

Lease Number: NMLC0068431

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553265

Operator: XTO PERMIAN OPERATING
LLC

Notice of Intent

Sundry ID: 2784130

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024

Time Sundry Submitted: 01:27

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: 1557' FNL & 1365' FEL OF SECTION 21-T24S-R30E 1367' FNL & 1366' FEL OF SECTION 21-T24S-R30E FTP: 382' FNL & 1727' FEL OF SECTION 21-T24S-R30E 100' FNL & 1382' FEL OF SECTION 21-T24S-R30E LTP: 329' FNL & 1750' FEL OF SECTION 33-T23S-R30E 2538' FNL & 1378' FEL OF SECTION 33-T24S-R30E BHL: 200' FNL & 1750' FEL OF SECTION 33-T23S-R30E 2628' FNL & 1379' FEL OF SECTION 33-T24S-R30E The proposed total depth is changing from 33775' MD; 12088' TVD (Wolfcamp) to 24198' MD; 11238' TVD (Wolfcamp A). See attached Drilling Plan for updated cement and casing program. A saturated salt brine will be utilized while drilling through the salt formations. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

NOI Attachments

Procedure Description

PLU_21_DTD_185H_Sundry_Documents_20240729093338.pdf

US Well Number: 3001553265

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

Poker_Lake_Unit_21_DTD_185H_COA_20240912150801.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: JUL 29, 2024 09:33 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND

State: TX

Phone: (432) 999-3107

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

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 09/13/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.	NMLC068431
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 <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. POKER LAKE UNIT 21 DTD/185H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 3001553265
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			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

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

FROM: TO:
SHL: 1557' FNL & 1365' FEL OF SECTION 21-T24S-R30E 1367' FNL & 1366' FEL OF SECTION 21-T24S-R30E
FTP: 382' FNL & 1727' FEL OF SECTION 21-T24S-R30E 100' FNL & 1382' FEL OF SECTION 21-T24S-R30E
LTP: 329' FNL & 1750' FEL OF SECTION 33-T23S-R30E 2538' FNL & 1378' FEL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 1750' FEL OF SECTION 33-T23S-R30E 2628' FNL & 1379' FEL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 33775 MD; 12088 TVD (Wolfcamp) to 24198 MD; 11238 TVD (Wolfcamp A).

See attached Drilling Plan for updated cement and casing program.
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 07/29/2024

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

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

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

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

Location of Well

0. SHL: SWNE / 1557 FNL / 1365 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.206207 / LONG: -103.882003 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 382 FNL / 1727 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209433 / LONG: -103.88317 (TVD: 12088 feet, MD: 12500 feet)

BHL: NWNE / 200 FNL / 1750 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268079 / LONG: -103.883249 (TVD: 12088 feet, MD: 33775 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 185H
SURFACE HOLE FOOTAGE:	1367'N & 1366'E
BOTTOM HOLE FOOTAGE:	2630'N & 2181'E

WELL NAME & NO.:	Poker Lake Unit 21 DTD 187H
SURFACE HOLE FOOTAGE:	332'S & 97'E
BOTTOM HOLE FOOTAGE:	2627'N & 294'E

*Changes approved through engineering via **Sundry 2784130,2784171** on 9-12-2024_. Any previous COAs not addressed within the updated COAs still apply.*

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **900** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
 - a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6340'**
 - b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

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

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

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

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

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**

- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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

Casing Clearance

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](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 9/12/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-5326		² Pool Code 9822	³ Pool Name PURPLE SAGE;WOLFCAMP
⁴ Property Code 333571	⁵ Property Name POKER LAKE UNIT 21 DTD		⁶ Well Number 185H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.		⁹ Elevation 3,377'

¹⁰ Surface Location

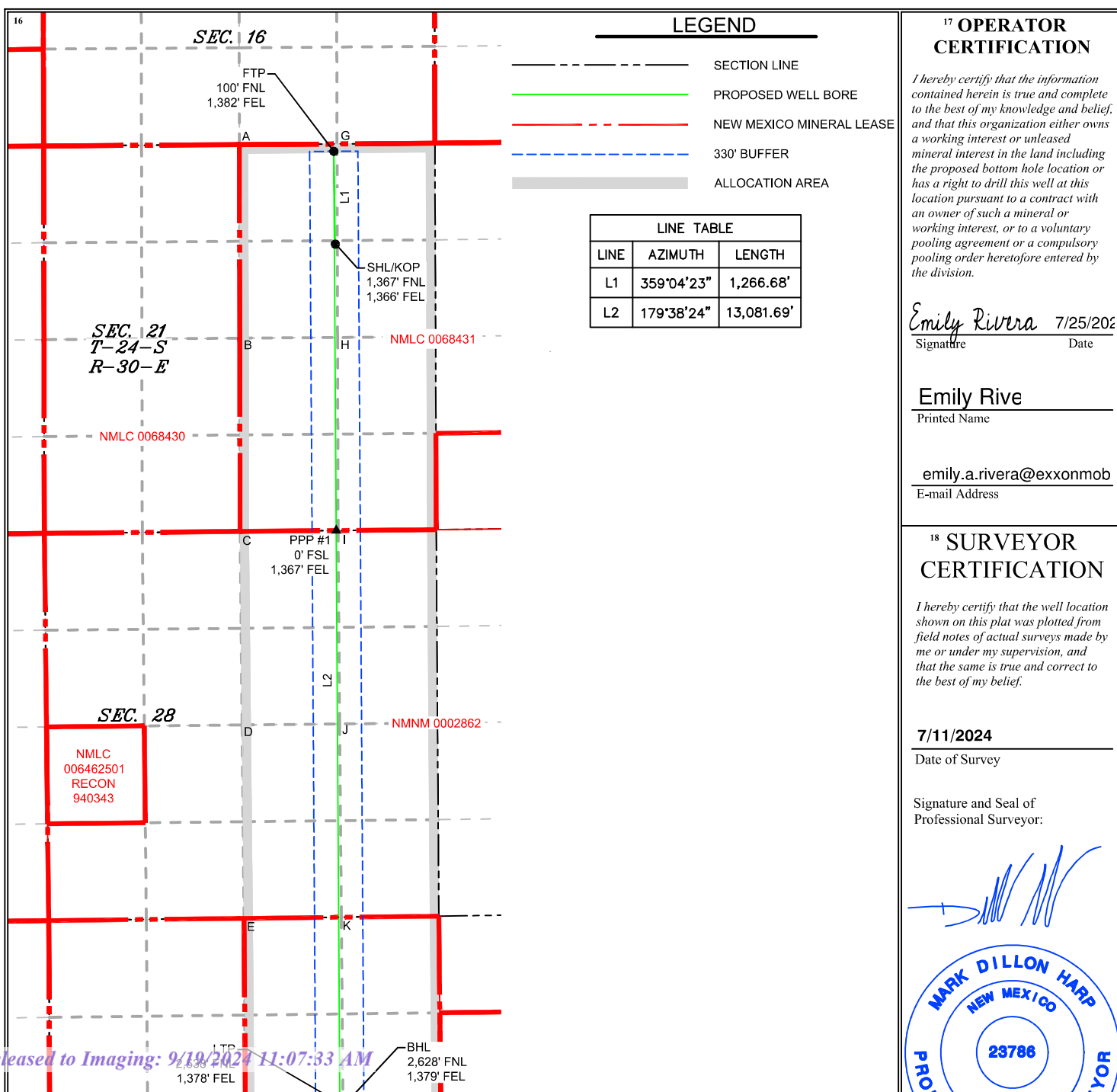
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	24S	30E		1,367	NORTH	1,366	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	33	24S	30E		2,628	NORTH	1,379	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
800.00			

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



Intent ☒ As Drilled ☐

API # 30-15-		
Operator Name: XTO PERMAIN OPERATING, LLC.	Property Name: POKER LAKE UNIT 21 DTD	Well Number 185H

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 B	Section 21	Township 24S	Range 30E	Lot	Feet 100	From N/S NORTH	Feet 1,382	From E/W EAST	County EDDY
Latitude 32.210211					Longitude -103.882054				NAD 83

