.000	0.000	0.000	10288.806	37.215	0.000	37.405	0.000	16.043	0.000	0.000	37.733	36.882	-38.556	MWD+IFR1+MS
10400.000	0.000	0.000	10388.806	37.574	0.000	37.759	0.000	16.302	0.000	0.000	38.090	37.239	-38.711	MWD+IFR1+MS
10500.000	0.000	0.000	10488.806	37.932	0.000	38.114	0.000	16.564	0.000	0.000	38.447	37.595	-38.863	MWD+IFR1+MS
10600.000	0.000	0.000	10588.806	38.291	0.000	38.468	0.000	16.830	0.000	0.000	38.804	37.951	-39.012	MWD+IFR1+MS
10700.000	0.000	0.000	10688.806	38.650	0.000	38.822	0.000	17.098	0.000	0.000	39.160	38.307	-39.159	MWD+IFR1+MS
10800.000	0.000	0.000	10788.806	39.008	0.000	39.177	0.000	17.369	0.000	0.000	39.517	38.663	-39.302	MWD+IFR1+MS
10900.000	0.000	0.000	10888.806	39.367	0.000	39.531	0.000	17.644	0.000	0.000	39.874	39.020	-39.442	MWD+IFR1+MS
11000.000	0.000	0.000	10988.806	39.725	0.000	39.886	0.000	17.921	0.000	0.000	40.231	39.376	-39.580	MWD+IFR1+MS
11046.994	0.000	0.000	11035.800	39.892	0.000	40.051	0.000	18.052	0.000	0.000	40.396	39.543	-39.624	MWD+IFR1+MS
11100.000	4.241	179.641	11088.758	39.929	0.000	40.232	-0.000	18.201	0.000	0.000	40.578	39.733	-40.279	MWD+IFR1+MS
11200.000	12.241	179.641	11187.645	40.112	0.000	40.542	-0.000	18.511	0.000	0.000	41.270	40.264	121.208	MWD+IFR1+MS
11300.000	20.241	179.641	11283.577	40.136	0.000	40.839	-0.000	18.948	0.000	0.000	42.396	40.672	107.572	MWD+IFR1+MS
11400.000	28.241	179.641	11374.686	39.597	0.000	41.117	-0.000	19.560	0.000	0.000	43.453	40.981	103.036	MWD+IFR1+MS
11500.000	36.241	179.641	11459.199	38.565	0.000	41.374	-0.000	20.383	0.000	0.000	44.361	41.247	101.085	MWD+IFR1+MS
11600.000	44.241	179.641	11535.471	37.141	0.000	41.607	-0.000	21.426	0.000	0.000	45.096	41.481	100.172	MWD+IFR1+MS
11700.000	52.241	179.641	11602.017	35.459	0.000	41.814	-0.000	22.674	0.000	0.000	45.657	41.685	99.794	MWD+IFR1+MS
11800.000	60.241	179.641	11657.543	33.688	0.000	41.995	-0.000	24.090	0.000	0.000	46.053	41.859	99.744	MWD+IFR1+MS
11900.000	68.241	179.641	11700.967	32.037	0.000	42.147	-0.000	25.627	0.000	0.000	46.304	42.004	99.909	MWD+IFR1+MS
12000.000	76.241	179.641	11731.444	30.742	0.000	42.271	-0.000	27.232	0.000	0.000	46.438	42.118	100.209	MWD+IFR1+MS
12100.000	84.241	179.641	11748.382	30.034	0.000	42.364	-0.000	28.849	0.000	0.000	46.493	42.203	100.555	MWD+IFR1+MS
12171.994	90.000	179.641	11751.997	29.504	0.000	42.411	-0.000	29.504	0.000	0.000	46.505	42.245	100.758	MWD+IFR1+MS
12200.000	90.000	179.641	11751.997	29.555	0.000	42.425	-0.000	29.555	0.000	0.000	46.508	42.257	100.827	MWD+IFR1+MS
12300.000	90.000	179.641	11751.997	29.695	0.000	42.489	-0.000	29.695	0.000	0.000	46.519	42.315	101.111	MWD+IFR1+MS
12400.000	90.000	179.641	11751.997	29.859	0.000	42.570	-0.000	29.859	0.000	0.000	46.532	42.388	101.441	MWD+IFR1+MS

