

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

Well Name: POKER LAKE UNIT 21 DTD	Well Location: T24S / R30E / SEC 21 / NENW / 32.209381 / -103.889304	County or Parish/State: EDDY / NM
Well Number: 182H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC0068430	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001553262	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2784124

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024

Time Sundry Submitted: 01:14

Date proposed operation will begin: 04/30/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: FTP: 386' FNL & 1768' FWL OF SECTION 21-T24S-R30E 100' FNL & 1734' FWL OF SECTION 21-T24S-R30E LTP: 329' FNL & 1769' FWL OF SECTION 33-T23S-R30E 2541' FNL & 1734' FWL OF SECTION 33-T24S-R30E BHL: 200' FNL & 1769' FWL OF SECTION 33-T23S-R30E 2631' FNL & 1734' FWL OF SECTION 33-T24S-R30E The proposed total depth is changing from 33676' MD; 11987' TVD (Wolfcamp) to 23726' MD; 10930' TVD (Wolfcamp X/Y). A saturated salt brine will be utilized while drilling through the salt formations. See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

NOI Attachments

Procedure Description

PLU_21_DTD_182H_Sundry_Attachments_20240718143556.pdf

Well Name: POKER LAKE UNIT 21
DTD

Well Location: T24S / R30E / SEC 21 /
NENW / 32.209381 / -103.889304

County or Parish/State: EDDY /
NM

Well Number: 182H

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMLC0068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553262

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

Plu_21_DTD_182H_COA_20240722150148.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 18, 2024 02:36 PM

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: 07/23/2024

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.

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.

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. (include area code)

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

11. Country or Parish, State

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"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<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"/> 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 recomplete 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 performed 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 determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

See attached Drilling Plan for updated cement and casing program.

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

Location of Well

0. SHL: NENW / 396 FNL / 1726 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209381 / LONG: -103.889304 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 386 FNL / 1768 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209407 / LONG: -103.889169 (TVD: 11987 feet, MD: 12331 feet)

BHL: NENW / 200 FNL / 1769 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268082 / LONG: -103.88916 (TVD: 11987 feet, MD: 33676 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 182H SURFACE HOLE FOOTAGE: 396'/N & 1726'/W BOTTOM HOLE FOOTAGE: 00'/S & 00'/E

Changes approved through engineering via **Sundry 2784124** on 7-22-2024. Any previous COAs not addressed within the updated COAs still apply.

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **950** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping

- cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6250'**
 - 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.
- a. **Second stage above DV tool:** Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing 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; (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 7/22/2024
575-234-5998 / zstevens@blm.gov

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

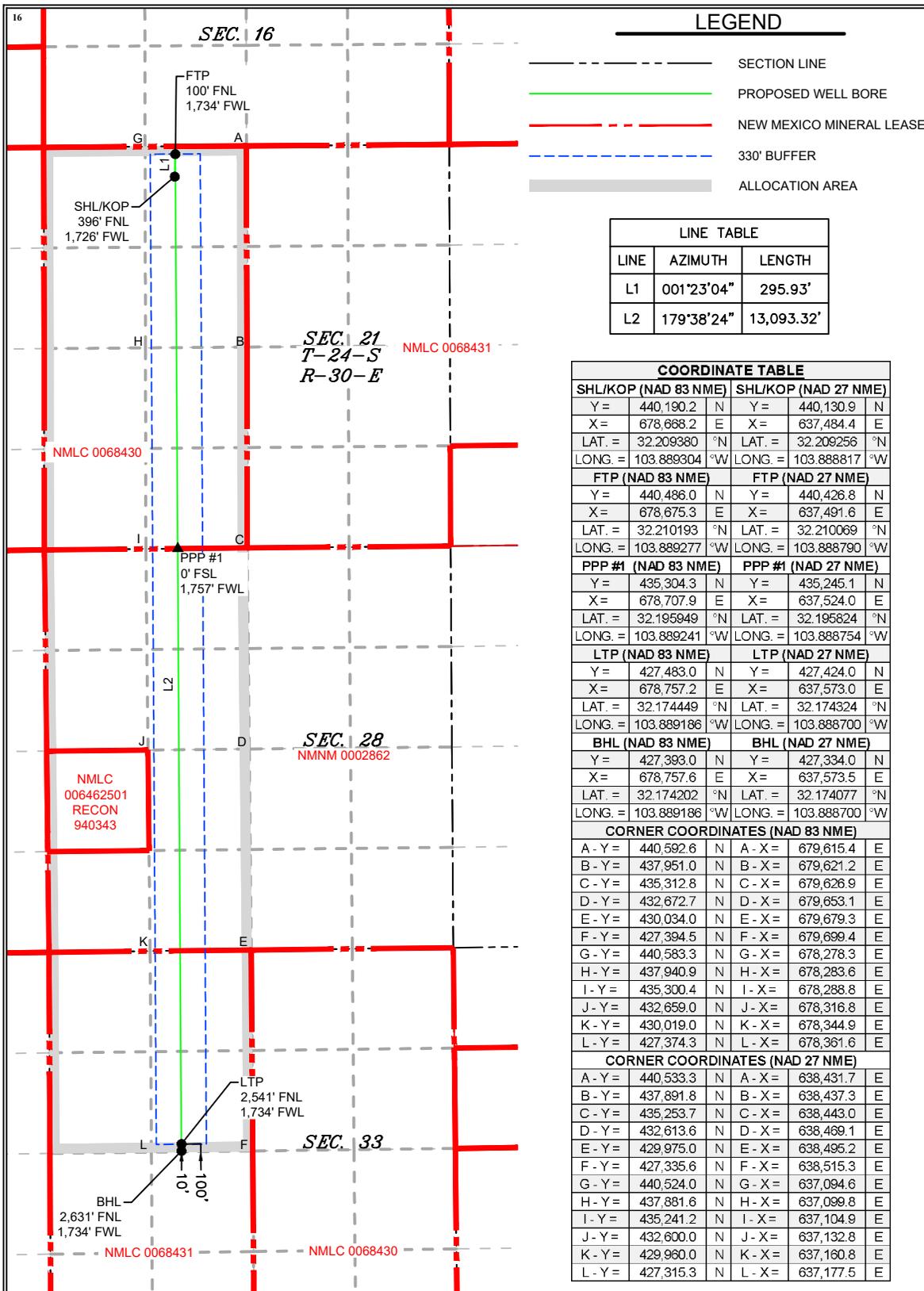
Table with 3 columns: API Number (30-015-53262), Pool Code (98220), Pool Name (PURPLE SAGE;WOLFCAMP (GAS)), Property Code (333671), Property Name (POKER LAKE UNIT 21 DTD), Well Number (182H), OGRID No. (373075), Operator Name (XTO PERMIAN OPERATING, LLC.), Elevation (3,327')

Table for 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 (1,726), East/West line (WEST), County (EDDY)

Table for Bottom Hole Location If Different From Surface: UL or lot no. (F), Section (33), Township (24S), Range (30E), Lot Idn, Feet from the (2,631), North/South line (NORTH), Feet from the (1,734), East/West line (WEST), County (EDDY)

Table for Well Details: Dedicated Acres (800.00), Joint or Infill, Consolidation Code, Order No.