Last Take Point (LTP)

UL G	Section 33	Township 24S	Range 30E	Lot	Feet 2,538	From N/S NORTH	Feet 1,378	From E/W EAST	County EDDY
Latitude 32.174499					Longitude -103.881966				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 185H
Projected TD: 24198' MD / 11238' TVD
SHL: 1367' FNL & 1366' FEL , Section 21, T24S, R30E
BHL: 2628' FNL & 1379' FEL , 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	1004'	Water
Top of Salt	1407'	Water
Base of Salt	3600'	Water
Delaware	3794'	Water
Brushy Canyon	6340'	Water/Oil/Gas
Bone Spring	7664'	Water
Avalon	8357'	Water/Oil/Gas
1st Bone Spring	8373'	Water/Oil/Gas
2nd Bone Spring	8958'	Water/Oil/Gas
3rd Bone Spring	9784'	Water/Oil/Gas
Wolfcamp	10969'	Water/Oil/Gas
Wolfcamp X	10990'	Water/Oil/Gas
Wolfcamp Y	11071'	Water/Oil/Gas
Wolfcamp A	11118'	Water/Oil/Gas
Target/Land Curve	11238'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 1104' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 10508' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24198 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10208 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1104'	9.625	40	J-55	BTC	New	1.58	5.70	14.27
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.23	2.92	1.79
8.75	4000' – 10508'	7.625	29.7	HC L-80	Flush Joint	New	1.62	2.27	2.10
6.75	0' – 10408'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.78	1.98
6.75	10408' - 24198'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.65	1.98

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

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

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

Wellhead:

Permanent Wellhead – Multibowl System

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

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

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

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1104'

Lead: 260 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

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

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10508'

1st Stage

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

TOC: Surface

Tail: 380 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6340

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: 710 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 (6340') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 24198'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10208 feet

Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10708 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.

XTO will use a Multi-Bowl system which is attached.

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

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

8.8-9.3

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt solution. Saturated Salt mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system."

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 175 to 195 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 6720 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 185H

Measured Depth: 24197.91 ft
TVD RKB: 11238.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 439176.00 ft
Easting: 639746.00 ft
RKB: 3409.00 ft
Ground Level: 3377.00 ft
North Reference: Grid
Convergence Angle: 0.24 Deg

Plan Sections Poker Lake Unit 21 DTD South 185H

Measured		Inclination		Azimuth		TVD		Y Offset		X Offset		Build		Turn		Dogleg	
Depth	(ft)	(Deg)	(Deg)	(Deg)	(ft)	RKB	(ft)	(ft)	(ft)	(ft)	(ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft) Target
0.00		0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
2001.63		18.03	359.07	359.07	1986.82			140.70	-2.28	2.00	0.00	2.00	0.00	0.00	0.00	2.00	2.00
5184.32		18.03	359.07	359.07	5013.18			1125.80	-18.22	0.00	0.00	-2.00	0.00	0.00	0.00	2.00	2.00
6085.96		0.00	0.00	0.00	5900.00			1266.50	-20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10707.76		0.00	0.00	0.00	10521.80			1266.50	-20.50	8.00	0.00	8.00	0.00	0.00	0.00	8.00	8.00
11832.76		90.00	179.64	179.64	11238.00			550.32	-16.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	LTP 28
24107.91		90.00	179.64	179.64	11238.00			-11724.60	60.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	BHL 28
24197.91		90.00	179.64	179.64	11238.00			-11814.60	61.46								

Position Uncertainty Poker Lake Unit 21 DTD South 185H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	Error	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.000	0.220	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	1.259	0.000	0.627	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	1.698	0.000	0.986	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	2.108	0.000	1.344	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	2.503	0.000	1.701	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	2.888	0.000	2.059	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	3.267	0.000	2.417	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	3.642	0.000	2.775	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.532	0.000	4.014	0.000	3.133	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.581	0.000	4.384	0.000	3.491	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.635	0.000	4.752	0.000	3.849	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	359.073	1199.980	4.947	0.000	4.603	0.000	2.691	0.000	5.275	0.000	4.225	4.225	124.393	MWD+IFR1+MS
1300.000	4.000	359.073	1299.838	5.748	0.000	4.961	0.000	2.751	0.000	6.027	0.000	4.629	4.629	116.625	MWD+IFR1+MS
1400.000	6.000	359.073	1399.452	6.463	0.000	5.319	0.000	2.817	0.000	6.733	0.000	4.998	4.998	112.859	MWD+IFR1+MS
1500.000	8.000	359.073	1498.702	7.117	0.000	5.675	0.000	2.890	0.000	7.393	0.000	5.355	5.355	110.720	MWD+IFR1+MS
1600.000	10.000	359.073	1597.465	7.724	0.000	6.032	0.000	2.973	0.000	8.014	0.000	5.707	5.707	109.366	MWD+IFR1+MS
1700.000	12.000	359.073	1695.623	8.293	0.000	6.388	0.000	3.067	0.000	8.604	0.000	6.058	6.058	108.447	MWD+IFR1+MS
1800.000	14.000	359.073	1793.055	8.830	0.000	6.746	0.000	3.175	0.000	9.167	0.000	6.410	6.410	107.795	MWD+IFR1+MS
1900.000	16.000	359.073	1889.643	9.341	0.000	7.106	0.000	3.299	0.000	9.707	0.000	6.763	6.763	107.321	MWD+IFR1+MS
2001.633	18.033	359.073	1986.821	9.846	0.000	7.475	0.000	3.443	0.000	10.245	0.000	7.125	7.125	106.959	MWD+IFR1+MS
2100.000	18.033	359.073	2080.357	10.217	0.000	7.835	0.000	3.554	0.000	10.604	0.000	7.479	7.479	107.156	MWD+IFR1+MS
2200.000	18.033	359.073	2175.445	10.512	0.000	8.204	0.000	3.654	0.000	10.888	0.000	7.851	7.851	107.447	MWD+IFR1+MS
2300.000	18.033	359.073	2270.533	10.815	0.000	8.576	0.000	3.759	0.000	11.181	0.000	8.226	8.226	107.740	MWD+IFR1+MS
2400.000	18.033	359.073	2365.621	11.126	0.000	8.951	0.000	3.868	0.000	11.480	0.000	8.604	8.604	108.030	MWD+IFR1+MS
2500.000	18.033	359.073	2460.709	11.444	0.000	9.329	0.000	3.981	0.000	11.785	0.000	8.983	8.983	108.319	MWD+IFR1+MS
2600.000	18.033	359.073	2555.797	11.769	0.000	9.708	0.000	4.098	0.000	12.096	0.000	9.364	9.364	108.604	MWD+IFR1+MS
2700.000	18.033	359.073	2650.885	12.099	0.000	10.089	0.000	4.218	0.000	12.412	0.000	9.747	9.747	108.887	MWD+IFR1+MS
2800.000	18.033	359.073	2745.973	12.435	0.000	10.472	0.000	4.341	0.000	12.734	0.000	10.131	10.131	109.167	MWD+IFR1+MS
2900.000	18.033	359.073	2841.061	12.776	0.000	10.857	0.000	4.467	0.000	13.059	0.000	10.517	10.517	109.445	MWD+IFR1+MS
3000.000	18.033	359.073	2936.149	13.121	0.000	11.242	0.000	4.596	0.000	13.390	0.000	10.903	10.903	109.721	MWD+IFR1+MS