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	12600.000	90.000	179.641	11751.997	30.245	0.000	42.771	-0.000	30.245	0.000	46.562	42.573	102.244	MWD+IFR1+MS
	12700.000	90.000	179.641	11751.997	30.467	0.000	42.892	-0.000	30.467	0.000	46.579	42.684	102.728	MWD+IFR1+MS
	12800.000	90.000	179.641	11751.997	30.707	0.000	43.026	-0.000	30.707	0.000	46.599	42.807	103.277	MWD+IFR1+MS
	12900.000	90.000	179.641	11751.997	30.965	0.000	43.173	-0.000	30.965	0.000	46.620	42.941	103.901	MWD+IFR1+MS
	13000.000	90.000	179.641	11751.997	31.240	0.000	43.334	-0.000	31.240	0.000	46.643	43.087	104.612	MWD+IFR1+MS
	13100.000	90.000	179.641	11751.997	31.533	0.000	43.507	-0.000	31.533	0.000	46.670	43.244	105.424	MWD+IFR1+MS
	13200.000	90.000	179.641	11751.997	31.843	0.000	43.693	-0.000	31.843	0.000	46.699	43.412	106.355	MWD+IFR1+MS
	13300.000	90.000	179.641	11751.997	32.168	0.000	43.892	-0.000	32.168	0.000	46.732	43.589	107.428	MWD+IFR1+MS
	13400.000	90.000	179.641	11751.997	32.510	0.000	44.103	-0.000	32.510	0.000	46.768	43.775	108.669	MWD+IFR1+MS
	13500.000	90.000	179.641	11751.997	32.866	0.000	44.326	-0.000	32.866	0.000	46.810	43.968	110.111	MWD+IFR1+MS
	13600.000	90.000	179.641	11751.997	33.237	0.000	44.561	-0.000	33.237	0.000	46.858	44.169	111.792	MWD+IFR1+MS
	13700.000	90.000	179.641	11751.997	33.623	0.000	44.808	-0.000	33.623	0.000	46.914	44.374	113.760	MWD+IFR1+MS
	13800.000	90.000	179.641	11751.997	34.022	0.000	45.067	-0.000	34.022	0.000	46.979	44.582	116.065	MWD+IFR1+MS
	13900.000	90.000	179.641	11751.997	34.435	0.000	45.337	-0.000	34.435	0.000	47.055	44.790	118.757	MWD+IFR1+MS
	14000.000	90.000	179.641	11751.997	34.860	0.000	45.618	-0.000	34.860	0.000	47.147	44.996	121.878	MWD+IFR1+MS
	14100.000	90.000	179.641	11751.997	35.297	0.000	45.911	-0.000	35.297	0.000	47.256	45.195	125.438	MWD+IFR1+MS
	14200.000	90.000	179.641	11751.997	35.747	0.000	46.214	-0.000	35.747	0.000	47.387	45.384	129.401	MWD+IFR1+MS
	14300.000	90.000	179.641	11751.997	36.208	0.000	46.528	-0.000	36.208	0.000	47.544	45.559	133.659	MWD+IFR1+MS
	14400.000	90.000	179.641	11751.997	36.680	0.000	46.852	-0.000	36.680	0.000	47.728	45.717	-41.960	MWD+IFR1+MS
	14500.000	90.000	179.641	11751.997	37.162	0.000	47.187	-0.000	37.162	0.000	47.942	45.856	-37.659	MWD+IFR1+MS
	14600.000	90.000	179.641	11751.997	37.655	0.000	47.531	-0.000	37.655	0.000	48.184	45.978	-33.621	MWD+IFR1+MS
	14700.000	90.000	179.641	11751.997	38.157	0.000	47.886	-0.000	38.157	0.000	48.453	46.083	-29.967	MWD+IFR1+MS
	14800.000	90.000	179.641	11751.997	38.669	0.000	48.249	-0.000	38.669	0.000	48.747	46.174	-26.748	MWD+IFR1+MS
	14900.000	90.000	179.641	11751.997	39.190	0.000	48.623	-0.000	39.190	0.000	49.062	46.253	-23.960	MWD+IFR1+MS
	15000.000	90.000	179.641	11751.997	39.719	0.000	49.005	-0.000	39.719	0.000	49.396	46.323	-21.566	MWD+IFR1+MS
	15100.000	90.000	179.641	11751.997	40.257	0.000	49.396	-0.000	40.257	0.000	49.747	46.385	-19.516	MWD+IFR1+MS
	15200.000	90.000	179.641	11751.997	40.803	0.000	49.796	-0.000	40.803	0.000	50.113	46.442	-17.760	MWD+IFR1+MS
	15300.000	90.000	179.641	11751.997	41.357	0.000	50.204	-0.000	41.357	0.000	50.493	46.494	-16.250	MWD+IFR1+MS
	15400.000	90.000	179.641	11751.997	41.918	0.000	50.621	-0.000	41.918	0.000	50.885	46.543	-14.945	MWD+IFR1+MS
	15500.000	90.000	179.641	11751.997	42.486	0.000	51.046	-0.000	42.486	0.000	51.289	46.589	-13.812	MWD+IFR1+MS
	15600.000	90.000	179.641	11751.997	43.061	0.000	51.478	-0.000	43.061	0.000	51.703	46.632	-12.821	MWD+IFR1+MS
	15700.000	90.000	179.641	11751.997	43.642	0.000	51.919	-0.000	43.642	0.000	52.128	46.674	-11.950	MWD+IFR1+MS