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



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

Emily Rivera 7/15/2024
Signature Date
Emily Rivera
Printed Name
emily.a.rivera@exxonmobil.com
E-mail Address

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

7/15/2024
Date of Survey
Signature and Seal of Professional Surveyor:
MARK DILLON HARP
NEW MEXICO
PROFESSIONAL SURVEYOR
23786
MARK DILLON HARP 23786
Certificate Number
RP 618.013003.07-47

618.013 XTO Energy - NM\003 Poker Lake Unit\07 - PLU 21 DTD - EDDY\Wells\47 - 182H\DWG\182H C-102.dwg

Intent As Drilled

API #									
Operator Name:					Property Name:				Well Number

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

Last Take Point (LTP)

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

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 182H
Projected TD: 23726' MD / 10930' TVD
SHL: 396' FNL & 1726' FWL , Section 21, T24S, R30E
BHL: 2631' FNL & 1734' 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	914'	Water
Top of Salt	1317'	Water
Base of Salt	3510'	Water
Delaware	3704'	Water
Brushy Canyon	6250'	Water/Oil/Gas
Bone Spring	7574'	Water
Avalon	8267'	Water/Oil/Gas
1st Bone Spring	8283'	Water/Oil/Gas
2nd Bone Spring	8868'	Water/Oil/Gas
3rd Bone Spring	9694'	Water/Oil/Gas
Wolfcamp	10879'	Water/Oil/Gas
Wolfcamp X	10900'	Water/Oil/Gas
Target/Land Curve	10930'	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 @ 1014' (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 10024' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23726 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9724 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1014'	9.625	40	J-55	BTC	New	1.66	6.21	15.53
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.29	2.92	1.87
8.75	4000' – 10024'	7.625	29.7	HC L-80	Flush Joint	New	1.67	2.38	2.27
6.75	0' – 9924'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.87	2.04
6.75	9924' - 23726'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.70	2.04

- 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
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

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 +/- 1014'

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

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

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10024'

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

TOC: Brushy Canyon @ 6250

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

2nd Stage

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

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

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6250') 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 +/- 23726'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9724 feet

Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10224 feet

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

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

5. Pressure Control Equipment

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

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

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 1014'	12.25	FW/Native	8.5-9	35-40	NC	Fresh water or native water
1014' - 10024'	8.75	Saturated brine for salt interval / Direct emulsion	10-10.5	30-32	NC	Fully saturated salt across salado / salt
10024' - 23726'	6.75	OBM	13-13.5	50-60	NC - 20	N/A

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

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

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 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 6536 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 182H

Measured Depth: 23725.91 ft

TVD RKB: 10930.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 440130.90 ft

Easting: 637484.40 ft

RKB: 3359.00 ft

Ground Level: 3327.00 ft

North Reference: Grid

Convergence Angle: 0.24 Deg

Plan Sections

Poker Lake Unit 21 DTD South 182H

Measured			TVD			Build	Turn	Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1301.64	4.03	1.39	1301.47	7.09	0.17	2.00	0.00	2.00	
5308.61	4.03	1.39	5298.53	288.81	7.03	0.00	0.00	0.00	
5510.25	0.00	0.00	5500.00	295.90	7.20	-2.00	0.00	2.00	
10224.05	0.00	0.00	10213.80	295.90	7.20	0.00	0.00	0.00	
11349.05	90.00	179.64	10930.00	-420.28	11.69	8.00	0.00	8.00	
23635.91	90.00	179.64	10930.00	-12706.90	88.67	0.00	0.00	0.00	LTP 25
23725.91	90.00	179.64	10930.00	-12796.90	89.24	0.00	0.00	0.00	BHL 25

Position Uncertainty

Poker Lake Unit 21 DTD South 182H

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	2.309	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	2.580	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	1.394	1199.980	4.981	0.000	4.568	0.000	2.690	0.000	0.000	5.280	4.221	124.768	MWD+IFR1+MS
1301.640	4.033	1.394	1301.474	5.805	0.000	4.936	0.000	2.751	0.000	0.000	6.065	4.624	117.499	MWD+IFR1+MS
1400.000	4.033	1.394	1399.590	6.263	0.000	5.289	0.000	2.813	0.000	0.000	6.529	4.968	116.761	MWD+IFR1+MS
1500.000	4.033	1.394	1499.342	6.581	0.000	5.649	0.000	2.878	0.000	0.000	6.852	5.326	117.279	MWD+IFR1+MS
1600.000	4.033	1.394	1599.095	6.903	0.000	6.009	0.000	2.946	0.000	0.000	7.180	5.684	117.770	MWD+IFR1+MS
1700.000	4.033	1.394	1698.847	7.230	0.000	6.369	0.000	3.017	0.000	0.000	7.511	6.042	118.225	MWD+IFR1+MS
1800.000	4.033	1.394	1798.600	7.559	0.000	6.729	0.000	3.090	0.000	0.000	7.844	6.400	118.648	MWD+IFR1+MS
1900.000	4.033	1.394	1898.352	7.891	0.000	7.088	0.000	3.165	0.000	0.000	8.180	6.758	119.041	MWD+IFR1+MS
2000.000	4.033	1.394	1998.104	8.226	0.000	7.448	0.000	3.242	0.000	0.000	8.518	7.116	119.408	MWD+IFR1+MS
2100.000	4.033	1.394	2097.857	8.563	0.000	7.808	0.000	3.320	0.000	0.000	8.858	7.474	119.749	MWD+IFR1+MS
2200.000	4.033	1.394	2197.609	8.902	0.000	8.167	0.000	3.401	0.000	0.000	9.200	7.832	120.067	MWD+IFR1+MS
2300.000	4.033	1.394	2297.362	9.243	0.000	8.527	0.000	3.483	0.000	0.000	9.543	8.190	120.365	MWD+IFR1+MS
2400.000	4.033	1.394	2397.114	9.585	0.000	8.886	0.000	3.566	0.000	0.000	9.888	8.548	120.643	MWD+IFR1+MS
2500.000	4.033	1.394	2496.866	9.928	0.000	9.246	0.000	3.651	0.000	0.000	10.234	8.906	120.903	MWD+IFR1+MS
2600.000	4.033	1.394	2596.619	10.273	0.000	9.605	0.000	3.738	0.000	0.000	10.580	9.264	121.147	MWD+IFR1+MS
2700.000	4.033	1.394	2696.371	10.619	0.000	9.965	0.000	3.826	0.000	0.000	10.928	9.623	121.376	MWD+IFR1+MS
2800.000	4.033	1.394	2796.124	10.966	0.000	10.324	0.000	3.916	0.000	0.000	11.277	9.981	121.590	MWD+IFR1+MS
2900.000	4.033	1.394	2895.876	11.314	0.000	10.684	0.000	4.006	0.000	0.000	11.626	10.340	121.791	MWD+IFR1+MS
3000.000	4.033	1.394	2995.628	11.663	0.000	11.043	0.000	4.099	0.000	0.000	11.976	10.698	121.980	MWD+IFR1+MS