3100.000	18.033	359.073	3031.237	13.471	0.000	11.629	0.000	4.728	0.000	13.724	11.291	109.994	MWD+IFR1+MS
3200.000	18.033	359.073	3126.325	13.825	0.000	12.017	0.000	4.861	0.000	14.061	11.679	110.264	MWD+IFR1+MS
3300.000	18.033	359.073	3221.413	14.182	0.000	12.406	0.000	4.998	0.000	14.403	12.068	110.532	MWD+IFR1+MS
3400.000	18.033	359.073	3316.501	14.543	0.000	12.796	0.000	5.136	0.000	14.747	12.458	110.797	MWD+IFR1+MS
3500.000	18.033	359.073	3411.589	14.907	0.000	13.187	0.000	5.277	0.000	15.094	12.849	111.059	MWD+IFR1+MS
3600.000	18.033	359.073	3506.677	15.273	0.000	13.578	0.000	5.419	0.000	15.444	13.240	111.319	MWD+IFR1+MS
3700.000	18.033	359.073	3601.765	15.643	0.000	13.970	0.000	5.563	0.000	15.797	13.632	111.577	MWD+IFR1+MS
3800.000	18.033	359.073	3696.853	16.015	0.000	14.363	0.000	5.710	0.000	16.152	14.024	111.832	MWD+IFR1+MS
3900.000	18.033	359.073	3791.941	16.389	0.000	14.756	0.000	5.858	0.000	16.509	14.417	112.084	MWD+IFR1+MS
4000.000	18.033	359.073	3887.029	16.765	0.000	15.150	0.000	6.008	0.000	16.868	14.811	112.334	MWD+IFR1+MS
4100.000	18.033	359.073	3982.117	17.144	0.000	15.544	0.000	6.159	0.000	17.230	15.204	112.581	MWD+IFR1+MS
4200.000	18.033	359.073	4077.205	17.524	0.000	15.939	0.000	6.312	0.000	17.593	15.598	112.825	MWD+IFR1+MS
4300.000	18.033	359.073	4172.293	17.906	0.000	16.334	0.000	6.467	0.000	17.958	15.993	113.067	MWD+IFR1+MS
4400.000	18.033	359.073	4267.381	18.290	0.000	16.729	0.000	6.623	0.000	18.325	16.387	113.306	MWD+IFR1+MS
4500.000	18.033	359.073	4362.469	18.676	0.000	17.125	0.000	6.781	0.000	18.693	16.782	113.543	MWD+IFR1+MS
4600.000	18.033	359.073	4457.557	19.063	0.000	17.521	0.000	6.941	0.000	19.062	17.178	113.777	MWD+IFR1+MS
4700.000	18.033	359.073	4552.645	19.451	0.000	17.918	0.000	7.101	0.000	19.433	17.573	114.008	MWD+IFR1+MS
4800.000	18.033	359.073	4647.733	19.841	0.000	18.315	0.000	7.264	0.000	19.806	17.969	114.236	MWD+IFR1+MS
4900.000	18.033	359.073	4742.821	20.231	0.000	18.712	0.000	7.428	0.000	20.179	18.365	114.462	MWD+IFR1+MS
5000.000	18.033	359.073	4837.909	20.623	0.000	19.109	0.000	7.594	0.000	20.554	18.761	114.685	MWD+IFR1+MS
5100.000	18.033	359.073	4932.997	21.016	0.000	19.507	0.000	7.761	0.000	20.930	19.158	114.905	MWD+IFR1+MS
5184.323	18.033	359.073	5013.179	21.347	0.000	19.840	0.000	7.902	0.000	21.244	19.492	115.044	MWD+IFR1+MS
5200.000	17.719	359.073	5028.099	21.416	0.000	19.901	0.000	7.929	0.000	21.301	19.553	115.051	MWD+IFR1+MS
5300.000	15.719	359.073	5123.866	21.883	0.000	20.288	0.000	8.103	0.000	21.701	19.945	114.821	MWD+IFR1+MS
5400.000	13.719	359.073	5220.580	22.397	0.000	20.676	0.000	8.284	0.000	22.176	20.334	114.101	MWD+IFR1+MS
5500.000	11.719	359.073	5318.121	22.873	0.000	21.055	0.000	8.451	0.000	22.643	20.715	113.434	MWD+IFR1+MS
5600.000	9.719	359.073	5416.371	23.310	0.000	21.428	0.000	8.605	0.000	23.103	21.088	112.821	MWD+IFR1+MS
5700.000	7.719	359.073	5515.210	23.710	0.000	21.792	0.000	8.749	0.000	23.555	21.452	112.263	MWD+IFR1+MS
5800.000	5.719	359.073	5614.518	24.070	0.000	22.147	0.000	8.882	0.000	23.997	21.808	111.759	MWD+IFR1+MS
5900.000	3.719	359.073	5714.174	24.393	0.000	22.494	0.000	9.008	0.000	24.428	22.155	111.307	MWD+IFR1+MS
6000.000	1.719	359.073	5814.057	24.676	0.000	22.833	0.000	9.126	0.000	24.849	22.493	110.907	MWD+IFR1+MS
6085.956	0.000	0.000	5900.000	24.890	0.000	23.089	0.000	9.224	0.000	25.177	22.775	110.693	MWD+IFR1+MS
6100.000	0.000	0.000	5914.044	24.932	0.000	23.133	0.000	9.240	0.000	25.219	22.820	110.694	MWD+IFR1+MS

6200.000	0.000	0.000	6014.044	25.231	0.000	23.456	0.000	9.353	0.000	25.516	23.145	110.753	MWD+IFR1+MS
6300.000	0.000	0.000	6114.044	25.536	0.000	23.785	0.000	9.469	0.000	25.823	23.473	110.901	MWD+IFR1+MS
6400.000	0.000	0.000	6214.044	25.842	0.000	24.114	0.000	9.588	0.000	26.131	23.801	111.049	MWD+IFR1+MS
6500.000	0.000	0.000	6314.044	26.150	0.000	24.445	0.000	9.709	0.000	26.440	24.130	111.195	MWD+IFR1+MS
6600.000	0.000	0.000	6414.044	26.459	0.000	24.776	0.000	9.833	0.000	26.751	24.460	111.340	MWD+IFR1+MS
6700.000	0.000	0.000	6514.044	26.770	0.000	25.108	0.000	9.960	0.000	27.063	24.791	111.483	MWD+IFR1+MS
6800.000	0.000	0.000	6614.044	27.081	0.000	25.441	0.000	10.089	0.000	27.376	25.123	111.626	MWD+IFR1+MS
6900.000	0.000	0.000	6714.044	27.394	0.000	25.774	0.000	10.221	0.000	27.690	25.455	111.767	MWD+IFR1+MS
7000.000	0.000	0.000	6814.044	27.707	0.000	26.108	0.000	10.357	0.000	28.006	25.788	111.907	MWD+IFR1+MS
7100.000	0.000	0.000	6914.044	28.022	0.000	26.443	0.000	10.495	0.000	28.322	26.121	112.046	MWD+IFR1+MS
7200.000	0.000	0.000	7014.044	28.338	0.000	26.778	0.000	10.636	0.000	28.639	26.456	112.184	MWD+IFR1+MS
7300.000	0.000	0.000	7114.044	28.655	0.000	27.114	0.000	10.779	0.000	28.958	26.790	112.320	MWD+IFR1+MS
7400.000	0.000	0.000	7214.044	28.973	0.000	27.450	0.000	10.926	0.000	29.277	27.126	112.456	MWD+IFR1+MS
7500.000	0.000	0.000	7314.044	29.292	0.000	27.787	0.000	11.076	0.000	29.597	27.462	112.590	MWD+IFR1+MS
7600.000	0.000	0.000	7414.044	29.611	0.000	28.125	0.000	11.229	0.000	29.918	27.798	112.723	MWD+IFR1+MS
7700.000	0.000	0.000	7514.044	29.932	0.000	28.463	0.000	11.385	0.000	30.240	28.135	112.855	MWD+IFR1+MS
7800.000	0.000	0.000	7614.044	30.253	0.000	28.801	0.000	11.544	0.000	30.563	28.473	112.986	MWD+IFR1+MS
7900.000	0.000	0.000	7714.044	30.576	0.000	29.140	0.000	11.706	0.000	30.886	28.811	113.116	MWD+IFR1+MS
8000.000	0.000	0.000	7814.044	30.899	0.000	29.480	0.000	11.871	0.000	31.211	29.149	113.245	MWD+IFR1+MS
8100.000	0.000	0.000	7914.044	31.223	0.000	29.820	0.000	12.039	0.000	31.536	29.488	113.373	MWD+IFR1+MS
8200.000	0.000	0.000	8014.044	31.547	0.000	30.160	0.000	12.210	0.000	31.862	29.827	113.499	MWD+IFR1+MS
8300.000	0.000	0.000	8114.044	31.872	0.000	30.501	0.000	12.384	0.000	32.188	30.167	113.625	MWD+IFR1+MS
8400.000	0.000	0.000	8214.044	32.198	0.000	30.842	0.000	12.561	0.000	32.516	30.507	113.749	MWD+IFR1+MS
8500.000	0.000	0.000	8314.044	32.525	0.000	31.183	0.000	12.742	0.000	32.844	30.848	113.872	MWD+IFR1+MS
8600.000	0.000	0.000	8414.044	32.852	0.000	31.525	0.000	12.926	0.000	33.172	31.189	113.995	MWD+IFR1+MS
8700.000	0.000	0.000	8514.044	33.180	0.000	31.868	0.000	13.113	0.000	33.501	31.530	114.116	MWD+IFR1+MS
8800.000	0.000	0.000	8614.044	33.509	0.000	32.210	0.000	13.303	0.000	33.831	31.872	114.236	MWD+IFR1+MS
8900.000	0.000	0.000	8714.044	33.838	0.000	32.553	0.000	13.496	0.000	34.162	32.214	114.356	MWD+IFR1+MS
9000.000	0.000	0.000	8814.044	34.168	0.000	32.896	0.000	13.692	0.000	34.493	32.556	114.474	MWD+IFR1+MS
9100.000	0.000	0.000	8914.044	34.498	0.000	33.240	0.000	13.892	0.000	34.824	32.899	114.591	MWD+IFR1+MS
9200.000	0.000	0.000	9014.044	34.829	0.000	33.584	0.000	14.095	0.000	35.156	33.242	114.707	MWD+IFR1+MS
9300.000	0.000	0.000	9114.044	35.161	0.000	33.928	0.000	14.301	0.000	35.489	33.585	114.823	MWD+IFR1+MS
9400.000	0.000	0.000	9214.044	35.493	0.000	34.273	0.000	14.510	0.000	35.822	33.929	114.937	MWD+IFR1+MS