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15800.000	90.000	179.641	11751.997	44.230	0.000	52.367	-0.000	44.230	0.000	0.000	52.561	46.715	-11.180	MWD+IFR1+MS
15900.000	90.000	179.641	11751.997	44.823	0.000	52.822	-0.000	44.823	0.000	0.000	53.004	46.755	-10.495	MWD+IFR1+MS
16000.000	90.000	179.641	11751.997	45.423	0.000	53.284	-0.000	45.423	0.000	0.000	53.455	46.794	-9.884	MWD+IFR1+MS
16100.000	90.000	179.641	11751.997	46.028	0.000	53.753	-0.000	46.028	0.000	0.000	53.914	46.832	-9.335	MWD+IFR1+MS
16200.000	90.000	179.641	11751.997	46.638	0.000	54.229	-0.000	46.638	0.000	0.000	54.381	46.870	-8.841	MWD+IFR1+MS
16300.000	90.000	179.641	11751.997	47.254	0.000	54.711	-0.000	47.254	0.000	0.000	54.856	46.908	-8.393	MWD+IFR1+MS
16400.000	90.000	179.641	11751.997	47.874	0.000	55.200	-0.000	47.874	0.000	0.000	55.337	46.946	-7.985	MWD+IFR1+MS
16500.000	90.000	179.641	11751.997	48.500	0.000	55.695	-0.000	48.500	0.000	0.000	55.825	46.983	-7.614	MWD+IFR1+MS
16600.000	90.000	179.641	11751.997	49.130	0.000	56.197	-0.000	49.130	0.000	0.000	56.320	47.021	-7.274	MWD+IFR1+MS
16700.000	90.000	179.641	11751.997	49.764	0.000	56.704	-0.000	49.764	0.000	0.000	56.822	47.059	-6.961	MWD+IFR1+MS
16800.000	90.000	179.641	11751.997	50.402	0.000	57.217	-0.000	50.402	0.000	0.000	57.329	47.097	-6.673	MWD+IFR1+MS
16900.000	90.000	179.641	11751.997	51.045	0.000	57.735	-0.000	51.045	0.000	0.000	57.843	47.135	-6.407	MWD+IFR1+MS
17000.000	90.000	179.641	11751.997	51.691	0.000	58.259	-0.000	51.691	0.000	0.000	58.362	47.173	-6.161	MWD+IFR1+MS
17100.000	90.000	179.641	11751.997	52.342	0.000	58.788	-0.000	52.342	0.000	0.000	58.887	47.212	-5.932	MWD+IFR1+MS
17200.000	90.000	179.641	11751.997	52.996	0.000	59.322	-0.000	52.996	0.000	0.000	59.418	47.251	-5.720	MWD+IFR1+MS
17300.000	90.000	179.641	11751.997	53.653	0.000	59.862	-0.000	53.653	0.000	0.000	59.954	47.290	-5.521	MWD+IFR1+MS
17400.000	90.000	179.641	11751.997	54.314	0.000	60.406	-0.000	54.314	0.000	0.000	60.494	47.329	-5.336	MWD+IFR1+MS
17500.000	90.000	179.641	11751.997	54.978	0.000	60.955	-0.000	54.978	0.000	0.000	61.040	47.369	-5.162	MWD+IFR1+MS
17600.000	90.000	179.641	11751.997	55.645	0.000	61.509	-0.000	55.645	0.000	0.000	61.591	47.410	-4.999	MWD+IFR1+MS
17700.000	90.000	179.641	11751.997	56.316	0.000	62.067	-0.000	56.316	0.000	0.000	62.146	47.450	-4.846	MWD+IFR1+MS
17800.000	90.000	179.641	11751.997	56.989	0.000	62.629	-0.000	56.989	0.000	0.000	62.706	47.491	-4.702	MWD+IFR1+MS
17900.000	90.000	179.641	11751.997	57.665	0.000	63.196	-0.000	57.665	0.000	0.000	63.270	47.533	-4.566	MWD+IFR1+MS
18000.000	90.000	179.641	11751.997	58.344	0.000	63.767	-0.000	58.344	0.000	0.000	63.839	47.575	-4.437	MWD+IFR1+MS
18100.000	90.000	179.641	11751.997	59.025	0.000	64.342	-0.000	59.025	0.000	0.000	64.412	47.618	-4.316	MWD+IFR1+MS
18200.000	90.000	179.641	11751.997	59.709	0.000	64.921	-0.000	59.709	0.000	0.000	64.989	47.660	-4.201	MWD+IFR1+MS
18300.000	90.000	179.641	11751.997	60.395	0.000	65.504	-0.000	60.395	0.000	0.000	65.569	47.704	-4.092	MWD+IFR1+MS
18400.000	90.000	179.641	11751.997	61.084	0.000	66.091	-0.000	61.084	0.000	0.000	66.154	47.748	-3.989	MWD+IFR1+MS
18500.000	90.000	179.641	11751.997	61.775	0.000	66.681	-0.000	61.775	0.000	0.000	66.742	47.792	-3.890	MWD+IFR1+MS
18600.000	90.000	179.641	11751.997	62.468	0.000	67.274	-0.000	62.468	0.000	0.000	67.334	47.837	-3.797	MWD+IFR1+MS
18700.000	90.000	179.641	11751.997	63.163	0.000	67.871	-0.000	63.163	0.000	0.000	67.930	47.882	-3.708	MWD+IFR1+MS
18800.000	90.000	179.641	11751.997	63.861	0.000	68.472	-0.000	63.861	0.000	0.000	68.529	47.928	-3.623	MWD+IFR1+MS
18900.000	90.000	179.641	11751.997	64.560	0.000	69.076	-0.000	64.560	0.000	0.000	69.131	47.974	-3.542	MWD+IFR1+MS
19000.000	90.000	179.641	11751.997	65.262	0.000	69.683	-0.000	65.262	0.000	0.000	69.736	48.021	-3.465	MWD+IFR1+MS