3100.000	4.033	1.394	3095.381	12.013	0.000	11.402	0.000	4.192	0.000	0.000	12.326	11.057	122.157	MWD+IFR1+MS
3200.000	4.033	1.394	3195.133	12.363	0.000	11.762	0.000	4.287	0.000	0.000	12.678	11.415	122.324	MWD+IFR1+MS
3300.000	4.033	1.394	3294.886	12.714	0.000	12.121	0.000	4.383	0.000	0.000	13.030	11.774	122.481	MWD+IFR1+MS
3400.000	4.033	1.394	3394.638	13.066	0.000	12.481	0.000	4.481	0.000	0.000	13.382	12.132	122.628	MWD+IFR1+MS
3500.000	4.033	1.394	3494.390	13.418	0.000	12.840	0.000	4.580	0.000	0.000	13.734	12.491	122.767	MWD+IFR1+MS
3600.000	4.033	1.394	3594.143	13.770	0.000	13.199	0.000	4.681	0.000	0.000	14.088	12.850	122.898	MWD+IFR1+MS
3700.000	4.033	1.394	3693.895	14.124	0.000	13.559	0.000	4.783	0.000	0.000	14.441	13.209	123.021	MWD+IFR1+MS
3800.000	4.033	1.394	3793.647	14.477	0.000	13.918	0.000	4.886	0.000	0.000	14.795	13.567	123.137	MWD+IFR1+MS
3900.000	4.033	1.394	3893.400	14.831	0.000	14.277	0.000	4.991	0.000	0.000	15.149	13.926	123.246	MWD+IFR1+MS
4000.000	4.033	1.394	3993.152	15.185	0.000	14.637	0.000	5.097	0.000	0.000	15.504	14.285	123.349	MWD+IFR1+MS
4100.000	4.033	1.394	4092.905	15.540	0.000	14.996	0.000	5.205	0.000	0.000	15.859	14.644	123.446	MWD+IFR1+MS
4200.000	4.033	1.394	4192.657	15.895	0.000	15.355	0.000	5.314	0.000	0.000	16.214	15.003	123.537	MWD+IFR1+MS
4300.000	4.033	1.394	4292.409	16.250	0.000	15.715	0.000	5.425	0.000	0.000	16.569	15.362	123.622	MWD+IFR1+MS
4400.000	4.033	1.394	4392.162	16.606	0.000	16.074	0.000	5.538	0.000	0.000	16.925	15.721	123.703	MWD+IFR1+MS
4500.000	4.033	1.394	4491.914	16.962	0.000	16.433	0.000	5.652	0.000	0.000	17.280	16.080	123.779	MWD+IFR1+MS
4600.000	4.033	1.394	4591.667	17.318	0.000	16.792	0.000	5.768	0.000	0.000	17.636	16.439	123.850	MWD+IFR1+MS
4700.000	4.033	1.394	4691.419	17.674	0.000	17.152	0.000	5.886	0.000	0.000	17.992	16.798	123.917	MWD+IFR1+MS
4800.000	4.033	1.394	4791.171	18.031	0.000	17.511	0.000	6.005	0.000	0.000	18.349	17.157	123.980	MWD+IFR1+MS
4900.000	4.033	1.394	4890.924	18.388	0.000	17.870	0.000	6.126	0.000	0.000	18.705	17.516	124.039	MWD+IFR1+MS
5000.000	4.033	1.394	4990.676	18.745	0.000	18.230	0.000	6.249	0.000	0.000	19.062	17.875	124.094	MWD+IFR1+MS
5100.000	4.033	1.394	5090.429	19.102	0.000	18.589	0.000	6.374	0.000	0.000	19.419	18.234	124.146	MWD+IFR1+MS
5200.000	4.033	1.394	5190.181	19.459	0.000	18.948	0.000	6.501	0.000	0.000	19.776	18.594	124.195	MWD+IFR1+MS
5308.614	4.033	1.394	5298.526	19.849	0.000	19.340	0.000	6.641	0.000	0.000	20.167	18.984	124.280	MWD+IFR1+MS
5400.000	2.205	1.394	5389.773	20.207	0.000	19.667	0.000	6.761	0.000	0.000	20.523	19.312	123.797	MWD+IFR1+MS
5500.000	0.205	1.394	5489.746	20.651	0.000	20.024	0.000	6.892	0.000	0.000	20.976	19.680	122.011	MWD+IFR1+MS
5510.254	0.000	0.000	5500.000	20.656	0.000	20.088	0.000	6.905	0.000	0.000	21.011	19.716	121.997	MWD+IFR1+MS
5600.000	0.000	0.000	5589.746	20.965	0.000	20.401	0.000	7.023	0.000	0.000	21.316	20.034	121.945	MWD+IFR1+MS
5700.000	0.000	0.000	5689.746	21.315	0.000	20.757	0.000	7.156	0.000	0.000	21.666	20.390	122.018	MWD+IFR1+MS
5800.000	0.000	0.000	5789.746	21.666	0.000	21.113	0.000	7.292	0.000	0.000	22.018	20.746	122.106	MWD+IFR1+MS
5900.000	0.000	0.000	5889.746	22.017	0.000	21.469	0.000	7.429	0.000	0.000	22.370	21.102	122.192	MWD+IFR1+MS
6000.000	0.000	0.000	5989.746	22.369	0.000	21.826	0.000	7.569	0.000	0.000	22.722	21.458	122.275	MWD+IFR1+MS
6100.000	0.000	0.000	6089.746	22.720	0.000	22.182	0.000	7.711	0.000	0.000	23.074	21.814	122.356	MWD+IFR1+MS
6200.000	0.000	0.000	6189.746	23.072	0.000	22.539	0.000	7.856	0.000	0.000	23.427	22.170	122.435	MWD+IFR1+MS

6300.000	0.000	0.000	6289.746	23.424	0.000	22.895	0.000	8.002	0.000	0.000	23.780	22.526	122.512	MWD+IFR1+MS
6400.000	0.000	0.000	6389.746	23.777	0.000	23.252	0.000	8.152	0.000	0.000	24.133	22.882	122.588	MWD+IFR1+MS
6500.000	0.000	0.000	6489.746	24.129	0.000	23.609	0.000	8.303	0.000	0.000	24.486	23.239	122.661	MWD+IFR1+MS
6600.000	0.000	0.000	6589.746	24.482	0.000	23.965	0.000	8.457	0.000	0.000	24.839	23.595	122.732	MWD+IFR1+MS
6700.000	0.000	0.000	6689.746	24.835	0.000	24.322	0.000	8.614	0.000	0.000	25.192	23.951	122.802	MWD+IFR1+MS
6800.000	0.000	0.000	6789.746	25.188	0.000	24.679	0.000	8.773	0.000	0.000	25.546	24.308	122.870	MWD+IFR1+MS
6900.000	0.000	0.000	6889.746	25.541	0.000	25.036	0.000	8.934	0.000	0.000	25.900	24.664	122.937	MWD+IFR1+MS
7000.000	0.000	0.000	6989.746	25.894	0.000	25.393	0.000	9.098	0.000	0.000	26.253	25.021	123.002	MWD+IFR1+MS
7100.000	0.000	0.000	7089.746	26.247	0.000	25.750	0.000	9.265	0.000	0.000	26.607	25.378	123.065	MWD+IFR1+MS
7200.000	0.000	0.000	7189.746	26.601	0.000	26.107	0.000	9.434	0.000	0.000	26.961	25.734	123.128	MWD+IFR1+MS
7300.000	0.000	0.000	7289.746	26.955	0.000	26.464	0.000	9.605	0.000	0.000	27.316	26.091	123.188	MWD+IFR1+MS
7400.000	0.000	0.000	7389.746	27.308	0.000	26.821	0.000	9.780	0.000	0.000	27.670	26.448	123.248	MWD+IFR1+MS
7500.000	0.000	0.000	7489.746	27.662	0.000	27.178	0.000	9.957	0.000	0.000	28.024	26.805	123.306	MWD+IFR1+MS
7600.000	0.000	0.000	7589.746	28.016	0.000	27.535	0.000	10.136	0.000	0.000	28.379	27.162	123.362	MWD+IFR1+MS
7700.000	0.000	0.000	7689.746	28.370	0.000	27.893	0.000	10.319	0.000	0.000	28.733	27.519	123.418	MWD+IFR1+MS
7800.000	0.000	0.000	7789.746	28.725	0.000	28.250	0.000	10.504	0.000	0.000	29.088	27.876	123.472	MWD+IFR1+MS
7900.000	0.000	0.000	7889.746	29.079	0.000	28.607	0.000	10.692	0.000	0.000	29.443	28.233	123.525	MWD+IFR1+MS
8000.000	0.000	0.000	7989.746	29.434	0.000	28.965	0.000	10.882	0.000	0.000	29.798	28.590	123.577	MWD+IFR1+MS
8100.000	0.000	0.000	8089.746	29.788	0.000	29.322	0.000	11.075	0.000	0.000	30.153	28.947	123.628	MWD+IFR1+MS
8200.000	0.000	0.000	8189.746	30.143	0.000	29.679	0.000	11.271	0.000	0.000	30.508	29.304	123.678	MWD+IFR1+MS
8300.000	0.000	0.000	8289.746	30.497	0.000	30.037	0.000	11.470	0.000	0.000	30.863	29.661	123.727	MWD+IFR1+MS
8400.000	0.000	0.000	8389.746	30.852	0.000	30.394	0.000	11.672	0.000	0.000	31.218	30.018	123.775	MWD+IFR1+MS
8500.000	0.000	0.000	8489.746	31.207	0.000	30.751	0.000	11.876	0.000	0.000	31.574	30.375	123.822	MWD+IFR1+MS
8600.000	0.000	0.000	8589.746	31.562	0.000	31.109	0.000	12.083	0.000	0.000	31.929	30.732	123.868	MWD+IFR1+MS
8700.000	0.000	0.000	8689.746	31.917	0.000	31.466	0.000	12.293	0.000	0.000	32.284	31.090	123.914	MWD+IFR1+MS
8800.000	0.000	0.000	8789.746	32.272	0.000	31.824	0.000	12.506	0.000	0.000	32.640	31.447	123.958	MWD+IFR1+MS
8900.000	0.000	0.000	8889.746	32.628	0.000	32.181	0.000	12.722	0.000	0.000	32.995	31.804	124.001	MWD+IFR1+MS
9000.000	0.000	0.000	8989.746	32.983	0.000	32.539	0.000	12.941	0.000	0.000	33.351	32.161	124.044	MWD+IFR1+MS
9100.000	0.000	0.000	9089.746	33.338	0.000	32.897	0.000	13.162	0.000	0.000	33.707	32.519	124.086	MWD+IFR1+MS
9200.000	0.000	0.000	9189.746	33.694	0.000	33.254	0.000	13.387	0.000	0.000	34.062	32.876	124.127	MWD+IFR1+MS
9300.000	0.000	0.000	9289.746	34.049	0.000	33.612	0.000	13.614	0.000	0.000	34.418	33.234	124.167	MWD+IFR1+MS
9400.000	0.000	0.000	9389.746	34.405	0.000	33.969	0.000	13.845	0.000	0.000	34.774	33.591	124.207	MWD+IFR1+MS
9500.000	0.000	0.000	9489.746	34.760	0.000	34.327	0.000	14.078	0.000	0.000	35.130	33.948	124.246	MWD+IFR1+MS