9500.000	0.000	0.000	9314.044	35.825	0.000	34.618	0.000	14.722	0.000	0.000	36.156	34.272	115.050	MWD+IFR1+MS
9600.000	0.000	0.000	9414.044	36.158	0.000	34.963	0.000	14.938	0.000	0.000	36.490	34.617	115.163	MWD+IFR1+MS
9700.000	0.000	0.000	9514.044	36.492	0.000	35.308	0.000	15.157	0.000	0.000	36.824	34.961	115.274	MWD+IFR1+MS
9800.000	0.000	0.000	9614.044	36.826	0.000	35.654	0.000	15.379	0.000	0.000	37.159	35.306	115.385	MWD+IFR1+MS
9900.000	0.000	0.000	9714.044	37.160	0.000	36.000	0.000	15.605	0.000	0.000	37.495	35.651	115.494	MWD+IFR1+MS
10000.000	0.000	0.000	9814.044	37.495	0.000	36.346	0.000	15.833	0.000	0.000	37.831	35.996	115.603	MWD+IFR1+MS
10100.000	0.000	0.000	9914.044	37.830	0.000	36.692	0.000	16.065	0.000	0.000	38.167	36.341	115.711	MWD+IFR1+MS
10200.000	0.000	0.000	10014.044	38.166	0.000	37.039	0.000	16.301	0.000	0.000	38.504	36.687	115.817	MWD+IFR1+MS
10300.000	0.000	0.000	10114.044	38.502	0.000	37.385	0.000	16.539	0.000	0.000	38.841	37.033	115.923	MWD+IFR1+MS
10400.000	0.000	0.000	10214.044	38.839	0.000	37.732	0.000	16.781	0.000	0.000	39.179	37.379	116.028	MWD+IFR1+MS
10500.000	0.000	0.000	10314.044	39.176	0.000	38.080	0.000	17.026	0.000	0.000	39.517	37.726	116.133	MWD+IFR1+MS
10600.000	0.000	0.000	10414.044	39.513	0.000	38.427	0.000	17.274	0.000	0.000	39.855	38.072	116.236	MWD+IFR1+MS
10707.756	0.000	0.000	10521.800	39.878	0.000	38.803	0.000	17.545	0.000	0.000	40.221	38.446	116.362	MWD+IFR1+MS
10800.000	7.380	179.641	10613.789	39.463	0.000	39.105	-0.000	17.781	0.000	0.000	40.630	38.775	114.355	MWD+IFR1+MS
10900.000	15.380	179.641	10711.744	39.237	0.000	39.391	-0.000	18.106	0.000	0.000	41.735	39.142	107.437	MWD+IFR1+MS
11000.000	23.380	179.641	10806.001	38.531	0.000	39.650	-0.000	18.585	0.000	0.000	42.818	39.437	103.889	MWD+IFR1+MS
11100.000	31.380	179.641	10894.727	37.345	0.000	39.878	-0.000	19.271	0.000	0.000	43.755	39.681	102.058	MWD+IFR1+MS
11200.000	39.380	179.641	10976.194	35.794	0.000	40.075	-0.000	20.194	0.000	0.000	44.521	39.883	101.065	MWD+IFR1+MS
11300.000	47.380	179.641	11048.817	34.029	0.000	40.239	-0.000	21.354	0.000	0.000	45.113	40.047	100.546	MWD+IFR1+MS
11400.000	55.380	179.641	11111.183	32.241	0.000	40.371	-0.000	22.723	0.000	0.000	45.537	40.175	100.322	MWD+IFR1+MS
11500.000	63.380	179.641	11162.076	30.660	0.000	40.469	-0.000	24.258	0.000	0.000	45.811	40.267	100.286	MWD+IFR1+MS
11600.000	71.380	179.641	11200.507	29.538	0.000	40.535	-0.000	25.902	0.000	0.000	45.960	40.327	100.360	MWD+IFR1+MS
11700.000	79.380	179.641	11225.728	29.104	0.000	40.569	-0.000	27.597	0.000	0.000	46.019	40.356	100.468	MWD+IFR1+MS
11800.000	87.380	179.641	11237.248	29.507	0.000	40.571	-0.000	29.285	0.000	0.000	46.029	40.355	100.526	MWD+IFR1+MS
11832.756	90.000	179.641	11237.997	29.417	0.000	40.563	-0.000	29.417	0.000	0.000	46.029	40.348	100.511	MWD+IFR1+MS
11900.000	90.000	179.641	11237.997	29.575	0.000	40.547	-0.000	29.575	0.000	0.000	46.029	40.332	100.480	MWD+IFR1+MS
12000.000	90.000	179.641	11237.997	29.796	0.000	40.540	-0.000	29.796	0.000	0.000	46.030	40.325	100.461	MWD+IFR1+MS
12100.000	90.000	179.641	11237.997	30.037	0.000	40.548	-0.000	30.037	0.000	0.000	46.032	40.333	100.468	MWD+IFR1+MS
12200.000	90.000	179.641	11237.997	30.297	0.000	40.570	-0.000	30.297	0.000	0.000	46.035	40.355	100.499	MWD+IFR1+MS
12300.000	90.000	179.641	11237.997	30.575	0.000	40.607	-0.000	30.575	0.000	0.000	46.039	40.391	100.555	MWD+IFR1+MS
12400.000	90.000	179.641	11237.997	30.870	0.000	40.658	-0.000	30.870	0.000	0.000	46.044	40.441	100.636	MWD+IFR1+MS
12500.000	90.000	179.641	11237.997	31.182	0.000	40.724	-0.000	31.182	0.000	0.000	46.049	40.504	100.743	MWD+IFR1+MS
12600.000	90.000	179.641	11237.997	31.511	0.000	40.803	-0.000	31.511	0.000	0.000	46.057	40.582	100.879	MWD+IFR1+MS