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19100.000	90.000	179.641	11751.997	65.965	0.000	70.293	-0.000	65.965	0.000	70.345	48.068	-3.391	MWD+IFR1+MS
19200.000	90.000	179.641	11751.997	66.670	0.000	70.906	-0.000	66.670	0.000	70.957	48.116	-3.320	MWD+IFR1+MS
19300.000	90.000	179.641	11751.997	67.377	0.000	71.522	-0.000	67.377	0.000	71.572	48.164	-3.252	MWD+IFR1+MS
19400.000	90.000	179.641	11751.997	68.086	0.000	72.141	-0.000	68.086	0.000	72.189	48.213	-3.187	MWD+IFR1+MS
19500.000	90.000	179.641	11751.997	68.796	0.000	72.762	-0.000	68.796	0.000	72.810	48.262	-3.124	MWD+IFR1+MS
19600.000	90.000	179.641	11751.997	69.508	0.000	73.387	-0.000	69.508	0.000	73.433	48.312	-3.065	MWD+IFR1+MS
19700.000	90.000	179.641	11751.997	70.221	0.000	74.014	-0.000	70.221	0.000	74.059	48.362	-3.007	MWD+IFR1+MS
19800.000	90.000	179.641	11751.997	70.936	0.000	74.643	-0.000	70.936	0.000	74.688	48.413	-2.952	MWD+IFR1+MS
19900.000	90.000	179.641	11751.997	71.652	0.000	75.275	-0.000	71.652	0.000	75.319	48.464	-2.898	MWD+IFR1+MS
20000.000	90.000	179.641	11751.997	72.370	0.000	75.910	-0.000	72.370	0.000	75.952	48.516	-2.847	MWD+IFR1+MS
20100.000	90.000	179.641	11751.997	73.089	0.000	76.547	-0.000	73.089	0.000	76.588	48.568	-2.798	MWD+IFR1+MS
20200.000	90.000	179.641	11751.997	73.810	0.000	77.186	-0.000	73.810	0.000	77.227	48.621	-2.750	MWD+IFR1+MS
20300.000	90.000	179.641	11751.997	74.531	0.000	77.828	-0.000	74.531	0.000	77.868	48.674	-2.704	MWD+IFR1+MS
20400.000	90.000	179.641	11751.997	75.254	0.000	78.472	-0.000	75.254	0.000	78.511	48.728	-2.660	MWD+IFR1+MS
20500.000	90.000	179.641	11751.997	75.979	0.000	79.118	-0.000	75.979	0.000	79.156	48.782	-2.617	MWD+IFR1+MS
20600.000	90.000	179.641	11751.997	76.704	0.000	79.766	-0.000	76.704	0.000	79.803	48.837	-2.576	MWD+IFR1+MS
20700.000	90.000	179.641	11751.997	77.431	0.000	80.416	-0.000	77.431	0.000	80.453	48.892	-2.536	MWD+IFR1+MS
20800.000	90.000	179.641	11751.997	78.158	0.000	81.068	-0.000	78.158	0.000	81.104	48.948	-2.498	MWD+IFR1+MS
20900.000	90.000	179.641	11751.997	78.887	0.000	81.722	-0.000	78.887	0.000	81.758	49.005	-2.460	MWD+IFR1+MS
21000.000	90.000	179.641	11751.997	79.617	0.000	82.378	-0.000	79.617	0.000	82.413	49.061	-2.424	MWD+IFR1+MS
21100.000	90.000	179.641	11751.997	80.348	0.000	83.036	-0.000	80.348	0.000	83.070	49.119	-2.389	MWD+IFR1+MS
21200.000	90.000	179.641	11751.997	81.080	0.000	83.696	-0.000	81.080	0.000	83.729	49.177	-2.355	MWD+IFR1+MS
21300.000	90.000	179.641	11751.997	81.813	0.000	84.358	-0.000	81.813	0.000	84.390	49.235	-2.322	MWD+IFR1+MS
21400.000	90.000	179.641	11751.997	82.547	0.000	85.021	-0.000	82.547	0.000	85.053	49.294	-2.290	MWD+IFR1+MS
21500.000	90.000	179.641	11751.997	83.282	0.000	85.686	-0.000	83.282	0.000	85.718	49.353	-2.259	MWD+IFR1+MS
21600.000	90.000	179.641	11751.997	84.017	0.000	86.353	-0.000	84.017	0.000	86.384	49.413	-2.229	MWD+IFR1+MS
21700.000	90.000	179.641	11751.997	84.754	0.000	87.021	-0.000	84.754	0.000	87.052	49.473	-2.200	MWD+IFR1+MS
21800.000	90.000	179.641	11751.997	85.491	0.000	87.691	-0.000	85.491	0.000	87.721	49.534	-2.172	MWD+IFR1+MS
21900.000	90.000	179.641	11751.997	86.230	0.000	88.363	-0.000	86.230	0.000	88.392	49.595	-2.144	MWD+IFR1+MS
22000.000	90.000	179.641	11751.997	86.969	0.000	89.036	-0.000	86.969	0.000	89.064	49.657	-2.118	MWD+IFR1+MS
22100.000	90.000	179.641	11751.997	87.709	0.000	89.710	-0.000	87.709	0.000	89.738	49.719	-2.092	MWD+IFR1+MS
22200.000	90.000	179.641	11751.997	88.449	0.000	90.386	-0.000	88.449	0.000	90.414	49.782	-2.066	MWD+IFR1+MS
22300.000	90.000	179.641	11751.997	89.191	0.000	91.063	-0.000	89.191	0.000	91.091	49.845	-2.042	MWD+IFR1+MS