9600.000	0.000	0.000	9589.746	35.116	0.000	34.685	0.000	14.314	0.000	0.000	35.486	34.306	124.284	MWD+IFR1+MS
9700.000	0.000	0.000	9689.746	35.472	0.000	35.042	0.000	14.553	0.000	0.000	35.842	34.663	124.321	MWD+IFR1+MS
9800.000	0.000	0.000	9789.746	35.827	0.000	35.400	0.000	14.795	0.000	0.000	36.198	35.021	124.358	MWD+IFR1+MS
9900.000	0.000	0.000	9889.746	36.183	0.000	35.758	0.000	15.040	0.000	0.000	36.554	35.378	124.394	MWD+IFR1+MS
10000.000	0.000	0.000	9989.746	36.539	0.000	36.115	0.000	15.288	0.000	0.000	36.910	35.736	124.430	MWD+IFR1+MS
10100.000	0.000	0.000	10089.746	36.895	0.000	36.473	0.000	15.539	0.000	0.000	37.267	36.093	124.465	MWD+IFR1+MS
10200.000	0.000	0.000	10189.746	37.251	0.000	36.831	0.000	15.793	0.000	0.000	37.623	36.451	124.499	MWD+IFR1+MS
10224.054	0.000	0.000	10213.800	37.336	0.000	36.916	0.000	15.854	0.000	0.000	37.707	36.537	124.489	MWD+IFR1+MS
10300.000	6.076	179.641	10289.603	37.399	0.000	37.175	-0.000	16.050	0.000	0.000	38.020	36.817	122.491	MWD+IFR1+MS
10400.000	14.076	179.641	10387.981	37.717	0.000	37.482	-0.000	16.365	0.000	0.000	39.034	37.251	110.531	MWD+IFR1+MS
10500.000	22.076	179.641	10482.969	37.710	0.000	37.774	-0.000	16.843	0.000	0.000	40.237	37.597	104.413	MWD+IFR1+MS
10600.000	30.076	179.641	10572.717	37.168	0.000	38.047	-0.000	17.533	0.000	0.000	41.310	37.889	101.789	MWD+IFR1+MS
10700.000	38.076	179.641	10655.480	36.164	0.000	38.297	-0.000	18.467	0.000	0.000	42.212	38.146	100.494	MWD+IFR1+MS
10800.000	46.076	179.641	10729.646	34.801	0.000	38.524	-0.000	19.642	0.000	0.000	42.932	38.372	99.846	MWD+IFR1+MS
10900.000	54.076	179.641	10793.771	33.212	0.000	38.725	-0.000	21.030	0.000	0.000	43.472	38.570	99.571	MWD+IFR1+MS
11000.000	62.076	179.641	10846.608	31.571	0.000	38.899	-0.000	22.583	0.000	0.000	43.843	38.739	99.533	MWD+IFR1+MS
11100.000	70.076	179.641	10887.128	30.081	0.000	39.046	-0.000	24.246	0.000	0.000	44.069	38.880	99.649	MWD+IFR1+MS
11200.000	78.076	179.641	10914.543	28.973	0.000	39.166	-0.000	25.959	0.000	0.000	44.182	38.992	99.846	MWD+IFR1+MS
11300.000	86.076	179.641	10928.318	28.463	0.000	39.256	-0.000	27.665	0.000	0.000	44.221	39.078	100.045	MWD+IFR1+MS
11349.054	90.000	179.641	10929.997	27.935	0.000	39.287	-0.000	27.935	0.000	0.000	44.226	39.108	100.102	MWD+IFR1+MS
11400.000	90.000	179.641	10929.997	28.031	0.000	39.317	-0.000	28.031	0.000	0.000	44.230	39.137	100.156	MWD+IFR1+MS
11500.000	90.000	179.641	10929.997	28.184	0.000	39.391	-0.000	28.184	0.000	0.000	44.237	39.208	100.294	MWD+IFR1+MS
11600.000	90.000	179.641	10929.997	28.362	0.000	39.481	-0.000	28.362	0.000	0.000	44.246	39.296	100.467	MWD+IFR1+MS
11700.000	90.000	179.641	10929.997	28.559	0.000	39.586	-0.000	28.559	0.000	0.000	44.255	39.398	100.676	MWD+IFR1+MS
11800.000	90.000	179.641	10929.997	28.777	0.000	39.706	-0.000	28.777	0.000	0.000	44.266	39.514	100.922	MWD+IFR1+MS
11900.000	90.000	179.641	10929.997	29.014	0.000	39.840	-0.000	29.014	0.000	0.000	44.278	39.643	101.212	MWD+IFR1+MS
12000.000	90.000	179.641	10929.997	29.271	0.000	39.988	-0.000	29.271	0.000	0.000	44.291	39.786	101.549	MWD+IFR1+MS
12100.000	90.000	179.641	10929.997	29.546	0.000	40.150	-0.000	29.546	0.000	0.000	44.306	39.942	101.941	MWD+IFR1+MS
12200.000	90.000	179.641	10929.997	29.839	0.000	40.327	-0.000	29.839	0.000	0.000	44.323	40.111	102.397	MWD+IFR1+MS
12300.000	90.000	179.641	10929.997	30.150	0.000	40.516	-0.000	30.150	0.000	0.000	44.341	40.293	102.926	MWD+IFR1+MS
12400.000	90.000	179.641	10929.997	30.477	0.000	40.720	-0.000	30.477	0.000	0.000	44.361	40.486	103.542	MWD+IFR1+MS
12500.000	90.000	179.641	10929.997	30.822	0.000	40.936	-0.000	30.822	0.000	0.000	44.384	40.691	104.261	MWD+IFR1+MS
12600.000	90.000	179.641	10929.997	31.182	0.000	41.166	-0.000	31.182	0.000	0.000	44.409	40.907	105.106	MWD+IFR1+MS