12700.000	90.000	179.641	11237.997	31.856	0.000	40.897	-0.000	31.856	0.000	46.065	40.673	101.044	MWD+IFR1+MS
12800.000	90.000	179.641	11237.997	32.216	0.000	41.005	-0.000	32.216	0.000	46.074	40.778	101.241	MWD+IFR1+MS
12900.000	90.000	179.641	11237.997	32.591	0.000	41.127	-0.000	32.591	0.000	46.084	40.896	101.473	MWD+IFR1+MS
13000.000	90.000	179.641	11237.997	32.980	0.000	41.263	-0.000	32.980	0.000	46.096	41.027	101.744	MWD+IFR1+MS
13100.000	90.000	179.641	11237.997	33.383	0.000	41.413	-0.000	33.383	0.000	46.109	41.172	102.059	MWD+IFR1+MS
13200.000	90.000	179.641	11237.997	33.800	0.000	41.576	-0.000	33.800	0.000	46.124	41.329	102.422	MWD+IFR1+MS
13300.000	90.000	179.641	11237.997	34.230	0.000	41.753	-0.000	34.230	0.000	46.140	41.498	102.840	MWD+IFR1+MS
13400.000	90.000	179.641	11237.997	34.672	0.000	41.942	-0.000	34.672	0.000	46.158	41.679	103.323	MWD+IFR1+MS
13500.000	90.000	179.641	11237.997	35.126	0.000	42.145	-0.000	35.126	0.000	46.178	41.872	103.880	MWD+IFR1+MS
13600.000	90.000	179.641	11237.997	35.591	0.000	42.361	-0.000	35.591	0.000	46.200	42.077	104.523	MWD+IFR1+MS
13700.000	90.000	179.641	11237.997	36.068	0.000	42.589	-0.000	36.068	0.000	46.225	42.292	105.270	MWD+IFR1+MS
13800.000	90.000	179.641	11237.997	36.555	0.000	42.830	-0.000	36.555	0.000	46.252	42.517	106.140	MWD+IFR1+MS
13900.000	90.000	179.641	11237.997	37.053	0.000	43.083	-0.000	37.053	0.000	46.283	42.752	107.159	MWD+IFR1+MS
14000.000	90.000	179.641	11237.997	37.560	0.000	43.349	-0.000	37.560	0.000	46.318	42.995	108.359	MWD+IFR1+MS
14100.000	90.000	179.641	11237.997	38.077	0.000	43.626	-0.000	38.077	0.000	46.359	43.245	109.781	MWD+IFR1+MS
14200.000	90.000	179.641	11237.997	38.603	0.000	43.914	-0.000	38.603	0.000	46.406	43.501	111.477	MWD+IFR1+MS
14300.000	90.000	179.641	11237.997	39.137	0.000	44.214	-0.000	39.137	0.000	46.460	43.761	113.512	MWD+IFR1+MS
14400.000	90.000	179.641	11237.997	39.680	0.000	44.525	-0.000	39.680	0.000	46.526	44.022	115.962	MWD+IFR1+MS
14500.000	90.000	179.641	11237.997	40.230	0.000	44.847	-0.000	40.230	0.000	46.605	44.281	118.909	MWD+IFR1+MS
14600.000	90.000	179.641	11237.997	40.789	0.000	45.180	-0.000	40.789	0.000	46.701	44.534	122.429	MWD+IFR1+MS
14700.000	90.000	179.641	11237.997	41.355	0.000	45.523	-0.000	41.355	0.000	46.821	44.775	126.554	MWD+IFR1+MS
14800.000	90.000	179.641	11237.997	41.927	0.000	45.877	-0.000	41.927	0.000	46.969	44.998	131.232	MWD+IFR1+MS
14900.000	90.000	179.641	11237.997	42.507	0.000	46.240	-0.000	42.507	0.000	47.150	45.198	-43.722	MWD+IFR1+MS
15000.000	90.000	179.641	11237.997	43.093	0.000	46.613	-0.000	43.093	0.000	47.367	45.373	-38.602	MWD+IFR1+MS
15100.000	90.000	179.641	11237.997	43.685	0.000	46.996	-0.000	43.685	0.000	47.622	45.521	-33.730	MWD+IFR1+MS
15200.000	90.000	179.641	11237.997	44.284	0.000	47.388	-0.000	44.284	0.000	47.910	45.644	-29.343	MWD+IFR1+MS
15300.000	90.000	179.641	11237.997	44.888	0.000	47.789	-0.000	44.888	0.000	48.229	45.747	-25.549	MWD+IFR1+MS
15400.000	90.000	179.641	11237.997	45.497	0.000	48.198	-0.000	45.497	0.000	48.573	45.833	-22.347	MWD+IFR1+MS
15500.000	90.000	179.641	11237.997	46.112	0.000	48.617	-0.000	46.112	0.000	48.939	45.907	-19.674	MWD+IFR1+MS
15600.000	90.000	179.641	11237.997	46.732	0.000	49.044	-0.000	46.732	0.000	49.324	45.972	-17.448	MWD+IFR1+MS
15700.000	90.000	179.641	11237.997	47.357	0.000	49.479	-0.000	47.357	0.000	49.725	46.029	-15.589	MWD+IFR1+MS
15800.000	90.000	179.641	11237.997	47.987	0.000	49.921	-0.000	47.987	0.000	50.139	46.080	-14.027	MWD+IFR1+MS
15900.000	90.000	179.641	11237.997	48.621	0.000	50.372	-0.000	48.621	0.000	50.566	46.128	-12.705	MWD+IFR1+MS