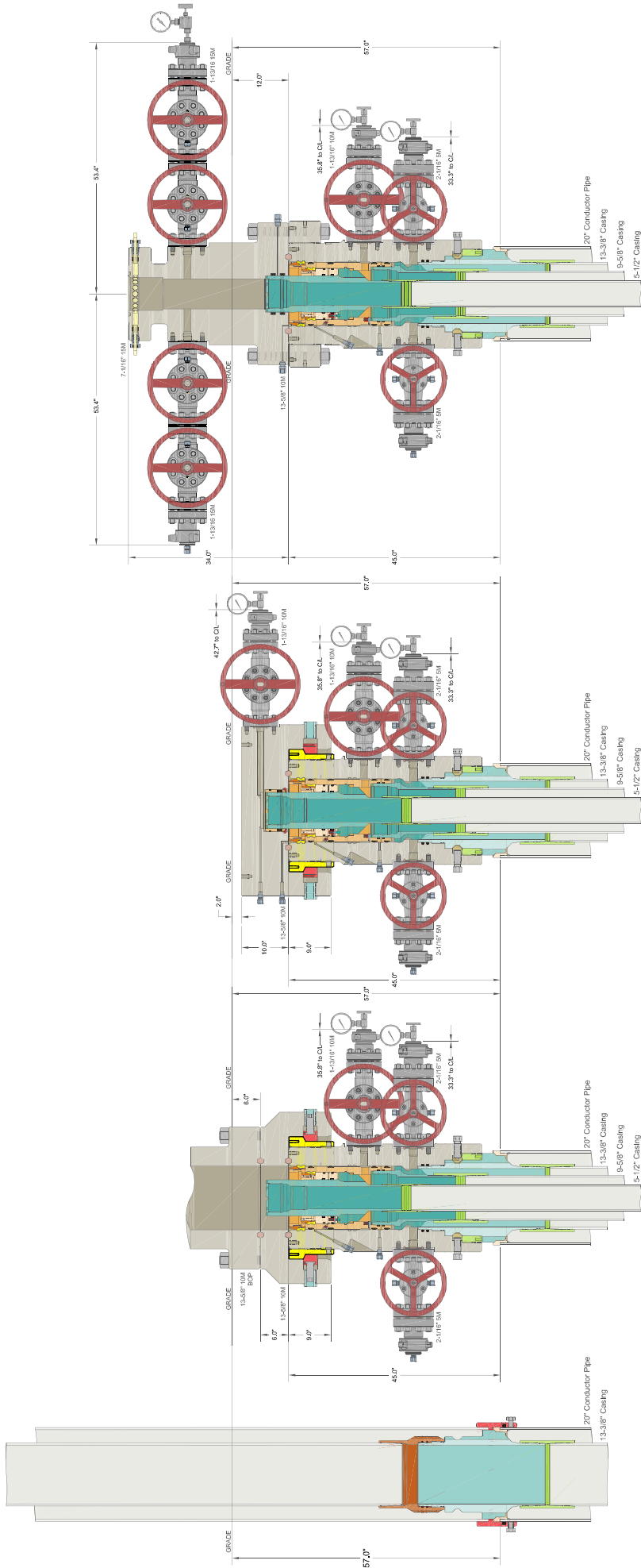
Well Plan Report

3/20/24, 9:53 AM	90.000	179.641	11751.997	89.933	0.000	91.742	-0.000	89.933	0.000	91.769	49.909	-2.018	MWD+IFR1+MS
22400.000	90.000	179.641	11751.997	89.933	0.000	92.422	-0.000	90.676	0.000	92.449	49.973	-1.994	MWD+IFR1+MS
22500.000	90.000	179.641	11751.997	91.419	0.000	93.104	-0.000	91.419	0.000	93.130	50.038	-1.972	MWD+IFR1+MS
22600.000	90.000	179.641	11751.997	92.164	0.000	93.786	-0.000	92.164	0.000	93.812	50.103	-1.950	MWD+IFR1+MS
22700.000	90.000	179.641	11751.997	92.908	0.000	94.470	-0.000	92.908	0.000	94.496	50.169	-1.928	MWD+IFR1+MS
22800.000	90.000	179.641	11751.997	93.654	0.000	95.156	-0.000	93.654	0.000	95.181	50.235	-1.907	MWD+IFR1+MS
22900.000	90.000	179.641	11751.997	94.400	0.000	95.842	-0.000	94.400	0.000	95.867	50.302	-1.886	MWD+IFR1+MS
23000.000	90.000	179.641	11751.997	95.147	0.000	96.530	-0.000	95.147	0.000	96.554	50.369	-1.866	MWD+IFR1+MS
23100.000	90.000	179.641	11751.997	95.895	0.000	97.218	-0.000	95.895	0.000	97.242	50.436	-1.847	MWD+IFR1+MS
23200.000	90.000	179.641	11751.997	96.643	0.000	97.908	-0.000	96.643	0.000	97.932	50.504	-1.828	MWD+IFR1+MS
23300.000	90.000	179.641	11751.997	97.391	0.000	98.600	-0.000	97.391	0.000	98.623	50.573	-1.809	MWD+IFR1+MS
23400.000	90.000	179.641	11751.997	98.140	0.000	99.292	-0.000	98.140	0.000	99.315	50.642	-1.791	MWD+IFR1+MS
23500.000	90.000	179.641	11751.997	98.890	0.000	99.985	-0.000	98.890	0.000	100.008	50.711	-1.773	MWD+IFR1+MS
23600.000	90.000	179.641	11751.997	99.640	0.000	100.679	-0.000	99.640	0.000	100.702	50.781	-1.756	MWD+IFR1+MS
23700.000	90.000	179.641	11751.997	100.391	0.000	101.375	-0.000	100.391	0.000	101.397	50.852	-1.739	MWD+IFR1+MS
23800.000	90.000	179.641	11751.997	101.142	0.000	102.071	-0.000	101.142	0.000	102.093	50.923	-1.723	MWD+IFR1+MS
23900.000	90.000	179.641	11751.997	101.894	0.000	102.768	-0.000	101.894	0.000	102.790	50.994	-1.706	MWD+IFR1+MS
24000.000	90.000	179.641	11751.997	102.647	0.000	103.466	-0.000	102.647	0.000	103.488	51.066	-1.691	MWD+IFR1+MS
24100.000	90.000	179.641	11751.997	103.399	0.000	104.166	-0.000	103.399	0.000	104.187	51.138	-1.675	MWD+IFR1+MS
24200.000	90.000	179.641	11751.997	104.153	0.000	104.866	-0.000	104.153	0.000	104.886	51.211	-1.660	MWD+IFR1+MS
24300.000	90.000	179.641	11751.997	104.906	0.000	105.567	-0.000	104.906	0.000	105.587	51.284	-1.645	MWD+IFR1+MS
24400.000	90.000	179.641	11751.997	105.323	0.000	105.954	-0.000	105.323	0.000	105.974	51.324	-1.637	MWD+IFR1+MS
24455.328	90.000	179.641	11751.997	105.659	0.000	106.267	-0.000	105.659	0.000	106.287	51.357	-1.631	MWD+IFR1+MS
24500.000	90.000	179.641	11751.997	106.001	0.000	106.584	-0.000	106.001	0.000	106.604	51.391	-1.624	MWD+IFR1+MS
24545.349	90.000	179.641	11751.997										

Poker Lake Unit 21 DTD South 103H

Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 16	11896.88	440431.20	638130.60	8377.00	RECTANGLE
SHL 27	14417.65	439143.41	639748.62	8528.00	RECTANGLE
LTP 16	24455.38	427431.90	638212.00	8377.00	RECTANGLE
BHL 16	24545.56	427341.90	638212.40	8377.00	RECTANGLE