12700.000	90.000	179.641	10929.997	31.558	0.000	41.409	-0.000	31.558	0.000	0.000	44.437	41.134	106.102	MWD+IFR1+MS
12800.000	90.000	179.641	10929.997	31.948	0.000	41.664	-0.000	31.948	0.000	0.000	44.470	41.370	107.287	MWD+IFR1+MS
12900.000	90.000	179.641	10929.997	32.353	0.000	41.932	-0.000	32.353	0.000	0.000	44.507	41.614	108.706	MWD+IFR1+MS
13000.000	90.000	179.641	10929.997	32.772	0.000	42.212	-0.000	32.772	0.000	0.000	44.550	41.864	110.419	MWD+IFR1+MS
13100.000	90.000	179.641	10929.997	33.204	0.000	42.504	-0.000	33.204	0.000	0.000	44.601	42.120	112.502	MWD+IFR1+MS
13200.000	90.000	179.641	10929.997	33.648	0.000	42.807	-0.000	33.648	0.000	0.000	44.662	42.377	115.050	MWD+IFR1+MS
13300.000	90.000	179.641	10929.997	34.105	0.000	43.122	-0.000	34.105	0.000	0.000	44.737	42.633	118.170	MWD+IFR1+MS
13400.000	90.000	179.641	10929.997	34.574	0.000	43.448	-0.000	34.574	0.000	0.000	44.830	42.883	121.965	MWD+IFR1+MS
13500.000	90.000	179.641	10929.997	35.054	0.000	43.786	-0.000	35.054	0.000	0.000	44.947	43.120	126.486	MWD+IFR1+MS
13600.000	90.000	179.641	10929.997	35.545	0.000	44.134	-0.000	35.545	0.000	0.000	45.094	43.338	131.662	MWD+IFR1+MS
13700.000	90.000	179.641	10929.997	36.046	0.000	44.492	-0.000	36.046	0.000	0.000	45.278	43.530	-42.763	MWD+IFR1+MS
13800.000	90.000	179.641	10929.997	36.557	0.000	44.860	-0.000	36.557	0.000	0.000	45.502	43.694	-37.191	MWD+IFR1+MS
13900.000	90.000	179.641	10929.997	37.078	0.000	45.239	-0.000	37.078	0.000	0.000	45.764	43.830	-32.023	MWD+IFR1+MS
14000.000	90.000	179.641	10929.997	37.608	0.000	45.627	-0.000	37.608	0.000	0.000	46.060	43.941	-27.510	MWD+IFR1+MS
14100.000	90.000	179.641	10929.997	38.147	0.000	46.025	-0.000	38.147	0.000	0.000	46.387	44.032	-23.719	MWD+IFR1+MS
14200.000	90.000	179.641	10929.997	38.694	0.000	46.432	-0.000	38.694	0.000	0.000	46.739	44.109	-20.598	MWD+IFR1+MS
14300.000	90.000	179.641	10929.997	39.249	0.000	46.848	-0.000	39.249	0.000	0.000	47.111	44.174	-18.043	MWD+IFR1+MS
14400.000	90.000	179.641	10929.997	39.812	0.000	47.272	-0.000	39.812	0.000	0.000	47.501	44.231	-15.947	MWD+IFR1+MS
14500.000	90.000	179.641	10929.997	40.383	0.000	47.706	-0.000	40.383	0.000	0.000	47.906	44.281	-14.216	MWD+IFR1+MS
14600.000	90.000	179.641	10929.997	40.960	0.000	48.147	-0.000	40.960	0.000	0.000	48.324	44.328	-12.773	MWD+IFR1+MS
14700.000	90.000	179.641	10929.997	41.544	0.000	48.596	-0.000	41.544	0.000	0.000	48.755	44.371	-11.560	MWD+IFR1+MS
14800.000	90.000	179.641	10929.997	42.135	0.000	49.054	-0.000	42.135	0.000	0.000	49.196	44.411	-10.529	MWD+IFR1+MS
14900.000	90.000	179.641	10929.997	42.732	0.000	49.519	-0.000	42.732	0.000	0.000	49.647	44.450	-9.646	MWD+IFR1+MS
15000.000	90.000	179.641	10929.997	43.335	0.000	49.991	-0.000	43.335	0.000	0.000	50.108	44.487	-8.883	MWD+IFR1+MS
15100.000	90.000	179.641	10929.997	43.944	0.000	50.470	-0.000	43.944	0.000	0.000	50.577	44.523	-8.219	MWD+IFR1+MS
15200.000	90.000	179.641	10929.997	44.558	0.000	50.957	-0.000	44.558	0.000	0.000	51.055	44.559	-7.636	MWD+IFR1+MS
15300.000	90.000	179.641	10929.997	45.178	0.000	51.450	-0.000	45.178	0.000	0.000	51.540	44.594	-7.121	MWD+IFR1+MS
15400.000	90.000	179.641	10929.997	45.802	0.000	51.950	-0.000	45.802	0.000	0.000	52.033	44.628	-6.664	MWD+IFR1+MS
15500.000	90.000	179.641	10929.997	46.432	0.000	52.457	-0.000	46.432	0.000	0.000	52.533	44.663	-6.256	MWD+IFR1+MS
15600.000	90.000	179.641	10929.997	47.066	0.000	52.969	-0.000	47.066	0.000	0.000	53.041	44.697	-5.890	MWD+IFR1+MS
15700.000	90.000	179.641	10929.997	47.704	0.000	53.488	-0.000	47.704	0.000	0.000	53.554	44.731	-5.560	MWD+IFR1+MS
15800.000	90.000	179.641	10929.997	48.347	0.000	54.012	-0.000	48.347	0.000	0.000	54.074	44.766	-5.261	MWD+IFR1+MS
15900.000	90.000	179.641	10929.997	48.994	0.000	54.542	-0.000	48.994	0.000	0.000	54.600	44.800	-4.989	MWD+IFR1+MS

16000.000	90.000	179.641	10929.997	49.645	0.000	55.078	-0.000	49.645	0.000	0.000	55.133	44.835	-4.741	MWD+IFR1+MS
16100.000	90.000	179.641	10929.997	50.300	0.000	55.619	-0.000	50.300	0.000	0.000	55.670	44.870	-4.514	MWD+IFR1+MS
16200.000	90.000	179.641	10929.997	50.959	0.000	56.165	-0.000	50.959	0.000	0.000	56.214	44.905	-4.306	MWD+IFR1+MS
16300.000	90.000	179.641	10929.997	51.621	0.000	56.717	-0.000	51.621	0.000	0.000	56.762	44.941	-4.114	MWD+IFR1+MS
16400.000	90.000	179.641	10929.997	52.286	0.000	57.273	-0.000	52.286	0.000	0.000	57.316	44.976	-3.937	MWD+IFR1+MS
16500.000	90.000	179.641	10929.997	52.955	0.000	57.834	-0.000	52.955	0.000	0.000	57.875	45.013	-3.773	MWD+IFR1+MS
16600.000	90.000	179.641	10929.997	53.627	0.000	58.400	-0.000	53.627	0.000	0.000	58.438	45.049	-3.621	MWD+IFR1+MS
16700.000	90.000	179.641	10929.997	54.302	0.000	58.970	-0.000	54.302	0.000	0.000	59.007	45.086	-3.480	MWD+IFR1+MS
16800.000	90.000	179.641	10929.997	54.980	0.000	59.545	-0.000	54.980	0.000	0.000	59.579	45.123	-3.348	MWD+IFR1+MS
16900.000	90.000	179.641	10929.997	55.660	0.000	60.124	-0.000	55.660	0.000	0.000	60.157	45.161	-3.225	MWD+IFR1+MS
17000.000	90.000	179.641	10929.997	56.343	0.000	60.707	-0.000	56.343	0.000	0.000	60.738	45.199	-3.110	MWD+IFR1+MS
17100.000	90.000	179.641	10929.997	57.029	0.000	61.294	-0.000	57.029	0.000	0.000	61.324	45.238	-3.002	MWD+IFR1+MS
17200.000	90.000	179.641	10929.997	57.718	0.000	61.885	-0.000	57.718	0.000	0.000	61.913	45.277	-2.901	MWD+IFR1+MS
17300.000	90.000	179.641	10929.997	58.409	0.000	62.480	-0.000	58.409	0.000	0.000	62.507	45.316	-2.806	MWD+IFR1+MS
17400.000	90.000	179.641	10929.997	59.102	0.000	63.078	-0.000	59.102	0.000	0.000	63.104	45.356	-2.716	MWD+IFR1+MS
17500.000	90.000	179.641	10929.997	59.797	0.000	63.680	-0.000	59.797	0.000	0.000	63.705	45.396	-2.632	MWD+IFR1+MS
17600.000	90.000	179.641	10929.997	60.495	0.000	64.286	-0.000	60.495	0.000	0.000	64.309	45.437	-2.552	MWD+IFR1+MS
17700.000	90.000	179.641	10929.997	61.195	0.000	64.894	-0.000	61.195	0.000	0.000	64.917	45.479	-2.477	MWD+IFR1+MS
17800.000	90.000	179.641	10929.997	61.897	0.000	65.507	-0.000	61.897	0.000	0.000	65.528	45.520	-2.406	MWD+IFR1+MS
17900.000	90.000	179.641	10929.997	62.601	0.000	66.122	-0.000	62.601	0.000	0.000	66.143	45.563	-2.338	MWD+IFR1+MS
18000.000	90.000	179.641	10929.997	63.306	0.000	66.740	-0.000	63.306	0.000	0.000	66.760	45.605	-2.274	MWD+IFR1+MS
18100.000	90.000	179.641	10929.997	64.014	0.000	67.362	-0.000	64.014	0.000	0.000	67.381	45.649	-2.213	MWD+IFR1+MS
18200.000	90.000	179.641	10929.997	64.723	0.000	67.986	-0.000	64.723	0.000	0.000	68.005	45.692	-2.156	MWD+IFR1+MS
18300.000	90.000	179.641	10929.997	65.434	0.000	68.614	-0.000	65.434	0.000	0.000	68.631	45.736	-2.101	MWD+IFR1+MS
18400.000	90.000	179.641	10929.997	66.147	0.000	69.244	-0.000	66.147	0.000	0.000	69.261	45.781	-2.048	MWD+IFR1+MS
18500.000	90.000	179.641	10929.997	66.861	0.000	69.877	-0.000	66.861	0.000	0.000	69.893	45.826	-1.998	MWD+IFR1+MS
18600.000	90.000	179.641	10929.997	67.577	0.000	70.512	-0.000	67.577	0.000	0.000	70.528	45.872	-1.951	MWD+IFR1+MS
18700.000	90.000	179.641	10929.997	68.295	0.000	71.150	-0.000	68.295	0.000	0.000	71.165	45.918	-1.905	MWD+IFR1+MS
18800.000	90.000	179.641	10929.997	69.013	0.000	71.791	-0.000	69.013	0.000	0.000	71.805	45.964	-1.862	MWD+IFR1+MS
18900.000	90.000	179.641	10929.997	69.734	0.000	72.433	-0.000	69.734	0.000	0.000	72.447	46.012	-1.820	MWD+IFR1+MS
19000.000	90.000	179.641	10929.997	70.455	0.000	73.079	-0.000	70.455	0.000	0.000	73.092	46.059	-1.781	MWD+IFR1+MS
19100.000	90.000	179.641	10929.997	71.178	0.000	73.726	-0.000	71.178	0.000	0.000	73.739	46.107	-1.743	MWD+IFR1+MS
19200.000	90.000	179.641	10929.997	71.903	0.000	74.376	-0.000	71.903	0.000	0.000	74.389	46.156	-1.706	MWD+IFR1+MS