16000.000	90.000	179.641	11237.997	49.259	0.000	50.830	-0.000	49.259	0.000	0.000	51.005	46.172	-11.577	MWD+IFR1+MS
16100.000	90.000	179.641	11237.997	49.902	0.000	51.296	-0.000	49.902	0.000	0.000	51.453	46.214	-10.607	MWD+IFR1+MS
16200.000	90.000	179.641	11237.997	50.548	0.000	51.768	-0.000	50.548	0.000	0.000	51.911	46.255	-9.766	MWD+IFR1+MS
16300.000	90.000	179.641	11237.997	51.199	0.000	52.248	-0.000	51.199	0.000	0.000	52.378	46.293	-9.033	MWD+IFR1+MS
16400.000	90.000	179.641	11237.997	51.853	0.000	52.734	-0.000	51.853	0.000	0.000	52.854	46.331	-8.389	MWD+IFR1+MS
16500.000	90.000	179.641	11237.997	52.511	0.000	53.227	-0.000	52.511	0.000	0.000	53.337	46.368	-7.819	MWD+IFR1+MS
16600.000	90.000	179.641	11237.997	53.172	0.000	53.727	-0.000	53.172	0.000	0.000	53.828	46.405	-7.313	MWD+IFR1+MS
16700.000	90.000	179.641	11237.997	53.836	0.000	54.232	-0.000	53.836	0.000	0.000	54.326	46.441	-6.861	MWD+IFR1+MS
16800.000	90.000	179.641	11237.997	54.504	0.000	54.744	-0.000	54.504	0.000	0.000	54.831	46.476	-6.454	MWD+IFR1+MS
16900.000	90.000	179.641	11237.997	55.175	0.000	55.261	-0.000	55.175	0.000	0.000	55.342	46.512	-6.088	MWD+IFR1+MS
17000.000	90.000	179.641	11237.997	55.849	0.000	55.784	-0.000	55.849	0.000	0.000	55.860	46.548	-5.756	MWD+IFR1+MS
17100.000	90.000	179.641	11237.997	56.525	0.000	56.313	-0.000	56.525	0.000	0.000	56.383	46.583	-5.454	MWD+IFR1+MS
17200.000	90.000	179.641	11237.997	57.205	0.000	56.847	-0.000	57.205	0.000	0.000	56.913	46.619	-5.179	MWD+IFR1+MS
17300.000	90.000	179.641	11237.997	57.887	0.000	57.386	-0.000	57.887	0.000	0.000	57.448	46.655	-4.927	MWD+IFR1+MS
17400.000	90.000	179.641	11237.997	58.571	0.000	57.931	-0.000	58.571	0.000	0.000	57.989	46.691	-4.696	MWD+IFR1+MS
17500.000	90.000	179.641	11237.997	59.258	0.000	58.480	-0.000	59.258	0.000	0.000	58.535	46.727	-4.483	MWD+IFR1+MS
17600.000	90.000	179.641	11237.997	59.948	0.000	59.034	-0.000	59.948	0.000	0.000	59.086	46.764	-4.286	MWD+IFR1+MS
17700.000	90.000	179.641	11237.997	60.640	0.000	59.593	-0.000	60.640	0.000	0.000	59.642	46.801	-4.104	MWD+IFR1+MS
17800.000	90.000	179.641	11237.997	61.334	0.000	60.157	-0.000	61.334	0.000	0.000	60.203	46.838	-3.935	MWD+IFR1+MS
17900.000	90.000	179.641	11237.997	62.030	0.000	60.724	-0.000	62.030	0.000	0.000	60.768	46.875	-3.778	MWD+IFR1+MS
18000.000	90.000	179.641	11237.997	62.728	0.000	61.297	-0.000	62.728	0.000	0.000	61.338	46.913	-3.631	MWD+IFR1+MS
18100.000	90.000	179.641	11237.997	63.429	0.000	61.873	-0.000	63.429	0.000	0.000	61.912	46.951	-3.495	MWD+IFR1+MS
18200.000	90.000	179.641	11237.997	64.131	0.000	62.453	-0.000	64.131	0.000	0.000	62.491	46.990	-3.367	MWD+IFR1+MS
18300.000	90.000	179.641	11237.997	64.835	0.000	63.038	-0.000	64.835	0.000	0.000	63.073	47.029	-3.247	MWD+IFR1+MS
18400.000	90.000	179.641	11237.997	65.541	0.000	63.626	-0.000	65.541	0.000	0.000	63.660	47.068	-3.135	MWD+IFR1+MS
18500.000	90.000	179.641	11237.997	66.249	0.000	64.218	-0.000	66.249	0.000	0.000	64.250	47.108	-3.029	MWD+IFR1+MS
18600.000	90.000	179.641	11237.997	66.958	0.000	64.813	-0.000	66.958	0.000	0.000	64.844	47.149	-2.930	MWD+IFR1+MS
18700.000	90.000	179.641	11237.997	67.670	0.000	65.413	-0.000	67.670	0.000	0.000	65.442	47.189	-2.836	MWD+IFR1+MS
18800.000	90.000	179.641	11237.997	68.382	0.000	66.015	-0.000	68.382	0.000	0.000	66.043	47.231	-2.748	MWD+IFR1+MS
18900.000	90.000	179.641	11237.997	69.097	0.000	66.621	-0.000	69.097	0.000	0.000	66.648	47.272	-2.664	MWD+IFR1+MS
19000.000	90.000	179.641	11237.997	69.813	0.000	67.230	-0.000	69.813	0.000	0.000	67.256	47.314	-2.585	MWD+IFR1+MS
19100.000	90.000	179.641	11237.997	70.530	0.000	67.843	-0.000	70.530	0.000	0.000	67.867	47.357	-2.510	MWD+IFR1+MS
19200.000	90.000	179.641	11237.997	71.249	0.000	68.458	-0.000	71.249	0.000	0.000	68.482	47.400	-2.439	MWD+IFR1+MS

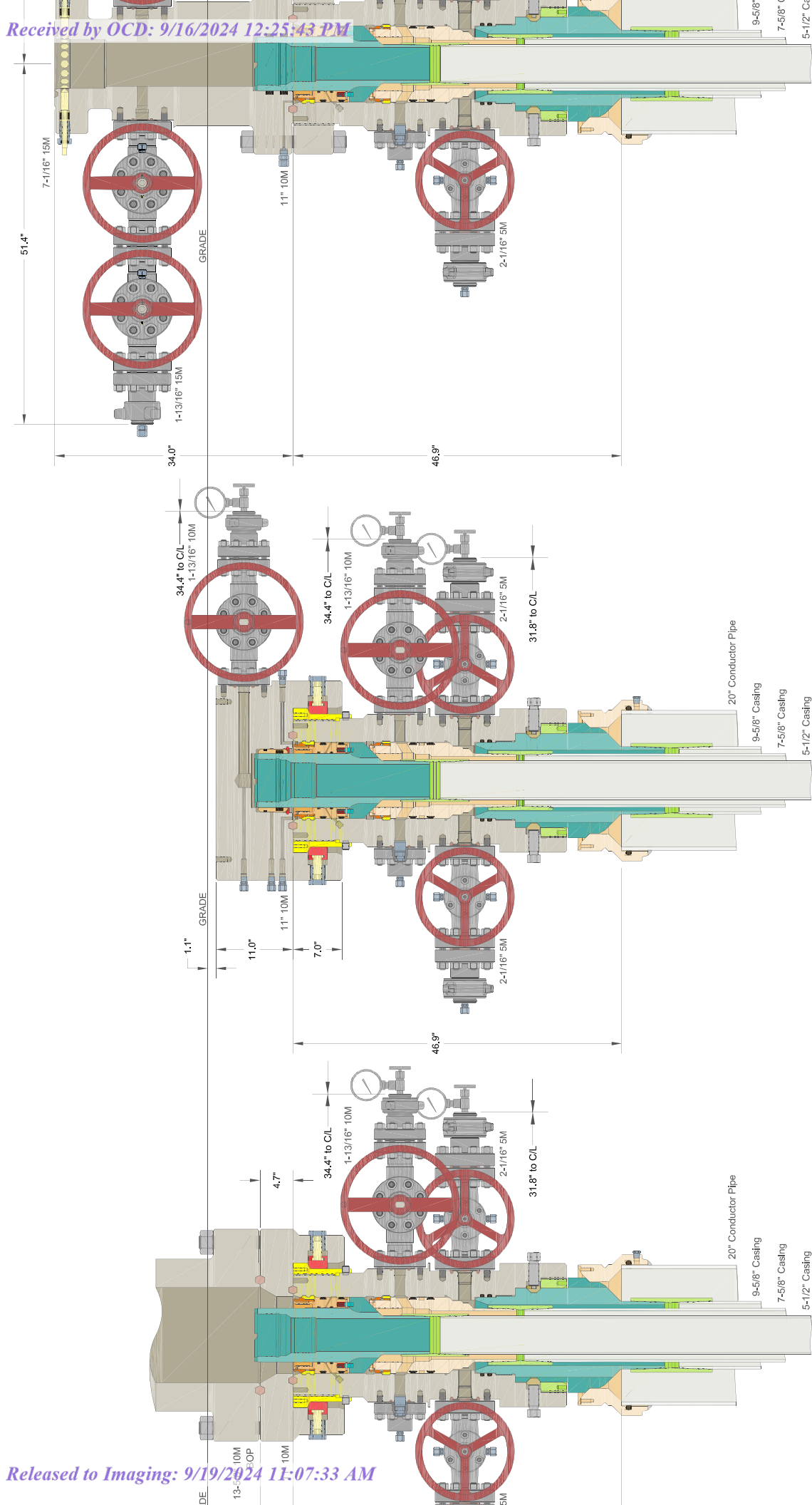
19300.000	90.000	179.641	11237.997	71.969	0.000	69.076	-0.000	71.969	0.000	0.000	69.099	47.443	-2.372	MWD+IFR1+MS
19400.000	90.000	179.641	11237.997	72.690	0.000	69.698	-0.000	72.690	0.000	0.000	69.719	47.487	-2.308	MWD+IFR1+MS
19500.000	90.000	179.641	11237.997	73.413	0.000	70.322	-0.000	73.413	0.000	0.000	70.343	47.532	-2.247	MWD+IFR1+MS
19600.000	90.000	179.641	11237.997	74.137	0.000	70.949	-0.000	74.137	0.000	0.000	70.969	47.577	-2.189	MWD+IFR1+MS
19700.000	90.000	179.641	11237.997	74.862	0.000	71.579	-0.000	74.862	0.000	0.000	71.598	47.622	-2.133	MWD+IFR1+MS
19800.000	90.000	179.641	11237.997	75.589	0.000	72.211	-0.000	75.589	0.000	0.000	72.229	47.668	-2.081	MWD+IFR1+MS
19900.000	90.000	179.641	11237.997	76.316	0.000	72.846	-0.000	76.316	0.000	0.000	72.864	47.714	-2.030	MWD+IFR1+MS
20000.000	90.000	179.641	11237.997	77.045	0.000	73.483	-0.000	77.045	0.000	0.000	73.500	47.761	-1.982	MWD+IFR1+MS
20100.000	90.000	179.641	11237.997	77.775	0.000	74.123	-0.000	77.775	0.000	0.000	74.139	47.808	-1.936	MWD+IFR1+MS
20200.000	90.000	179.641	11237.997	78.506	0.000	74.765	-0.000	78.506	0.000	0.000	74.781	47.856	-1.892	MWD+IFR1+MS
20300.000	90.000	179.641	11237.997	79.238	0.000	75.410	-0.000	79.238	0.000	0.000	75.425	47.904	-1.850	MWD+IFR1+MS
20400.000	90.000	179.641	11237.997	79.971	0.000	76.056	-0.000	79.971	0.000	0.000	76.071	47.953	-1.810	MWD+IFR1+MS
20500.000	90.000	179.641	11237.997	80.704	0.000	76.705	-0.000	80.704	0.000	0.000	76.719	48.002	-1.771	MWD+IFR1+MS
20600.000	90.000	179.641	11237.997	81.439	0.000	77.356	-0.000	81.439	0.000	0.000	77.370	48.052	-1.734	MWD+IFR1+MS
20700.000	90.000	179.641	11237.997	82.175	0.000	78.009	-0.000	82.175	0.000	0.000	78.023	48.102	-1.698	MWD+IFR1+MS
20800.000	90.000	179.641	11237.997	82.912	0.000	78.664	-0.000	82.912	0.000	0.000	78.677	48.153	-1.664	MWD+IFR1+MS
20900.000	90.000	179.641	11237.997	83.649	0.000	79.322	-0.000	83.649	0.000	0.000	79.334	48.204	-1.631	MWD+IFR1+MS
21000.000	90.000	179.641	11237.997	84.388	0.000	79.981	-0.000	84.388	0.000	0.000	79.993	48.255	-1.599	MWD+IFR1+MS
21100.000	90.000	179.641	11237.997	85.127	0.000	80.642	-0.000	85.127	0.000	0.000	80.653	48.307	-1.569	MWD+IFR1+MS
21200.000	90.000	179.641	11237.997	85.867	0.000	81.304	-0.000	85.867	0.000	0.000	81.316	48.360	-1.539	MWD+IFR1+MS
21300.000	90.000	179.641	11237.997	86.608	0.000	81.969	-0.000	86.608	0.000	0.000	81.980	48.413	-1.511	MWD+IFR1+MS
21400.000	90.000	179.641	11237.997	87.349	0.000	82.635	-0.000	87.349	0.000	0.000	82.646	48.467	-1.484	MWD+IFR1+MS
21500.000	90.000	179.641	11237.997	88.092	0.000	83.303	-0.000	88.092	0.000	0.000	83.313	48.521	-1.457	MWD+IFR1+MS
21600.000	90.000	179.641	11237.997	88.835	0.000	83.973	-0.000	88.835	0.000	0.000	83.983	48.575	-1.432	MWD+IFR1+MS
21700.000	90.000	179.641	11237.997	89.578	0.000	84.644	-0.000	89.578	0.000	0.000	84.654	48.630	-1.408	MWD+IFR1+MS
21800.000	90.000	179.641	11237.997	90.323	0.000	85.317	-0.000	90.323	0.000	0.000	85.326	48.685	-1.384	MWD+IFR1+MS
21900.000	90.000	179.641	11237.997	91.068	0.000	85.992	-0.000	91.068	0.000	0.000	86.001	48.741	-1.361	MWD+IFR1+MS
22000.000	90.000	179.641	11237.997	91.814	0.000	86.668	-0.000	91.814	0.000	0.000	86.676	48.798	-1.339	MWD+IFR1+MS
22100.000	90.000	179.641	11237.997	92.560	0.000	87.345	-0.000	92.560	0.000	0.000	87.353	48.855	-1.318	MWD+IFR1+MS
22200.000	90.000	179.641	11237.997	93.307	0.000	88.024	-0.000	93.307	0.000	0.000	88.032	48.912	-1.297	MWD+IFR1+MS
22300.000	90.000	179.641	11237.997	94.055	0.000	88.704	-0.000	94.055	0.000	0.000	88.712	48.970	-1.277	MWD+IFR1+MS
22400.000	90.000	179.641	11237.997	94.803	0.000	89.386	-0.000	94.803	0.000	0.000	89.394	49.028	-1.258	MWD+IFR1+MS
22500.000	90.000	179.641	11237.997	95.552	0.000	90.069	-0.000	95.552	0.000	0.000	90.076	49.087	-1.239	MWD+IFR1+MS