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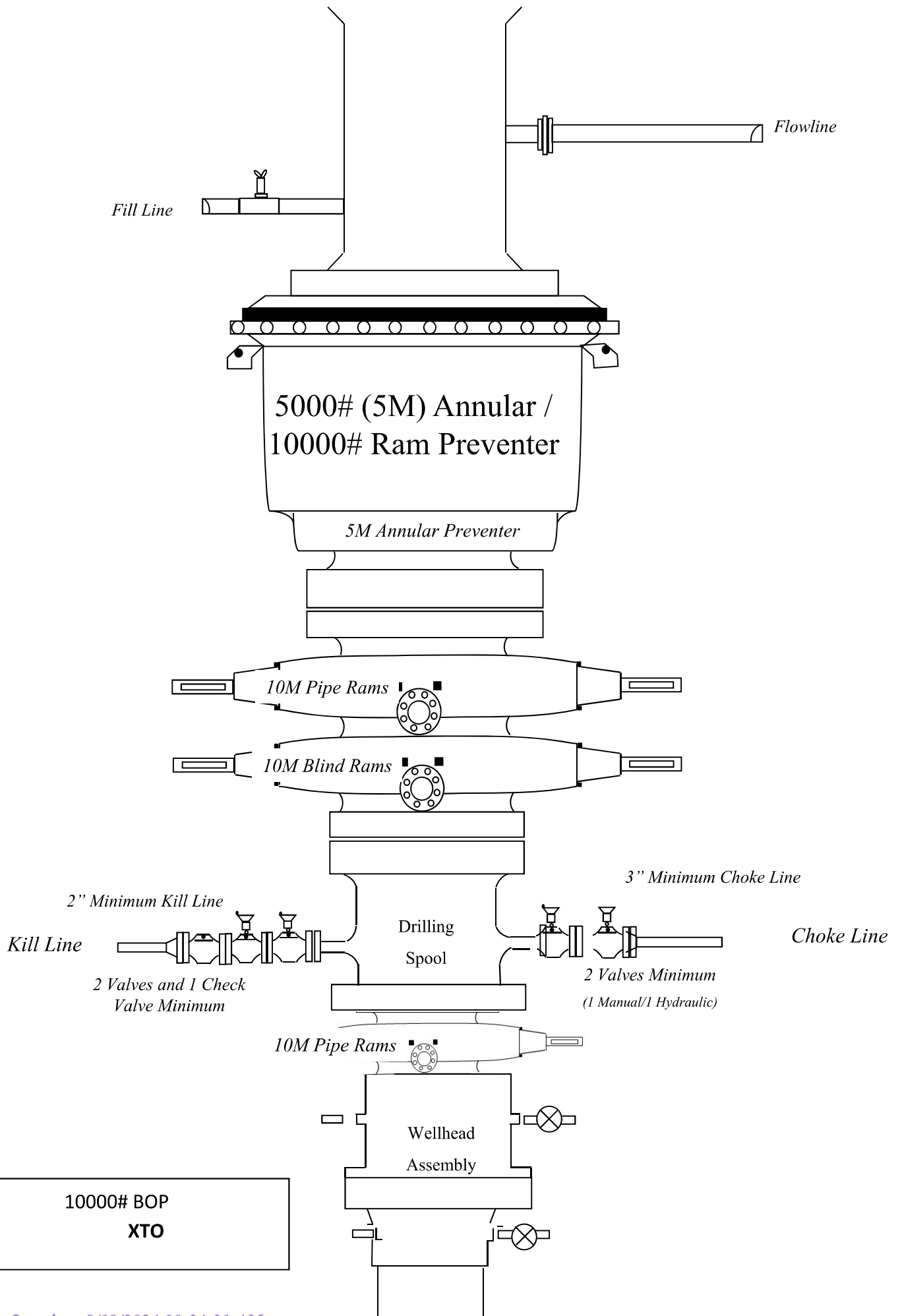
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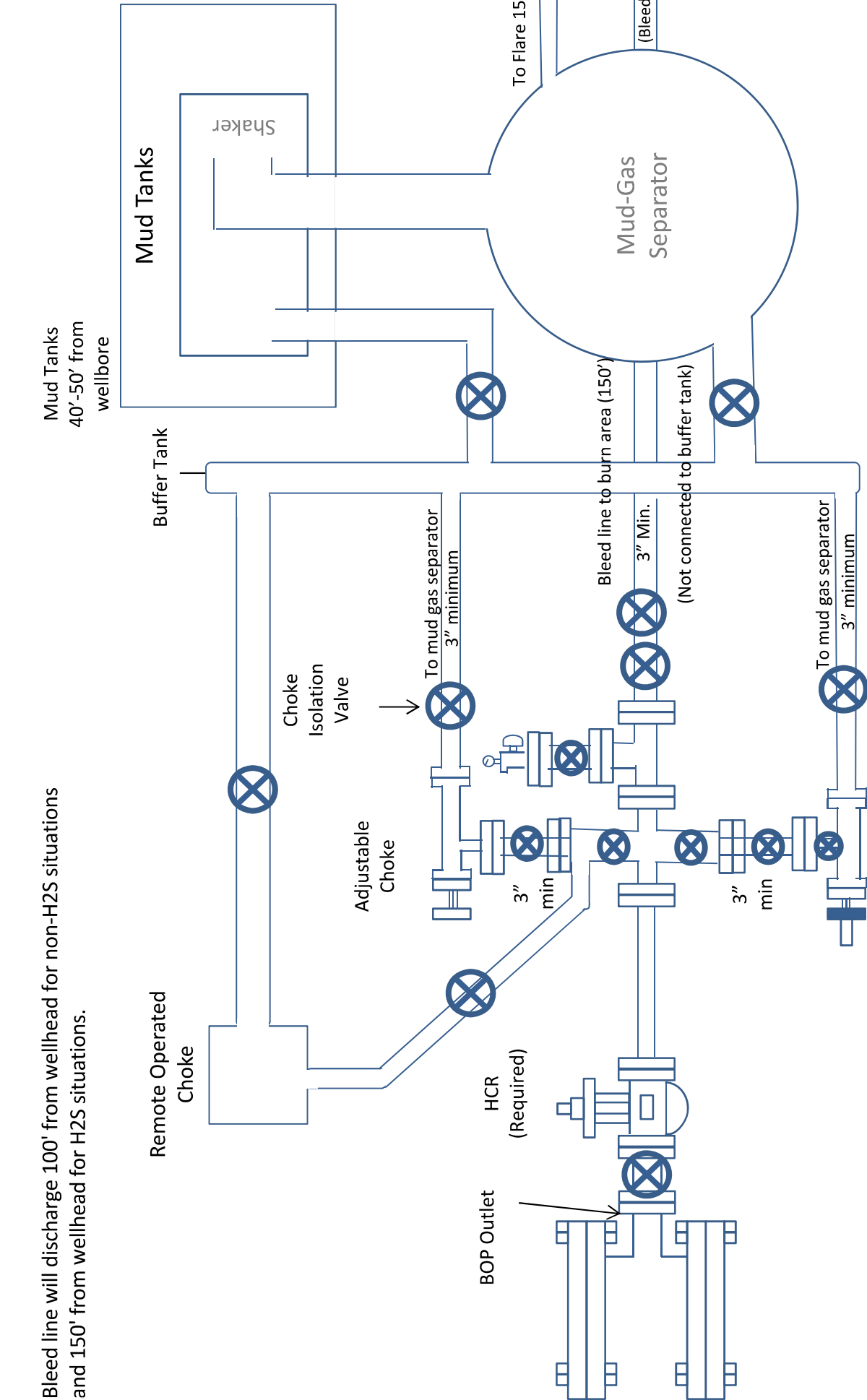
CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

(20") x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO-SF Wellhead
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And Drilling & Skid Configurations

DR - W/N	VJK	31MAR2024
APPRV		
DRAWING NO.	SDT-2856	





10M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
10M Service**

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



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.