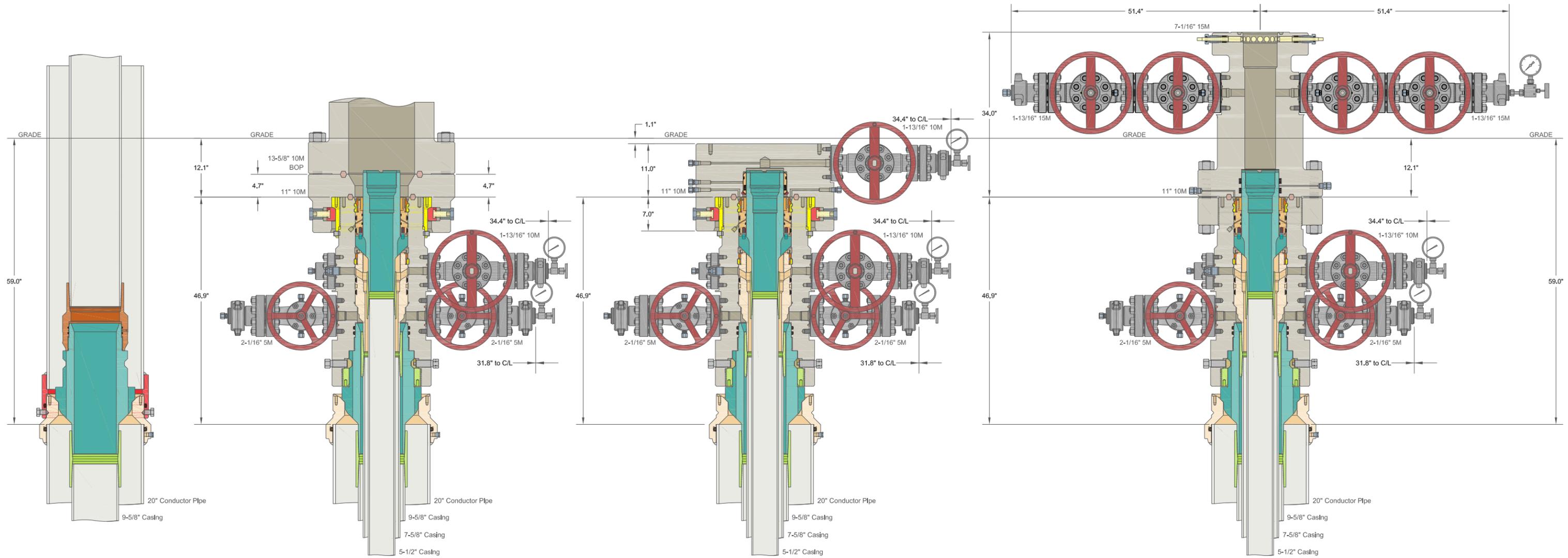
19300.000	90.000	179.641	10929.997	72.628	0.000	75.028	-0.000	72.628	0.000	0.000	75.040	46.205	-1.671	MWD+IFR1+MS
19400.000	90.000	179.641	10929.997	73.355	0.000	75.682	-0.000	73.355	0.000	0.000	75.694	46.254	-1.637	MWD+IFR1+MS
19500.000	90.000	179.641	10929.997	74.083	0.000	76.339	-0.000	74.083	0.000	0.000	76.350	46.304	-1.605	MWD+IFR1+MS
19600.000	90.000	179.641	10929.997	74.812	0.000	76.997	-0.000	74.812	0.000	0.000	77.008	46.355	-1.574	MWD+IFR1+MS
19700.000	90.000	179.641	10929.997	75.542	0.000	77.657	-0.000	75.542	0.000	0.000	77.668	46.406	-1.544	MWD+IFR1+MS
19800.000	90.000	179.641	10929.997	76.274	0.000	78.319	-0.000	76.274	0.000	0.000	78.329	46.457	-1.516	MWD+IFR1+MS
19900.000	90.000	179.641	10929.997	77.006	0.000	78.983	-0.000	77.006	0.000	0.000	78.993	46.509	-1.488	MWD+IFR1+MS
20000.000	90.000	179.641	10929.997	77.739	0.000	79.649	-0.000	77.739	0.000	0.000	79.659	46.561	-1.462	MWD+IFR1+MS
20100.000	90.000	179.641	10929.997	78.474	0.000	80.317	-0.000	78.474	0.000	0.000	80.326	46.614	-1.436	MWD+IFR1+MS
20200.000	90.000	179.641	10929.997	79.209	0.000	80.986	-0.000	79.209	0.000	0.000	80.995	46.668	-1.411	MWD+IFR1+MS
20300.000	90.000	179.641	10929.997	79.945	0.000	81.657	-0.000	79.945	0.000	0.000	81.666	46.722	-1.388	MWD+IFR1+MS
20400.000	90.000	179.641	10929.997	80.683	0.000	82.330	-0.000	80.683	0.000	0.000	82.338	46.776	-1.365	MWD+IFR1+MS
20500.000	90.000	179.641	10929.997	81.421	0.000	83.004	-0.000	81.421	0.000	0.000	83.012	46.831	-1.342	MWD+IFR1+MS
20600.000	90.000	179.641	10929.997	82.160	0.000	83.680	-0.000	82.160	0.000	0.000	83.688	46.886	-1.321	MWD+IFR1+MS
20700.000	90.000	179.641	10929.997	82.899	0.000	84.357	-0.000	82.899	0.000	0.000	84.365	46.942	-1.300	MWD+IFR1+MS
20800.000	90.000	179.641	10929.997	83.640	0.000	85.036	-0.000	83.640	0.000	0.000	85.044	46.998	-1.280	MWD+IFR1+MS
20900.000	90.000	179.641	10929.997	84.382	0.000	85.716	-0.000	84.382	0.000	0.000	85.724	47.055	-1.261	MWD+IFR1+MS
21000.000	90.000	179.641	10929.997	85.124	0.000	86.398	-0.000	85.124	0.000	0.000	86.405	47.112	-1.242	MWD+IFR1+MS
21100.000	90.000	179.641	10929.997	85.867	0.000	87.081	-0.000	85.867	0.000	0.000	87.088	47.170	-1.224	MWD+IFR1+MS
21200.000	90.000	179.641	10929.997	86.610	0.000	87.766	-0.000	86.610	0.000	0.000	87.773	47.228	-1.207	MWD+IFR1+MS
21300.000	90.000	179.641	10929.997	87.355	0.000	88.452	-0.000	87.355	0.000	0.000	88.458	47.286	-1.190	MWD+IFR1+MS
21400.000	90.000	179.641	10929.997	88.100	0.000	89.139	-0.000	88.100	0.000	0.000	89.145	47.345	-1.173	MWD+IFR1+MS
21500.000	90.000	179.641	10929.997	88.846	0.000	89.827	-0.000	88.846	0.000	0.000	89.834	47.405	-1.157	MWD+IFR1+MS
21600.000	90.000	179.641	10929.997	89.592	0.000	90.517	-0.000	89.592	0.000	0.000	90.523	47.465	-1.142	MWD+IFR1+MS
21700.000	90.000	179.641	10929.997	90.339	0.000	91.208	-0.000	90.339	0.000	0.000	91.214	47.525	-1.127	MWD+IFR1+MS
21800.000	90.000	179.641	10929.997	91.087	0.000	91.900	-0.000	91.087	0.000	0.000	91.906	47.586	-1.112	MWD+IFR1+MS
21900.000	90.000	179.641	10929.997	91.835	0.000	92.593	-0.000	91.835	0.000	0.000	92.599	47.647	-1.098	MWD+IFR1+MS
22000.000	90.000	179.641	10929.997	92.584	0.000	93.288	-0.000	92.584	0.000	0.000	93.293	47.709	-1.084	MWD+IFR1+MS
22100.000	90.000	179.641	10929.997	93.334	0.000	93.983	-0.000	93.334	0.000	0.000	93.988	47.772	-1.071	MWD+IFR1+MS
22200.000	90.000	179.641	10929.997	94.084	0.000	94.680	-0.000	94.084	0.000	0.000	94.685	47.834	-1.058	MWD+IFR1+MS
22300.000	90.000	179.641	10929.997	94.835	0.000	95.377	-0.000	94.835	0.000	0.000	95.382	47.897	-1.045	MWD+IFR1+MS
22400.000	90.000	179.641	10929.997	95.586	0.000	96.076	-0.000	95.586	0.000	0.000	96.081	47.961	-1.033	MWD+IFR1+MS
22500.000	90.000	179.641	10929.997	96.338	0.000	96.775	-0.000	96.338	0.000	0.000	96.780	48.025	-1.021	MWD+IFR1+MS