22600.000	90.000	179.641	11237.997	96.302	0.000	90.753	-0.000	96.302	0.000	90.761	49.146	-1.221	MWD+IFR1+MS
22700.000	90.000	179.641	11237.997	97.052	0.000	91.439	-0.000	97.052	0.000	91.446	49.205	-1.203	MWD+IFR1+MS
22800.000	90.000	179.641	11237.997	97.802	0.000	92.126	-0.000	97.802	0.000	92.133	49.266	-1.186	MWD+IFR1+MS
22900.000	90.000	179.641	11237.997	98.553	0.000	92.814	-0.000	98.553	0.000	92.821	49.326	-1.170	MWD+IFR1+MS
23000.000	90.000	179.641	11237.997	99.305	0.000	93.503	-0.000	99.305	0.000	93.510	49.387	-1.154	MWD+IFR1+MS
23100.000	90.000	179.641	11237.997	100.057	0.000	94.194	-0.000	100.057	0.000	94.200	49.449	-1.138	MWD+IFR1+MS
23200.000	90.000	179.641	11237.997	100.810	0.000	94.885	-0.000	100.810	0.000	94.892	49.511	-1.123	MWD+IFR1+MS
23300.000	90.000	179.641	11237.997	101.563	0.000	95.578	-0.000	101.563	0.000	95.584	49.573	-1.108	MWD+IFR1+MS
23400.000	90.000	179.641	11237.997	102.316	0.000	96.272	-0.000	102.316	0.000	96.278	49.636	-1.094	MWD+IFR1+MS
23500.000	90.000	179.641	11237.997	103.070	0.000	96.967	-0.000	103.070	0.000	96.973	49.699	-1.080	MWD+IFR1+MS
23600.000	90.000	179.641	11237.997	103.825	0.000	97.663	-0.000	103.825	0.000	97.669	49.763	-1.067	MWD+IFR1+MS
23700.000	90.000	179.641	11237.997	104.580	0.000	98.360	-0.000	104.580	0.000	98.366	49.827	-1.054	MWD+IFR1+MS
23800.000	90.000	179.641	11237.997	105.335	0.000	99.058	-0.000	105.335	0.000	99.064	49.892	-1.041	MWD+IFR1+MS
23900.000	90.000	179.641	11237.997	106.091	0.000	99.757	-0.000	106.091	0.000	99.763	49.957	-1.029	MWD+IFR1+MS
24000.000	90.000	179.641	11237.997	106.847	0.000	100.457	-0.000	106.847	0.000	100.462	50.023	-1.017	MWD+IFR1+MS
24107.914	90.000	179.641	11237.997	107.664	0.000	101.214	-0.000	107.664	0.000	101.219	50.094	-1.004	MWD+IFR1+MS
24197.915	90.000	179.641	11237.997	108.345	0.000	101.846	-0.000	108.345	0.000	101.851	50.154	-0.994	MWD+IFR1+MS

Poker Lake Unit 21 DTD South 185H

Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 28	11598.76	440442.50	639725.50	7829.00	RECTANGLE
SHL 12	11625.05	440755.57	641012.73	6733.00	RECTANGLE
LTP 28	24107.91	427451.40	639806.90	7829.00	RECTANGLE
BHL 28	24197.91	427361.40	639807.30	7829.00	RECTANGLE