Legal Notice

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U. S. Steel Tubular Products

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

				
MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	—	psi	—
Maximum Yield Strength	125,000	—	psi	—
Minimum Tensile Strength	125,000	—	psi	—
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		—
Outside Diameter	5.500	5.900	in.	—
Wall Thickness	0.361	--	in.	—
Inside Diameter	4.778	4.778	in.	—
Standard Drift	4.653	4.653	in.	—
Alternate Drift	—	--	in.	—
Nominal Linear Weight, T&C	20.00	--	lb/ft	—
Plain End Weight	19.83	--	lb/ft	—
SECTION AREA	Pipe	USS-TALON HTQ™ RD		—
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		—
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	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]

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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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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:

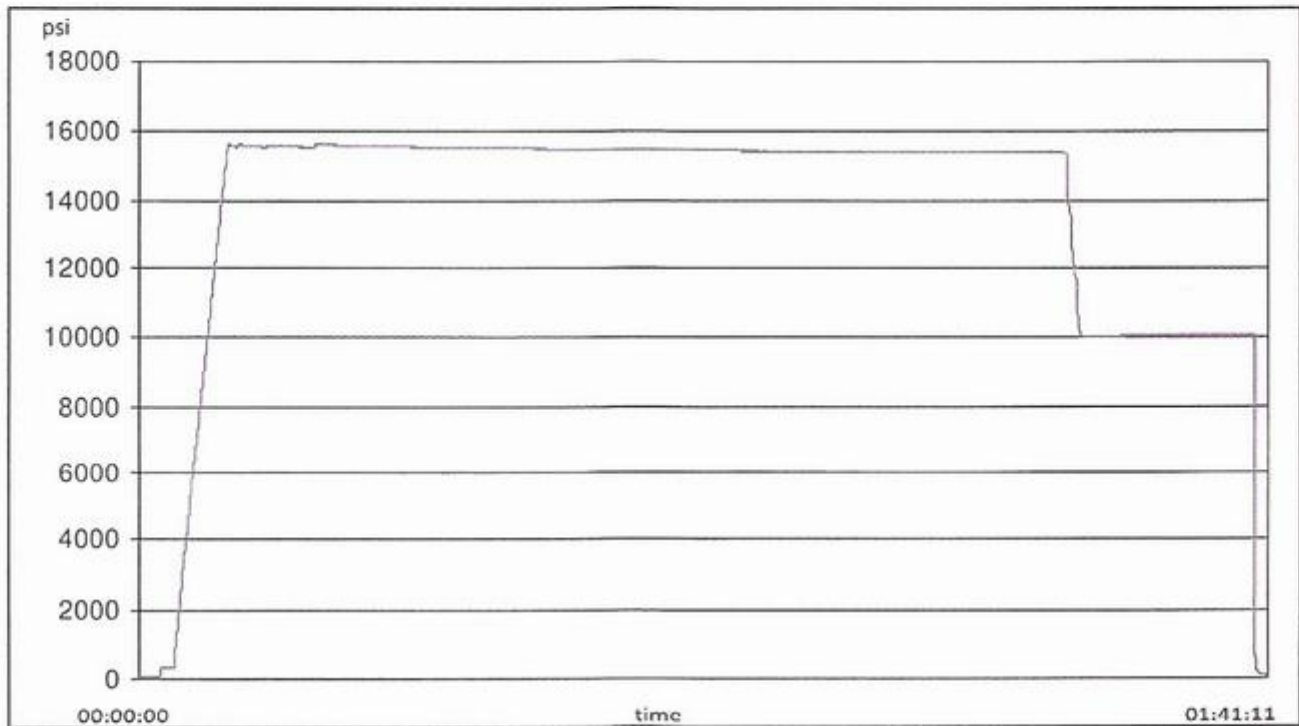
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

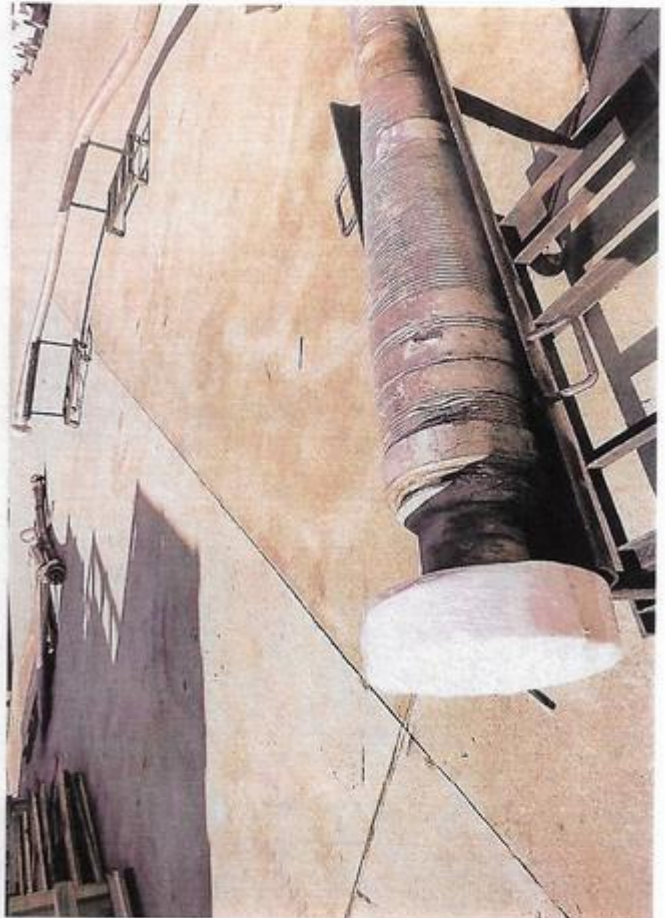
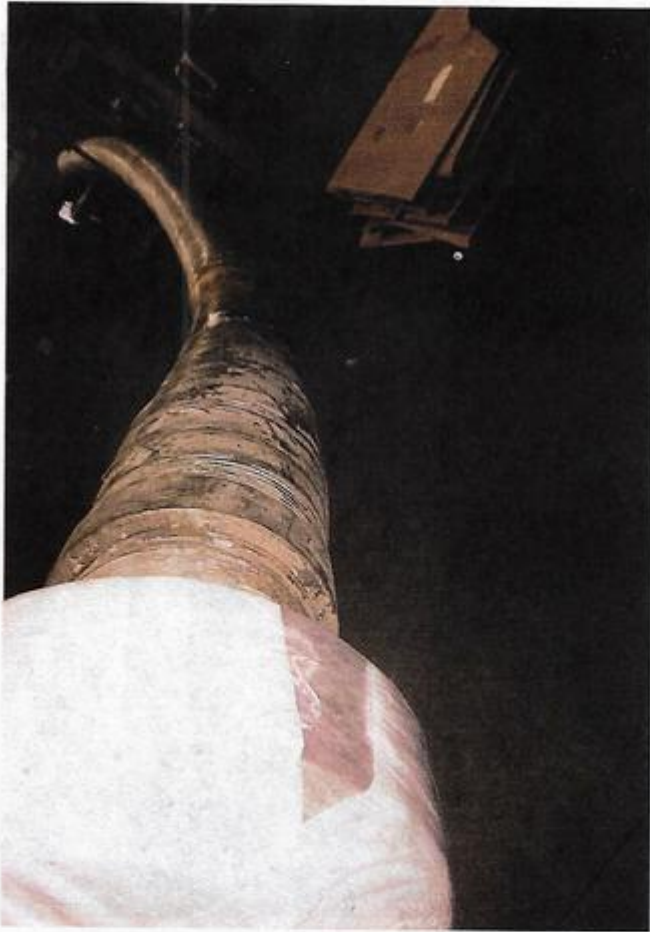
1/25/2024 11:48:06 AM