22600.000	90.000	179.641	10929.997	97.090	0.000	97.476	-0.000	97.090	0.000	0.000	97.481	48.090	-1.010	MWD+IFR1+MS
22700.000	90.000	179.641	10929.997	97.843	0.000	98.178	-0.000	97.843	0.000	0.000	98.182	48.155	-0.998	MWD+IFR1+MS
22800.000	90.000	179.641	10929.997	98.596	0.000	98.880	-0.000	98.596	0.000	0.000	98.885	48.220	-0.987	MWD+IFR1+MS
22900.000	90.000	179.641	10929.997	99.350	0.000	99.584	-0.000	99.350	0.000	0.000	99.588	48.286	-0.977	MWD+IFR1+MS
23000.000	90.000	179.641	10929.997	100.104	0.000	100.288	-0.000	100.104	0.000	0.000	100.293	48.352	-0.966	MWD+IFR1+MS
23100.000	90.000	179.641	10929.997	100.859	0.000	100.994	-0.000	100.859	0.000	0.000	100.998	48.419	-0.956	MWD+IFR1+MS
23200.000	90.000	179.641	10929.997	101.614	0.000	101.700	-0.000	101.614	0.000	0.000	101.704	48.486	-0.946	MWD+IFR1+MS
23300.000	90.000	179.641	10929.997	102.370	0.000	102.407	-0.000	102.370	0.000	0.000	102.411	48.554	-0.937	MWD+IFR1+MS
23400.000	90.000	179.641	10929.997	103.126	0.000	103.115	-0.000	103.126	0.000	0.000	103.119	48.622	-0.927	MWD+IFR1+MS
23500.000	90.000	179.641	10929.997	103.882	0.000	103.823	-0.000	103.882	0.000	0.000	103.827	48.690	-0.918	MWD+IFR1+MS
23600.000	90.000	179.641	10929.997	104.639	0.000	104.533	-0.000	104.639	0.000	0.000	104.537	48.759	-0.909	MWD+IFR1+MS
23635.910	90.000	179.641	10929.997	104.911	0.000	104.787	-0.000	104.911	0.000	0.000	104.791	48.784	-0.906	MWD+IFR1+MS
23700.000	90.000	179.641	10929.997	105.395	0.000	105.241	-0.000	105.395	0.000	0.000	105.245	48.829	-0.901	MWD+IFR1+MS
23725.913	90.000	179.641	10929.997	105.591	0.000	105.424	-0.000	105.591	0.000	0.000	105.428	48.847	-0.898	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 21 DTD South 182H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 25	11097.09	440426.80	637491.60	7571.00	RECTANGLE
SHL 25	11101.11	440098.00	637486.42	7574.00	RECTANGLE
LTP 25	23635.98	427424.00	637573.00	7571.00	RECTANGLE
BHL 25	23726.05	427334.00	637573.50	7571.00	RECTANGLE



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead
With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head
And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	



U. S. Steel Tubular Products

11/8/2023 1:08:50 PM

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

- 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).
- Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 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 plain end weight with 1.5 safety factor.

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U. S. Steel Tubular Products

11/29/2021 4:16:04 PM

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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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.

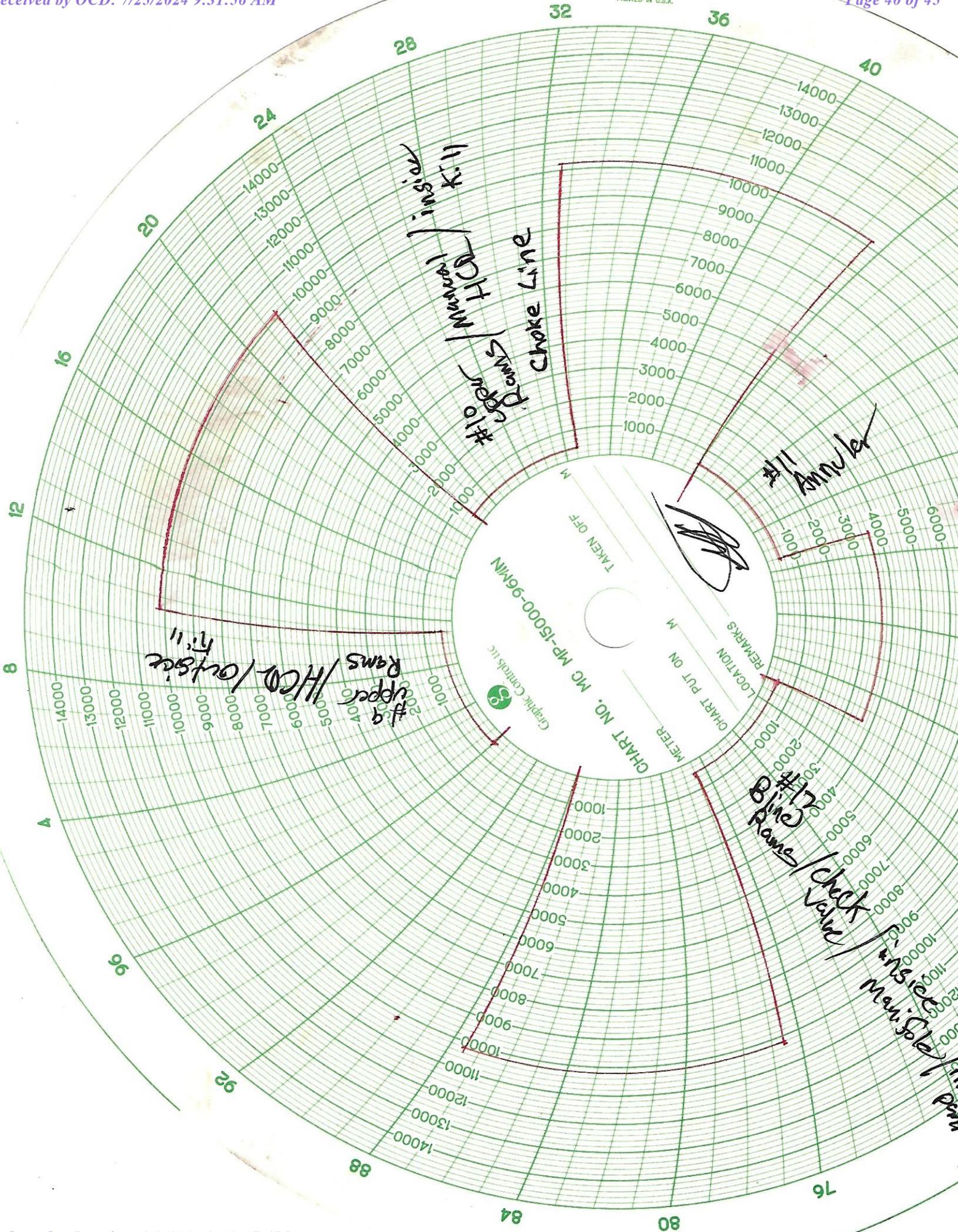
General Procedure With No Pipe In Hole (Open Hole)