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	—

Notes

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

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U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

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

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

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

Notes

- 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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10,000 PSI Annular BOP Variance Request

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

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

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

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Production Casing

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

General Procedure With No Pipe In Hole (Open Hole)

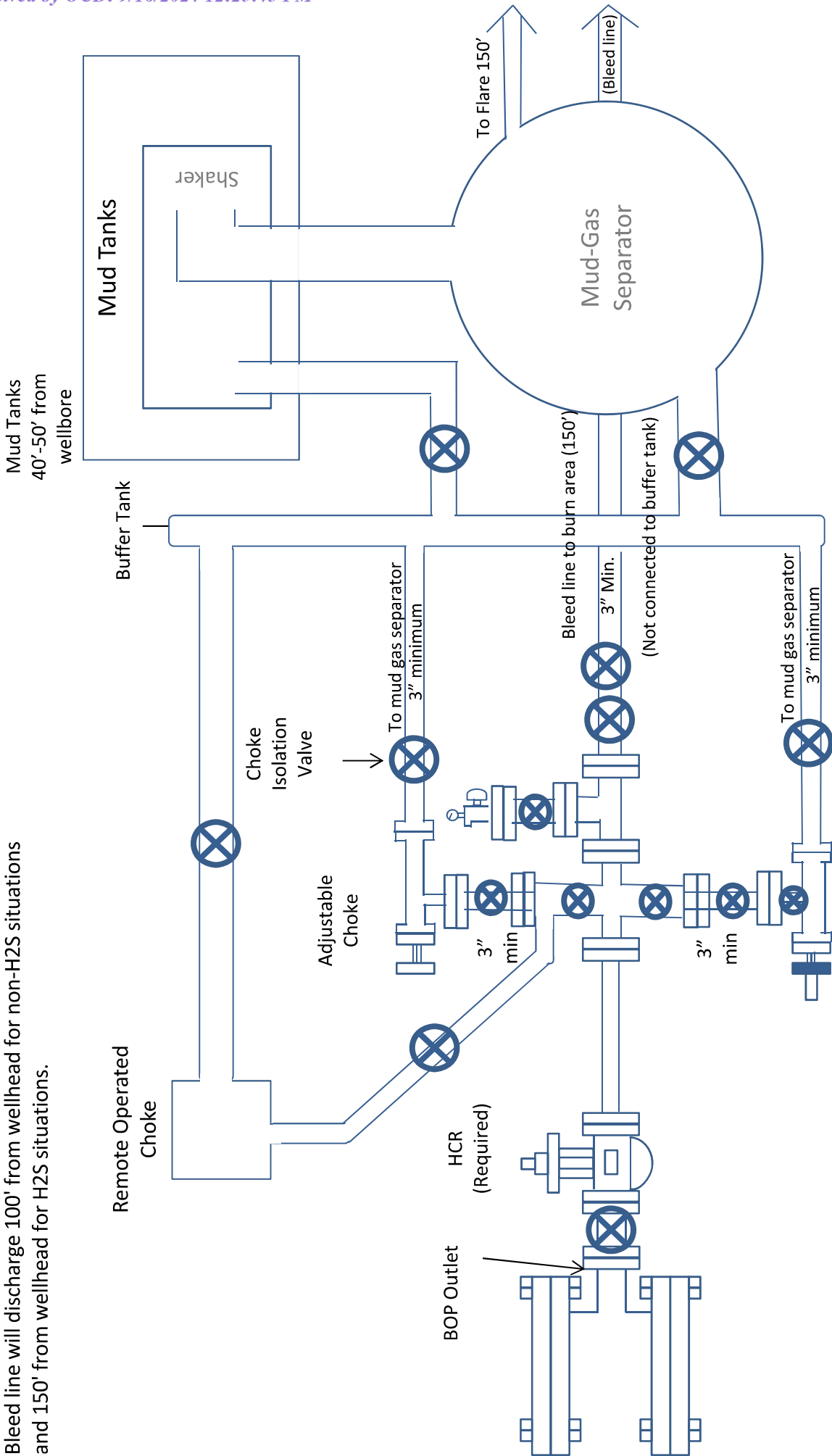
1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

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

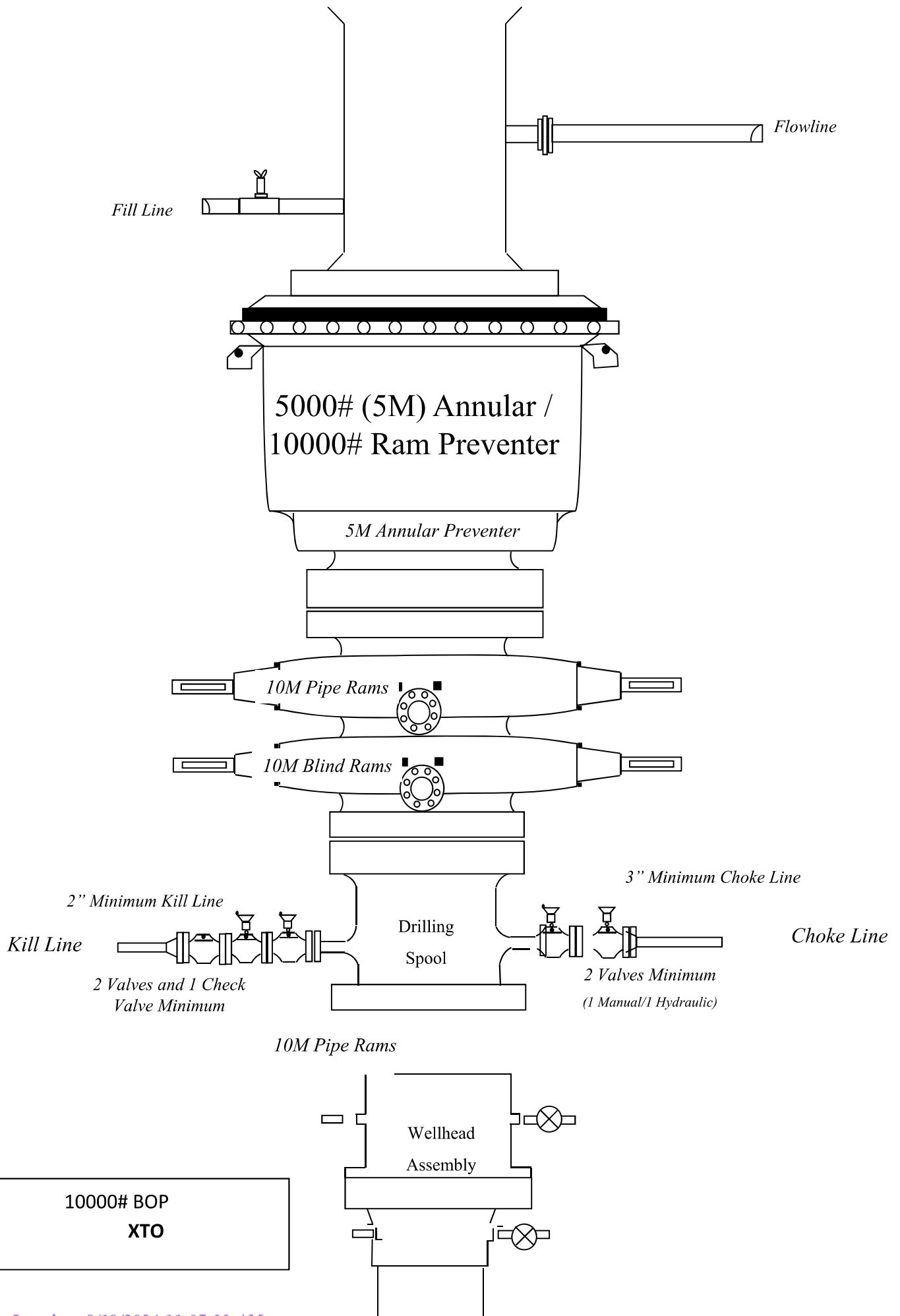
- h. Regroup and identify forward plan
 - 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of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

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



10M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
10M Service**



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

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 383925

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 383925
	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