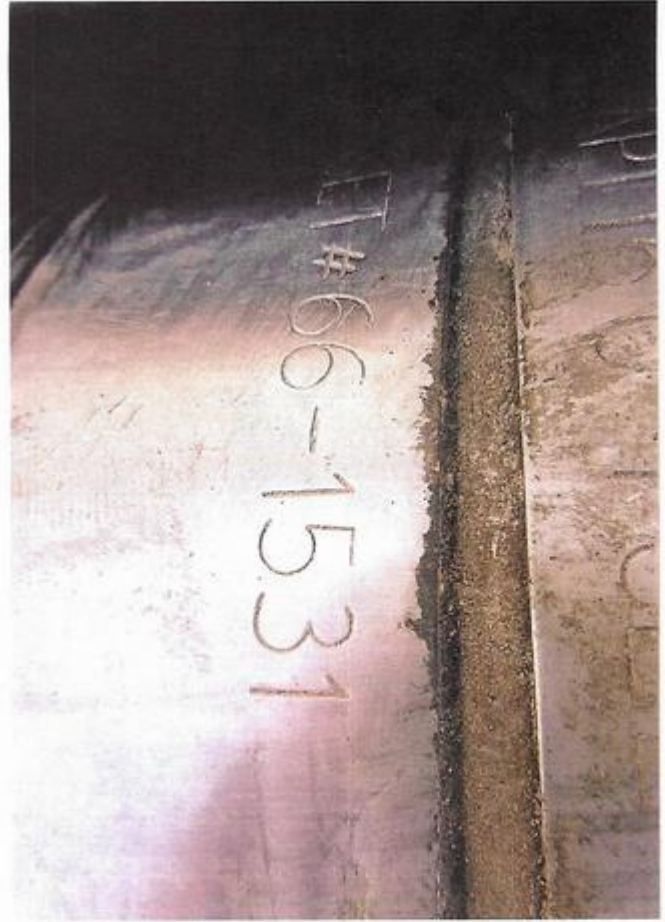
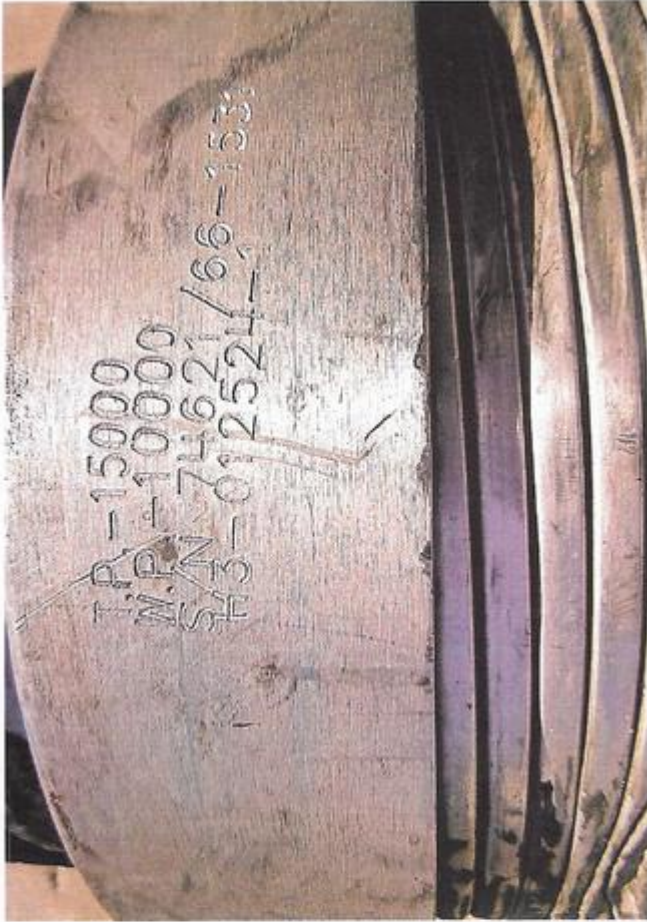
TEST REPORT

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.

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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 382022

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 382022
	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 to surface during cementing operations, then a CBL is required.	9/19/2024