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





Lone Star Hydrostatic LLC
940-241-3365

Company: XTO

Well Name: JRU 017

Rig: Nobors #34 saw tooth #805*

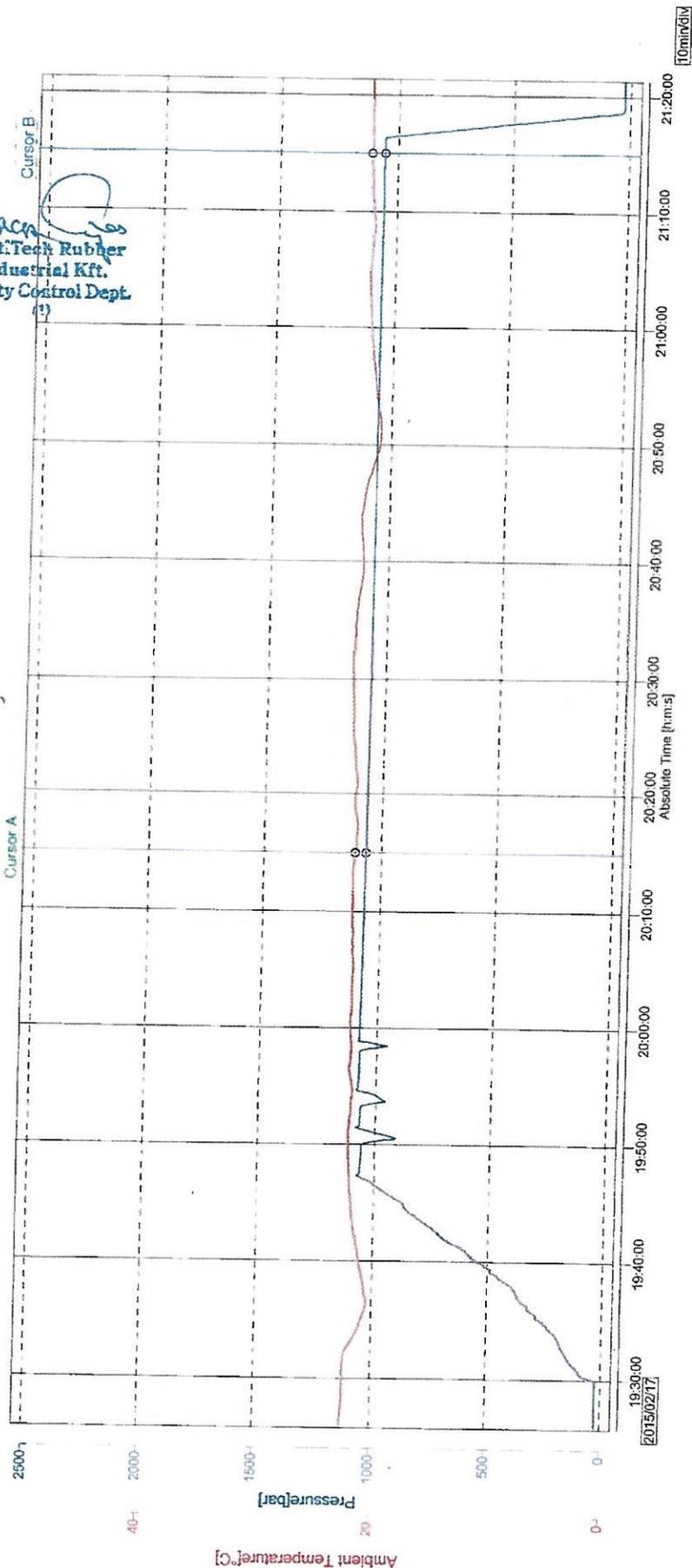
Date: 6-25-24

File Name : 002459_69594,69595.GEV...002470_69594,69595.GEV
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 Device Type : GX10
 Serial No. : S5P606400
 Data Count : 1388
 Print Group : Press-Temp
 Print Range : 2015/02/17 19:25:45.000 - 2015/02/17 21:21:20.000
 Comment :

Sampling Int. : 5.000 sec
 Start Time : 2015/02/17 19:25:45.000
 Stop Time : 2015/02/17 21:21:20.000

Data No.	Cursor A	Cursor B	Difference
591	2015/02/17 20:15:00.000	2015/02/17 21:15:00.000	01:00:00.000
720	2015/02/17 20:15:00.000	2015/02/17 21:15:00.000	01:00:00.000
Tag Comment			
Pressure[bar]	Value A	Value B	Value B-A
Ambient Temperature[°C]	1086.74	1055.91	-10.83
	22.24	22.24	0.00

Jacques
 Cont. Tech Rubber
 Industrial Kft.
 Quality Control Dept.





ContiTech

CONTITECH RUBBER Industrial Kft.	No: QC-DB-145 / 2015
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QUALITY CONTROL INSPECTION AND TEST CERTIFICATE		CERT. N°: 367	
PURCHASER: ContiTech Oil & Marine Corp.		P.O. N°: 4500503260	
CONTITECH RUBBER order N°: 540093	HOSE TYPE: 3" ID	Choke and Kill Hose	
HOSE SERIAL N°: 69594	NOMINAL / ACTUAL LENGTH: 13,72 m / 13,75 m		
W.P. 68,9 MPa 10000 psi	T.P. 103,4 MPa 15000 psi	Duration:	60 min.
Pressure test with water at ambient temperature See attachment. (1 page)			
COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with 4 1/16" 10K API Swivel Flange end Hub	3595 3602	AISI 4130	A0551X
		AISI 4130	059624
		AISI 4130	A0334X
NOT DESIGNED FOR WELL TESTING		API Spec 16 C	
Tag No.: ASSET # 66 – 1281		Temperature rate:"B"	
All metal parts are flawless			
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.			
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.			
COUNTRY OF ORIGIN HUNGARY/EU			
Date: 18. February 2015.	Inspector	Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. (1) 	

Hose Inspection Report

ContiTech Oil & Marine

Customer	Customer Reference #	COM Reference #	COM Inspector	Date of Inspection
Nabors	15293178	1219965	A Jaimes	01/09/2020

Hose Manufacturer	Contitech Rubber Industrial
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Hose Serial #	69594 (66-1281)	Date of Manufacture	02/2015
Hose I.D.	3"	Working Pressure	10000PSI
Hose Type	Choke and Kill	Test Pressure	15000PSI
Manufacturing Standard	API 16C		

Connections

End A: 4.1/16" 10Kpsi API Spec 17D Swivel Flange	End B: 4-1/16" 10kpsi API Spec 17 D SV Swivel Flange
• No damage	• No damage
Material: Carbon Steel	Material: Carbon Steel
Seal Face: BX155	Seal Face: BX155
Length Before Hydro Test: 45 FT	Length After Hydro test: 45 FT

Conclusion: The hose passed the external inspection with minor damage to the outer armor. Internal video inspection showed no damage to the inner liner. The hose passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. **Hose #69594 (66-1281) is suitable for continued service.**

Recommendations: In general, the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

- Visual inspection: Every 3 to 6 months (or during installation/removal)
- Annual: In-situ pressure test (in addition to the 3 to 6 monthly inspections)
- Initial 5 years service: Major inspection
- 2nd Major inspection: Following subsequent 3 year life cycle
- (Detailed description of test regime available upon request, QCP 206-2)

****NOTE:** There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

External Damage	
Pre – Hydro test	
Approx. Distance from End A	4'
Width	10"
Length	2"
Depth	To hose body
Notes	Broken armor



Issued By: Alejandro Jaimes
Date: 1/10/2020

Checked By: Roger Suarez
Date: 1/10/2020

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QF97

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 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
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 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 367260

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 367260
	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.	8/2/2024